

An architectural rendering of a modern urban development. On the left is a multi-story building with a facade of vertical blue and white stripes. To its right is a taller, more complex structure with a grid-like window pattern. The foreground shows a street with pedestrians, a dog, and cars. The entire image is overlaid with a semi-transparent blue filter.

June 2023
Civic Engineers - Utility Statement

Upper Brook Street Masterplan

(McLaren / Kadans)

1. Introduction

This report has been prepared by Civic Engineers on behalf of McLaren Property Ltd. and Kadans Science Partner, to support a full planning application for a Sci-Tech and purpose-built student accommodation scheme (PBSA) scheme (hereafter referred to as the 'Proposed Development') on Upper Brook Street Masterplan - McLaren/Kadans(hereafter referred to as the 'Site'). This scheme would bring forward development on a previously developed site which is earmarked for commercial and PBSA uses in the Oxford Road Corridor SRFG 2019. This application has been accompanied by a suite of technical documents, reports and plans.



Figure 1 - Sheppard Robson architectural proposal received 29/03/23

1. Project Brief

The project brief was initially set out by McLaren Property and has been further developed through the Stage 2 process. This project, alongside the adjoining Sci-Tech form Phase 1 of the Upper Brook Street Masterplan. Phase 2 of the Upper Brook Street Masterplan is being brought forward by Property Alliance Group and Moda Living. The masterplan intends to transform the currently vacant sites, re-establishing their important role in the area by re-introducing permeability, public realm, and active community-facing uses at ground floor. The emerging masterplan includes over 2 acres of new public realm and green spaces, a new public square, as well as a series of high-quality new buildings of varying heights to provide for approximately 700,000ft² of sci-tech accommodation, 1,800 purpose-built student accommodation beds, and 25,000ft² of active ground floor uses. The PBSA proposals for Phase 1 of the Upper Brook Street Masterplan include the construction of the following:

- 2No student residential buildings (a single 9 to 23 storey block comprising circa 737 apartments, with a first floor terrace.)
- Landscaped public realm space encompassing the buildings including SUDS features.

The adjoining Sci-Tech Building does not form part of this report. However, scope for a number of surveys including CCTV, GPR and Ground investigation survey has extended to both sites at the request of the client for practicality and will be noted at the relevant sections within this report.

2. Site Analysis

2.1 Site History

Historic maps dating back to the early 1900's suggest that much of the site's history was previously a residential development until the mid-20th century. Light industrial units then followed in the site's history up to the current day.



Figure 2 - (Left) historic map of site dated 1888-1913, (right) historic aerial photo of site dated 1937

2.2 Current Site and Proposals

The proposed site is located at 53-57 Upper Brook Street (A34), Manchester, directly opposite the Alan Turing Building and the Manchester Institute for Mathematics. To the east of the site is the residential street Kincardine Road and Ardwick.

There are two developments proposed within the overall site, with the second site (site 2, refer to Figure 3) adjacent to the south along Upper Brook Street. Both sites are adjoined via public realm spaces at ground level, which allow foot travel from Upper Brook Street through to Kincardine Road. This report focuses on Site 1 shown in Figure 3. Current proposals from Sheppard Robson include a 737-bed student residential scheme comprising 2no rectangular (on plan) buildings. The larger tower facing Upper Brook Street is 23-storeys tall and the smaller facing Kincardine Rd is 9-storeys tall. The two towers are connected centrally via a 1-storey high podium.

The site was previously Citroen car dealership which closed permanently circa 2017. The dealership building is unoccupied, however, outdoor space within the site boundaries that was previously used to store and exhibit cars is now a Pay & Display car park operated by SiP. The existing building will be demolished to make way for the new development.



Figure 3 - Sites 1 & 2 location and red line boundary

2.3 Adjacent Site – Sci-Tech Building

There is a 13,800m² six to nine storey office and lab building neighbouring with the proposed McLaren student residential towers to the south which is being brought forward by Kadans Science Partner. McLaren and Kadans are to provide a coordinated landscape design for both projects to allow for seamless transition between two developments. As part of the development of both schemes CCTV surveys, cover both sites simultaneously.

Landscape architects Re-form have developed proposals to create Thorburn Walk, a new pedestrian and cycle route with communal dwelling space between the PBSA building and the Sci-Tech building. The concept for the passageway is to cater for both groups, students, and employees at the science centre, to allow them to share the common area and to improve the permeability of the area between the University Buildings and Ardwick.

Surveys

Utility Searches

A utility search was carried out by Cornerstone Project Ltd on behalf of Civic Engineers, dated 24/11/22, to identify buried services present around the site which could inform or impact the design as per Sheppard Robson concept proposals.

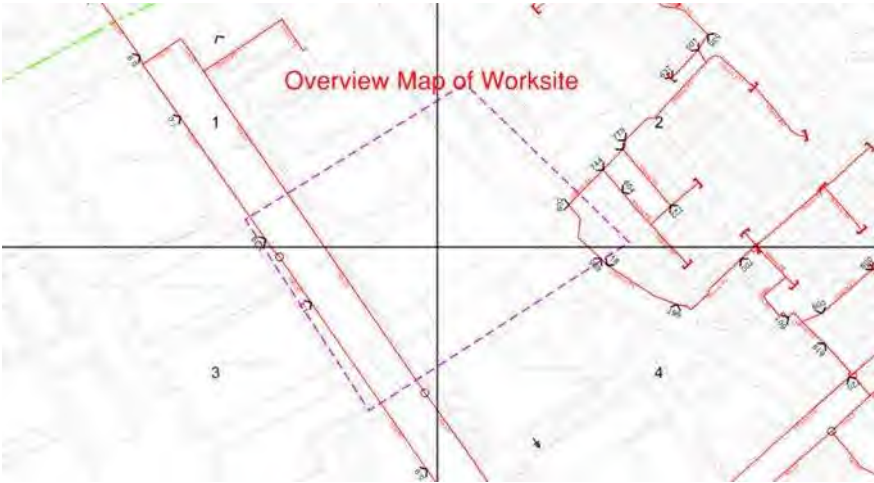
The following searches were carried out:

- Gas
- Sewage
- Water
- British Telecom
- Electricity
- Third Party
- Comms Cable
- Independent Utilities

Refer to Table 1 for a summary of the above utility searches and associated site plans. Refer to Appendix A for the full Cornerstone Utilities Search Report.

Services location shown are based on the desktop study utility search results and are indicative only. For final locations of underground services, refer to the CCTV survey results in this report.

Table 1 – Utilities Searches

Gas	A low pressure, 14inch cast iron mains pipe to the south perimeter of the site along the A34. Civic are liaising with the gas supplier to understand requirement easement distance. 
Sewage	Two combined public sewers within site boundary. 600x750 public sewer starting in the northwest corner of the site, running south and connecting to a 600x860 combined public sewer along the A34. It is thought that this run serviced the existing building. The existing sewer will likely be disconnected and removed during the ground works for the new building. 530 concrete combined public sewer pipe running along Whitekirk Close, north of the site, connecting to a 525 dia concrete combined public sewer pipe which enters into the site boundary at the northeast corner. Sewer pipe runs through the northern side of the site and exits through the west site boundary. Results from the CCTV survey has confirmed that the location shown in the Utilities Search result is not accurate, and the sewer line is further back than shown below and located along the Kincardine Boundary line.

	
Water	4inch asbestos-cement distribution main running along the A34 to the front of the site. 15inch cast-iron pipe running along Kincardine Road to the rear of the site. 
British Telecom	Live line along the A34 with 3 boxes along the site boundary to the front, with a connecting live line into the existing building. Live line along Kincardine Road with 2 boxes along the site boundary to the rear.

	Live line along the west site boundary and a connecting live line through the rear of the site that stretches the width of the property. 
Electricity	6kV-6.6kV and low volt electric cables running along the east site boundary, connecting to cables of the same voltage along the A34. 
Third Party	1No euNetworks duct running along the A34 to the front of the site.

	1No euNetworks long haul (LHN) duct running along Kincardine Road to the rear of the site.
Cable	1No Vodafone cable connecting to the west side of the existing building, running north along the west side of the property, and connecting to a Vodafone cable along Kincardine Road. 1No Virgin Media cable running along Kincardine Road to the rear of the site. 1No Virgin Media chamber to the southeast corner of the site. 1No Colt infrastructure network running along the A34 to the front of the site. 1No Neos Networks underground route running along Kincardine Road to the rear of the site. 1No CityFibre plant running along the A34 to the front of the site.
Independent Utilities	None found in the vicinity of the area.

CCTV and GPR.

A CCTV and GPR survey are required to inform the student accommodation buildings and public realm design constraints. Civic Engineers were requested to expand the scope of the CCTV and GPR survey to cover the full application site (i.e. where the PBSA and Sci-tech building will be located) on the 24/11/22.

Information required as part of the scope:

- Report identifying sewers existing condition.
- Manhole (MH) cards for each MH. Northing, easting, ILs, CLs of each feature (using GPS equipment).
- Provision of Jetvac unit.
- Dwg (CAD) of sewers identified showing existing routes.

On the 06/12/22, Layer Surveys LTD were appointed for the CCTV survey and completed works on the 30/01/23. Critical services to the project that were found are as follows:

100mm Surface Water Sewer running along the east and rear of the site and appears to be the main source of surface water facilitation off the site. These pipes connect to a 600mm Combined Water Sewer that runs east to west of the site along Kincardine Road. This sewer pipe was previously thought to have been entering into the north side of the site and exiting through the west from the utilities survey. However, the CCTV has confirmed that the pipe is located further back and along the Kincardine Boundary line. United Utilities have confirmed that the required easement of the sewer is 4m either side of the centreline of the sewer.

The CCTV survey found a water main pipe to the east of the existing building that connects through to the adjacent property. It has been confirmed that there are water mains running along both Upper Brook Street and Kincardine Road from the utilities survey. Due to the proximity of the Upper Brook Street water mains line and the location of the water main found within the site boundary, it is believed that the water mains connect at the Upper Brook Street side.

Electric cables have been located to the east and west side of the existing building and an unidentified gas service to the west of the site. Several unidentified services/features determined from GPR contacts have been identified around the site, however, it is not believed that they will have a significant impact to the current development proposals.

See Figure 7 - CCTV survey overlay plan for a plan of the critical services. For the full CCTV survey drawing and accompanying report, refer to Appendix B.



Figure 7 - CCTV survey overlay plan

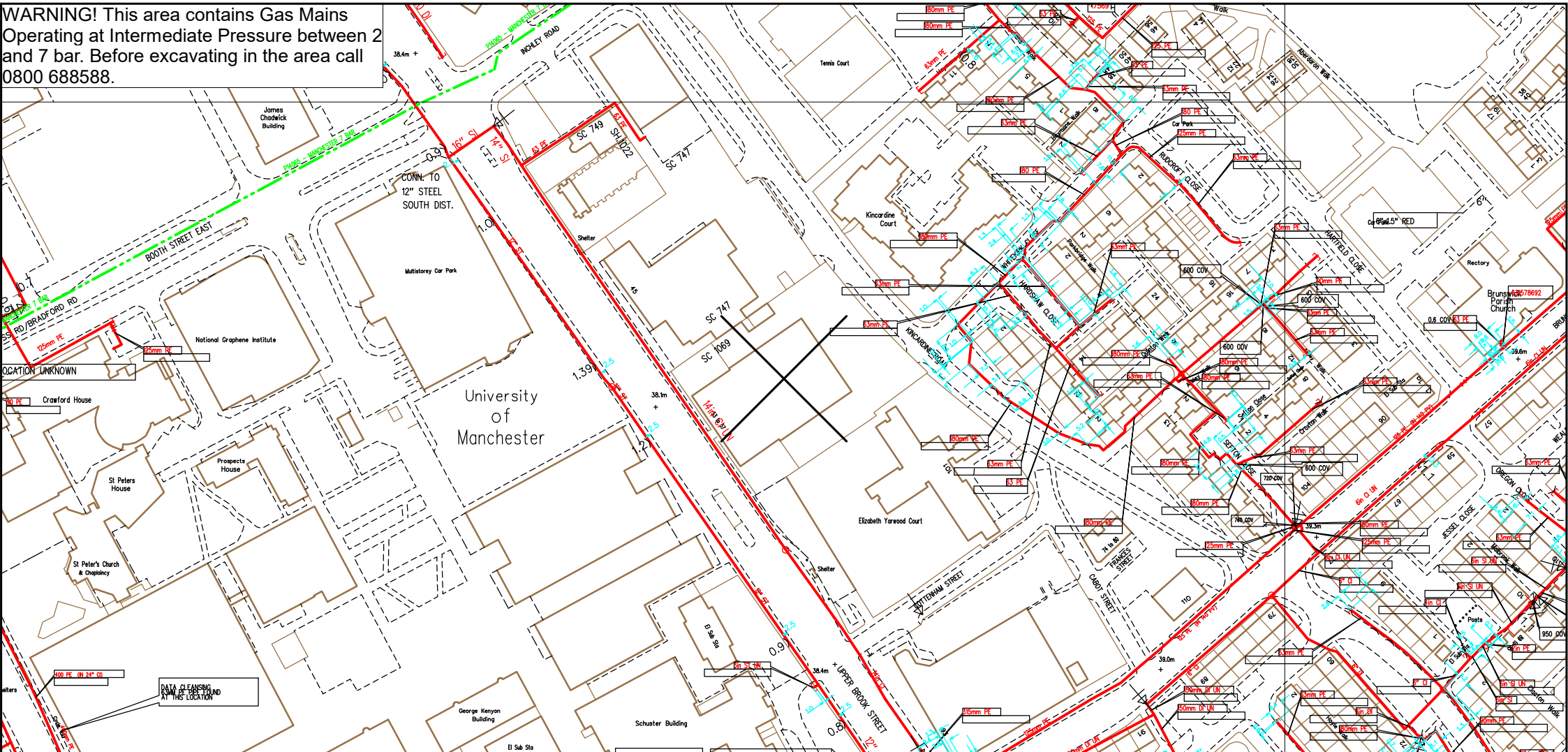
16. Appendices

Appendix A – Cornerstone Utilities Survey

Appendix B – CCTV Survey Report and Drawing

GAS

WARNING! This area contains Gas Mains Operating at Intermediate Pressure between 2 and 7 bar. Before excavating in the area call 0800 688588.



SCALE: Not to scale
USER ID: Lewis Burns
DATE: 08/11/2022
EXTRACT DATE: 05/09/2022
MAP REF: SJ8496
CENTRE: 384808, 396894

LP MAINS	—————
MP MAINS	-----
IP MAINS	-----
LHP MAINS	-----

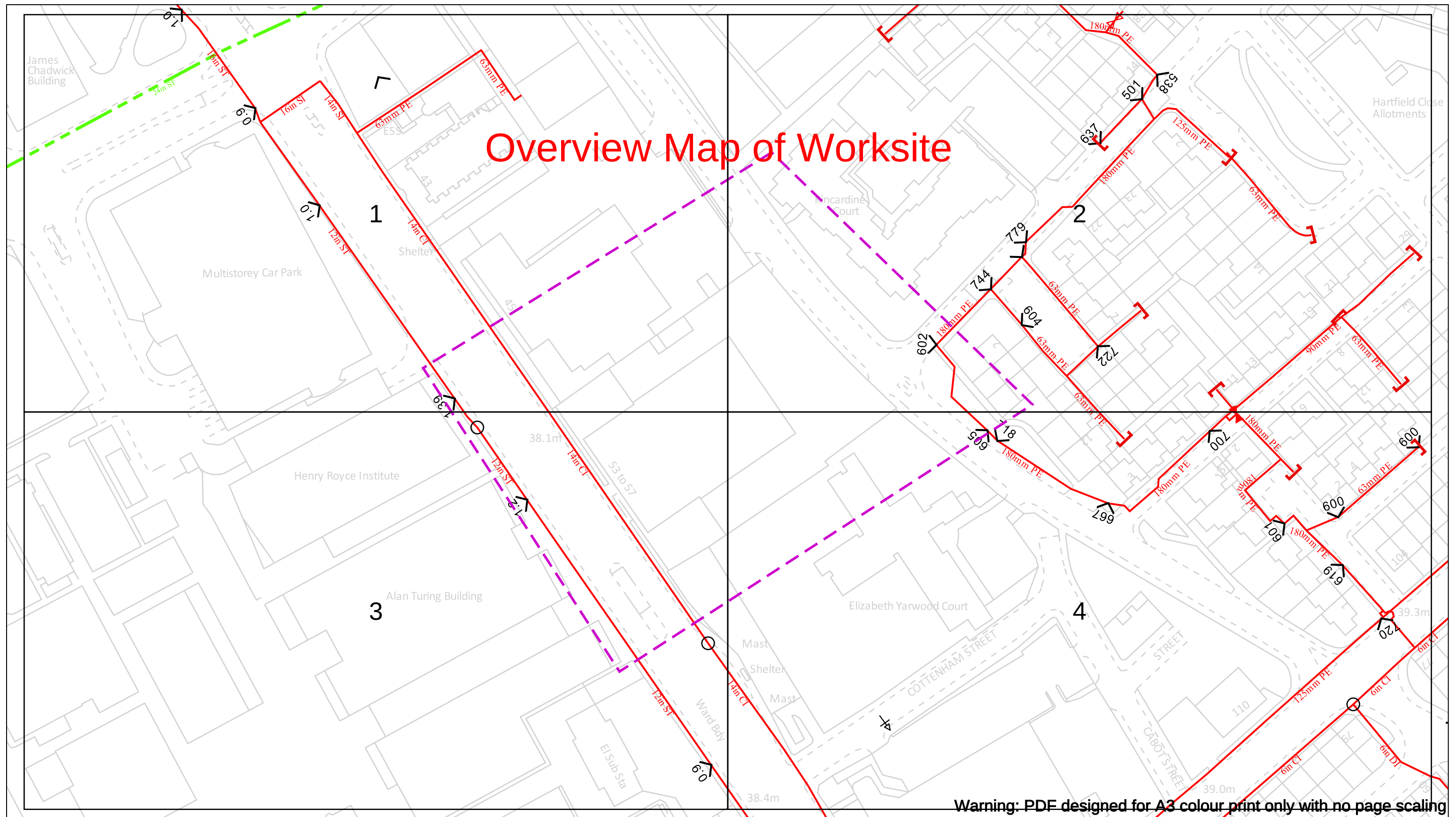
This plan shows those pipes owned by Cadent Gas Ltd in their role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Ltd or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue. Further information on all DR4s can be determined by calling the DR4 hotline on 01455 892426 (9am-5pm) A DR4 is where a potential error has been identified within the asset record and a process is currently underway to investigate and resolve the error as appropriate.

MAPS Viewer Version 5.8.0.1

Local Machine

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View extent: 200m, 115m

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Date Requested: 08/11/2022
Job Reference: 27527028
Site Location: 384800 396859
Requested by:
Mr Duncan Phillips
Your Scheme/Reference: 2584

Scale: 1:1025 (When plotted at A3)

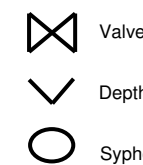
In case of an emergency call 0800 111 999

Dig Sites

Area:  Line: 



LP Mains
MP Mains
IP Mains
LHP Mains



Valve

Depth of cover

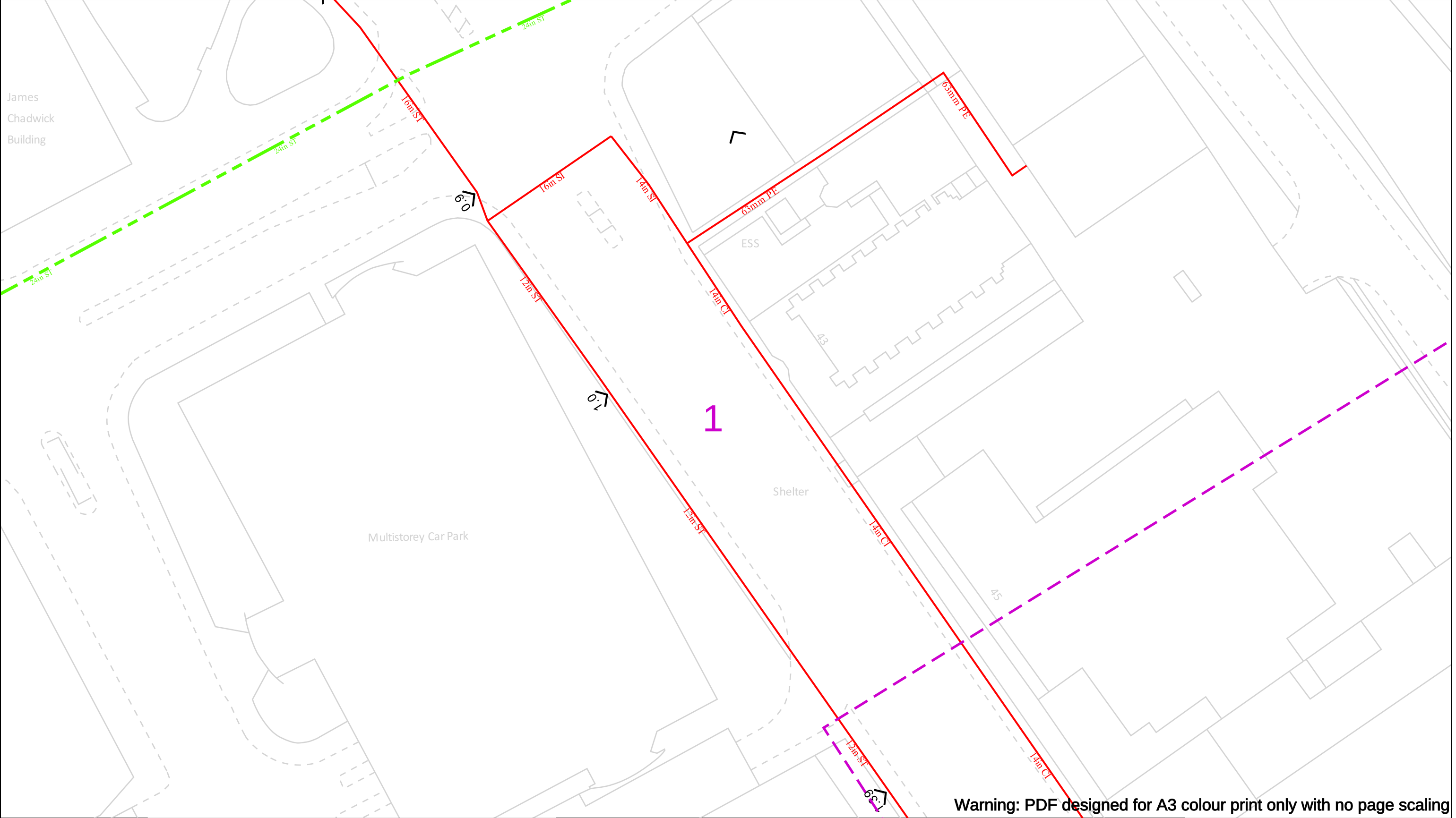
Syphon



- Diameter Change
- Material Change
- Out of Standard Service

Cadent

Your Gas Network



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Date Requested: 08/11/2022
Job Reference: 27527028
Site Location: 384800 396859
Requested by:
Mr Duncan Phillips
Your Scheme/Reference: 2584

Scale: 1:500 (When plotted at A3)

View extent: 200m, 115m

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In case of an emergency call 0800 111 999

50m

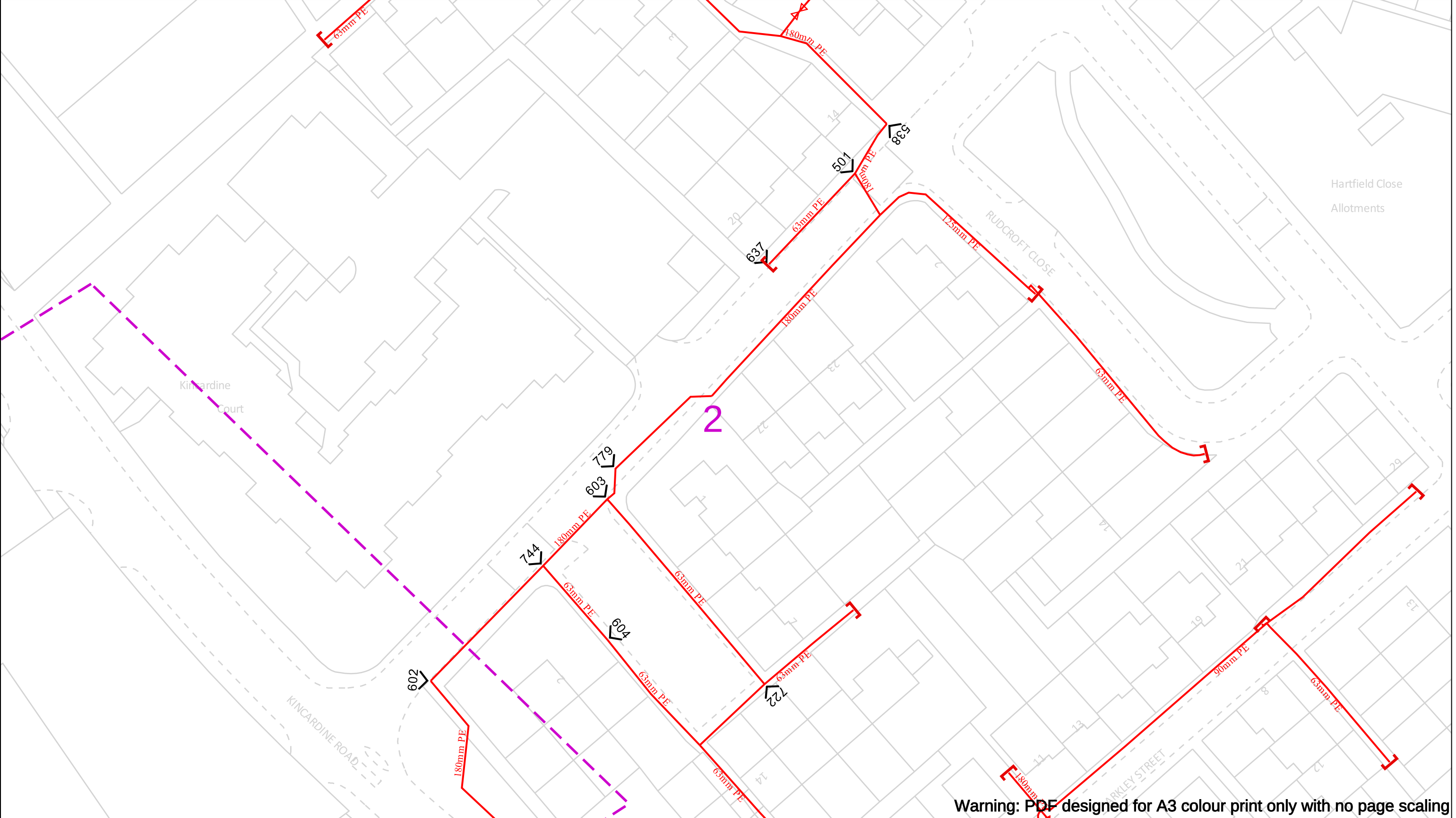
Dig Sites

	LP Mains
	MP Mains
	IP Mains
	LHP Mains

Area: Line:

