Team Drainage UK
Peel House Peel Road, Skelmersdale
Tel. 01685 768 714
stuart.jones@teamdrainageuk.com

Project

Project Name: 2023_07_17 Echo Street Murrywood

Project Date: 17/07/2023

Inspection Standard: MSCC5 Sewers & Drainage GB (SRM5 Scoring)

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Project Information

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Client

Company: Murraywood Construction
Contact: Dermot Costello
Department: Senior Contracts Manager
Street: Endeavour House
Town or City: Abbotsfield Road
County: St Helens
Post Code: WA9 4HU
Phone: 01744850580
Email: Dermot.Costello@murraywood.com

Contractor

Company: Team Drainage UK
Description: Drainage Experts
Contact: Stuart Jones
Department: Managing Director
Street: Peel House Peel Road
Town or City: Skelmersdale
County: West Lancashire
Post Code: WN8 9PT
Phone: 01685 768 714
Mobile: 07815719235
Email: stuart.jones@teamdrainageuk.com

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Scoring Summary

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2023_07_17 Echo Street Murrywood		17/07/2023

Structural Defects

Grade 3: Best practice suggests consideration should be given to repairs in the medium term.

Grade 4: Best practice suggests consideration should be given to repairs to avoid a potential collapse.

Grade 5: Best practice suggests that this pipe is at risk of collapse at any time. Urgent consideration should be given to repairs to avoid total failure.

Section	PLR	Grade	Description
7	MH6711X	4	Multiple defects

Service / Operational Condition

Grade 3: Best practice suggests consideration should be given to maintenance activities in the medium term.

Grade 4: Best practice suggests consideration should be given to maintenance activity to avoid potential blockages.

Grade 5: Best practice suggests that this pipe is at a high risk of backing up or causing flooding.

Section	PLR	Grade	Description
1	LINE A X	4	Multiple defects
2	LINE A 2NDX	5	Other obstacles, brick or masonry in invert from 04 o'clock to 07 o'clock, 35% cross-sectional area loss
3	MH 6713X	5	Multiple defects
6	LINE A X	4	Joint displaced, large
7	MH6711X	5	Multiple defects

Abandoned Surveys

Section	PLR	Description
1	LINE A X	Survey abandoned
4	MH 6714X	Survey abandoned
5	LINE A X	Survey abandoned
8	LINE B X	Survey abandoned

Information

These scoring summaries are based on the SRM grading from the WRc.

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Section Profile

Project Name	Project Number	Project Date
2023_07_17 Echo Street Murrywood		17/07/2023

Circular, 150 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
6	LINE A	LAMPEYE	18/07/2023	Granby Row	Vitrified clay	4.17 m	4.17 m

Total: 1 Inspection x Circular 150 mm = 4.17 m Total Length and 4.17 m Inspected Length

Circular, 375 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
7	MH6711	MH6722	18/07/2023	Granby row	Vitrified clay	28.56 m	28.56 m

Total: 1 Inspection x Circular 375 mm = 28.56 m Total Length and 28.56 m Inspected Length

Circular, 950 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
3	MH 6713	MH 6714	17/07/2023	Granby row	Brick	63.80 m	63.80 m

Total: 1 Inspection x Circular 950 mm = 63.80 m Total Length and 63.80 m Inspected Length

U-Shaped with flat top, 770 mm, 500 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
2	LINE A 2ND	MH 7601	17/07/2023	Echo Street	Brick	52.12 m	52.12 m

Total: 1 Inspection x U-Shaped with flat top 770 mm, 500 mm = 52.12 m Total Length and 52.12 m Inspected Length

Total: 4 Inspections = 148.65 m Total Length and 148.65 m Inspected Length

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Section Summary

Project Name	Project Number	Project Date
2023_07_17 Echo Street Murrywood		17/07/2023

Number of sections	8
Total length of sections	246.08 m
Total length of inspected sections	246.08 m
Total length of not inspected sections	0.00 m
Number of abandoned inspections	4
Number of section inspection photos	68
Number of section inspection videos	8
Number of section inspection scans	0
Number of section inclination measurements	0