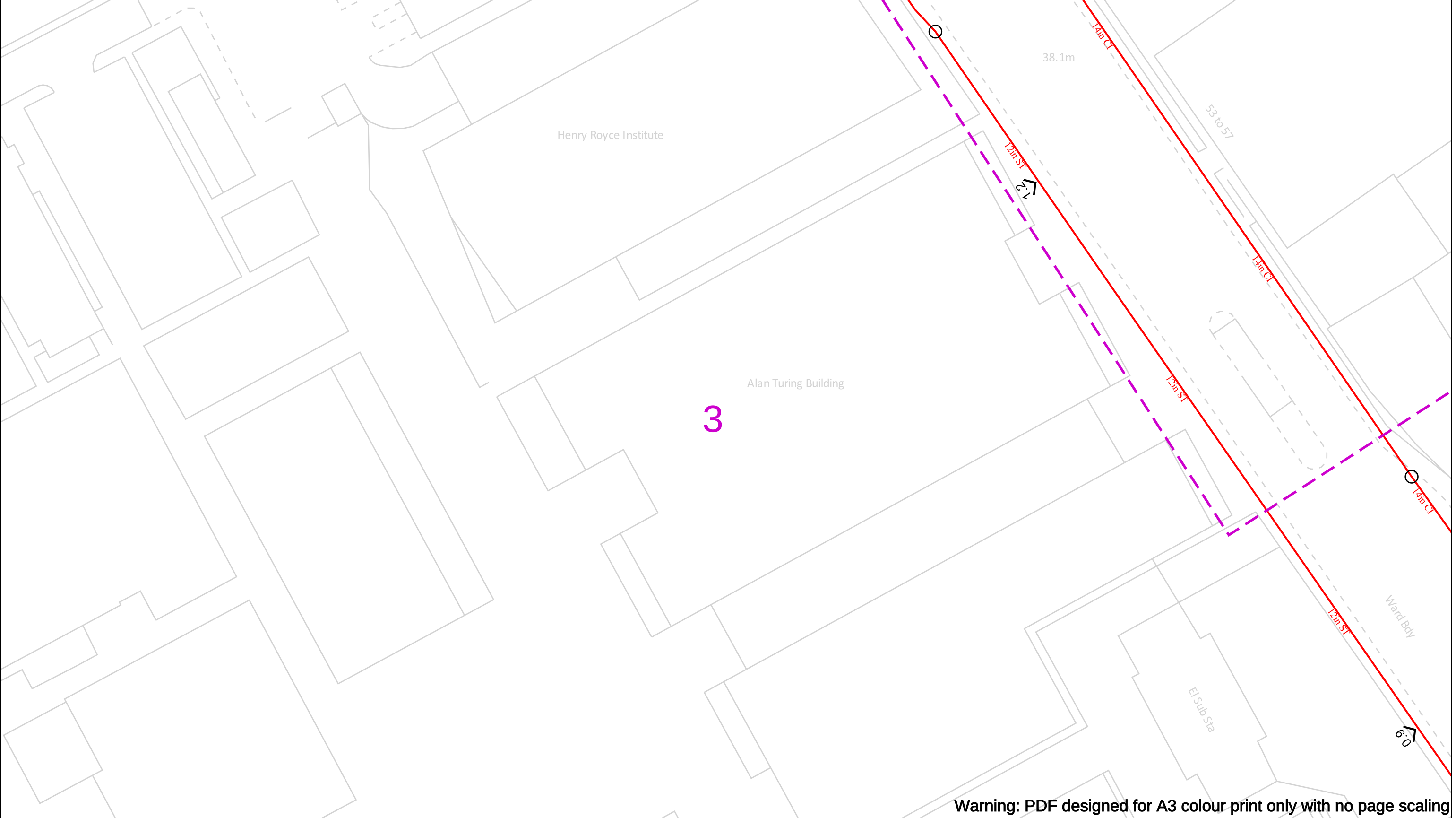
	Valve		Diameter Change
	Depth of cover		Material Change
	Syphon		Out of Standard Service

Cadent
Your Gas Network



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Date Requested: 08/11/2022 Job Reference: 27527028 Site Location: 384800 396859 Requested by: Mr Duncan Phillips Your Scheme/Reference: 2584 Scale: 1:500 (When plotted at A3)		View extent: 200m, 115m IMPORTANT NOTICES This plan shows these pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GT's or otherwise privately owned may be present in this area. Information with regards to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Limited or their agents, servants or contractors for any errors or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.	In case of an emergency call 0800 111 999 Dig Sites LP Mains MP Mains IP Mains LHP Mains Area: Line: Valve Depth of cover Syphon Diameter Change Material Change Out of Standard Service 50m Cadent Your Gas Network		Crown Copyright © - This plan is reproduced from or based on the OS map by Cadent Gas Limited, with the sanction of the controller of HM Stationary Office. Crown Copyright Reserved. Ordnance Survey Licence number 100024886	
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Job Reference: 27527028
Site Location: 384800 396859
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Scale: 1:500 (When plotted at A3)

View extent: 200m, 115m

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In case of an emergency call 0800 111 999

Dig Sites

LP Mains

MP Mains

IP Mains

LHP Mains

Area: Line:

Valve

Depth of cover

Syphon

Diameter Change

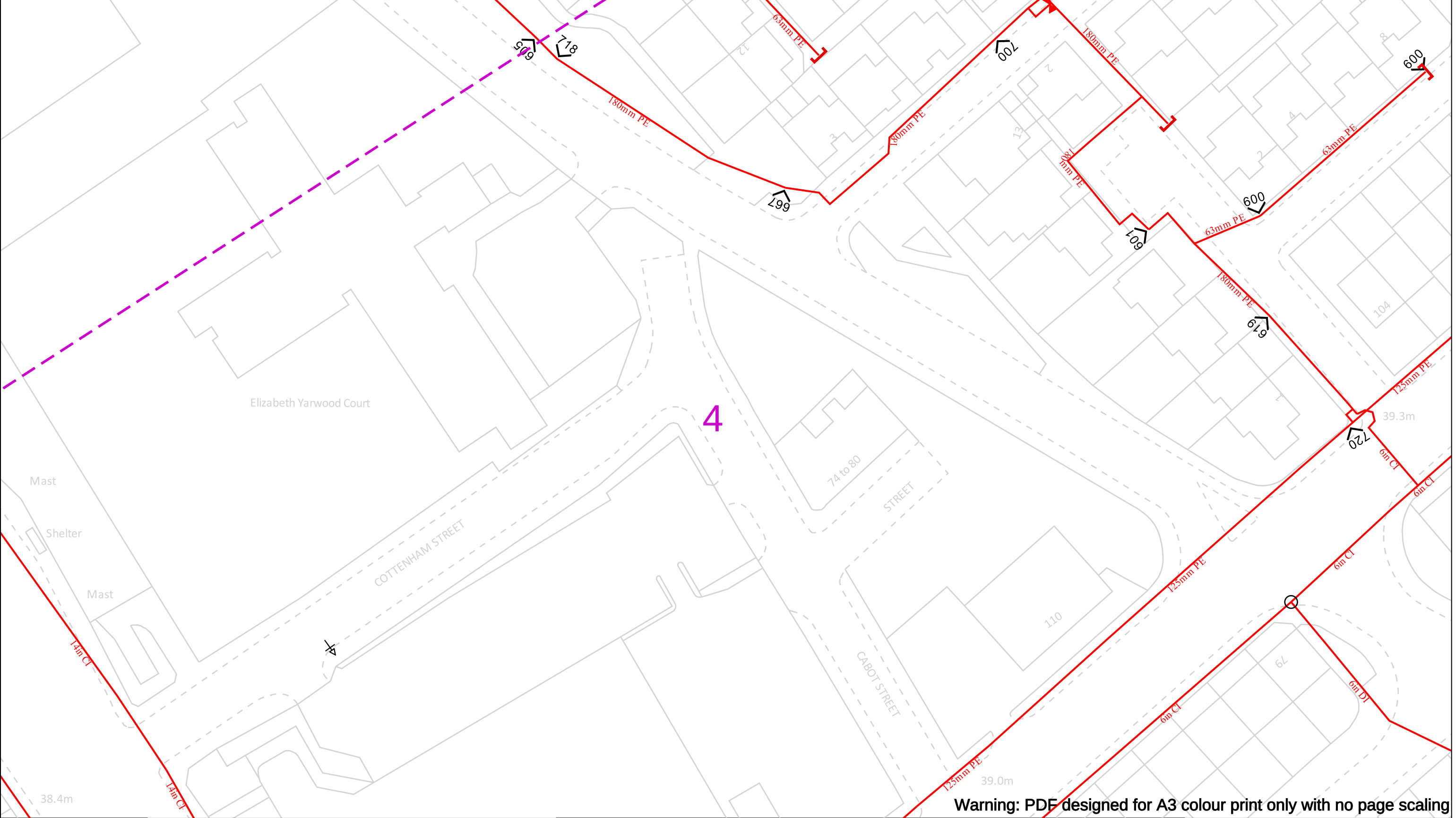
Material Change

Out of Standard Service

Cadent

Your Gas Network

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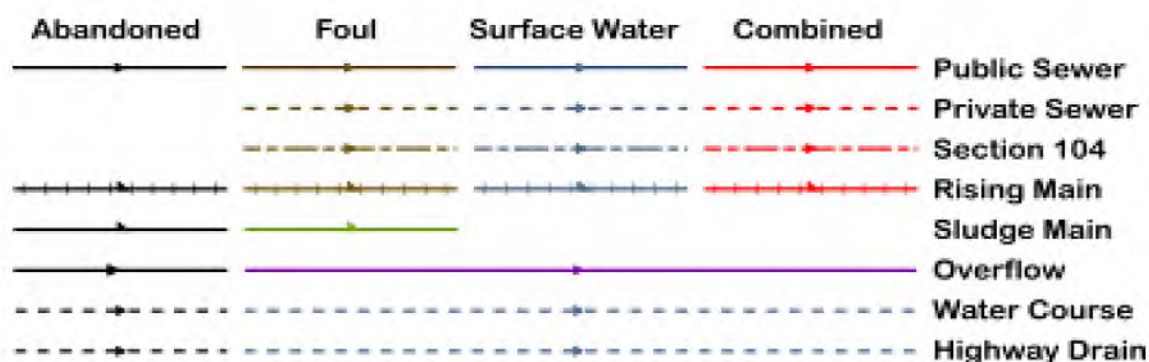
Date Requested: 08/11/2022 Job Reference: 27527028 Site Location: 384800 396859 Requested by: Mr Duncan Phillips Your Scheme/Reference: 2584 Scale: 1:500 (When plotted at A3)		View extent: 200m, 115m IMPORTANT NOTICES This plan shows these pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GT's or otherwise privately owned may be present in this area. Information with regards to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Limited or their agents, servants or contractors for any errors or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.	In case of an emergency call 0800 111 999 Dig Sites LP Mains MP Mains IP Mains LHP Mains Area: Line: Valve Depth of cover Syphon Diameter Change Material Change Out of Standard Service		Cadent Your Gas Network
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WATER & SEWER

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www.cornerstoneprojects.co.uk
VAT Reg. No. 851 4941 19
Company No. 5132353

Registered in England. Registered Address : Cornerstone Projects Ltd, 91 Market Street, Hoylake, Wirral CH47 5AA

Wastewater Symbolology



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



Scale: 1:1250
Date: 09/11/2022

SEWER RECORDS



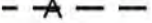
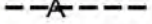
Water for the North West

Address or Site Reference: 2584
Printed by: Property Searches

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Clean Water Symbolology

Proposed	Abandoned	Live	
			Distribution Main
			Trunk Main
			Comms Pipe
			Private Pipe
			Concessionary Service
			Raw Water
			LDTM Raw Water
			LDTM Treated Water
			Air Valve
			AC Valve, open
			AC Valve, closed
			CC Valve, open
			CC Valve, closed
			Non Return Valve
			Pressure Management Valve
			OMS Valve
			Stop Tap
			Flow Meter
			Domestic Meter
			Commercial Meter
			Pump
			Hydrant
			Fire Hydrant
			Anode
			Chlorination Point
			De-chlorination Point
			Strainer Point
			Access Point
			Hatch Box
			IP Point
			Sampling Station
			Logger Box
			Bore Hole
			Inlet Point
			Bulk Supply Point
			End Cap
			Site Termination
			Change of Characteristic
			Condition Report
			<u>Property Types</u>
			Water Tower
			Valve House
			Booster Pumping Station
			Intake Pumping Station
			Water Treatment Works
			Supply Reservoir
			Service Reservoir
			Impounding Reservoir
			Pipe Bridge

Symbology for proposed assets is the same as above, but shown in **green**
Symbology for abandoned assets is the same as above, but shown in **black**



Scale: 1:1250
Date: 09/11/2022

WATER MAINS RECORDS

Address or Site Reference: 2584
Printed by: Property Searches

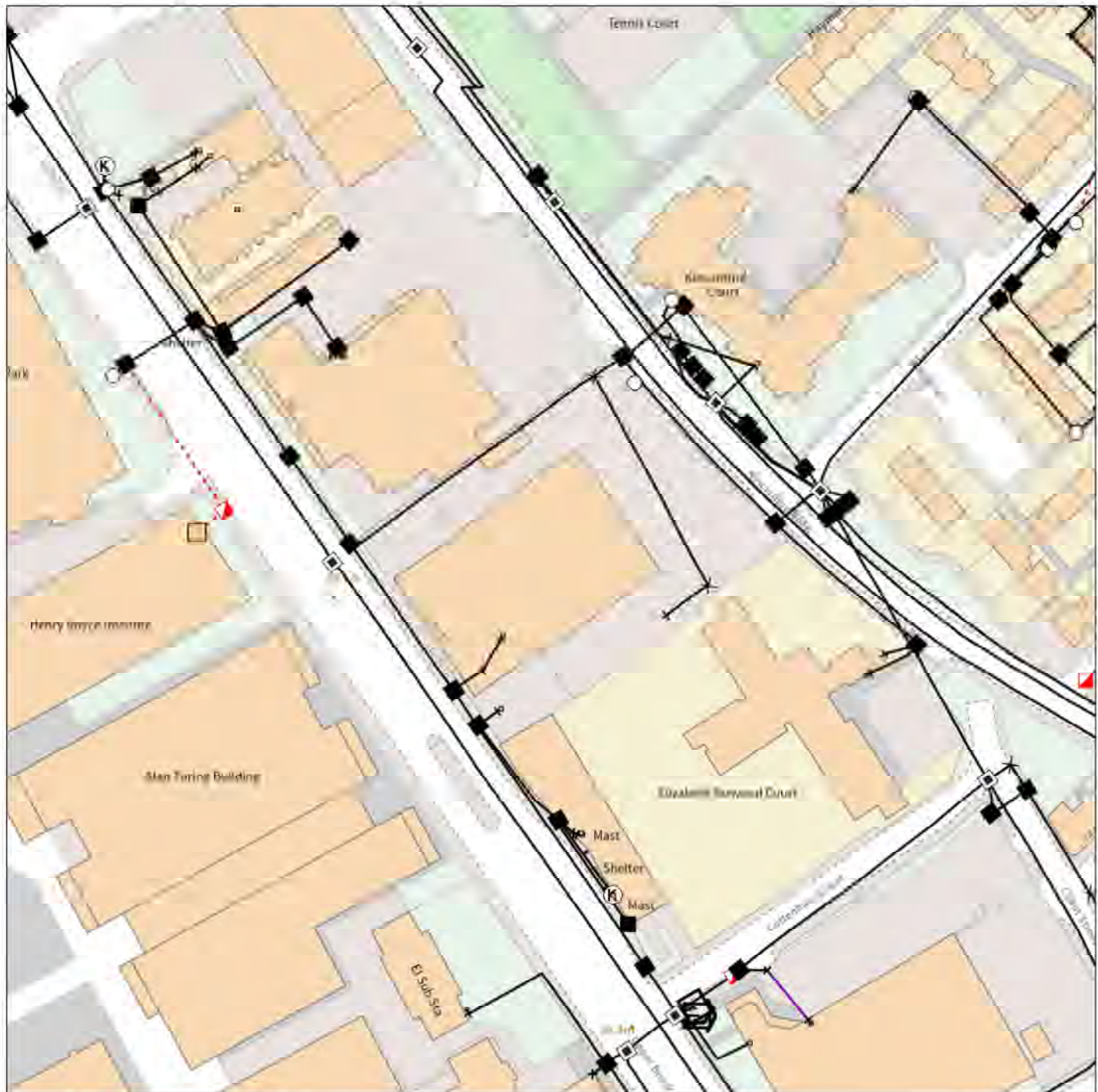
 **United Utilities**
Water for the North West

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BT

Maps by email Plant Information Reply



IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.



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KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling		Bulk	
Fibre			Duct Tee		Planned	
Duct			Building		Inferna	
Manhole			Work		Duct	
Cabinet			Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
	Pending Add	In Place	Pending Remove	Not In Use		
Power Cable						
Power Duct						N/A

BT Ref : UQF08599W

Map Reference : (centre) SJ8480896894

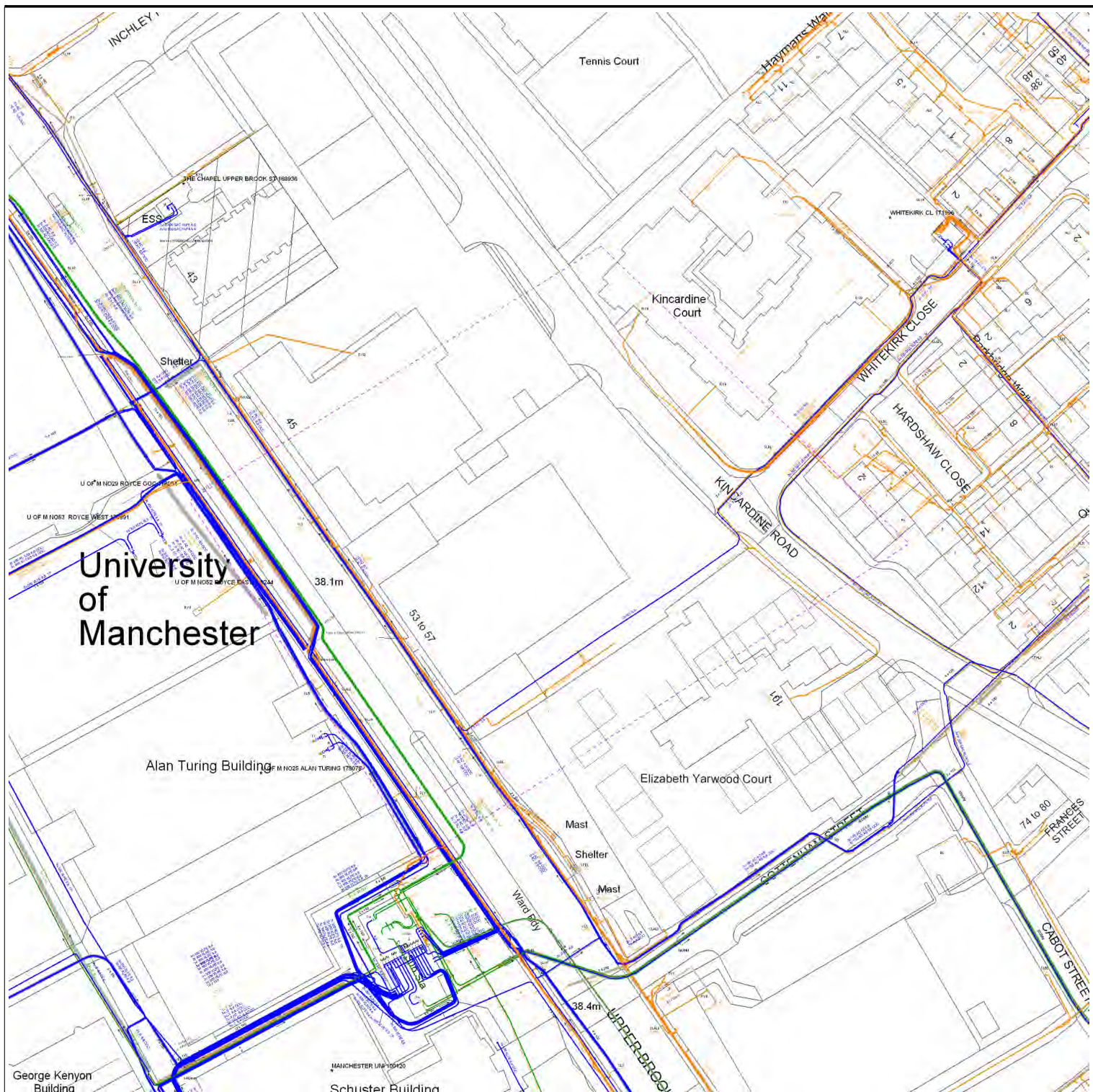
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Issued : 08/11/2022 08:59:36

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ELECTRIC



Requested by: Duncan Phillips
 Company: Cornerstone Projects
 Date Requested: 08/11/2022
 Job Reference: 27527028
 Your Scheme/Reference: 2584

Dig Sites:
 Area ---- Line ----

Operating Voltage	Colour Code	Line Colour
132kV	Black	----
33kV	Green	----
22kV-25kV	Yellow	----
11kV	Red	----
6kV-6.6kV	Blue	----
1kV-6kV	Violet	----
LV	Orange	----
Unknown Voltage	Brown	----



Data Management
 Electricity North West
 Linley House
 Dickinson Street
 Manchester, M1 4LF
 Phone: 0800 195 4141
 Email: planrequest@enwl.co.uk

Scales on A4 paper:
 1:1250 Area dig site
 1:250 Line dig site

Unless otherwise indicated the depth of Electricity North West Limited cables are in accordance with NJUG (450mm for Low Voltage & 600mm for 11kV cables) 33kV and 132kV cables are laid at depths as marked. The depth and positions of Electricity North West Limited equipment was accurate as shown when the equipment was installed. However third parties may have altered the level & other reference data. Therefore Electricity North West Limited accept no responsibility for the position of Electricity North West Limited equipment being different from shown. No person, body or company, shall be relieved from liability for damage caused to Electricity North West Limited equipment by reason of being located differently to the indications on this drawing or from any regulatory loss of income or incentive, or expense, which may be suffered by Electricity North West Limited and which is caused or contributed to by any loss of supply as a result of any damage caused to Electricity North West Limited's equipment. Service cables are not necessarily shown but must be assumed to exist to all premises, streetlights and signs. There may be other Electricity North West Limited apparatus in the vicinity which is not indicated on the cable records. Other apparatus may also be present which is owned by a third party other than Electricity North West Limited.

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Reference should be made to HSE Guidance, HS(G)47 "Avoiding Danger from Underground Services" and GS6 "Avoidance of Danger from Overhead Power Lines".

Electricity North West Limited 304 Bridgewater Place, Birchwood Park, Warrington WA3 6GX. Registered in England and Wales. Registered No 02366949

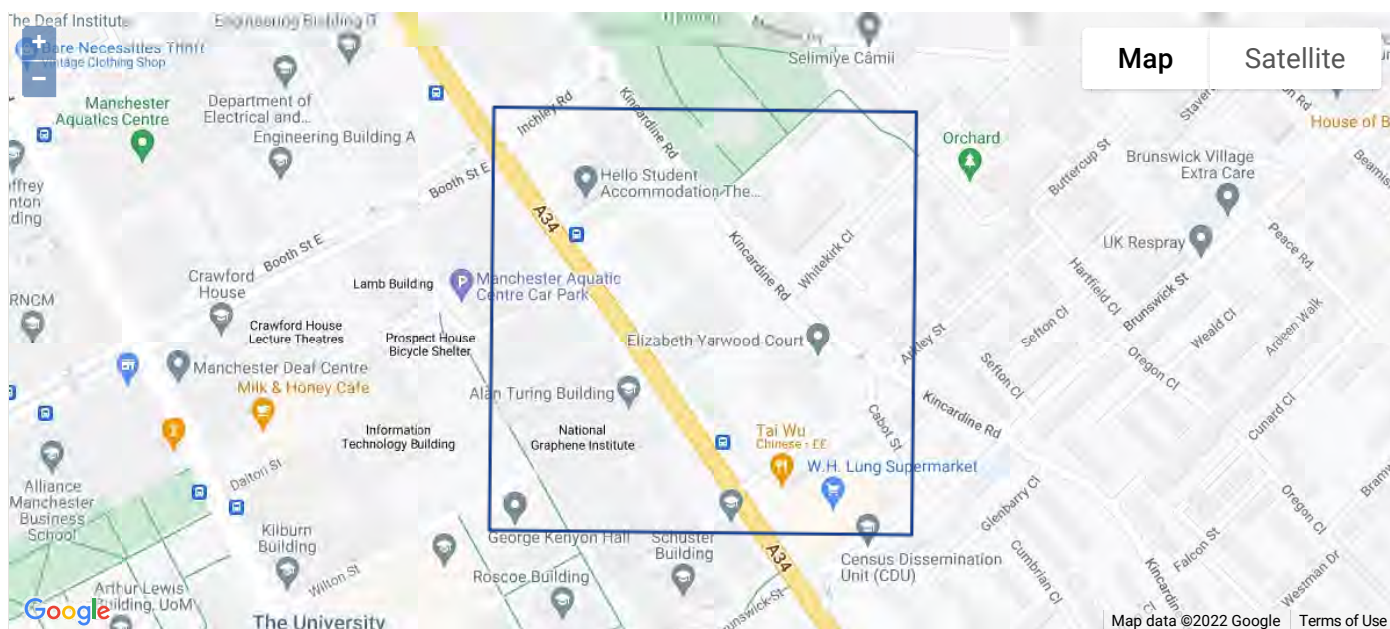
THIRD PARTY SEARCHES



Search requested by:		Date / Time: Tue, 08 Nov 2022 8:39	
Name	DUNCAN	Company	CORNERSTONE PROJECTS LTD
Address	91 Market Street, Hoylake, Wirral, CH47 5AA		
Email	searches@cornerstoneprojects.co.uk	Telephone	01516325142

Search details:			
Site Name	2584	Work type	Other
Site Ref. No 1	2584	Site Ref. No 2	
Address	, M13 9JA		
Grid Reference	384807 / 396891		

Search area:



There are no affected Utilibilly asset owners.

Unaffected Utilibilly asset owners:
Albion Water
SOTA
Telent
KCom
Cholderton Water
Leep Utilities
CGI Logica
Engie
Enviroenergy
Wight Fibre
Gwent Farmers' Community Solar Partnership Ltd

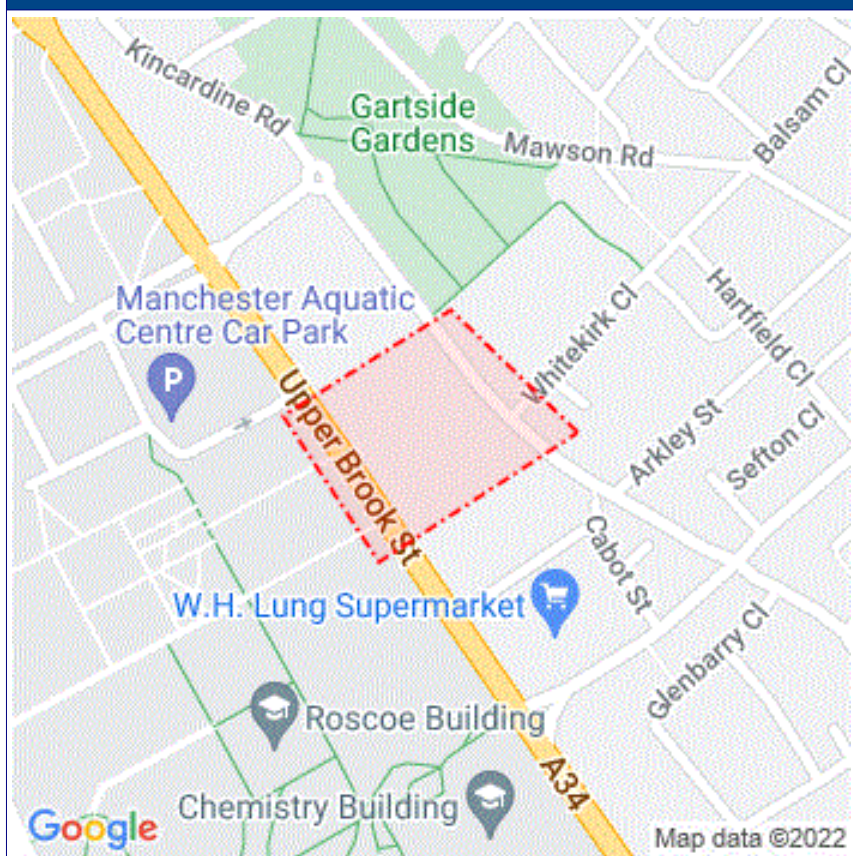
Enquirer

Name	Mr Duncan Phillips	Phone	01516325142
Company	Cornerstone Projects	Mobile	Not Supplied
Address	91 Market Street Hoylake Merseyside CH47 5AA		
Email	searches@cornerstoneprojects.co.uk		

Enquiry Details

Scheme/Reference	2584		
Enquiry type	Initial Enquiry	Work category	Development Projects
Start date	30/11/2022	Work type	Commercial/industrial
End date	30/11/2022	Site size	13413 metres square
Searched location	XY= 384808, 396894	Work type buffer*	75 metres
Confirmed location	384800 396859		
Site Contact Name	Not Supplied	Site Phone No	Not Supplied
Description of Works			

* The WORK TYPE BUFFER is a distance added to your search area based on the Work type you have chosen.

Site Map


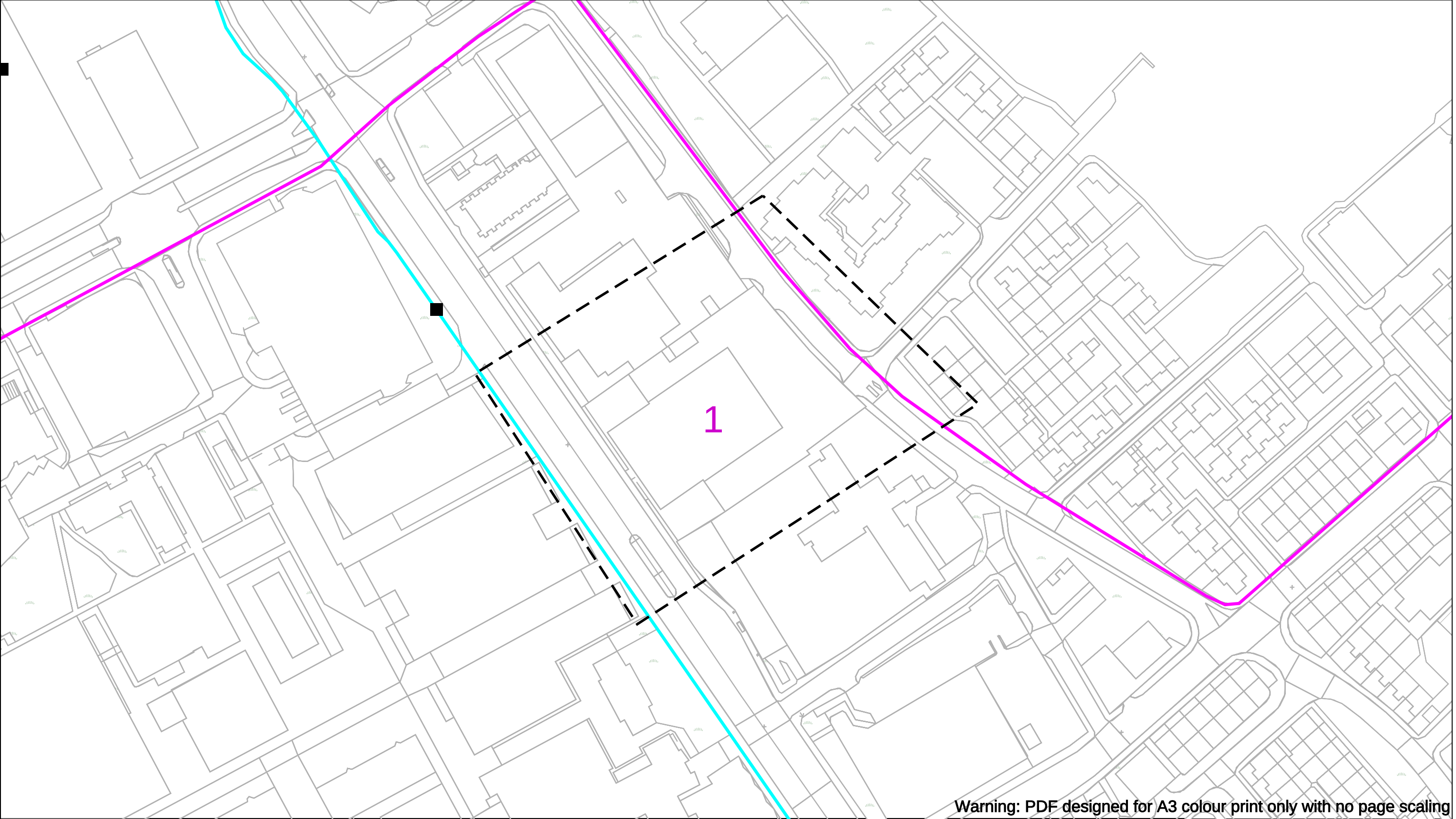
LSBUD Members who have assets registered on the LSBUD service within the vicinity of your search area.

List of affected LSBUD members			
Asset Owner	Phone/Email	Emergency Only	Status
Cadent Gas	0800688588	0800111999	Await response
Electricity North West Limited	08001954141	08001954141	Await response
ESP Utilities Group	01372227560	01372227560	Await response
EUNetworks Fiber UK Limited	02031788003	02031788003	Await response
Neos Networks	03453053337	03453053337	Await response

LSBUD Members who do not have assets registered on the LSBUD service within the vicinity of your search area. Please be aware that LSBUD Members make regular changes to their assets and this list may vary for new enquiries in the same area.

List of not affected LSBUD members		
Angus Energy	AWE Pipeline	B & D Energy Limited
Balfour Beatty Investments Limited	BOC Limited (A Member of the Linde Group)	Box Broadband
BP Exploration Operating Company Limited	BPA	Carrington Gas Pipeline
CATS Pipeline c/o Wood Group PSN	Cemex	Centrica Storage Ltd
CNG Services Ltd	Concept Solutions People Ltd	ConocoPhillips (UK) Teesside Operator Ltd
D.S.Smith	Diamond Transmission Corporation	DIO (MOD Abandoned Pipelines)
DIO (MOD Live Pipelines)	E.ON UK CHP Limited	EirGrid
Eleclink Limited	Energy Assets Networks	ENI & Himor c/o Penspen Ltd
EnQuest NNS Limited	EP Langage Limited	ESSAR
Esso Petroleum Company Limited	EXA Infrastructure	Exolum Pipeline System
Fulcrum Electricity Assets Limited	Fulcrum Pipelines Limited	Gamma
Gas Networks Ireland (UK)	Gateshead Energy Company	Gigaclear Ltd
Harbour Energy	Heathrow Airport LTD	Humbly Grove Energy
IGas Energy	INEOS FPS Pipelines	INEOS Manufacturing (Scotland and TSEP)
INOVYN ChlorVinyls Limited	INOVYN Enterprises Limited	Intergen (Coryton Energy or Spalding Energy)
Jurassic Fibre Ltd	Last Mile	Mainline Pipelines Limited
Manchester Jetline Limited	Manx Cable Company	Marchwood Power Ltd (Gas Pipeline)
Melbourn Solar Limited	Moray East Offshore Windfarm	Murphy Utility Assets
National Grid Electricity Distribution	National Grid Electricity Transmission	National Grid Gas Transmission
Northumbrian Water Group	NPower CHP Pipelines	NTT Global Data Centers EMEA UK Ltd
NYnet Ltd	Ogi	Oikos Storage Limited
Ørsted	Palm Paper Ltd	Perenco UK Limited (Purbeck Southampton Pipeline)
Petroineos	Phillips 66	Portsmouth Water
Premier Transmission Ltd (SNIP)	Redundant Pipelines - LPDA	RWE - Great Yarmouth Pipeline (Bacton to Great Yarmouth Power Station)
RWEnpower (Little Barford and South Haven)	SABIC UK Petrochemicals	SAS Utility Services Ltd
Scottish and Southern Electricity Networks	Scottish Power Generation	Seabank Power Ltd

SES Water	SGN	Shell
Shell NOP	SP Energy Networks	Squire Energy Networks
SSE Generation Ltd	SSE Transmission	SSE Utility Solutions Limited
Tata Communications (c/o JSM Construction Ltd)	Total Colnbrook Pipelines	Total Finaline Pipelines
Transmission Capital	UK Power Networks	Uniper UK Ltd
University of Cambridge Granta Backbone Network	Vattenfall	Veolia ES SELCHP Limited
Veolia ES Sheffield Ltd	Voneus Limited	VPI Power Limited
Wales and West Utilities	West of Duddon Sands Transmission Ltd	Westminster City Council
Zayo Group UK Ltd c/o JSM Group Ltd		



Warning: PDF designed for A3 colour print only with no page scaling

Contact us: planprotection@eunetworks.com	100m	Dig Sites Line: - - - - Area: □ □ □ □	 eunetworks
Date Requested: 08/11/2022 Job Reference: 27527028 Site Location: 384800 396859 Requested by: Mr Duncan Phillips Your Scheme/Reference: 2584	Key Duct — Long Haul (LHN) Duct — Chamber Location ■		
Scale: 1:1250 (When plotted at A3)	IMPORTANT WARNING The information supplied is given in good faith as a guide to locating underground apparatus. Its accuracy cannot be guaranteed, nor does it include comprehensive information about the existence or location of service pipes or cables to individual premises. The responsibility for locating and avoiding damage to apparatus on site shall be that of the persons proposing to excavate in the street shall be liable to the apparatus owner and any third party who may be affected in any way for any loss or damage caused by their failure to do so. IF IN DOUBT PLEASE ASK! PHONE: 07896 087585		

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CABLE



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Legend

- Access Chamber.Location Active Carriageway Chamber
- Access Chamber.Location Active Footway Chamber
- Underground Route.Route Act. - Owned
- Underground Route.Route Act. - Leased

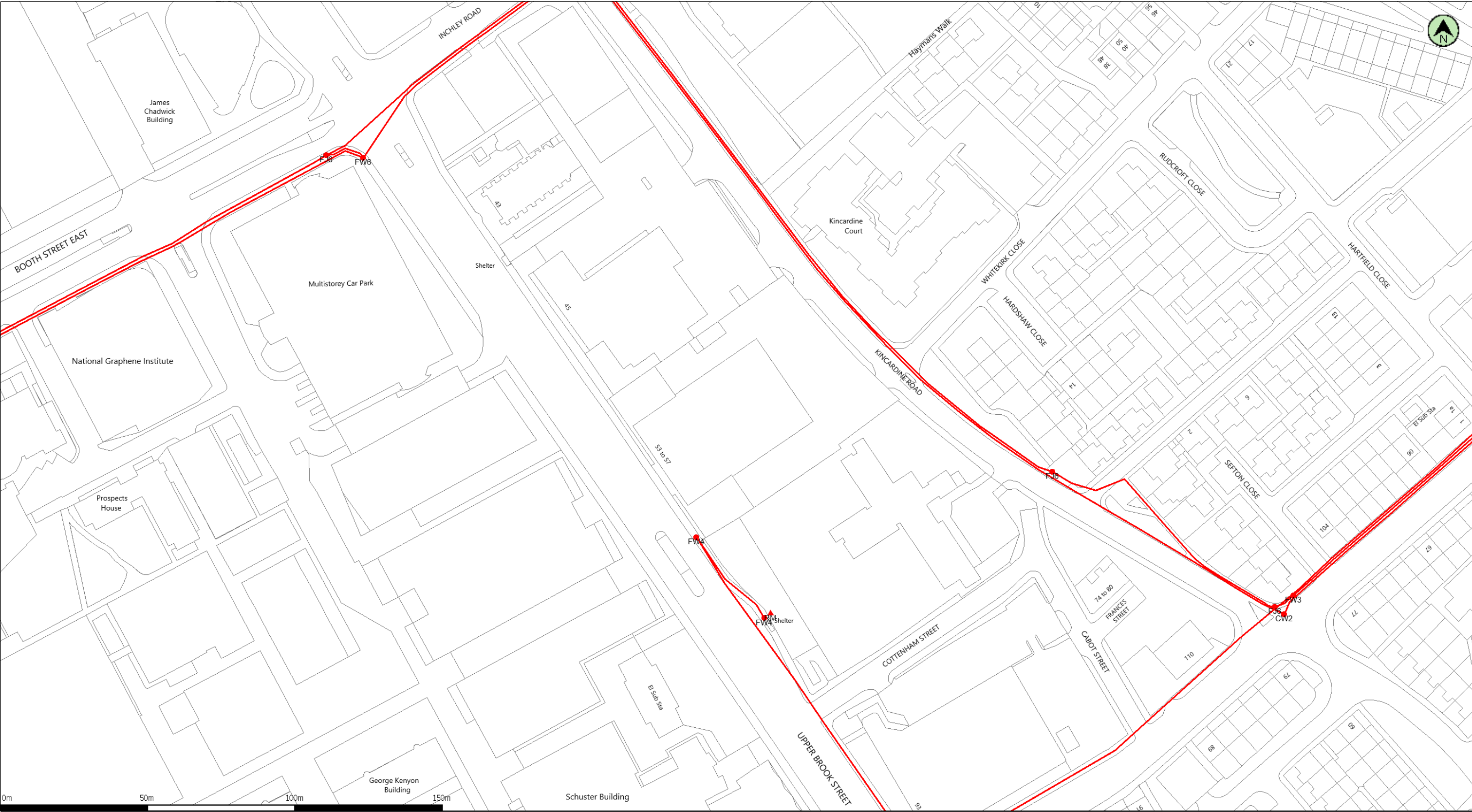


Vodafone Limited (No01471587) registered office is at Vodafone House, The Connection, Newbury, Berkshire, RG142FN

Plot Date : 09/11/2022 Scale : 1:1250

This plan shows apparatus owned by members of the Vodafone Group of companies (including legacy telecommunication companies currently within the group)

Information with regard to such apparatus should always be obtained from Vodafone or its appointed agents.



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Date: 08/11/22

Scale: 1:1250

Map Centre: 384808,396894

Data updated: 03/10/22

Our Ref: 997213 - 4

Telecoms Plan A3

Important Information - please read The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where mains voltage power cables have been placed inside green, rather than black ducting. Further details can be found using the "Affected Postcodes.pdf", which can be downloaded from this website. Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual position of any underground service must be verified by cable detection equipment, etc. and established on site before any mechanical plant is used. Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan. This plan is produced by Virgin Media Limited (c) Crown copyright and database rights 2022 Ordnance Survey 100019209.

Duct, Trench



Chamber / Pole



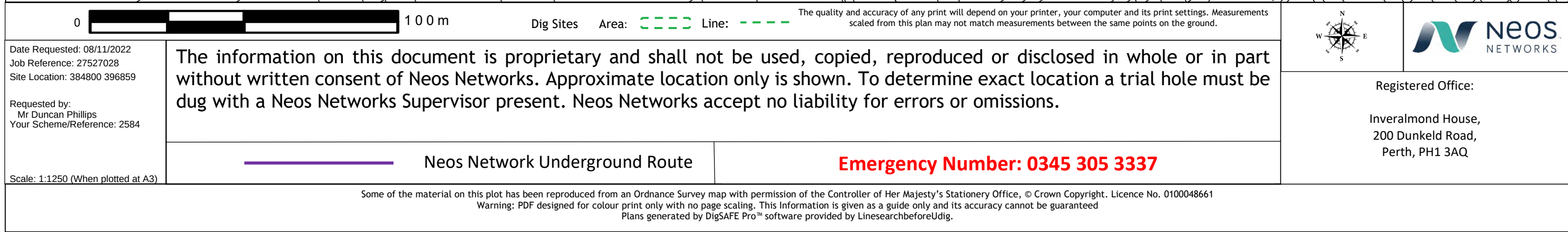
Cabinet

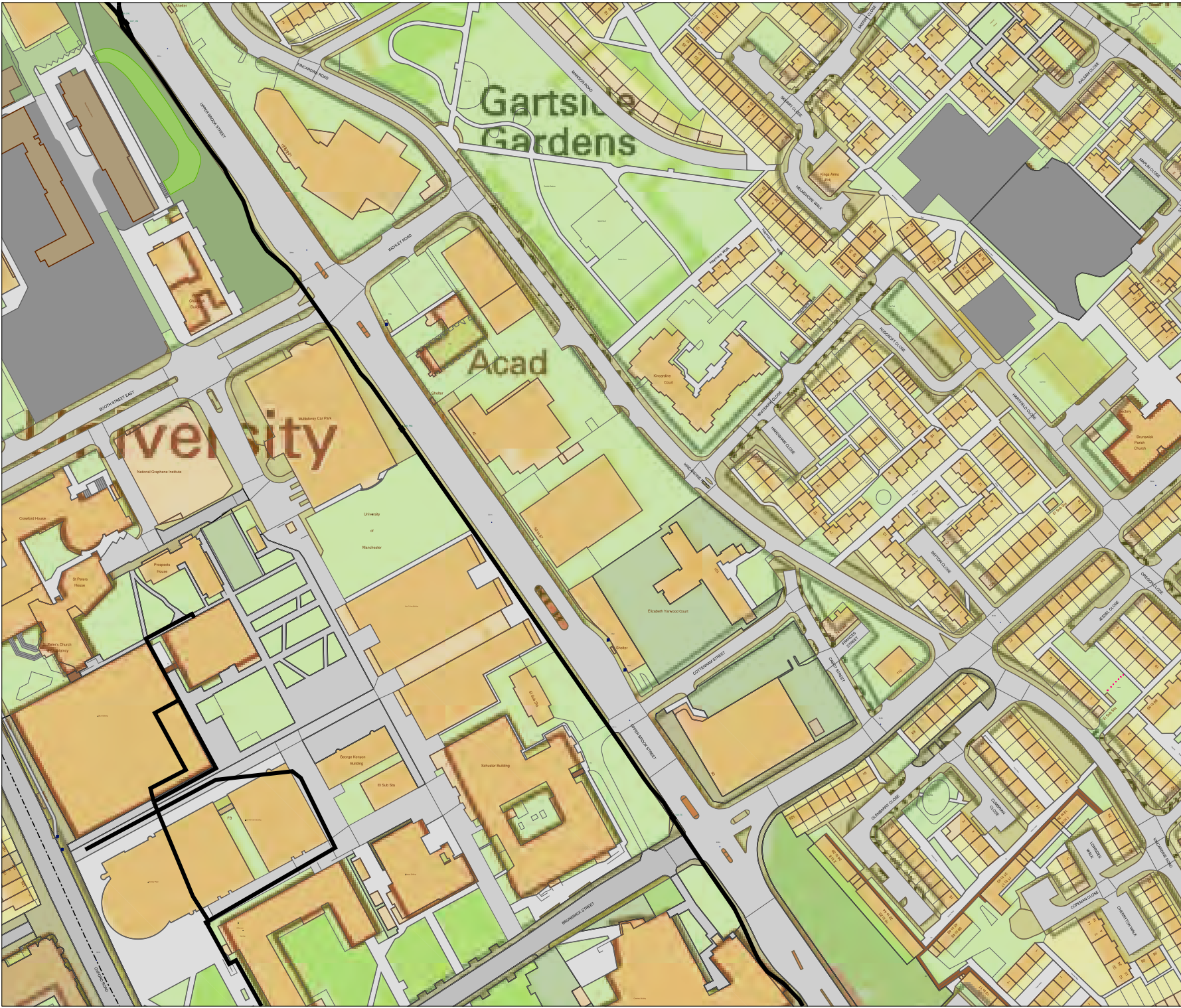


duncan@cornerstoneprojects.co.uk

2584







bitmap_layout select_raster

LEGEND

- EXISTING PLANT
- EXISTING PLANT

bitmap_layout select_raster

Head Office
CityFibre Holdings Ltd
15 Bedford Street,
London,
WC2E 9HE
Tel: 0845 293 0774
Web: www.cityfibre.com

Asset Office
CityFibre Holdings Ltd,
Rutherford House,
Birchwood,
Warrington,
WA3 6ZH
Email: asset.team@cityfibre.com

Disclaimer:
Information shown on this plan is for general guidance only.
No warranty is made as to its accuracy.
This plan must not be solely relied upon in the event of
excavation or other works being carried out in the vicinity
of Cityfibre plant.
No liability of any kind is accepted by Cityfibre, its agents or
servants for any error, omission, discrepancy or
deviation. This information is valid for the date printed.

Project
Plant Enquiry

Drawing
Existing Plant

Drawn by:
smallworld
Date: 08/11/2022

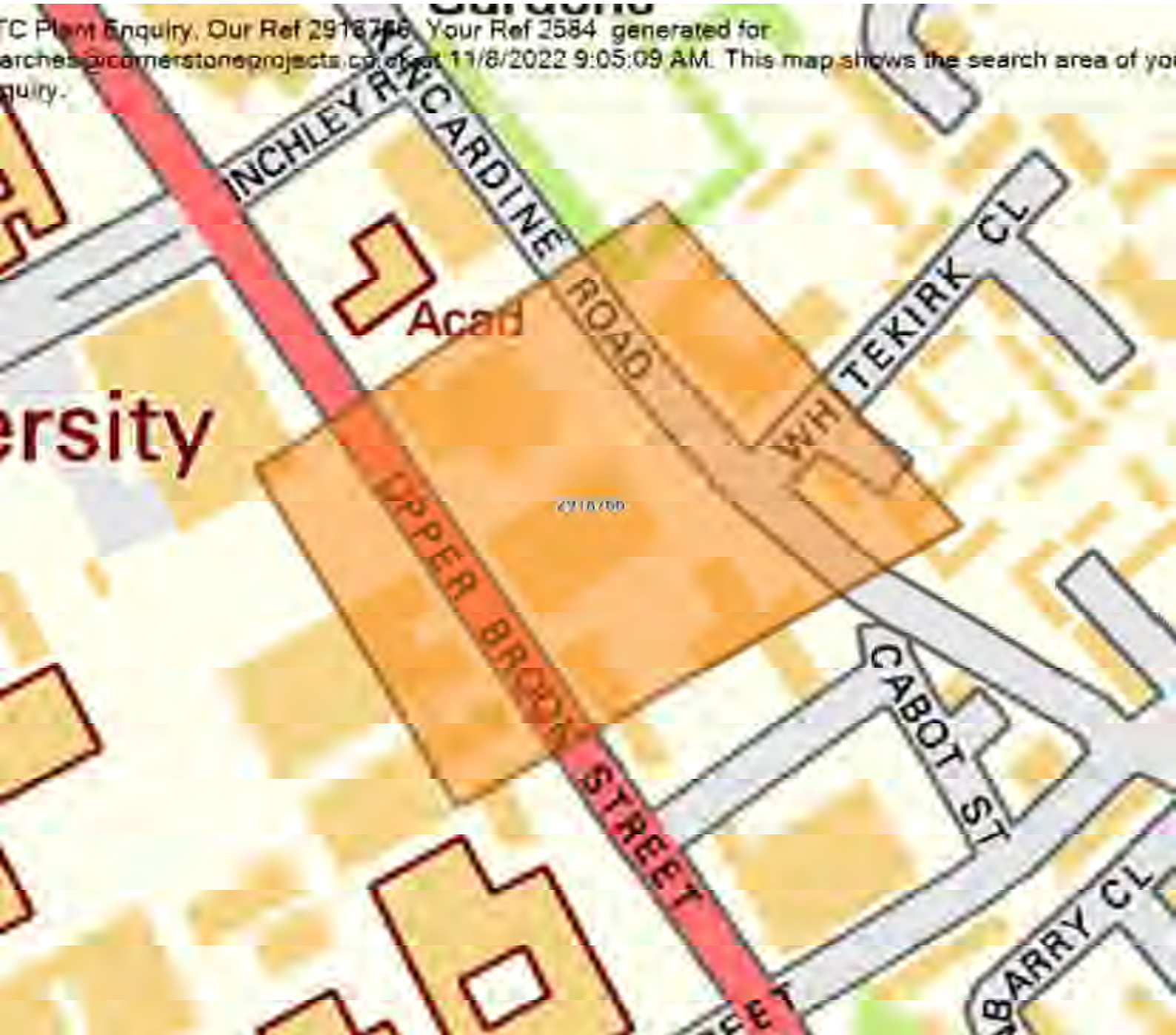
Drawing No.
CFH_EP_000001

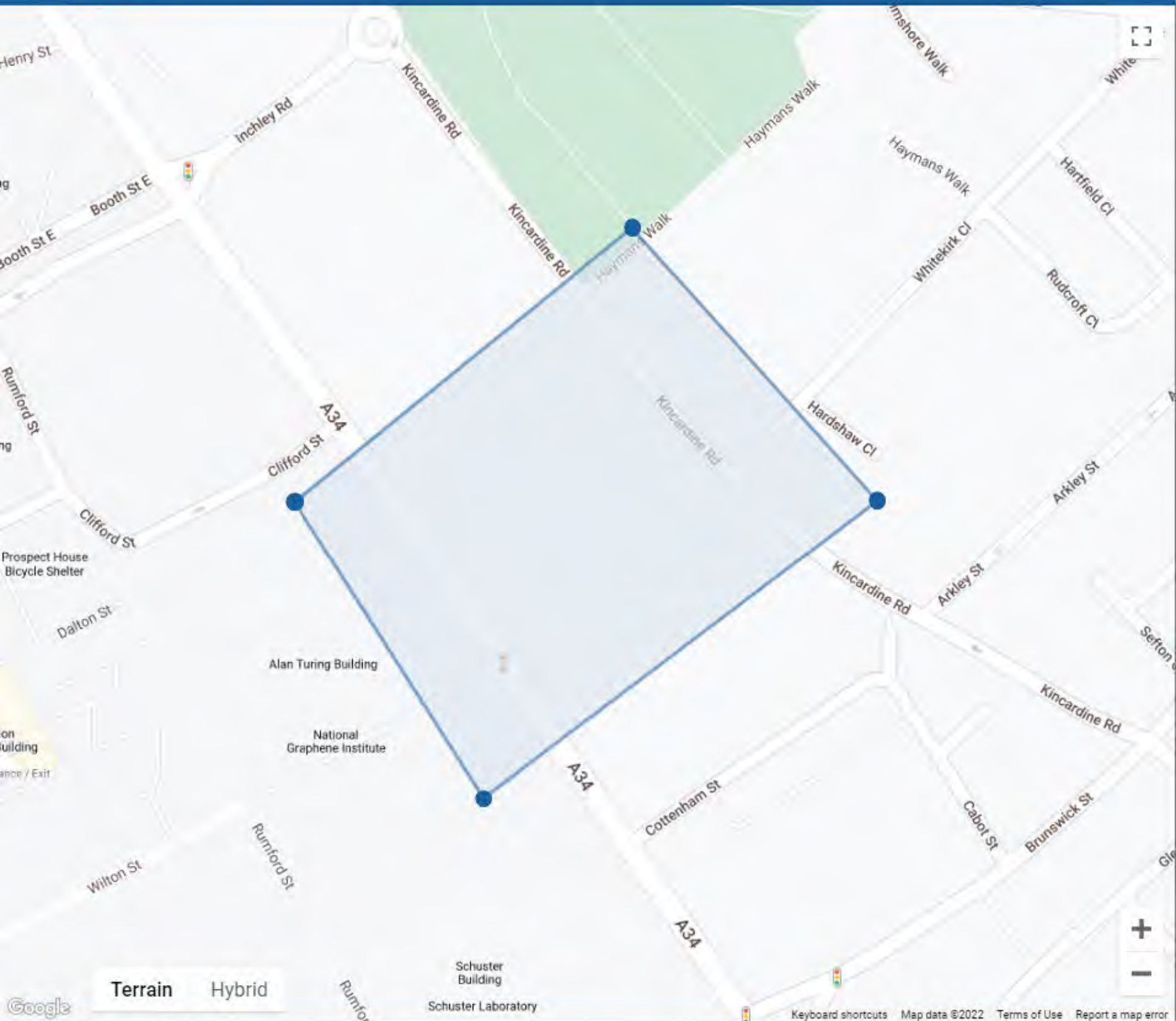
Revision
001



INDEPENDENT UTILITIES

FC Plan Enquiry. Our Ref 2918700. Your Ref 2584 generated for
arches@cornerstoneprojects.co.uk at 11/8/2022 9:05:09 AM. This map shows the search area of your
enquiry.







LAYER SURVEYS LTD
SEE THE COMPLETE PICTURE

DRAINAGE SURVEY

Job Number
LAYERSERV0001556Surveyed by (Operator)
Joe COLLINSBase Unit
DJVV56JNNHDate
13/12/2022

Client Details:

Civic Engineers
Carver's Warehouse,
77 Dale Street,
Manchester,
M1 2HGClient Contact Name: Tomasz Lukaszewicz
Client Contact Tel: 07535 913165

Site Details:

53-57 Upper Brook St,
Manchester,
M13 9JASite Contact Name: Nick Healy
Site Contact Tel: 07399 074532

Contractor Details:

Layer Surveys Ltd
Francis House
Meadowcroft Business Park
Pope Lane
Preston
Lancashire
PR4 4BA

Office Contact Number: 01772 611634

Purpose of Survey:

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
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Report Contents

Page 1	Cover Page
Page 2	Job Overview
Page 3	Contents Page
Page 8	Survey Run Sheet(Survey 1 - MH3 to MH2)
Page 10	Survey Run Sheet(Survey 2 - MH3 to B)
Page 12	Survey Run Sheet(Survey 3 - MH3 to C)
Page 14	Survey Run Sheet(Survey 4 - MH3 to MH4)
Page 16	Survey Run Sheet(Survey 5 - MH1 to A)
Page 18	Survey Run Sheet(Survey 6 - MH4 to B)
Page 20	Survey Run Sheet(Survey 7 - MH4 to C)
Page 22	Survey Run Sheet(Survey 8 - MH4 to D)
Page 24	Survey Run Sheet(Survey 9 - MH4 to MH5)
Page 26	Survey Run Sheet(Survey 10 - MH5 to MH6)
Page 28	Survey Run Sheet(Survey 11 - MH5 to B)
Page 31	Survey Run Sheet(Survey 12 - MH5 to C)
Page 33	Survey Run Sheet(Survey 13 - MH6 to B)
Page 35	Survey Run Sheet(Survey 14 - MH6 to C)

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
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Report Contents

Page 37	Survey Run Sheet(Survey 15 - MH6 to MH7)
Page 39	Survey Run Sheet(Survey 16 - MH7 to C)
Page 41	Survey Run Sheet(Survey 17 - MH7 to MH8)
Page 43	Survey Run Sheet(Survey 18 - MH7 to MH9)
Page 45	Survey Run Sheet(Survey 19 - MH7 to MH10)
Page 47	Survey Run Sheet(Survey 20 - MH7 to MH14)
Page 50	Survey Run Sheet(Survey 21 - MH8 to MH15)
Page 52	Survey Run Sheet(Survey 22 - MH8 to B)
Page 54	Survey Run Sheet(Survey 23 - MH8 to MH11)
Page 56	Survey Run Sheet(Survey 24 - MH9 to B)
Page 58	Survey Run Sheet(Survey 25 - MH9 to C)
Page 60	Survey Run Sheet(Survey 26 - MH9 to D)
Page 62	Survey Run Sheet(Survey 27 - MH9 to MH13)
Page 64	Survey Run Sheet(Survey 28 - MH13 to B)
Page 66	Survey Run Sheet(Survey 29 - MH13 to C)
Page 68	Survey Run Sheet(Survey 30 - MH13 to D)
Page 70	Survey Run Sheet(Survey 31 - MH13 to E)
Page 72	Survey Run Sheet(Survey 32 - MH13 to MH18)
Page 74	Survey Run Sheet(Survey 33 - MH18 to MH19)

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
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Report Contents

Page 76	Survey Run Sheet(Survey 34 - MH13 to F)
Page 78	Survey Run Sheet(Survey 35 - MH13 to G)
Page 80	Survey Run Sheet(Survey 36 - MH13 to H)
Page 82	Survey Run Sheet(Survey 37 - MH11 to B)
Page 84	Survey Run Sheet(Survey 38 - MH11 to C)
Page 86	Survey Run Sheet(Survey 39 - MH11 to A)
Page 88	Survey Run Sheet(Survey 40 - MH11 to D)
Page 90	Survey Run Sheet(Survey 41 - MH12 to MH9)
Page 92	Survey Run Sheet(Survey 42 - MH12 to B)
Page 94	Survey Run Sheet(Survey 43 - MH12 to A)
Page 96	Survey Run Sheet(Survey 44 - MH22 to MH10)
Page 98	Survey Run Sheet(Survey 45 - MH22 to B)
Page 100	Survey Run Sheet(Survey 46 - MH22 to MH21)
Page 102	Survey Run Sheet(Survey 47 - MH21 to B)
Page 104	Survey Run Sheet(Survey 48 - MH21 to C)
Page 106	Survey Run Sheet(Survey 49 - MH21 to A)
Page 108	Survey Run Sheet(Survey 50 - MH21 to D)
Page 110	Survey Run Sheet(Survey 51 - MH20 to A)
Page 112	Survey Run Sheet(Survey 52 - MH20 to B)

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
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Report Contents

Page 114	Survey Run Sheet(Survey 53 - MH20 to MH18)
Page 116	Survey Run Sheet(Survey 54 - MH18 to B)
Page 118	Survey Run Sheet(Survey 55 - MH18 to C)
Page 120	Survey Run Sheet(Survey 56 - MH18 to D)
Page 122	Survey Run Sheet(Survey 57 - MH19 to A)
Page 124	Survey Run Sheet(Survey 58 - MH17 to A)
Page 127	Survey Run Sheet(Survey 59 - MH17 to C)
Page 129	Survey Run Sheet(Survey 60 - MH17 to D)
Page 131	Survey Run Sheet(Survey 61 - MH17 to E)
Page 133	Survey Run Sheet(Survey 62 - MH17 to MH16)
Page 135	Survey Run Sheet(Survey 63 - MH16 to MH15)
Page 137	Survey Run Sheet(Survey 64 - MH16 to B)
Page 139	Survey Run Sheet(Survey 65 - MH16 to C)
Page 141	Survey Run Sheet(Survey 66 - MH16 to D)
Page 143	Survey Run Sheet(Survey 67 - MH15 to B)
Page 145	Survey Run Sheet(Survey 68 - MH25 to MH26)
Page 148	Survey Run Sheet(Survey 69 - MH25 to MH25A)
Page 150	Survey Run Sheet(Survey 70 - MH29 to MH28)

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
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Report Contents

Page 154 Final Page

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) MH2 X	Date 13/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 4/1	Base Unit DJVV56JNNH	Section Number 1

Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA	Division District Location Details
--	--

Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category	Start Node MH3 End Node MH2 Total length 9.14 metres
--	---	---

Scale 1:0.48 Direction Upstream
--

Start Node Ref:MH3 I/L : metres Depth: 1.36 metres					Photo	Type/Grade
Position	Code	Description				
0.00	MH	Start node type, manhole, reference MH3			7249845	Comment / 0
0.00	WL	Water level 5% height/diameter			7249847	Comment / 0
0.36	JD	Joint displaced 5mm			7249848	Structural / 1
						
9.07	DEX	Other settled deposits 75% cross-sectional area loss - Remark: FOUL WASTE			7249849	Service / 4
9.14	MHF	Finish node type, manhole, reference MH2			7249851	Comment / 0
End Node Ref:MH2 I/L : metres						

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
 0.02 M Start node type, manhole, reference MH3			
 0.02 M Water level 5% height/diameter			
From: MH3 / To: MH2 Size: 100mm  0.36 M Joint displaced 5mm			
From: MH3 / To: MH2 Size: 100mm  9.07 M Other settled deposits 75% cross-sectional area loss - Remark: FOUL WASTE			
From: MH3 / To: MH2 Size: 100mm  9.17 M Finish node type, manhole, reference MH2			



Layer Surveys Ltd
Francis House
Meadowcroft Business Park
Pope Lane
Preston
Lancashire
PR4 4BA

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) B X	Date 13/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 2

Road **53-57 Upper Brook St,**
Place **Manchester,**
Location **M13 9JA**

Division
District
Location Details

Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category	Start Node MH3 End Node B Total length 0.57 metres
--	---	---

Scale **1:0.03**
Direction **Upstream**

Start Node Ref:MH3 I/L : metres Depth: 1.36 metres
--

The diagram illustrates a vertical pipe section. At the top, a brown circular node is labeled '0.00 MH' (Manhole) and '0.00 WL' (Water Level). A blue arrow points upwards from the bottom of the pipe towards this node. At the bottom, another brown circular node is labeled '0.57 OCF' (Other Special Chamber). The pipe itself is a thick brown vertical line. To the right of the diagram is a table with the following data:

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH3	7249853	Comment / 0
0.00	WL	Water level 5% height/diameter	7249854	Comment / 0
0.57	OCF	Finish node type, other special chamber, reference B	7249855	Comment / 0

End Node Ref:B | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
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Start node type, manhole, reference MH3



Water level 5% height/diameter

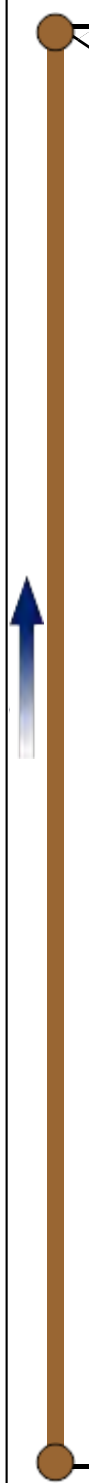


Finish node type, other special chamber, reference B

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) C X	Date 13/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 3
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH3 End Node C Total length 0.48 metres	

 Scale **1:0.03**
 Direction **Upstream**

Start Node Ref:MH3 | I/L : metres | Depth: 1.36 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH3	7249866	Comment / 0
0.00	WL	Water level 5% height/diameter	7249867	Comment / 0
				
0.48	OCF	Finish node type, other special chamber, reference C	7249868	Comment / 0

End Node Ref:C | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
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Start node type, manhole, reference MH3



Water level 5% height/diameter



Finish node type, other special chamber, reference C



Layer Surveys Ltd
Francis House
Meadowcroft Business Park
Pope Lane
Preston
Lancashire
PR4 4BA

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) MH3 X	Date 13/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 4

Road **53-57 Upper Brook St,**
Place **Manchester,**
Location **M13 9JA**

Division
District
Location Details

Purpose Duty Combined Catchment	Shape/Size 150mm Material Vitrified clay Category	Start Node MH3 End Node MH4 Total length 12.12 metres
--	---	--

Scale **1:0.64**
Direction **Downstream**

Start Node Ref:MH3 I/L : metres Depth: 1.36 metres
--

The diagram illustrates a vertical pipe section. At the top, a brown circular node is labeled '0.00 MH' (Manhole) and '0.00 WL' (Water Level). The description for this node is 'Start node type, manhole, reference MH3' and 'Water level 5% height/diameter'. To the right of this node, there are two entries: '7249869 Comment / 0' and '7249870 Comment / 0'. A large blue arrow points downwards along the pipe, indicating the flow direction. At the bottom, another brown circular node is labeled '12.12 MHF' (Manhole Finish). The description for this node is 'Finish node type, manhole, reference MH4'. To the right of this node, there is one entry: '7249883 Comment / 0'. The pipe itself is a thick brown vertical line. At the bottom left, there is a text label 'End Node Ref:MH4 | I/L : metres'.

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH3	7249869	Comment / 0
0.00	WL	Water level 5% height/diameter	7249870	Comment / 0
12.12	MHF	Finish node type, manhole, reference MH4	7249883	Comment / 0

End Node Ref:MH4 | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
---------------------------------------	--	--------------------------------	---------------------------



Start node type, manhole, reference MH3



Water level 5% height/diameter

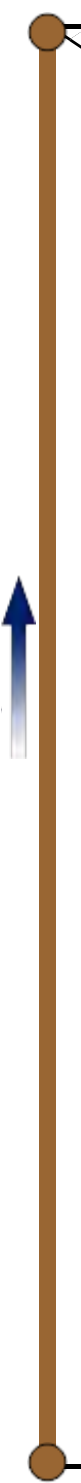


Finish node type, manhole, reference MH4

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) A X	Date 13/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 5
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH1 End Node A Total length 7.07 metres	

 Scale **1:0.37**
 Direction **Upstream**

Start Node Ref:MH1 | I/L : metres | Depth: 1.03 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH1	7250138	Comment / 0
0.00	WL	Water level 5% height/diameter	7250160	Comment / 0
				
7.07	OCF	Finish node type, other special chamber, reference A	7250161	Comment / 0

End Node Ref:A | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
---------------------------------------	--	--------------------------------	---------------------------



Start node type, manhole, reference MH1



Water level 5% height/diameter



Finish node type, other special chamber, reference A

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) B X	Date 13/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 6

Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA	Division District Location Details
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Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category	Start Node MH4 End Node B Total length 2.38 metres
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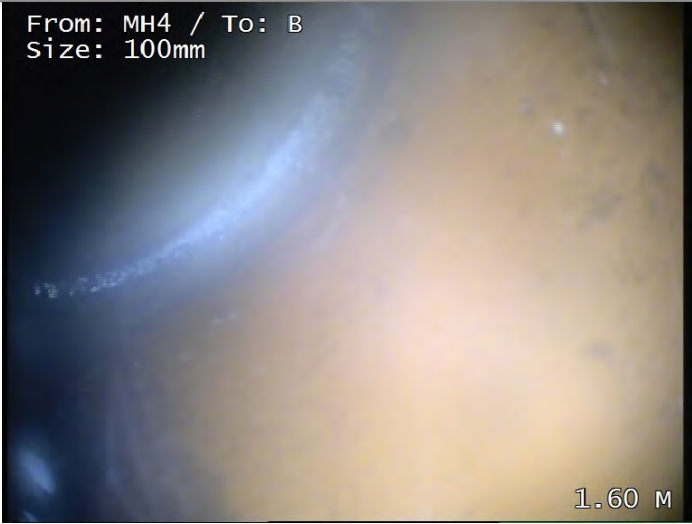
 Scale **1:0.12**
 Direction **Upstream**

Start Node Ref:MH4 | I/L : metres | Depth: 1.63 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH4	7250279	Comment / 0
0.00	WL	Water level 5% height/diameter	7250280	Comment / 0
1.17	LL	Line of drain/sewer deviates left	7250281	Comment / 0
2.38	OCF	Finish node type, other special chamber, reference B	7250296	Comment / 0

End Node Ref:B | I/L : metres

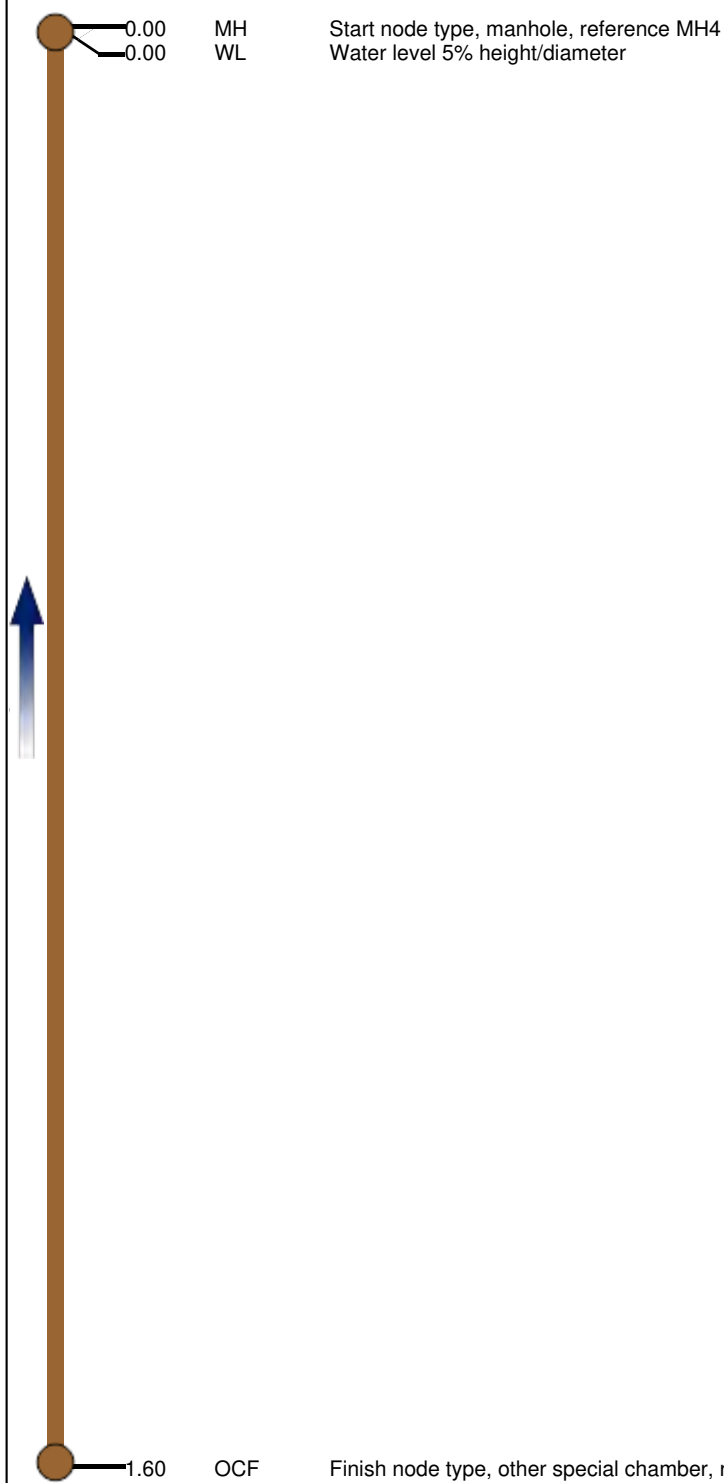


Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
 0.00 M Start node type, manhole, reference MH4			
 0.00 M Water level 5% height/diameter			
 From: MH4 / To: B Size: 100mm 1.60 M Line of drain/sewer deviates left			
 From: MH4 / To: B Size: 100mm 2.38 M Finish node type, other special chamber, reference B			

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) C X	Date 13/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 7
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH4 End Node C Total length 1.6 metres	

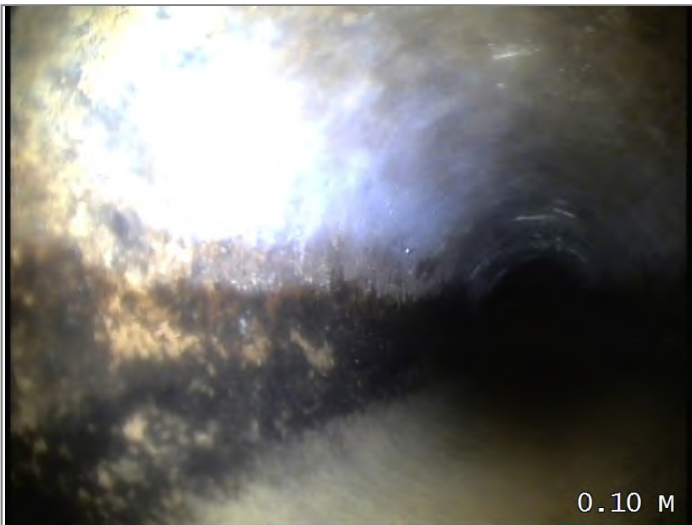
 Scale **1:0.08**
 Direction **Upstream**

Start Node Ref:MH4 | I/L : metres | Depth: 1.63 metres

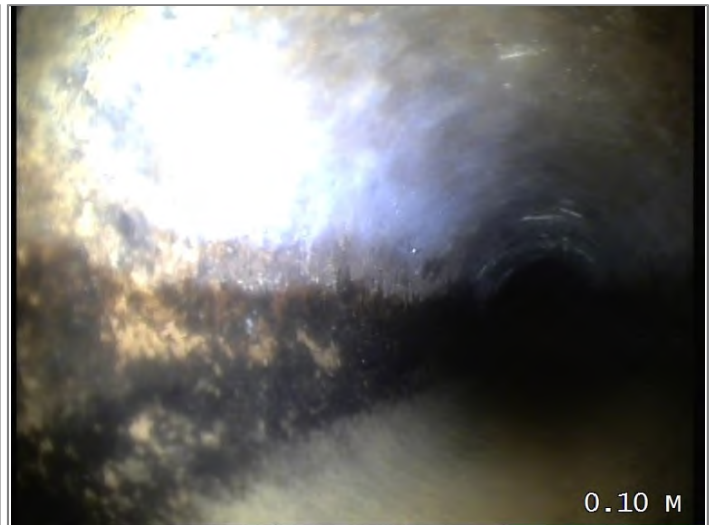
Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH4	7250303	Comment / 0
0.00	WL	Water level 5% height/diameter	7250304	Comment / 0
				
1.60	OCF	Finish node type, other special chamber, reference C	7250305	Comment / 0

End Node Ref:C | I/L : metres

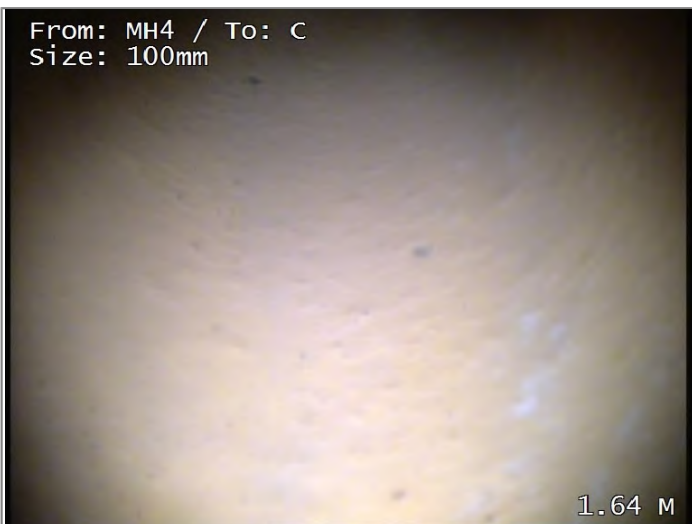
Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
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Start node type, manhole, reference MH4



Water level 5% height/diameter

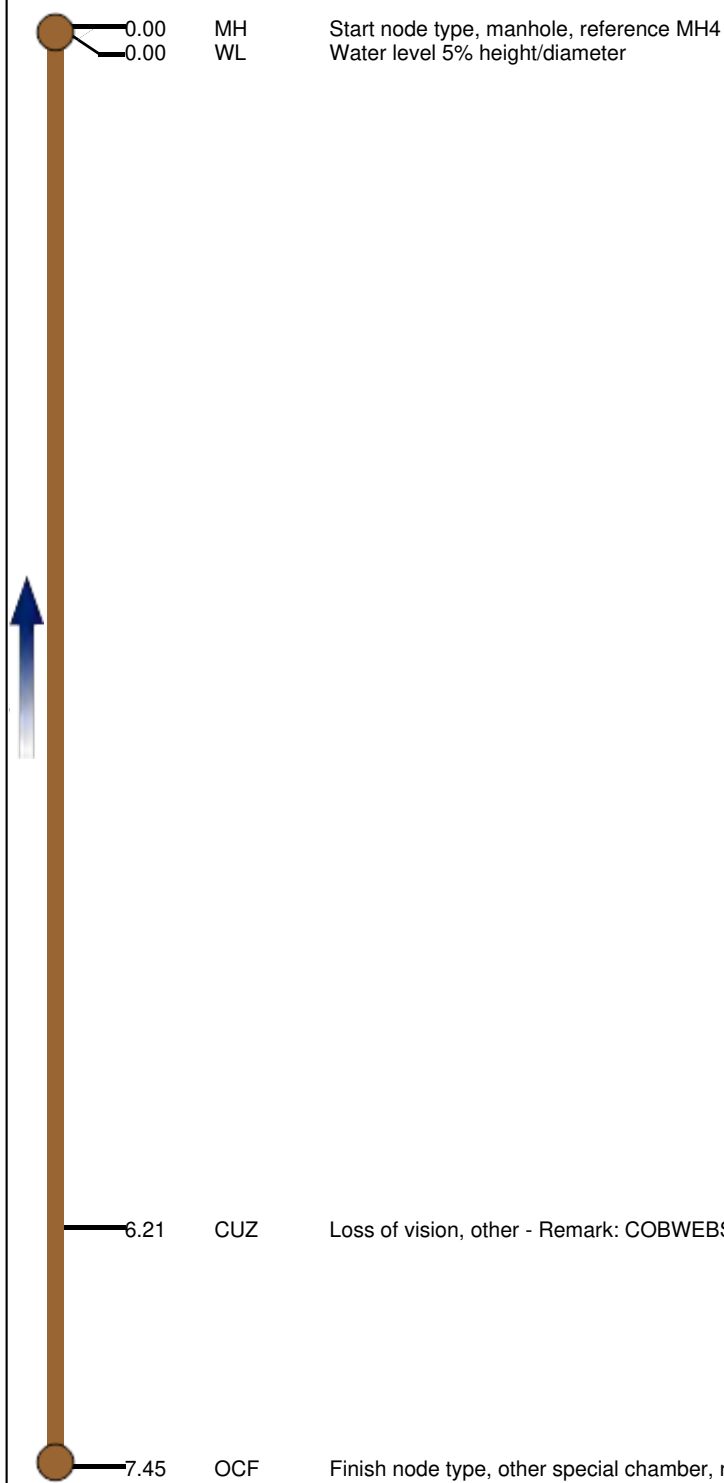


Finish node type, other special chamber, reference C

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) D X	Date 13/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 8
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH4 End Node D Total length 7.45 metres	

 Scale **1:0.39**
 Direction **Upstream**

Start Node Ref:MH4 | I/L : metres | Depth: 1.63 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH4	7250319	Comment / 0
0.00	WL	Water level 5% height/diameter	7250320	Comment / 0
				
6.21	CUZ	Loss of vision, other - Remark: COBWEBS	7250330	Comment / 0
7.45	OCF	Finish node type, other special chamber, reference D	7250334	Comment / 0

End Node Ref:D | I/L : metres



Job Number
LAYERSERV0001556

Surveyed by (Operator)
Joe COLLINS

Base Unit
DJVV56JNNH

Date
13/12/2022



Start node type, manhole, reference MH4



Water level 5% height/diameter



Loss of vision, other - Remark: COBWEBS

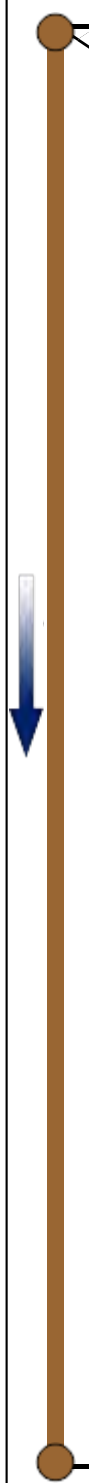


Finish node type, other special chamber, reference D

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) MH4 X	Date 13/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 9
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 150mm Material Vitrified clay Category		Start Node MH4 End Node MH5 Total length 12.64 metres	

 Scale **1:0.66**
 Direction **Downstream**

Start Node Ref:MH4 | I/L : metres | Depth: 1.63 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH4	7250337	Comment / 0
0.00	WL	Water level 5% height/diameter	7250338	Comment / 0
				
12.64	MHF	Finish node type, manhole, reference MH5	7250345	Comment / 0

End Node Ref:MH5 | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
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Start node type, manhole, reference MH4



Water level 5% height/diameter



Finish node type, manhole, reference MH5

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) MH5 X	Date 13/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 10
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 150mm Material Vitrified clay Category		Start Node MH5 End Node MH6 Total length 12.19 metres	
Scale 1:0.64 Direction Downstream				

Start Node Ref:MH5 I/L : metres					Photo	Type/Grade	
Position	Code	Description					
	0.00	MH	Start node type, manhole, reference MH5			7250358	Comment / 0
	0.00	WL	Water level 5% height/diameter			7250359	Comment / 0
							
	10.07	CUW (S01)	Loss of vision, camera under water, Start			7250360	Comment / 0
	12.19	CUW (F01)	Loss of vision, camera under water, Finished			7250361	Comment / 0
	12.19	MHF	Finish node type, manhole, reference MH6			7250363	Comment / 0
End Node Ref:MH6 I/L : metres							



Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
 0.00 M Start node type, manhole, reference MH5		 0.00 M Water level 5% height/diameter	
From: MH5 / To: MH6 Size: 150mm  10.07 M Loss of vision, camera under water, Start		From: MH5 / To: MH6 Size: 150mm  12.19 M Loss of vision, camera under water, Finished	
From: MH5 / To: MH6 Size: 150mm  12.19 M Finish node type, manhole, reference MH6			

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) B X	Date 13/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 5/0	Base Unit DJVV56JNNH	Section Number 11
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH5 End Node B Total length 16.9 metres	

 Scale **1:0.89**
 Direction **Upstream**

Start Node Ref:MH5 | I/L : metres | Depth: 2 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH5	7250446	Comment / 0
0.00	WL	Water level 5% height/diameter	7250447	Comment / 0
0.00	JN	Junction at 6 o'clock, diameter 100mm - Remark: DROPPER	7250449	Comment / 0
0.40	RM	Roots mass 25% cross-sectional area loss	7250451	Service / 5
13.98	JN	Junction at 12 o'clock, diameter 100mm	7250464	Comment / 0
14.76	JN	Junction at 9 o'clock, diameter 100mm	7250465	Comment / 0
16.90	OCF	Finish node type, other special chamber, reference B	7250469	Comment / 0

End Node Ref:B | I/L : metres



Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
			
Start node type, manhole, reference MH5			
			
Water level 5% height/diameter			
			
Junction at 6 o'clock, diameter 100mm - Remark: DROPPER			
			
Roots mass 25% cross-sectional area loss			
			
Junction at 12 o'clock, diameter 100mm			
			
Junction at 9 o'clock, diameter 100mm			



Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
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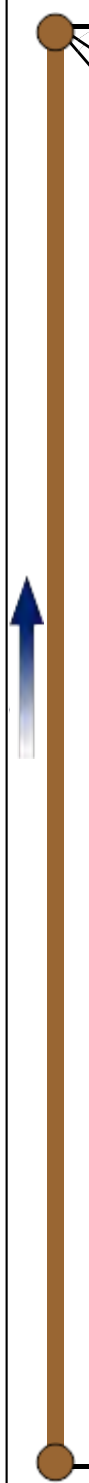


Finish node type, other special chamber, reference B

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) C X	Date 13/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 12
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH5 End Node C Total length 11.17 metres	

 Scale **1:0.59**
 Direction **Upstream**

Start Node Ref:MH5 | I/L : metres | Depth: 2 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH5	7250482	Comment / 0
0.00	WL	Water level 5% height/diameter	7250483	Comment / 0
0.00	JN	Junction at 6 o'clock, diameter 100mm - Remark: DROPPER	7250487	Comment / 0
				
11.17	OCF	Finish node type, other special chamber, reference C	7250496	Comment / 0

End Node Ref:C | I/L : metres

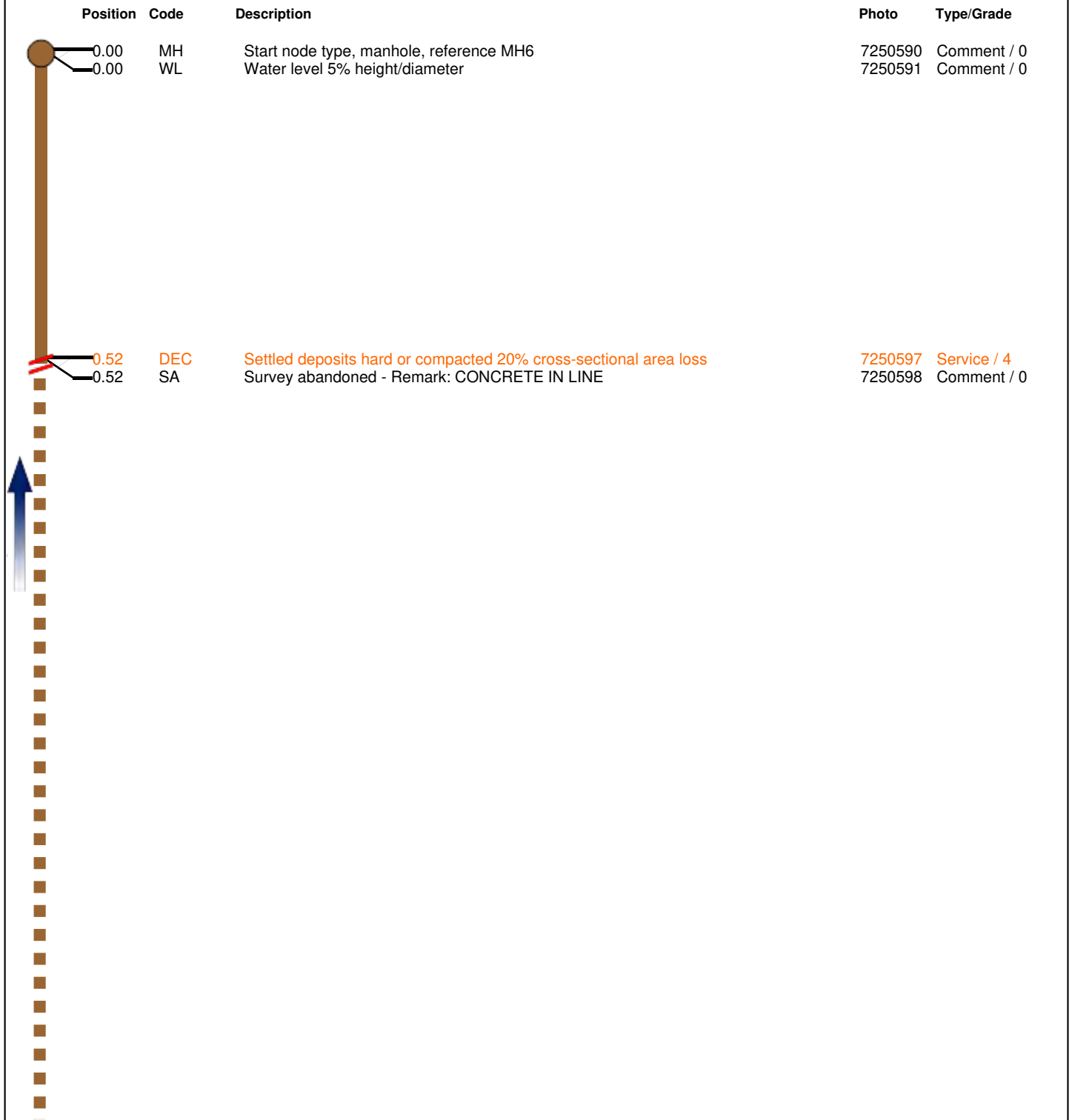
Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
 0.00 M Start node type, manhole, reference MH5			
 0.00 M Water level 5% height/diameter			
 From: MH5 / To: C Size: 150mm 0.00 M Junction at 6 o'clock, diameter 100mm - Remark: DROPPER			
 From: MH5 / To: C Size: 150mm 11.19 M Finish node type, other special chamber, reference C			

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) B X	Date 13/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 4/0	Base Unit DJVV56JNNH	Section Number 13
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH6 End Node B Total length 1.8 metres	

 Scale **1:0.09**
 Direction **Upstream**

Start Node Ref:MH6 | I/L : metres | Depth: 1.85 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH6	7250590	Comment / 0
0.00	WL	Water level 5% height/diameter	7250591	Comment / 0
0.52	DEC	Settled deposits hard or compacted 20% cross-sectional area loss	7250597	Service / 4
0.52	SA	Survey abandoned - Remark: CONCRETE IN LINE	7250598	Comment / 0



End Node Ref:B | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
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Start node type, manhole, reference MH6



Water level 5% height/diameter



Settled deposits hard or compacted 20% cross-sectional area loss

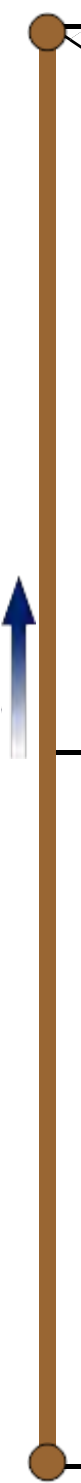


Survey abandoned - Remark: CONCRETE IN LINE

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) C X	Date 13/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 14
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH6 End Node C Total length 1.19 metres	

 Scale **1:0.06**
 Direction **Upstream**

Start Node Ref:MH6 | I/L : metres | Depth: 1.85 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH6	7250608	Comment / 0
0.00	WL	Water level 5% height/diameter	7250609	Comment / 0
				
0.60	LR	Line of drain/sewer deviates right	7250610	Comment / 0
1.19	OCF	Finish node type, other special chamber, reference C	7250619	Comment / 0

End Node Ref:C | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
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Start node type, manhole, reference MH6



Water level 5% height/diameter



Line of drain/sewer deviates right



Finish node type, other special chamber, reference C

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) MH6 X	Date 13/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 15

Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA	Division District Location Details
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Purpose Duty Combined Catchment	Shape/Size 150mm Material Vitrified clay Category	Start Node MH6 End Node MH7 Total length 19.48 metres
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Scale 1:1.02 Direction Downstream
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Start Node Ref:MH6 I/L : metres Depth: 1.85 metres				Photo	Type/Grade
Position	Code	Description			
0.00	MH	Start node type, manhole, reference MH6		7250641	Comment / 0
0.00	WL	Water level 5% height/diameter		7250642	Comment / 0
					
19.48	MHF	Finish node type, manhole, reference MH7		7250648	Comment / 0
End Node Ref:MH7 I/L : metres					

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
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Start node type, manhole, reference MH6



Water level 5% height/diameter

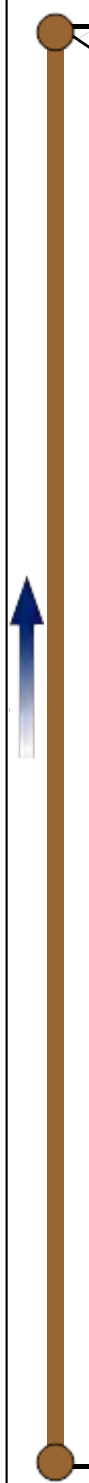


Finish node type, manhole, reference MH7

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) C X	Date 13/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 16
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH7 End Node C Total length 1.31 metres	

 Scale **1:0.07**
 Direction **Upstream**

Start Node Ref:MH7 | I/L : metres | Depth: 1.85 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH7	7250952	Comment / 0
0.00	WL	Water level 5% height/diameter	7250953	Comment / 0
				
1.31	OCF	Finish node type, other special chamber, reference C	7250955	Comment / 0

End Node Ref:C | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
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Start node type, manhole, reference MH7



Water level 5% height/diameter

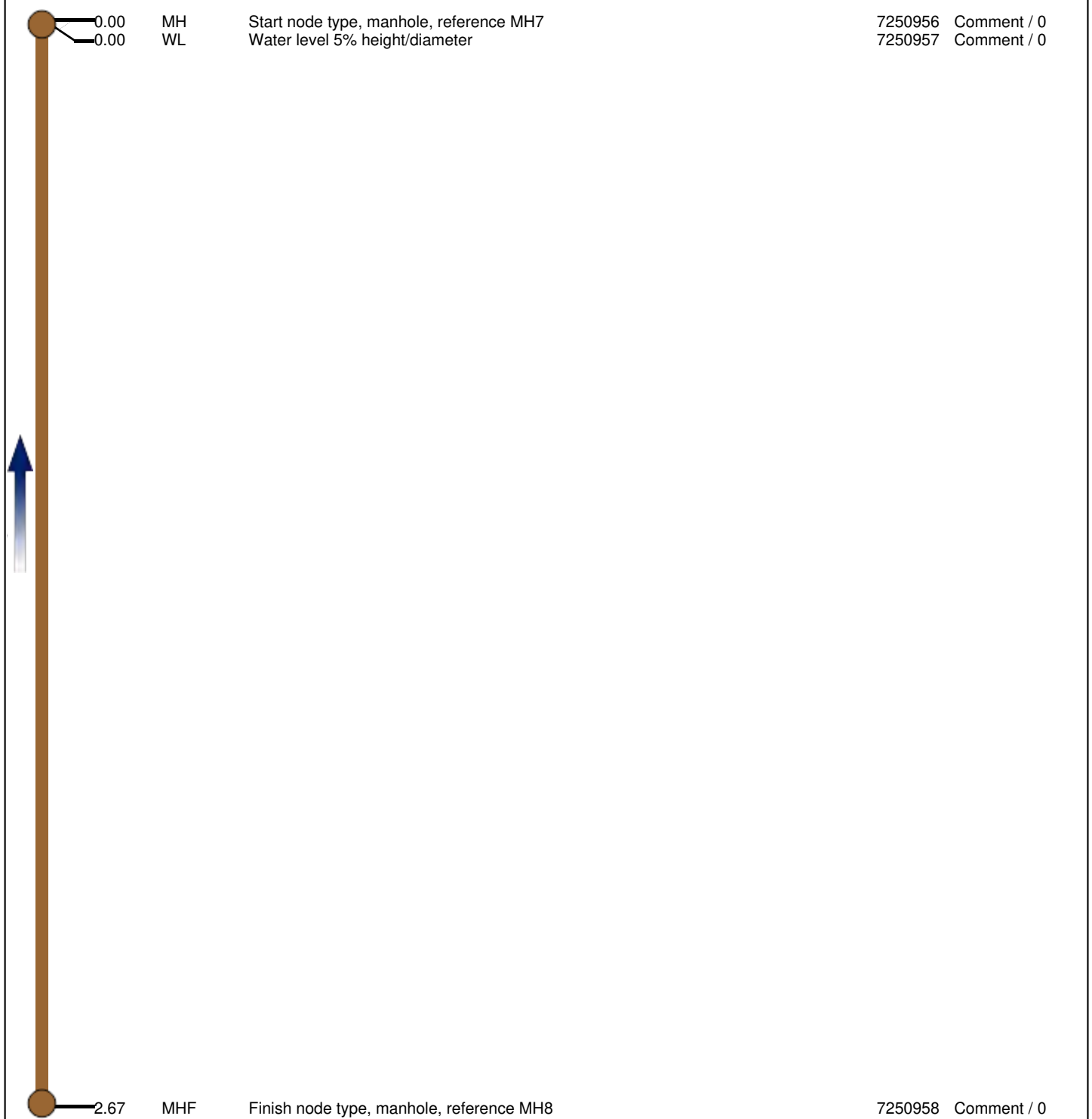


Finish node type, other special chamber, reference C

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) MH8 X	Date 13/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 17
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 150mm Material Vitrified clay Category		Start Node MH7 End Node MH8 Total length 2.67 metres	

 Scale **1:0.14**
 Direction **Upstream**

Start Node Ref:MH7 | I/L : metres | Depth: 1.85 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH7	7250956	Comment / 0
0.00	WL	Water level 5% height/diameter	7250957	Comment / 0
				
2.67	MHF	Finish node type, manhole, reference MH8	7250958	Comment / 0

End Node Ref:MH8 | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
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Start node type, manhole, reference MH7



Water level 5% height/diameter



Finish node type, manhole, reference MH8

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) MH9 X	Date 13/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 18
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH7 End Node MH9 Total length 12.62 metres	

 Scale **1:0.66**
 Direction **Upstream**

Start Node Ref:MH7 | I/L : metres | Depth: 1.85 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH7	7251017	Comment / 0
0.00	WL	Water level 5% height/diameter	7251018	Comment / 0
2.69	SC	Dimensions of drain/sewer changes to 150mm	7251019	Comment / 0
12.62	MHF	Finish node type, manhole, reference MH9	7251021	Comment / 0

End Node Ref:MH9 | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
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Start node type, manhole, reference MH7



Water level 5% height/diameter



Dimensions of drain/sewer changes to 150mm

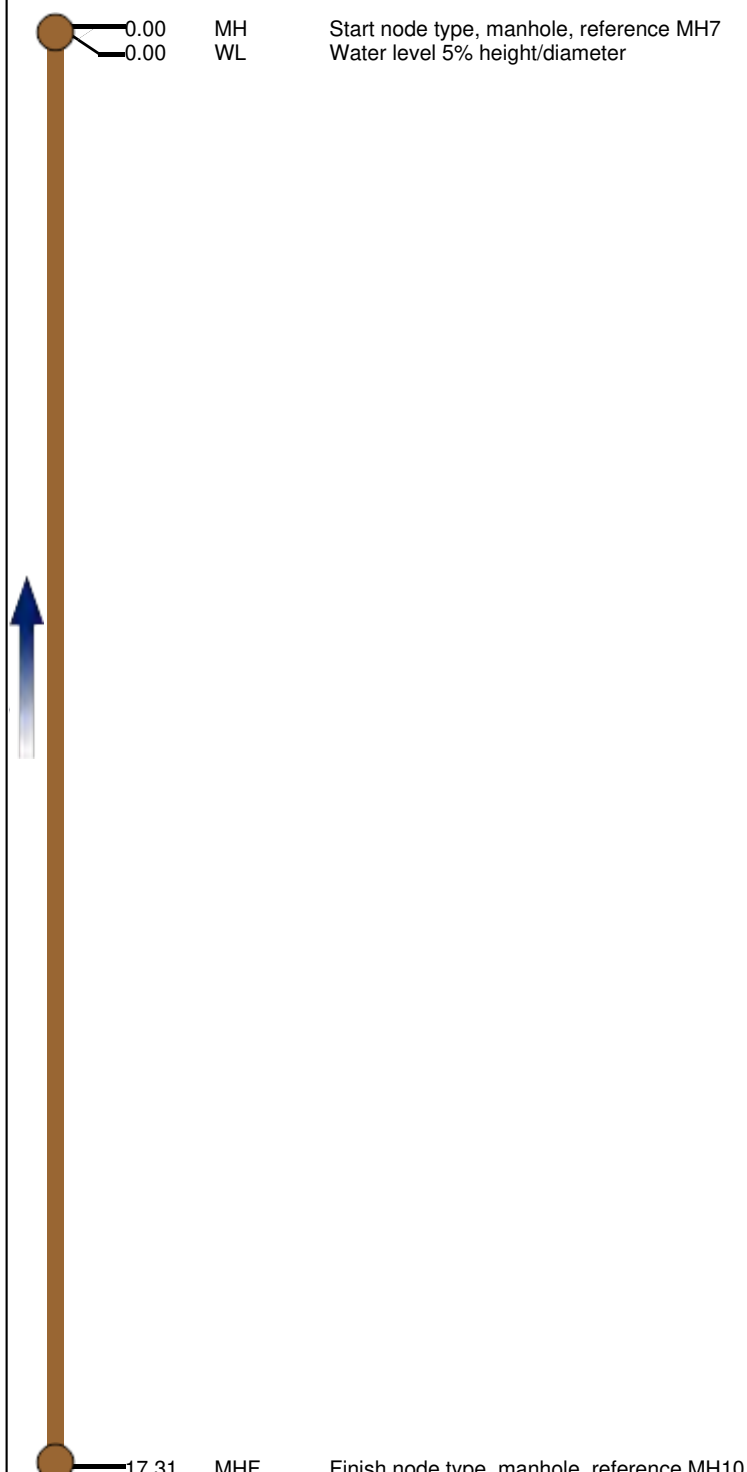


Finish node type, manhole, reference MH9

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) MH10 X	Date 13/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 19
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 150mm Material Vitrified clay Category		Start Node MH7 End Node MH10 Total length 17.31 metres	

 Scale **1:0.91**
 Direction **Upstream**

Start Node Ref:MH7 | I/L : metres | Depth: 1.85 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH7	7251052	Comment / 0
0.00	WL	Water level 5% height/diameter	7251060	Comment / 0
				
17.31	MHF	Finish node type, manhole, reference MH10	7251061	Comment / 0

End Node Ref:MH10 | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
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Start node type, manhole, reference MH7



Water level 5% height/diameter



Finish node type, manhole, reference MH10

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) MH7 X	Date 13/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 3/0	Base Unit DJVV56JNNH	Section Number 20

Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA	Division District Location Details
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Purpose Duty Combined Catchment	Shape/Size 225mm Material Vitrified clay Category	Start Node MH7 End Node MH14 Total length 5.57 metres
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Scale 1:0.29 Direction Downstream
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Start Node Ref:MH7 I/L : metres Depth: 1.85 metres				Photo	Type/Grade
Position	Code	Description			
0.00	MH	Start node type, manhole, reference MH7		7251114	Comment / 0
0.00	WL	Water level 5% height/diameter		7251115	Comment / 0
0.83	DEC	Settled deposits hard or compacted 10% cross-sectional area loss		7251117	Service / 3
1.98	JN	Junction at 12 o'clock, diameter 225mm		7251124	Comment / 0
3.69	LD (S01)	Line of drain/sewer deviates down, Start		7251125	Comment / 0
5.57	LD (C01)	Line of drain/sewer deviates down, Changed		7251126	Comment / 0
5.57	LD (F01)	Line of drain/sewer deviates down, Finished		7251128	Comment / 0
5.57	MHF	Finish node type, manhole, reference MH14		7251129	Comment / 0
End Node Ref:MH14 I/L : metres					

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
 0.00 M Start node type, manhole, reference MH7			
 0.00 M Water level 5% height/diameter			
From: MH7 / To: MH14 Size: 225mm  0.83 M Settled deposits hard or compacted 10% cross-sectional area loss			
From: MH7 / To: MH14 Size: 225mm  2.00 M Junction at 12 o'clock, diameter 225mm			
From: MH7 / To: MH14 Size: 225mm  3.67 M Line of drain/sewer deviates down, Start			
From: MH7 / To: MH14 Size: 225mm  5.57 M Line of drain/sewer deviates down, Changed			

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
From: MH7 // To: MH14 Size: 225mm  5.57 M Line of drain/sewer deviates down, Finished		From: MH7 // To: MH14 Size: 225mm  5.57 M Finish node type, manhole, reference MH14	

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) MH15 X	Date 13/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 21
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 150mm Material Vitrified clay Category		Start Node MH8 End Node MH15 Total length 16.9 metres	

 Scale **1:0.89**
 Direction **Upstream**

Start Node Ref:MH8 | I/L : metres | Depth: 1.62 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH8	7251192	Comment / 0
0.00	WL	Water level 5% height/diameter	7251193	Comment / 0
4.79	LR	Line of drain/sewer deviates right	7251194	Comment / 0
9.74	JN	Junction at 10 o'clock, diameter 100mm	7251199	Comment / 0
16.90	MHF	Finish node type, manhole, reference MH15	7251207	Comment / 0

End Node Ref:MH15 | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
 0.00 M Start node type, manhole, reference MH8			
 0.00 M Water level 5% height/diameter			
From: MH8 / To: MH15 Size: 150mm  4.88 M Line of drain/sewer deviates right			
From: MH8 / To: MH15 Size: 150mm  9.74 M Junction at 10 o'clock, diameter 100mm			
From: MH8 / To: MH15 Size: 150mm  16.90 M Finish node type, manhole, reference MH15			

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) B X	Date 13/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 22

Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA	Division District Location Details
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Purpose Duty Surface water Catchment	Shape/Size 100mm Material Vitrified clay Category	Start Node MH8 End Node B Total length 4.05 metres
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Scale 1:0.21 Direction Upstream
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Start Node Ref:MH8 | I/L : metres | Depth: 1.62 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH8	7251238	Comment / 0
0.00	WL	Water level 5% height/diameter	7251240	Comment / 0
0.00	JN	Junction at 6 o'clock, diameter 100mm	7251241	Comment / 0
2.71	JN	Junction at 10 o'clock, diameter 100mm	7251242	Comment / 0
3.12	JN	Junction at 3 o'clock, diameter 100mm	7251243	Comment / 0
4.05	OCF	Finish node type, other special chamber, reference B	7251248	Comment / 0

End Node Ref:B | I/L : metres



Job Number
LAYERSERV0001556

Surveyed by (Operator)
Joe COLLINS

Base Unit
DJVV56JNNH

Date
13/12/2022



Start node type, manhole, reference MH8



Water level 5% height/diameter



Junction at 6 o'clock, diameter 100mm



Junction at 10 o'clock, diameter 100mm



Junction at 3 o'clock, diameter 100mm

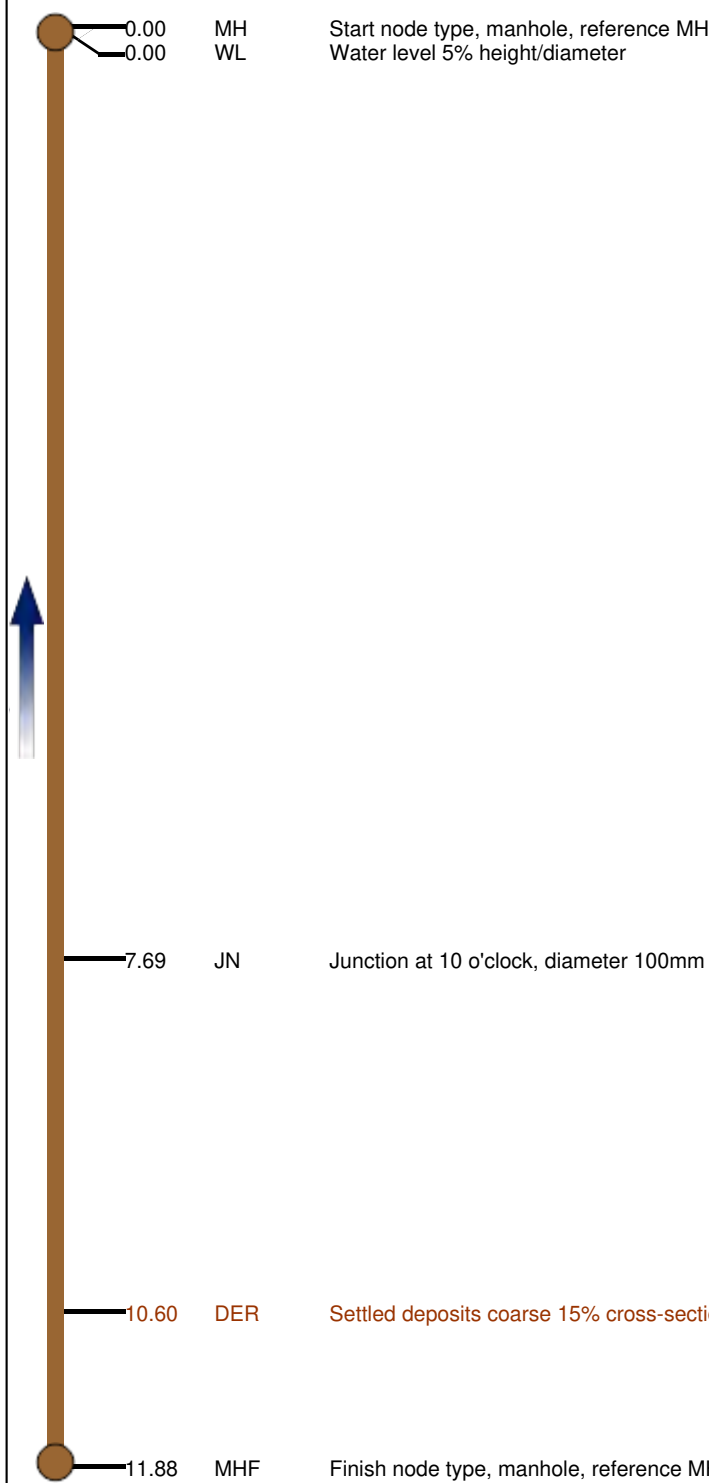


Finish node type, other special chamber, reference B

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) MH11 X	Date 13/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 3/0	Base Unit DJVV56JNNH	Section Number 23
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 150mm Material Vitrified clay Category		Start Node MH8 End Node MH11 Total length 11.88 metres	

 Scale **1:0.62**
 Direction **Upstream**

Start Node Ref:MH8 | I/L : metres | Depth: 1.62 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH8	7251252	Comment / 0
0.00	WL	Water level 5% height/diameter	7251253	Comment / 0
				
7.69	JN	Junction at 10 o'clock, diameter 100mm	7251259	Comment / 0
10.60	DER	Settled deposits coarse 15% cross-sectional area loss	7251270	Service / 3
11.88	MHF	Finish node type, manhole, reference MH11	7251271	Comment / 0

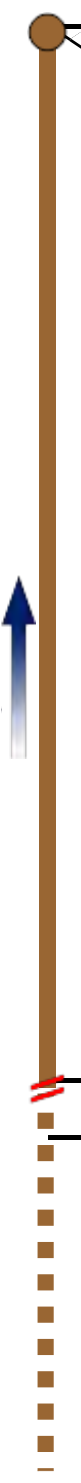
End Node Ref:MH11 | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 13/12/2022
 0.00 M Start node type, manhole, reference MH8			
 0.00 M Water level 5% height/diameter			
From: MH8 / To: MH11 Size: 150mm  7.74 M Junction at 10 o'clock, diameter 100mm			
From: MH8 / To: MH11 Size: 150mm  10.62 M Settled deposits coarse 15% cross-sectional area loss			
From: MH8 / To: MH11 Size: 150mm  11.90 M Finish node type, manhole, reference MH11			

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) B X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 4/0	Base Unit DJVV56JNNH	Section Number 24
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH9 End Node B Total length 7 metres	

 Scale **1:0.37**
 Direction **Upstream**

Start Node Ref:MH9 | I/L : metres | Depth: 1.92 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH9	7279396	Comment / 0
0.00	WL	Water level 5% height/diameter	7279397	Comment / 0
				
5.12	SA	Survey abandoned - Remark: DUE TO 25% DER	7279400	Comment / 0
5.40	DEC	Settled deposits hard or compacted 25% cross-sectional area loss	7279398	Service / 4
				

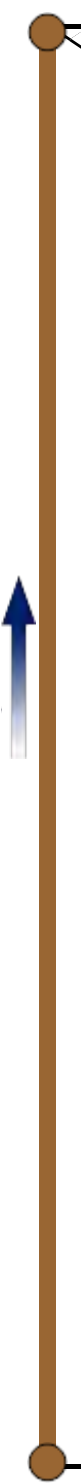
End Node Ref:B | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
 0.00 M Start node type, manhole, reference MH9			
 0.00 M Water level 5% height/diameter			
From: MH9 / To: B Size: 100mm  5.10 M Survey abandoned - Remark: DUE TO 25% DER			
From: MH9 / To: B Size: 100mm  5.38 M Settled deposits hard or compacted 25% cross-sectional area loss			

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) C X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 25
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH9 End Node C Total length 8.79 metres	

 Scale **1:0.46**
 Direction **Upstream**

Start Node Ref:MH9 | I/L : metres | Depth: 1.92 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH9	7279415	Comment / 0
0.00	WL	Water level 5% height/diameter	7279416	Comment / 0
				
8.79	OCF	Finish node type, other special chamber, reference C	7279419	Comment / 0

End Node Ref:C | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
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Start node type, manhole, reference MH9



Water level 5% height/diameter



Finish node type, other special chamber, reference C

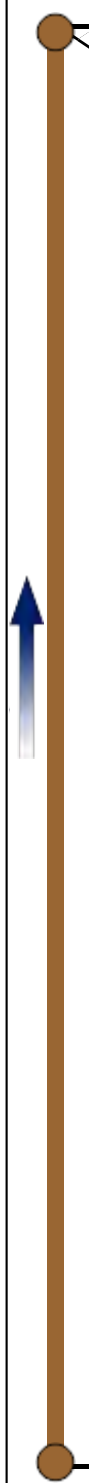
Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) D X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 26

Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA	Division District Location Details
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Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category	Start Node MH9 End Node D Total length 9.52 metres
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Scale 1:0.50 Direction Upstream
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Start Node Ref:MH9 | I/L : metres | Depth: 1.92 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH9	7279437	Comment / 0
0.00	WL	Water level 5% height/diameter	7279438	Comment / 0
				
9.52	OCF	Finish node type, other special chamber, reference D	7279439	Comment / 0

End Node Ref:D | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
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Start node type, manhole, reference MH9



Water level 5% height/diameter

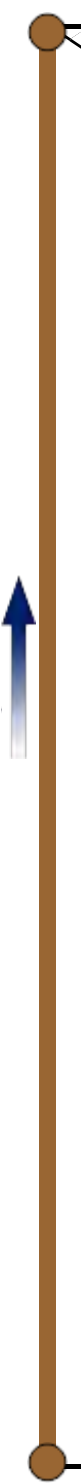


Finish node type, other special chamber, reference D

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) MH13 X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 27
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 150mm Material Vitrified clay Category		Start Node MH9 End Node MH13 Total length 2.67 metres	

 Scale **1:0.14**
 Direction **Upstream**

Start Node Ref:MH9 | I/L : metres | Depth: 1.92 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH9	7279455	Comment / 0
0.00	WL	Water level 5% height/diameter	7279456	Comment / 0
				
2.67	MHF	Finish node type, manhole, reference MH13	7279457	Comment / 0

End Node Ref:MH13 | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
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Start node type, manhole, reference MH9



Water level 5% height/diameter



Finish node type, manhole, reference MH13

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) B X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 4/0	Base Unit DJVV56JNNH	Section Number 28
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH13 End Node B Total length 7 metres	

 Scale **1:0.37**
 Direction **Upstream**

Start Node Ref:MH13 | I/L : metres | Depth: 1.75 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH13	7279519	Comment / 0
0.00	WL	Water level 5% height/diameter	7279520	Comment / 0
0.55	DEC	Settled deposits hard or compacted 25% cross-sectional area loss	7279521	Service / 4
1.69	SA	Survey abandoned - Remark: DUE TO 25%DER	7279527	Comment / 0

End Node Ref:B | I/L : metres

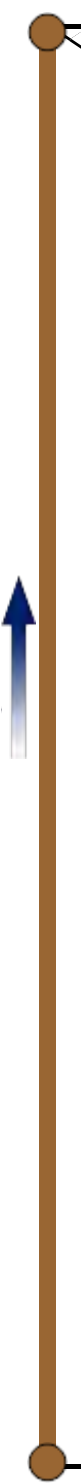
Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
 0.00 M Start node type, manhole, reference MH13			
 0.00 M Water level 5% height/diameter			
 From: MH13 / To: B Size: 100mm 0.55 M Settled deposits hard or compacted 25% cross-sectional area loss			
 From: MH13 / To: B Size: 100mm 1.67 M Survey abandoned - Remark: DUE TO 25%DER			

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) C X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 29

Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA	Division District Location Details
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Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category	Start Node MH13 End Node C Total length 3.93 metres
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Scale 1:0.21 Direction Upstream
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Start Node Ref:MH13 I/L : metres Depth: 1.75 metres				Photo	Type/Grade
Position	Code	Description			
0.00	MH	Start node type, manhole, reference MH13		7279541	Comment / 0
0.00	WL	Water level 5% height/diameter		7279542	Comment / 0
					
3.93	OCF	Finish node type, other special chamber, reference C		7279543	Comment / 0
End Node Ref:C I/L : metres					

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
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Start node type, manhole, reference MH13



Water level 5% height/diameter



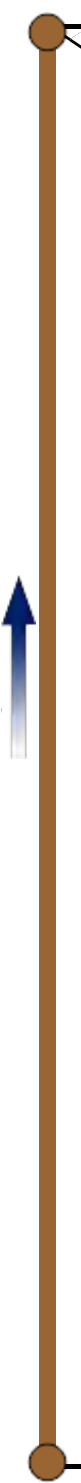
Finish node type, other special chamber, reference C

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) D X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 30

Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA	Division District Location Details
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Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category	Start Node MH13 End Node D Total length 2.67 metres
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Scale 1:0.14 Direction Upstream
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Start Node Ref:MH13 I/L : metres Depth: 1.75 metres				Photo	Type/Grade
Position	Code	Description			
0.00	MH	Start node type, manhole, reference MH13		7279569	Comment / 0
0.00	WL	Water level 5% height/diameter		7279571	Comment / 0
					
2.67	OCF	Finish node type, other special chamber, reference D		7279572	Comment / 0
End Node Ref:D I/L : metres					



Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
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Start node type, manhole, reference MH13



Water level 5% height/diameter

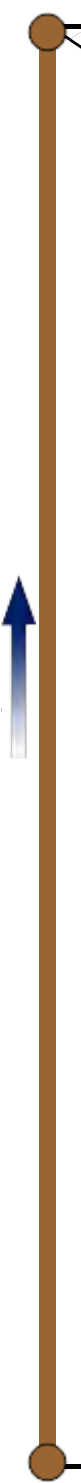


Finish node type, other special chamber, reference D

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) E X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 31
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH13 End Node E Total length 6.4 metres	

 Scale **1:0.34**
 Direction **Upstream**

Start Node Ref:MH13 | I/L : metres | Depth: 1.75 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH13	7279599	Comment / 0
0.00	WL	Water level 5% height/diameter	7279600	Comment / 0
				
6.40	OCF	Finish node type, other special chamber, reference E	7279606	Comment / 0

End Node Ref:E | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
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Start node type, manhole, reference MH13



Water level 5% height/diameter



Finish node type, other special chamber, reference E

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) MH18 X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 32
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 150mm Material Vitrified clay Category		Start Node MH13 End Node MH18 Total length 15.88 metres	

 Scale **1:0.83**
 Direction **Upstream**

Start Node Ref:MH13 | I/L : metres | Depth: 1.75 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH13	7279658	Comment / 0
0.00	WL	Water level 5% height/diameter	7279660	Comment / 0
				
15.88	MHF	Finish node type, manhole, reference MH18	7279738	Comment / 0

End Node Ref:MH18 | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
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Start node type, manhole, reference MH13



Water level 5% height/diameter



Finish node type, manhole, reference MH18

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) MH19 X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 33

Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA	Division District Location Details
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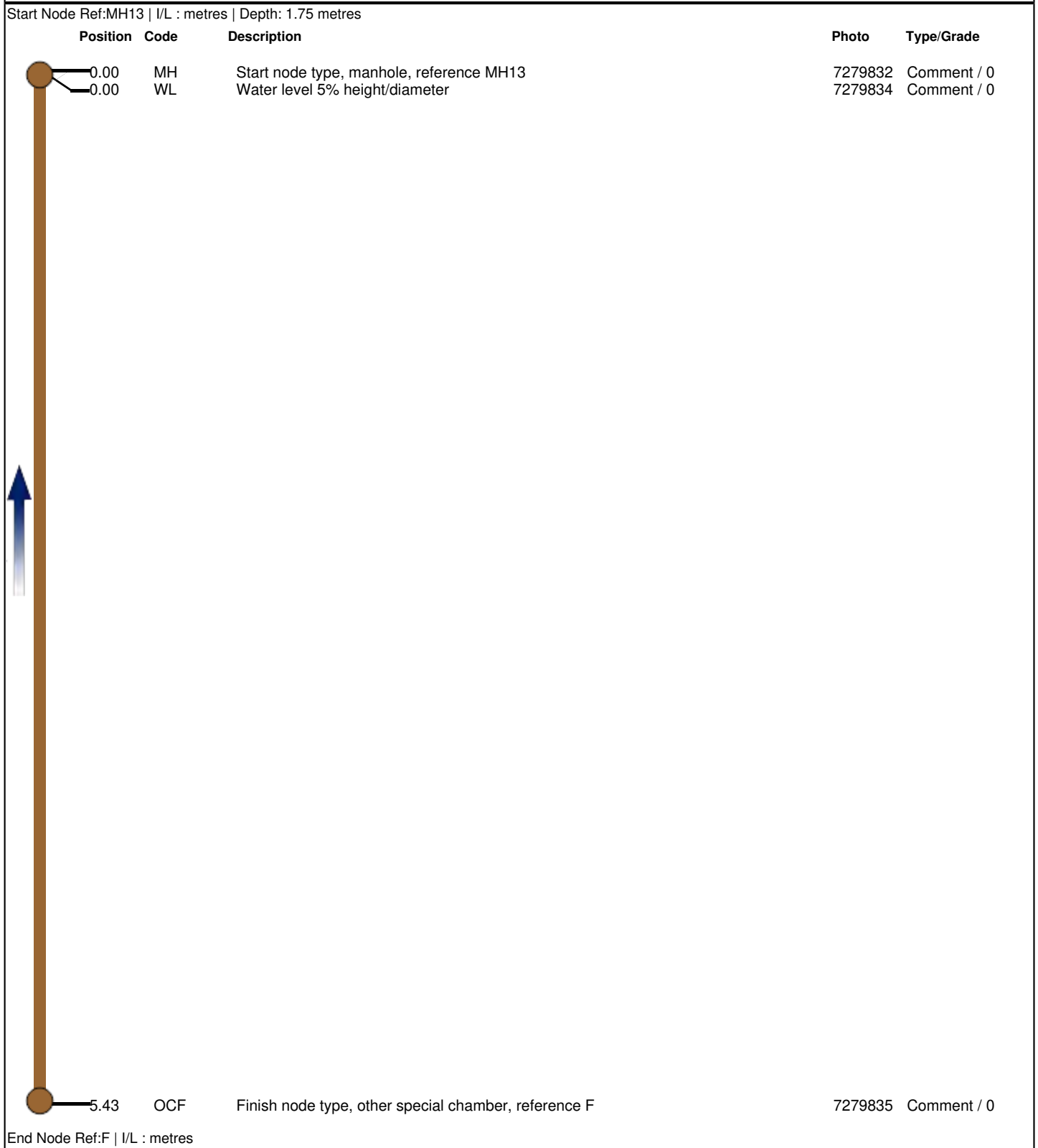
Purpose Duty Combined Catchment	Shape/Size 150mm Material Vitrified clay Category	Start Node MH18 End Node MH19 Total length 13.98 metres
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Scale 1:0.73 Direction Upstream
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Start Node Ref:MH18 I/L : metres					Photo	Type/Grade	
Position	Code	Description					
	0.00	MH	Start node type, manhole, reference MH18			7279793	Comment / 0
	0.00	WL	Water level 5% height/diameter			7279794	Comment / 0
1.79	SC	Dimensions of drain/sewer changes to 100mm			7279795	Comment / 0	
13.98	MHF	Finish node type, manhole, reference MH19			7279804	Comment / 0	
End Node Ref:MH19 I/L : metres							

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
 -0.02 M Start node type, manhole, reference MH18			
 -0.02 M Water level 5% height/diameter			
 From: MH18 / To: MH19 Size: 150mm 1.79 M Dimensions of drain/sewer changes to 100mm			
 From: MH18 / To: MH19 Size: 100mm 14.00 M Finish node type, manhole, reference MH19			

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) F X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 34
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category	Start Node MH13 End Node F Total length 5.43 metres		
Scale 1:0.29 Direction Upstream				



Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
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Start node type, manhole, reference MH13



Water level 5% height/diameter

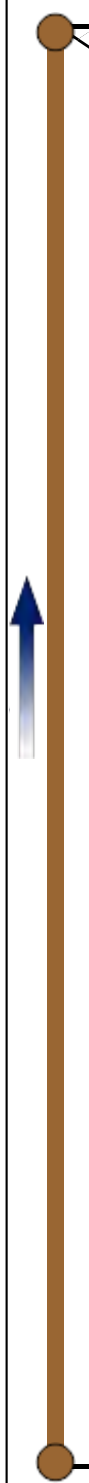


Finish node type, other special chamber, reference F

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) G X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 35
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH13 End Node G Total length 0.88 metres	

 Scale **1:0.05**
 Direction **Upstream**

Start Node Ref:MH13 | I/L : metres | Depth: 1.75 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH13	7279845	Comment / 0
0.00	WL	Water level 5% height/diameter	7279846	Comment / 0
				
0.88	OCF	Finish node type, other special chamber, reference G	7279848	Comment / 0

End Node Ref:G | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
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Start node type, manhole, reference MH13



Water level 5% height/diameter



Finish node type, other special chamber, reference G

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) H X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 36
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH13 End Node H Total length 5.62 metres	

 Scale **1:0.30**
 Direction **Upstream**

Start Node Ref:MH13 | I/L : metres | Depth: 1.75 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH13	7279863	Comment / 0
0.00	WL	Water level 5% height/diameter	7279865	Comment / 0
1.55	LL	Line of drain/sewer deviates left	7334481	Comment / 0
5.62	OCF	Finish node type, other special chamber, reference H	7334482	Comment / 0

End Node Ref:H | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
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Start node type, manhole, reference MH13



Water level 5% height/diameter



Line of drain/sewer deviates left



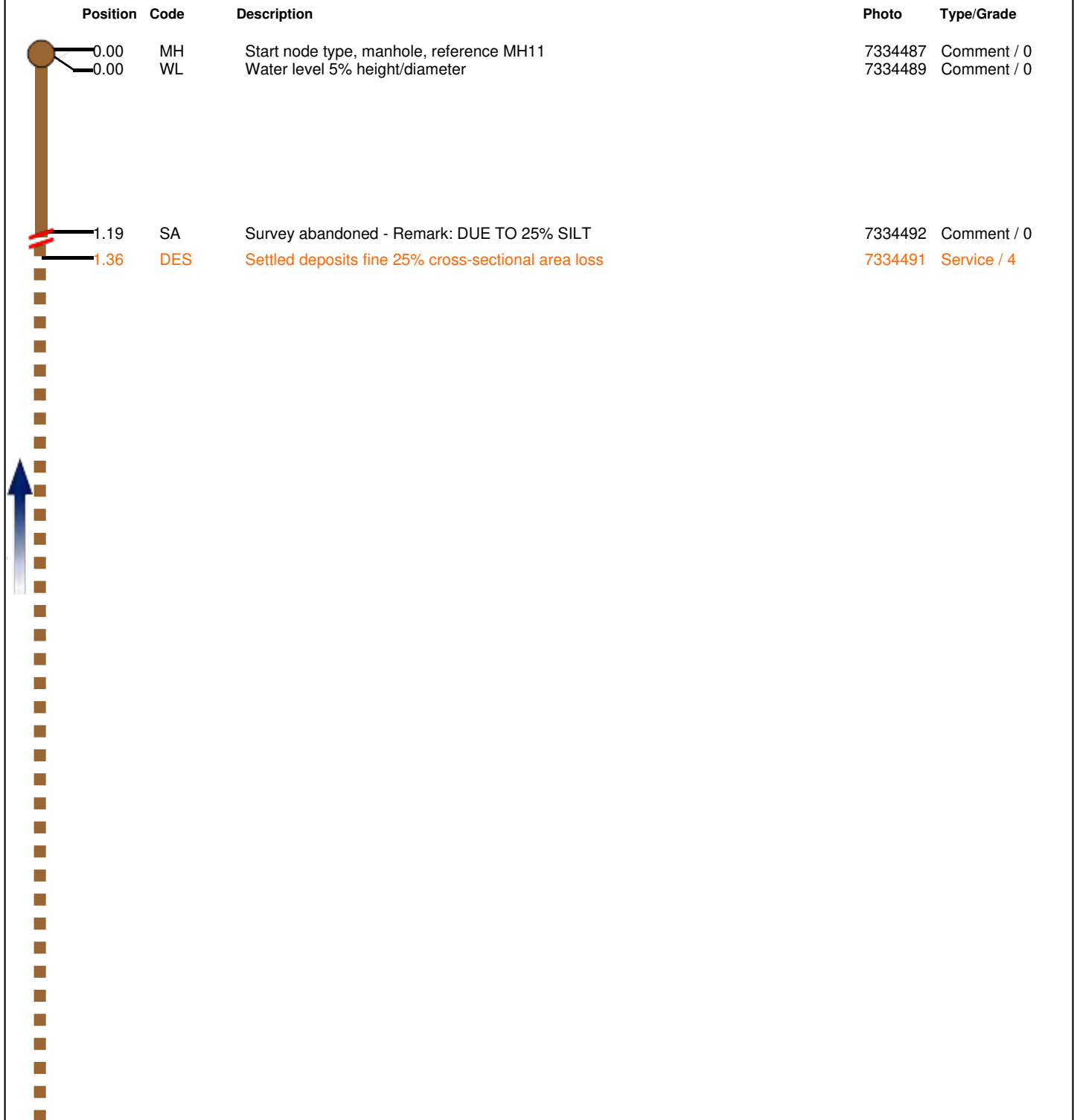
Finish node type, other special chamber, reference H

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) B X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 4/0	Base Unit DJVV56JNNH	Section Number 37
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH11 End Node B Total length 7 metres	

 Scale **1:0.37**
 Direction **Upstream**

Start Node Ref:MH11 | I/L : metres | Depth: 1.10 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH11	7334487	Comment / 0
0.00	WL	Water level 5% height/diameter	7334489	Comment / 0
1.19	SA	Survey abandoned - Remark: DUE TO 25% SILT	7334492	Comment / 0
1.36	DES	Settled deposits fine 25% cross-sectional area loss	7334491	Service / 4



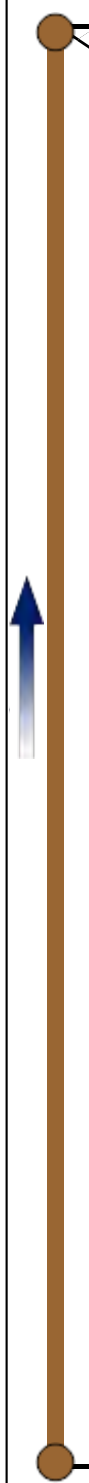
End Node Ref:B | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
 0.00 M Start node type, manhole, reference MH11			
 0.00 M Water level 5% height/diameter			
From: MH11 / To: B Size: 100mm  1.21 M Survey abandoned - Remark: DUE TO 25% SILT			
From: MH11 / To: B Size: 100mm  1.36 M Settled deposits fine 25% cross-sectional area loss			

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) C X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 38
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH11 End Node C Total length 8.38 metres	

 Scale **1:0.44**
 Direction **Upstream**

Start Node Ref:MH11 | I/L : metres | Depth: 1.10 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH11	7334493	Comment / 0
0.00	WL	Water level 5% height/diameter	7334494	Comment / 0
				
8.38	GYF	Finish node type, gully, reference C	7334495	Comment / 0

End Node Ref:C | I/L : metres



Job Number
LAYERSERV0001556

Surveyed by (Operator)
Joe COLLINS

Base Unit
DJVV56JNNH

Date
20/12/2022



Start node type, manhole, reference MH11



Water level 5% height/diameter

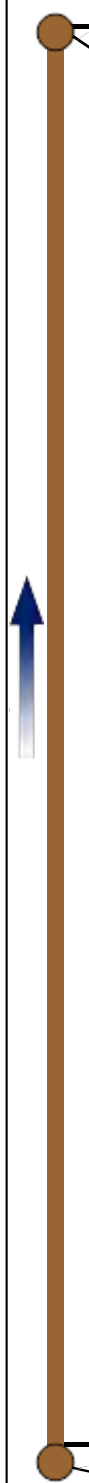


Finish node type, gully, reference C

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) A X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 4/0	Base Unit DJVV56JNNH	Section Number 39
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH11 End Node A Total length 15.43 metres	

 Scale **1:0.81**
 Direction **Upstream**

Start Node Ref:MH11 | I/L : metres | Depth: 1.10 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH11	7334497	Comment / 0
0.00	WL	Water level 5% height/diameter	7334498	Comment / 0
				
15.19	DER	Settled deposits coarse 25% cross-sectional area loss	7334500	Service / 4
15.43	OCF	Finish node type, other special chamber, reference A	7334503	Comment / 0

End Node Ref:A | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
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Start node type, manhole, reference MH11



Water level 5% height/diameter



Settled deposits coarse 25% cross-sectional area loss

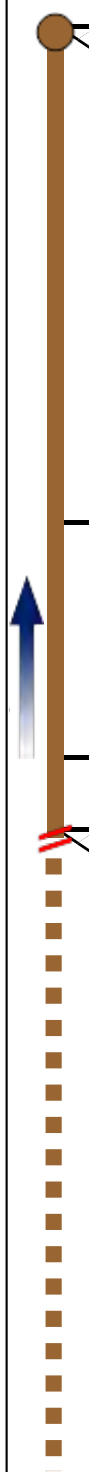


Finish node type, other special chamber, reference A

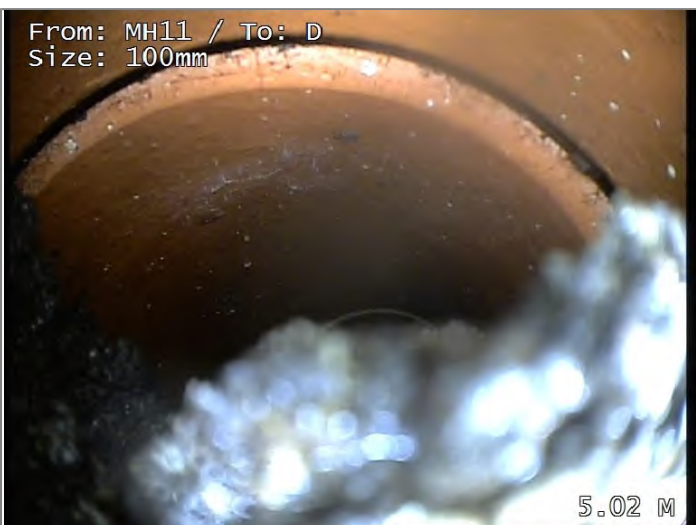
Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) D X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 4/0	Base Unit DJVV56JNNH	Section Number 40
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH11 End Node D Total length 9 metres	

 Scale **1:0.47**
 Direction **Upstream**

Start Node Ref:MH11 | I/L : metres | Depth: 1.10 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH11	7334504	Comment / 0
0.00	WL	Water level 5% height/diameter	7334505	Comment / 0
				
3.10	JN	Junction at 9 o'clock, diameter 100mm	7334506	Comment / 0
4.57	JN	Junction at 11 o'clock, diameter 100mm	7334507	Comment / 0
5.02	DER	Settled deposits coarse 25% cross-sectional area loss	7334508	Service / 4
5.02	SA	Survey abandoned - Remark: DUE TO DER	7334509	Comment / 0

End Node Ref:D | I/L : metres

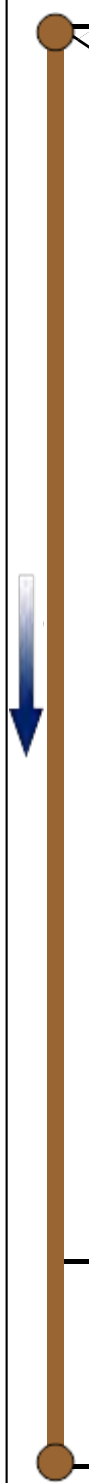
Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
 0.00 M Start node type, manhole, reference MH11			
 0.00 M Water level 5% height/diameter			
From: MH11 / To: D Size: 100mm  3.14 M Junction at 9 o'clock, diameter 100mm			
From: MH11 / To: D Size: 100mm  4.43 M Junction at 11 o'clock, diameter 100mm			
From: MH11 / To: D Size: 100mm  5.12 M Settled deposits coarse 25% cross-sectional area loss			
From: MH11 / To: D Size: 100mm  5.02 M Survey abandoned - Remark: DUE TO DER			

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) MH12 X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 41

Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA	Division District Location Details
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Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category	Start Node MH12 End Node MH9 Total length 5.19 metres
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Scale 1:0.27 Direction Downstream
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Start Node Ref:MH12 I/L : metres Depth: 1.20 metres				Photo	Type/Grade
Position	Code	Description			
0.00	MH	Start node type, manhole, reference MH12		7334510	Comment / 0
0.00	WL	Water level 5% height/diameter		7334512	Comment / 0
					
4.45	JN	Junction at 6 o'clock, diameter 100mm - Remark: DROPPER		7334513	Comment / 0
5.19	MHF	Finish node type, manhole, reference MH9		7334515	Comment / 0
End Node Ref:MH9 I/L : metres Depth: 1.92 metres					

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
 0.00 M Start node type, manhole, reference MH12		 0.00 M Water level 5% height/diameter	
From: MH12 / To: MH9 Size: 100mm  4.45 M Junction at 6 o'clock, diameter 100mm - Remark: DROPPER		From: MH12 / To: MH9 Size: 100mm  5.38 M Finish node type, manhole, reference MH9	



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Pope Lane
Preston
Lancashire
PR4 4BA

Start Node Ref:MH12	I/L : metres	Depth: 1.20 metres
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End Node Ref:B | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
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Start node type, manhole, reference MH12



Water level 5% height/diameter



Junction at 6 o'clock, diameter 100mm



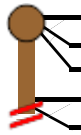
Finish node type, outfall, reference B

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) A X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 4/0	Base Unit DJVV56JNNH	Section Number 43

Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA	Division District Location Details
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Purpose Duty Combined Catchment	Shape/Size 100mm Material Vitrified clay Category	Start Node MH12 End Node A Total length 7 metres
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Scale 1:0.37 Direction Upstream
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Start Node Ref:MH12 I/L : metres Depth: 1.20 metres					Photo	Type/Grade	
Position	Code	Description					
	0.00	MH	Start node type, manhole, reference MH12			7334520	Comment / 0
	0.00	WL	Water level 5% height/diameter			7334521	Comment / 0
	0.00	JN	Junction at 6 o'clock, diameter 100mm - Remark: DROPPER			7334522	Comment / 0
	0.40	DEX	Other settled deposits 50% cross-sectional area loss - Remark: BLOCKED			7334523	Service / 4
	0.43	SA	Survey abandoned - Remark: BLOCKED LINE			7334524	Comment / 0
							
End Node Ref:A I/L : metres							

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
 0.00 M Start node type, manhole, reference MH12			
 0.00 M Water level 5% height/diameter			
From: MH12 / To: A Size: 100mm  0.00 M Junction at 6 o'clock, diameter 100mm - Remark: DROPPER			
From: MH12 / To: A Size: 100mm  0.38 M Other settled deposits 50% cross-sectional area loss - Remark: BLOCKED			
From: MH12 / To: A Size: 100mm  0.43 M Survey abandoned - Remark: BLOCKED LINE			

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) MH22 X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 3/0	Base Unit DJVV56JNNH	Section Number 44

Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA	Division District Location Details
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Purpose Duty Surface water Catchment	Shape/Size 100mm Material Vitrified clay Category	Start Node MH22 End Node MH10 Total length 15 metres
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Scale 1:0.79 Direction Downstream
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Start Node Ref:MH22 I/L : metres Depth: 1.33 metres				Photo	Type/Grade
Position	Code	Description			
0.00	MH	Start node type, manhole, reference MH22		7334525	Comment / 0
0.00	WL	Water level 5% height/diameter		7334526	Comment / 0
2.45	DER (S01)	Settled deposits coarse 10% cross-sectional area loss, Start		7334527	Service / 3
6.98	DER (F01)	Settled deposits coarse 10% cross-sectional area loss, Finished		7334528	Service / 3
7.00	SA	Survey abandoned - Remark: DUE TO 20% DER		7334529	Comment / 0
End Node Ref:MH10 I/L : metres Depth: 1.54 metres					

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
 0.00 M		 0.00 M	
Start node type, manhole, reference MH22		Water level 5% height/diameter	
 From: MH22 / To: MH10 Size: 100mm 2.55 M		 From: MH22 / To: MH10 Size: 100mm 7.24 M	
Settled deposits coarse 10% cross-sectional area loss, Start		Settled deposits coarse 10% cross-sectional area loss, Finished	
 From: MH22 / To: MH10 Size: 100mm 6.98 M			
Survey abandoned - Remark: DUE TO 20% DER			

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) B X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 45

Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA	Division District Location Details
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Purpose Duty Surface water Catchment	Shape/Size 100mm Material Vitrified clay Category	Start Node MH22 End Node B Total length 2.6 metres
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Scale 1:0.14 Direction Upstream
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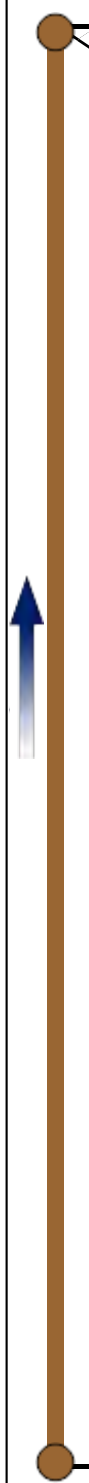
Start Node Ref:MH22 I/L : metres Depth: 1.33 metres				Photo	Type/Grade
Position	Code	Description			
0.00	MH	Start node type, manhole, reference MH22		7334530	Comment / 0
0.00	WL	Water level 5% height/diameter		7334532	Comment / 0
					
1.71	JN	Junction at 10 o'clock, diameter 100mm		7334533	Comment / 0
2.60	GYF	Finish node type, gully, reference B		7334534	Comment / 0
End Node Ref:B I/L : metres					

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
 0.00 M Start node type, manhole, reference MH22			
 0.00 M Water level 5% height/diameter			
 From: MH22 / To: B Size: 100mm 1.76 M Junction at 10 o'clock, diameter 100mm			
 From: MH22 / To: B Size: 100mm 2.60 M Finish node type, gully, reference B			

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) MH21 X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 46
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH22 End Node MH21 Total length 11.74 metres	

 Scale **1:0.62**
 Direction **Upstream**

Start Node Ref:MH22 | I/L : metres | Depth: 1.33 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH22	7334535	Comment / 0
0.00	WL	Water level 5% height/diameter	7334536	Comment / 0
				
11.74	MHF	Finish node type, manhole, reference MH21	7334537	Comment / 0

End Node Ref:MH21 | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
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Start node type, manhole, reference MH22



Water level 5% height/diameter



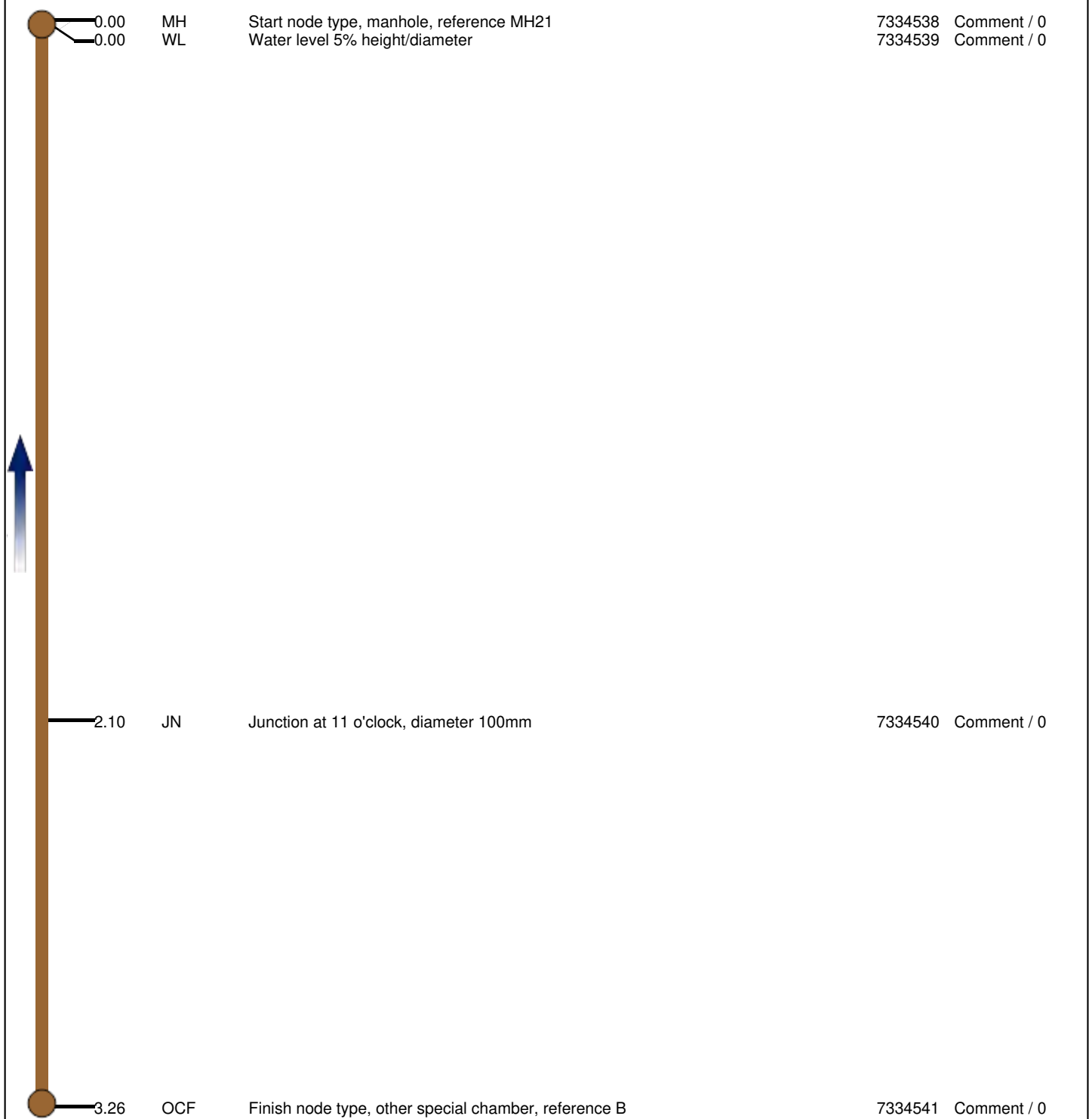
Finish node type, manhole, reference MH21

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) B X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 47

Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA	Division District Location Details
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Purpose Duty Surface water Catchment	Shape/Size 100mm Material Vitrified clay Category	Start Node MH21 End Node B Total length 3.26 metres
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Scale 1:0.17 Direction Upstream
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Start Node Ref:MH21 I/L : metres Depth: 1.06 metres				Photo	Type/Grade
Position	Code	Description			
0.00	MH	Start node type, manhole, reference MH21		7334538	Comment / 0
0.00	WL	Water level 5% height/diameter		7334539	Comment / 0
					
2.10	JN	Junction at 11 o'clock, diameter 100mm		7334540	Comment / 0
3.26	OCF	Finish node type, other special chamber, reference B		7334541	Comment / 0
End Node Ref:B I/L : metres					

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
 0.00 M Start node type, manhole, reference MH21			
 0.00 M Water level 5% height/diameter			
 From: MH21 / To: B Size: 100mm 2.24 M Junction at 11 o'clock, diameter 100mm			
 From: MH21 / To: B Size: 100mm 3.31 M Finish node type, other special chamber, reference B			

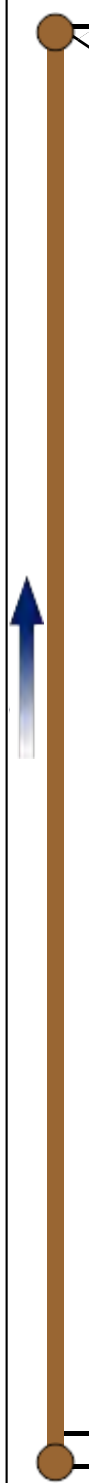
Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) C X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 48

Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA	Division District Location Details
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Purpose Duty Surface water Catchment	Shape/Size 100mm Material Vitrified clay Category	Start Node MH21 End Node C Total length 9.07 metres
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Scale 1:0.48 Direction Upstream
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Start Node Ref:MH21 | I/L : metres | Depth: 1.06 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH21	7334542	Comment / 0
0.00	WL	Water level 5% height/diameter	7334544	Comment / 0
				
8.86	LL	Line of drain/sewer deviates left	7334546	Comment / 0
9.07	GYF	Finish node type, gully, reference C	7334547	Comment / 0

End Node Ref:C | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
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Start node type, manhole, reference MH21



Water level 5% height/diameter



Line of drain/sewer deviates left

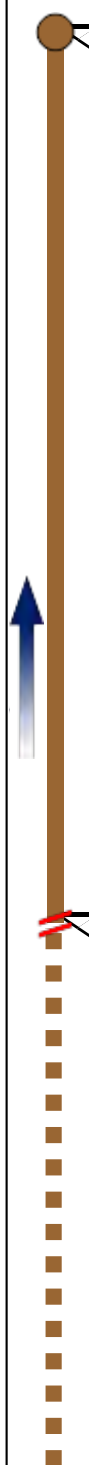


Finish node type, gully, reference C

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) A X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 3/0	Base Unit DJVV56JNNH	Section Number 49
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH21 End Node A Total length 9 metres	

 Scale **1:0.47**
 Direction **Upstream**

Start Node Ref:MH21 | I/L : metres | Depth: 1.06 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH21	7334548	Comment / 0
0.00	WL	Water level 5% height/diameter	7334550	Comment / 0
				
5.55	DES	Settled deposits fine 15% cross-sectional area loss	7334551	Service / 3
5.55	SA	Survey abandoned - Remark: DUE TO SILT IN LINE	7334552	Comment / 0

End Node Ref:A | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
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Start node type, manhole, reference MH21



Water level 5% height/diameter



Settled deposits fine 15% cross-sectional area loss



Survey abandoned - Remark: DUE TO SILT IN LINE

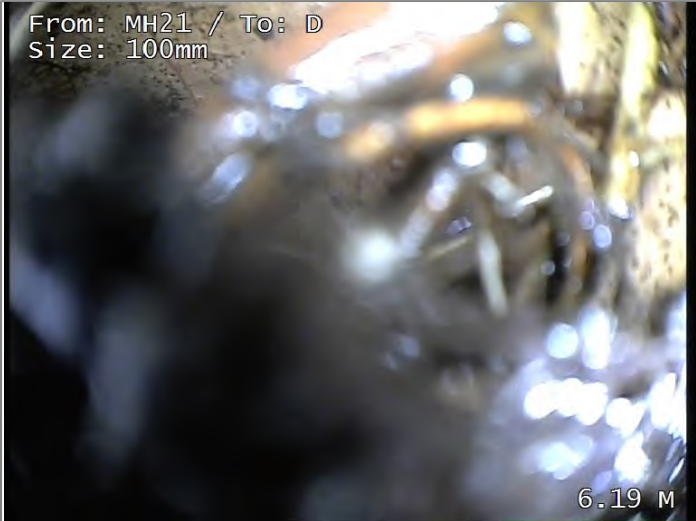
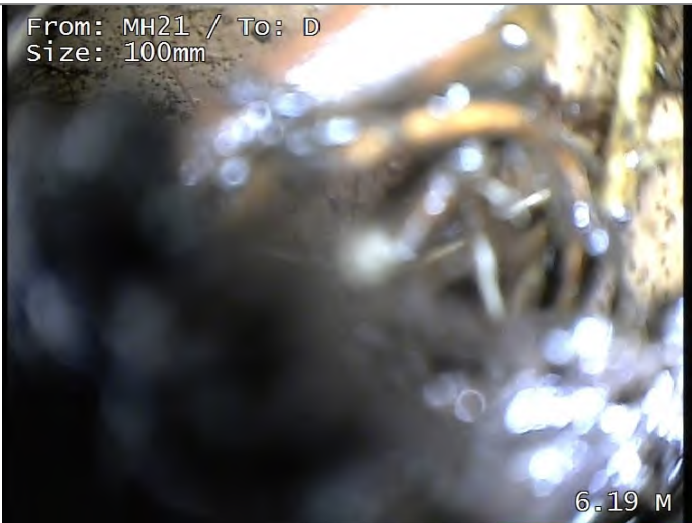
Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) D X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 4/0	Base Unit DJVV56JNNH	Section Number 50
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH21 End Node D Total length 15 metres	

 Scale **1:0.79**
 Direction **Upstream**

Start Node Ref:MH21 | I/L : metres | Depth: 1.06 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH21	7334553	Comment / 0
0.00	WL	Water level 5% height/diameter	7334554	Comment / 0
1.40	JN	Junction at 9 o'clock, diameter 100mm	7334555	Comment / 0
6.19	DER	Settled deposits coarse 25% cross-sectional area loss	7334556	Service / 4
6.19	SA	Survey abandoned - Remark: DUE TO SILT AND ROOTS	7334557	Comment / 0

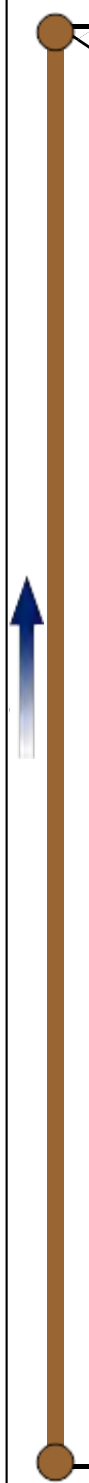
End Node Ref:D | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
 0.00 M Start node type, manhole, reference MH21			
 0.00 M Water level 5% height/diameter			
From: MH21 / To: D Size: 100mm  1.55 M Junction at 9 o'clock, diameter 100mm			
From: MH21 / To: D Size: 100mm  6.19 M Settled deposits coarse 25% cross-sectional area loss			
From: MH21 / To: D Size: 100mm  6.19 M Survey abandoned - Remark: DUE TO SILT AND ROOTS			

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) A X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 51
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Foul Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH20 End Node A Total length 6.38 metres	

 Scale **1:0.33**
 Direction **Upstream**

Start Node Ref:MH20 | I/L : metres | Depth: 680 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH20	7334558	Comment / 0
0.00	WL	Water level 5% height/diameter	7334559	Comment / 0
				
6.38	OCF	Finish node type, other special chamber, reference A	7334560	Comment / 0

End Node Ref:A | I/L : metres

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) B X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 52
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Foul Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH20 End Node B Total length 5.86 metres	

 Scale **1:0.31**
 Direction **Upstream**

Start Node Ref:MH20 | I/L : metres | Depth: 680 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH20	7334561	Comment / 0
0.00	WL	Water level 5% height/diameter	7334562	Comment / 0
1.67	LR	Line of drain/sewer deviates right	7334563	Comment / 0
5.86	OCF	Finish node type, other special chamber, reference B	7334564	Comment / 0

End Node Ref:B | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
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Start node type, manhole, reference MH20



Water level 5% height/diameter



Finish node type, other special chamber, reference A

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
 -0.14 M Start node type, manhole, reference MH20			
 -0.14 M Water level 5% height/diameter			
 From: MH20 / To: B Size: 100mm 1.79 M Line of drain/sewer deviates right			
 From: MH20 / To: B Size: 100mm 5.88 M Finish node type, other special chamber, reference B			

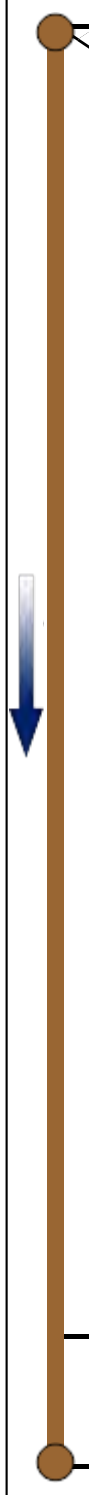
Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) MH20 X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 53

Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA	Division District Location Details
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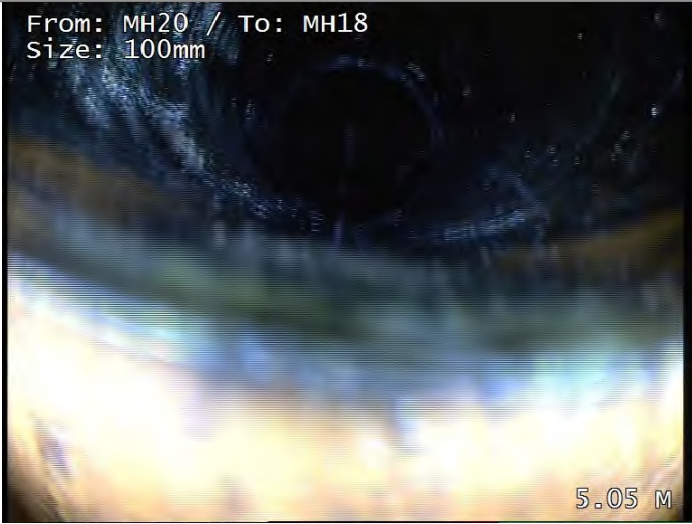
Purpose Duty Foul Catchment	Shape/Size 100mm Material Vitrified clay Category	Start Node MH20 End Node MH18 Total length 5.52 metres
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Scale 1:0.29 Direction Downstream
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Start Node Ref:MH20 | I/L : metres | Depth: 680 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH20	7334566	Comment / 0
0.00	WL	Water level 5% height/diameter	7334567	Comment / 0
				
5.02	JN	Junction at 6 o'clock, diameter 100mm - Remark: DROPPER	7334568	Comment / 0
5.52	MHF	Finish node type, manhole, reference MH18	7334569	Comment / 0

End Node Ref:MH18 | I/L : metres

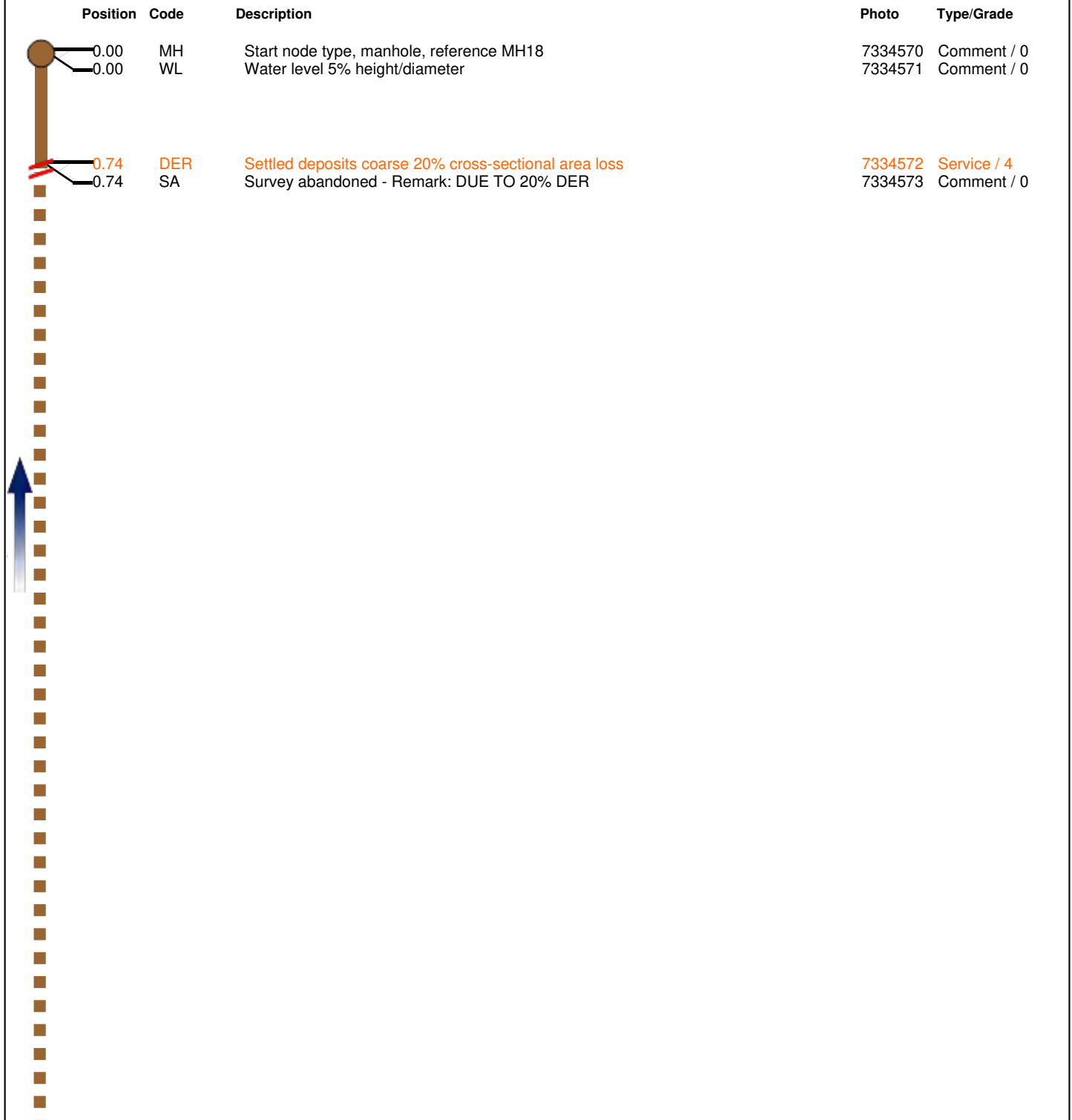
Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
 0.00 M Start node type, manhole, reference MH20			
 0.00 M Water level 5% height/diameter			
From: MH20 / To: MH18 Size: 100mm  5.05 M Junction at 6 o'clock, diameter 100mm - Remark: DROPPER			
From: MH20 / To: MH18 Size: 100mm  5.52 M Finish node type, manhole, reference MH18			

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) B X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 4/0	Base Unit DJVV56JNNH	Section Number 54
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Foul Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH18 End Node B Total length 7 metres	

 Scale **1:0.37**
 Direction **Upstream**

Start Node Ref:MH18 | I/L : metres | Depth: 1.47 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH18	7334570	Comment / 0
0.00	WL	Water level 5% height/diameter	7334571	Comment / 0
0.74	DER	Settled deposits coarse 20% cross-sectional area loss	7334572	Service / 4
0.74	SA	Survey abandoned - Remark: DUE TO 20% DER	7334573	Comment / 0



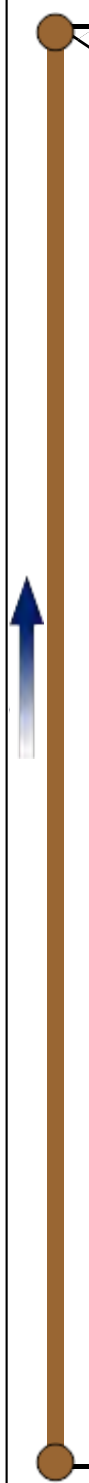
End Node Ref:B | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
 0.00 M Start node type, manhole, reference MH18			
 0.00 M Water level 5% height/diameter			
From: MH18 / To: B Size: 100mm  0.76 M Settled deposits coarse 20% cross-sectional area loss			
From: MH18 / To: B Size: 100mm  0.74 M Survey abandoned - Remark: DUE TO 20% DER			

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) C X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 55
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Foul Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH18 End Node C Total length 5.86 metres	

 Scale **1:0.31**
 Direction **Upstream**

Start Node Ref:MH18 | I/L : metres | Depth: 1.47 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH18	7334574	Comment / 0
0.00	WL	Water level 5% height/diameter	7334575	Comment / 0
				
5.86	OCF	Finish node type, other special chamber, reference C	7334576	Comment / 0

End Node Ref:C | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
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Start node type, manhole, reference MH18



Water level 5% height/diameter

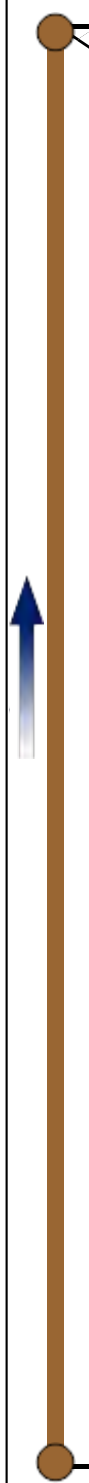


Finish node type, other special chamber, reference C

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) D X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 56
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Foul Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH18 End Node D Total length 5.45 metres	

 Scale **1:0.29**
 Direction **Upstream**

Start Node Ref:MH18 | I/L : metres | Depth: 1.47 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH18	7334577	Comment / 0
0.00	WL	Water level 5% height/diameter	7334578	Comment / 0
				
5.45	OCF	Finish node type, other special chamber, reference D	7334828	Comment / 0

End Node Ref:D | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
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Start node type, manhole, reference MH18



Water level 5% height/diameter



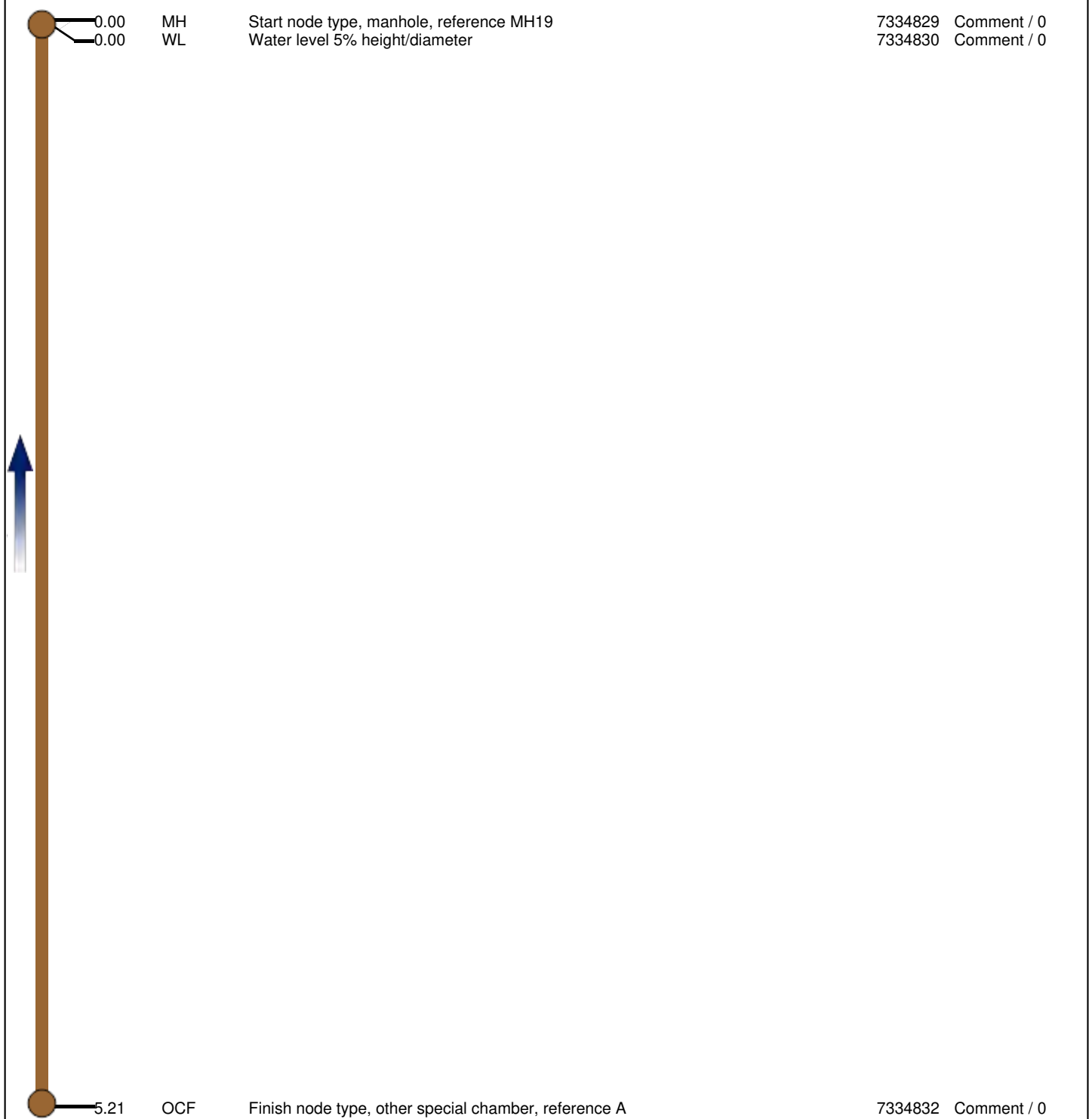
From: MH18 / To: D
Size: 100mm

Finish node type, other special chamber, reference D

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) A X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 57
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Foul Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH19 End Node A Total length 5.21 metres	

 Scale **1:0.27**
 Direction **Upstream**

Start Node Ref:MH19 | I/L : metres | Depth: 960 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH19	7334829	Comment / 0
0.00	WL	Water level 5% height/diameter	7334830	Comment / 0
				
5.21	OCF	Finish node type, other special chamber, reference A	7334832	Comment / 0

End Node Ref:A | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
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Start node type, manhole, reference MH19



Water level 5% height/diameter



Finish node type, other special chamber, reference A

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference (PLR) A X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 4/0	Base Unit DJVV56JNNH	Section Number 58
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH17 End Node A Total length 22 metres	

 Scale **1:1.15**
 Direction **Upstream**

Start Node Ref:MH17 | I/L : metres | Depth: 954 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH17	7334833	Comment / 0
0.00	WL	Water level 5% height/diameter	7334834	Comment / 0
1.79	JN	Junction at 3 o'clock, diameter 100mm	7334835	Comment / 0
5.26	JN	Junction at 2 o'clock, diameter 100mm	7334836	Comment / 0
6.88	JN	Junction at 2 o'clock, diameter 100mm	7334837	Comment / 0
11.64	JN	Junction at 2 o'clock, diameter 100mm	7334838	Comment / 0
11.64	DES	Settled deposits fine 25% cross-sectional area loss	7334839	Service / 4
11.64	SA	Survey abandoned - Remark: DUE TO 20% SILTV	7334840	Comment / 0

End Node Ref:A | I/L : metres



Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
 0.00 M Start node type, manhole, reference MH17			
 0.00 M Water level 5% height/diameter			
From: MH17 / To: A Size: 100mm  1.79 M Junction at 3 o'clock, diameter 100mm			
From: MH17 / To: A Size: 100mm  5.26 M Junction at 2 o'clock, diameter 100mm			
From: MH17 / To: A Size: 100mm  6.88 M Junction at 2 o'clock, diameter 100mm			
From: MH17 / To: A Size: 100mm  11.62 M Junction at 2 o'clock, diameter 100mm			

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
From: MH17 / To: A Size: 100mm  11.64 M Settled deposits fine 25% cross-sectional area loss From: MH17 / To: A Size: 100mm  11.64 M Survey abandoned - Remark: DUE TO 20% SILTV			

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) C X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 59
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH17 End Node C Total length 18 metres	

 Scale **1:0.94**
 Direction **Upstream**

Start Node Ref:MH17 | I/L : metres | Depth: 954 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH17	7334841	Comment / 0
0.00	WL	Water level 5% height/diameter	7334842	Comment / 0
2.55	JN	Junction at 2 o'clock, diameter 100mm	7334843	Comment / 0
5.88	LR	Line of drain/sewer deviates right	7334844	Comment / 0
11.98	JN	Junction at 3 o'clock, diameter 100mm	7334846	Comment / 0
11.98	SA	Survey abandoned - Remark: 20% SILT	7334847	Comment / 0

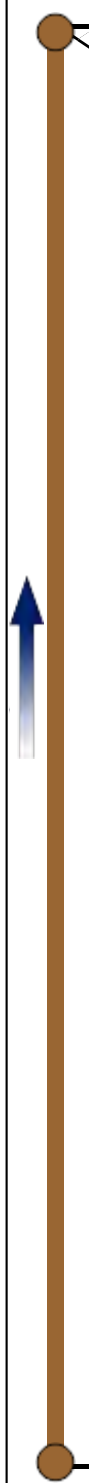
End Node Ref:C | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
 0.00 M Start node type, manhole, reference MH17			
 0.00 M Water level 5% height/diameter			
From: MH17 / To: C Size: 100mm  2.55 M Junction at 2 o'clock, diameter 100mm			
From: MH17 / To: C Size: 100mm  5.93 M Line of drain/sewer deviates right			
From: MH17 / To: C Size: 100mm  12.10 M Junction at 3 o'clock, diameter 100mm			
From: MH17 / To: C Size: 100mm  11.98 M Survey abandoned - Remark: 20% SILT			

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) D X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 60
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH17 End Node D Total length 9.48 metres	

 Scale **1:0.50**
 Direction **Upstream**

Start Node Ref:MH17 | I/L : metres | Depth: 954 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH17	7334848	Comment / 0
0.00	WL	Water level 5% height/diameter	7334849	Comment / 0
				
9.48	OCF	Finish node type, other special chamber, reference D	7334850	Comment / 0

End Node Ref:D | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
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Start node type, manhole, reference MH17



Water level 5% height/diameter



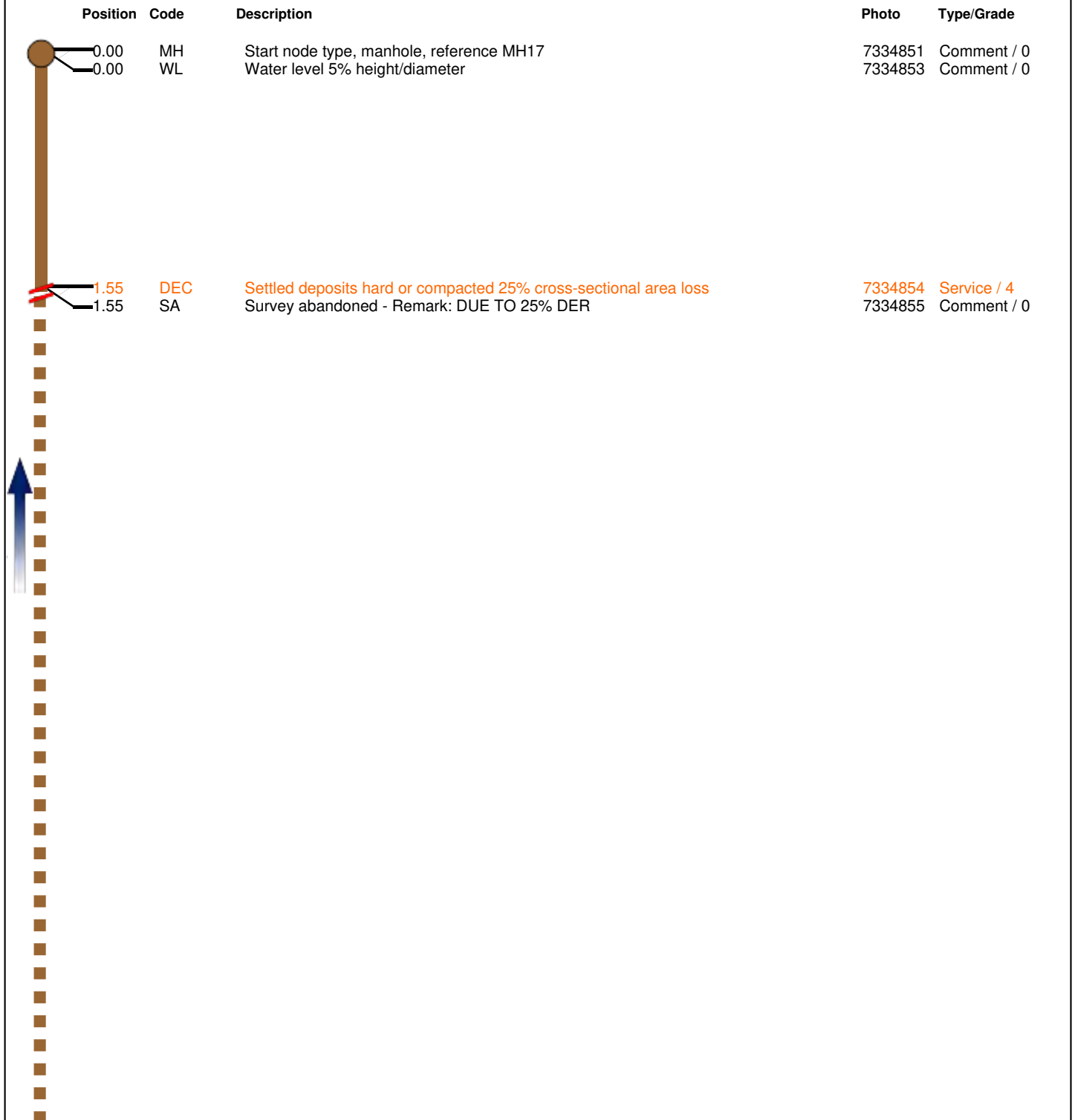
Finish node type, other special chamber, reference D

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) E X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 4/0	Base Unit DJVV56JNNH	Section Number 61
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH17 End Node E Total length 7 metres	

 Scale **1:0.37**
 Direction **Upstream**

Start Node Ref:MH17 | I/L : metres | Depth: 954 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH17	7334851	Comment / 0
0.00	WL	Water level 5% height/diameter	7334853	Comment / 0
1.55	DEC	Settled deposits hard or compacted 25% cross-sectional area loss	7334854	Service / 4
1.55	SA	Survey abandoned - Remark: DUE TO 25% DER	7334855	Comment / 0



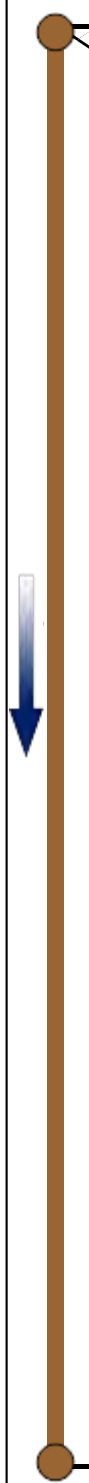
End Node Ref:E | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
 0.00 M Start node type, manhole, reference MH17			
 0.00 M Water level 5% height/diameter			
From: MH17 / To: E Size: 100mm  1.48 M Settled deposits hard or compacted 25% cross-sectional area loss			
From: MH17 / To: E Size: 100mm  1.55 M Survey abandoned - Remark: DUE TO 25% DER			

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) MH17 X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 62
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 150mm Material Vitrified clay Category		Start Node MH17 End Node MH16 Total length 11.12 metres	

 Scale **1:0.58**
 Direction **Downstream**

Start Node Ref:MH17 | I/L : metres | Depth: 954 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH17	7334856	Comment / 0
0.00	WL	Water level 5% height/diameter	7334857	Comment / 0
				
11.12	MHF	Finish node type, manhole, reference MH16	7334858	Comment / 0

End Node Ref:MH16 | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
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Start node type, manhole, reference MH17



Water level 5% height/diameter



Finish node type, manhole, reference MH16

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) MH16 X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 63
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 150mm Material Vitrified clay Category		Start Node MH16 End Node MH15 Total length 18.21 metres	

 Scale **1:0.96**
 Direction **Downstream**

Start Node Ref:MH16 | I/L : metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH16	7334859	Comment / 0
0.00	WL	Water level 5% height/diameter	7334860	Comment / 0
7.31	JN	Junction at 9 o'clock, diameter 100mm	7334861	Comment / 0
7.79	JN	Junction at 9 o'clock, diameter 100mm	7334862	Comment / 0
12.81	JN	Junction at 10 o'clock, diameter 100mm	7334863	Comment / 0
18.21	MHF	Finish node type, manhole, reference MH15	7334864	Comment / 0

End Node Ref:MH15 | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
 0.00 M Start node type, manhole, reference MH16			
 0.00 M Water level 5% height/diameter			
From: MH16 / To: MH15 Size: 150mm  7.31 M Junction at 9 o'clock, diameter 100mm			
From: MH16 / To: MH15 Size: 150mm  7.81 M Junction at 9 o'clock, diameter 100mm			
From: MH16 / To: MH15 Size: 150mm  12.81 M Junction at 10 o'clock, diameter 100mm			
From: MH16 / To: MH15 Size: 150mm  18.19 M Finish node type, manhole, reference MH15			

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) B X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 3/0	Base Unit DJVV56JNNH	Section Number 64

Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA	Division District Location Details
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Purpose Duty Surface water Catchment	Shape/Size 100mm Material Vitrified clay Category	Start Node MH16 End Node B Total length 8 metres
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Scale 1:0.42 Direction Upstream
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Start Node Ref:MH16 I/L : metres Depth: 1 metres					Photo	Type/Grade	
Position	Code	Description					
	0.00	MH	Start node type, manhole, reference MH16			7334865	Comment / 0
	0.00	WL	Water level 5% height/diameter			7334866	Comment / 0
							
	1.55	JN	Junction at 10 o'clock, diameter 100mm			7334867	Comment / 0
	1.86	DEC	Settled deposits hard or compacted 10% cross-sectional area loss Survey abandoned - Remark: DUE TO ENCRUSTATION			7334868	Service / 3
	1.86	SA				7334869	Comment / 0
							

End Node Ref:B | I/L : metres

End Node Ref:B | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
 0.00 M Start node type, manhole, reference MH16			
 0.00 M Water level 5% height/diameter			
From: MH16 / To: B Size: 100mm  1.55 M Junction at 10 o'clock, diameter 100mm		From: MH16 / To: B Size: 100mm  1.83 M Settled deposits hard or compacted 10% cross-sectional area loss	
From: MH16 / To: B Size: 100mm  1.86 M Survey abandoned - Remark: DUE TO ENCRUSTATION			



Layer Surveys Ltd
Francis House
Meadowcroft Business Park
Pope Lane
Preston
Lancashire
PR4 4BA

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) C X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 3/0	Base Unit DJVV56JNNH	Section Number 65

Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA	Division District Location Details
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Purpose Duty Surface water Catchment	Shape/Size 100mm Material Vitrified clay Category	Start Node MH16 End Node C Total length 7 metres
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Scale **1:0.37**
Direction **Upstream**

Start Node Ref:MH16 | I/L : metres | Depth: 1 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH16	7334870	Comment / 0
0.00	WL	Water level 5% height/diameter	7334871	Comment / 0
0.50	DER	Settled deposits coarse 15% cross-sectional area loss	7334872	Service / 3
0.50	SA	Survey abandoned - Remark: DUE TO DER	7334873	Comment / 0

End Node Ref:C | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
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Start node type, manhole, reference MH16



Water level 5% height/diameter



Settled deposits coarse 15% cross-sectional area loss

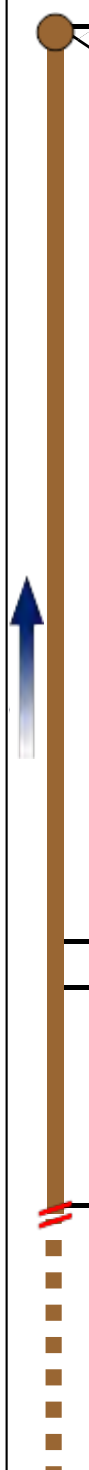


Survey abandoned - Remark: DUE TO DER

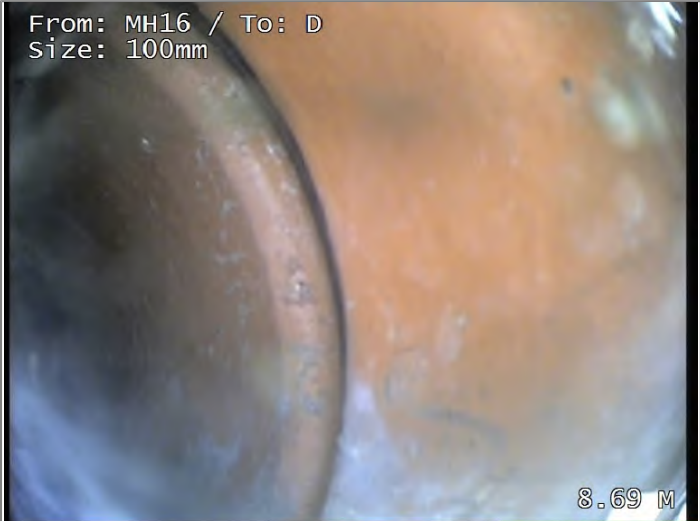
Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) D X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 66
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH16 End Node D Total length 13 metres	

 Scale **1:0.68**
 Direction **Upstream**

Start Node Ref:MH16 | I/L : metres | Depth: 1 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH16	7334874	Comment / 0
0.00	WL	Water level 5% height/diameter	7334875	Comment / 0
				
8.26	JN	Junction at 12 o'clock, diameter 100mm	7334876	Comment / 0
8.67	LL	Line of drain/sewer deviates left	7334877	Comment / 0
10.64	SA	Survey abandoned - Remark: DUE TO DRY SCALE IN LINE	7334878	Comment / 0

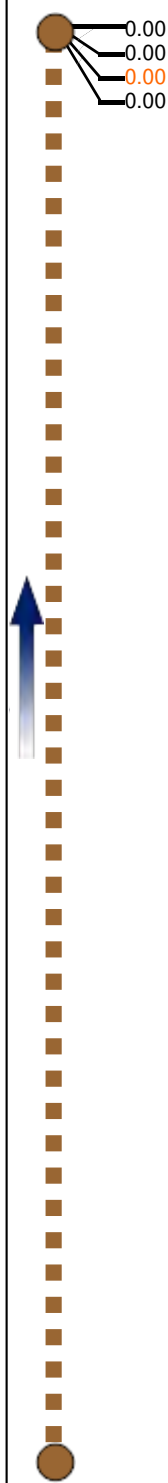
End Node Ref:D | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
 0.00 M Start node type, manhole, reference MH16			
 0.00 M Water level 5% height/diameter			
From: MH16 / To: D Size: 100mm  8.26 M Junction at 12 o'clock, diameter 100mm			
From: MH16 / To: D Size: 100mm  8.69 M Line of drain/sewer deviates left			
From: MH16 / To: D Size: 100mm  10.67 M Survey abandoned - Remark: DUE TO DRY SCALE IN LINE			

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) B X	Date 20/12/2022	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 4/0	Base Unit DJVV56JNNH	Section Number 67
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH15 End Node B Total length 4 metres	

 Scale **1:0.21**
 Direction **Upstream**

Start Node Ref:MH15 | I/L : metres | Depth: 1.24 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH15	7334879	Comment / 0
0.00	WL	Water level 5% height/diameter	7334880	Comment / 0
0.00	DER	Settled deposits coarse 25% cross-sectional area loss	7334881	Service / 4
0.00	SA	Survey abandoned - Remark: DUE TO DER	7334882	Comment / 0
				
End Node Ref:B I/L : metres				

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 20/12/2022
 0.00 M Start node type, manhole, reference MH15			
 0.00 M Water level 5% height/diameter			
From: MH15 / To: B Size: 100mm  0.00 M Settled deposits coarse 25% cross-sectional area loss			
From: MH15 / To: B Size: 100mm  0.00 M Survey abandoned - Remark: DUE TO DER			

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) MH25 X	Date 05/01/2023	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 3/0	Base Unit DJVV56JNNH	Section Number 68

Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA	Division District Location Details
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Purpose Duty Combined Catchment	Shape/Size 450mm Material Concrete Category	Start Node MH25 End Node MH26 Total length 64.32 metres
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Scale 1:3.38 Direction Downstream
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Start Node Ref:MH25 I/L : metres Depth: 3.3 metres					Photo	Type/Grade	
Position	Code	Description					
	0.00	MH	Start node type, manhole, reference MH25			7335473	Comment / 0
	0.00	WL	Water level 10% height/diameter			7335474	Comment / 0
	0.10	DER (S01)	Settled deposits coarse 10% cross-sectional area loss, Start			7335481	Service / 3
	8.10	CN	Connection other than junction at 2 o'clock, diameter 150mm			7335477	Comment / 0
	29.51	JN	Junction at 2 o'clock, diameter 150mm			7335489	Comment / 0
	52.66	CN	Connection other than junction at 2 o'clock, diameter 150mm			7335499	Comment / 0
	53.00	DER (F01)	Settled deposits coarse 10% cross-sectional area loss, Finished			7335502	Service / 3
	64.32	MHF	Finish node type, manhole, reference MH26			7335506	Comment / 0
End Node Ref:MH26 I/L : metres							

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 05/01/2023
 14:47:43 5-JAN-23 0.00m Start node type, manhole, reference MH25			
 14:47:43 5-JAN-23 0.00m Water level 10% height/diameter			
From: MH25 / To: MH26 Size: 450mm  14:49:05 5-JAN-23 13.46m Settled deposits coarse 10% cross-sectional area loss, Start			
From: MH25 / To: MH26 Size: 450mm  14:48:26 5-JAN-23 2.42m Connection other than junction at 2 o'clock, diameter 150mm			
From: MH25 / To: MH26 Size: 450mm  14:51:30 5-JAN-23 29.51m Junction at 2 o'clock, diameter 150mm			
From: MH25 / To: MH26 Size: 450mm  14:53:38 5-JAN-23 52.29m Connection other than junction at 2 o'clock, diameter 150mm			

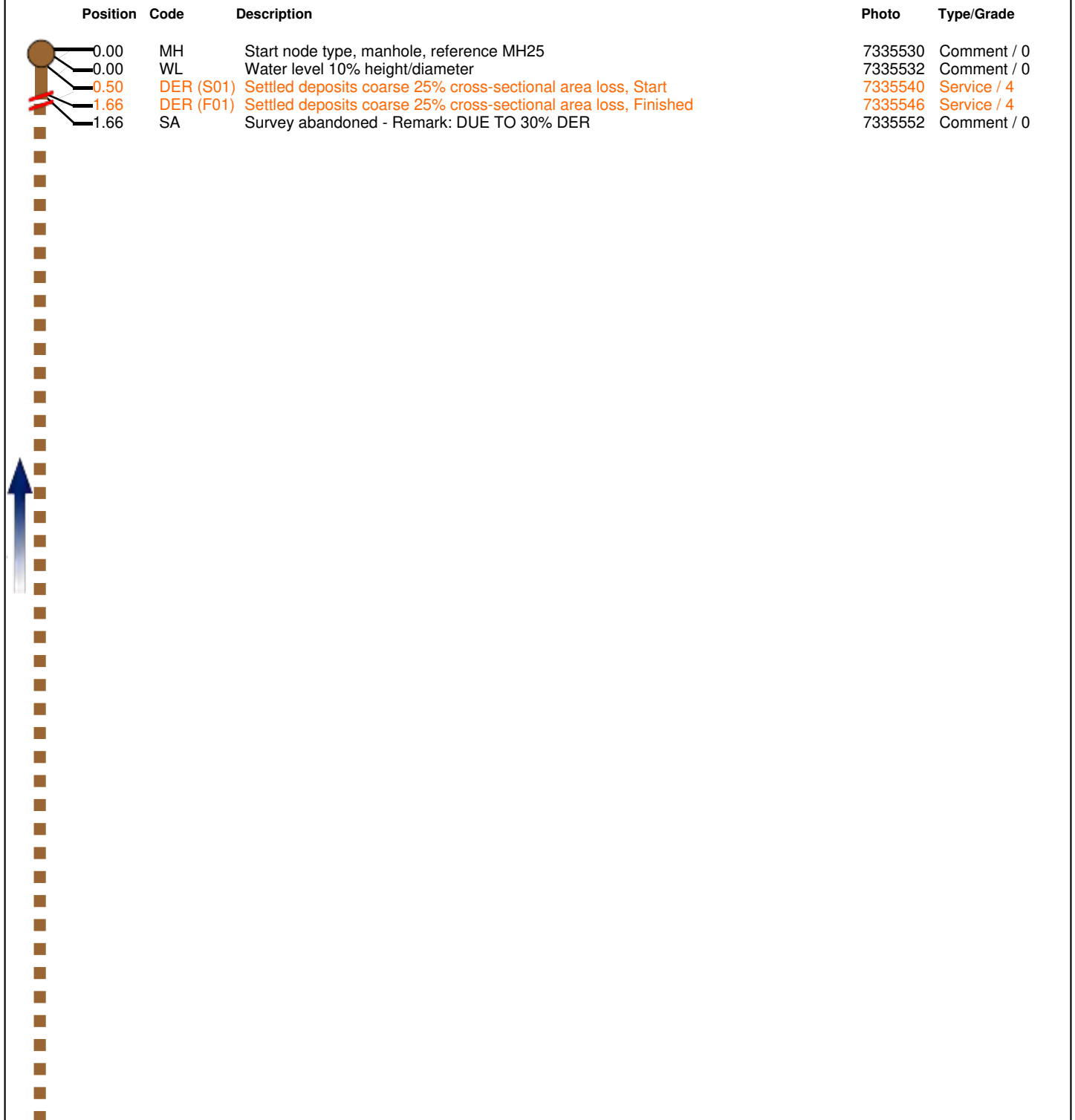
Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 05/01/2023
From: MH25 / To: MH26 Size: 450mm  14:53:58 5-JAN-23 52.66m Settled deposits coarse 10% cross-sectional area loss, Finished		From: MH25 / To: MH26 Size: 450mm  14:54:50 5-JAN-23 64.23m Finish node type, manhole, reference MH26	

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) MH25A X	Date 05/01/2023	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 4/0	Base Unit DJVV56JNNH	Section Number 69
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Combined Catchment	Shape/Size 450mm Material Concrete Category		Start Node MH25 End Node MH25A Total length 40 metres	

 Scale **1:2.10**
 Direction **Upstream**

Start Node Ref:MH25 | I/L : metres | Depth: 3.3 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH25	7335530	Comment / 0
0.00	WL	Water level 10% height/diameter	7335532	Comment / 0
0.50	DER (S01)	Settled deposits coarse 25% cross-sectional area loss, Start	7335540	Service / 4
1.66	DER (F01)	Settled deposits coarse 25% cross-sectional area loss, Finished	7335546	Service / 4
1.66	SA	Survey abandoned - Remark: DUE TO 30% DER	7335552	Comment / 0



End Node Ref:MH25A | I/L : metres

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 05/01/2023
 15:02:25 5-JAN-23 -35.22m Start node type, manhole, reference MH25			
 15:02:25 5-JAN-23 -35.22m Water level 10% height/diameter			
From: MH25 / To: MH25A Size: 450mm  15:02:36 5-JAN-23 0.44m Settled deposits coarse 25% cross-sectional area loss, Start			
From: MH25 / To: MH25A Size: 450mm  15:03:12 5-JAN-23 1.66m Settled deposits coarse 25% cross-sectional area loss, Finished			
From: MH25 / To: MH25A Size: 450mm  15:03:25 5-JAN-23 1.66m Survey abandoned - Remark: DUE TO 30% DER			

Surveyed by (Operator) Joe COLLINS	Job Number LAYERSERV0001556	Pipe Length Reference(PLR) MH29 X	Date 27/01/2023	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit DJVV56JNNH	Section Number 70
Road 53-57 Upper Brook St, Place Manchester, Location M13 9JA		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 100mm Material Vitrified clay Category		Start Node MH29 End Node MH28 Total length 47.93 metres	
Scale 1:2.52 Direction Downstream				

Start Node Ref:MH29 I/L : metres Depth: 1.23 metres					
	Position	Code	Description	Photo	Type/Grade
	0.00	MH	Start node type, manhole, reference MH29	7415943	Comment / 0
	0.00	WL	Water level 5% height/diameter	7415944	Comment / 0
	4.48	JN	Junction at 2 o'clock, diameter 100mm	7415945	Comment / 0
	6.88	JN	Junction at 9 o'clock, diameter 100mm	7415946	Comment / 0
	19.69	JN	Junction at 3 o'clock, diameter 100mm	7415986	Comment / 0
	21.50	JN	Junction at 9 o'clock, diameter 100mm	7415987	Comment / 0
	33.26	JN	Junction at 2 o'clock, diameter 100mm	7415988	Comment / 0
	36.57	JN	Junction at 10 o'clock, diameter 100mm	7415989	Comment / 0
	43.74	JN	Junction at 9 o'clock, diameter 100mm	7415990	Comment / 0
	44.71	WL (S01)	Water level 10% height/diameter - Remark: BELLY , Start	7415991	Comment / 0
	45.60	JN	Junction at 1 o'clock, diameter 100mm	7415992	Comment / 0
	46.81	WL (F01)	Water level 10% height/diameter - Remark: BELLY , Finished	7415993	Comment / 0
	47.93	MHF	Finish node type, manhole, reference MH28	7415994	Comment / 0
	End Node Ref:MH28 I/L : metres				



Job Number
LAYERSERV0001556

Surveyed by (Operator)
Joe COLLINS

Base Unit
DJVV56JNNH

Date
27/01/2023



Start node type, manhole, reference MH29



Water level 5% height/diameter



Junction at 2 o'clock, diameter 100mm



Junction at 9 o'clock, diameter 100mm



Junction at 3 o'clock, diameter 100mm



Junction at 9 o'clock, diameter 100mm

Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 27/01/2023
From: MH29 / To: MH28 Size: 100mm  33.21 M Junction at 2 o'clock, diameter 100mm			
From: MH29 / To: MH28 Size: 100mm  36.57 M Junction at 10 o'clock, diameter 100mm			
From: MH29 / To: MH28 Size: 100mm  43.74 M Junction at 9 o'clock, diameter 100mm			
From: MH29 / To: MH28 Size: 100mm  44.71 M Water level 10% height/diameter - Remark: BELLY , Start			
From: MH29 / To: MH28 Size: 100mm  45.60 M Junction at 1 o'clock, diameter 100mm			
From: MH29 / To: MH28 Size: 100mm  46.81 M Water level 10% height/diameter - Remark: BELLY , Finished			



Job Number LAYERSERV0001556	Surveyed by (Operator) Joe COLLINS	Base Unit DJVV56JNNH	Date 27/01/2023
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Finish node type, manhole, reference MH28



LAYER SURVEYS LTD

SEE THE COMPLETE PICTURE

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