PLR:	LINE A X	**Upstream Node:**	LINE A
Inspection Direction:	Upstream	**Downstream Node:**	MH 7601
Inspected Length:	26.38 m	**Dia/Height:**	770 mm
Total Length:	26.38 m	**Material:**	Brick

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH 7601
2	0.00	WL	Water level, 5% of the vertical dimension
3	4.22	REM	General remark
4	8.53	DES	Settled deposits, fine, 10% cross-sectional area loss
5	12.97	CN	Connection other than junction at 10 o'clock, 225mm dia
6	19.52	CN	Connection other than junction at 10 o'clock, 225mm dia
7	21.97	DES	Settled deposits, fine, 20% cross-sectional area loss
8	25.31	CN	Connection other than junction at 11 o'clock, 150mm dia
9	25.31	DES	Settled deposits, fine, 25% cross-sectional area loss
10	26.38	SA	Survey abandoned

PLR:	LINE A 2NDX	**Upstream Node:**	LINE A 2ND
Inspection Direction:	Upstream	**Downstream Node:**	MH 7601
Inspected Length:	52.12 m	**Dia/Height:**	770 mm
Total Length:	52.12 m	**Material:**	Brick

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH 7601
2	0.00	WL	Water level, 5% of the vertical dimension
3	4.81	REM	General remark
4	13.61	CN	Connection other than junction at 10 o'clock, 225mm dia
5	14.96	MM	Missing mortar, between 5mm and 15mm at 09 o'clock
6	20.06	CN	Connection other than junction at 10 o'clock, 225mm dia

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Section Summary

Project Name	Project Number	Project Date
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No.	m+	Code	Observation
7	25.98	CN	Connection other than junction at 11 o'clock, 150mm dia
8	26.25	DES	Settled deposits, fine, 15% cross-sectional area loss
9	29.15	CN	Connection other than junction at 11 o'clock, 150mm dia
10	32.46	OBB	Other obstacles, brick or masonry in invert from 04 o'clock to 07 o'clock, 35% cross-sectional area loss
11	32.46	REM	General remark
12	37.67	CN	Connection other than junction at 11 o'clock, 150mm dia
13	45.31	CN	Connection other than junction at 02 o'clock, 150mm dia
14	45.31	CN	Connection other than junction at 11 o'clock, 150mm dia
15	46.96	DES	Settled deposits, fine, 25% cross-sectional area loss
16	52.12	OCF	Finish node, other special chamber, reference: LINE A 2ND

PLR:	MH 6713X	**Upstream Node:**	MH 6713
Inspection Direction:	Downstream	**Downstream Node:**	MH 6714
Inspected Length:	63.80 m	**Dia/Height:**	950 mm
Total Length:	63.80 m	**Material:**	Brick

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH 6713
2	0.00	WL	Water level, 20% of the vertical dimension
3	14.90	DES	Settled deposits, fine, 15% cross-sectional area loss
4	21.27	DES	Settled deposits, fine, 20% cross-sectional area loss
5	22.76	OBB	Other obstacles, brick or masonry in invert at 06 o'clock, 20% cross-sectional area loss
6	31.10	OBZ	Other obstacles from 05 o'clock to 06 o'clock, 10% cross-sectional area loss
7	63.80	MHF	Finish node, manhole, reference: MH 6714

PLR:	MH 6714X	**Upstream Node:**	MH 6714
Inspection Direction:	Downstream	**Downstream Node:**	LINE X
Inspected Length:	38.20 m	**Dia/Height:**	950 mm
Total Length:	38.20 m	**Material:**	Brick

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH 6714
2	0.00	WL	Water level, 10% of the vertical dimension
3	38.20	SA	Survey abandoned

PLR:	LINE A X	**Upstream Node:**	LINE A
Inspection Direction:	Upstream	**Downstream Node:**	MH 6713
Inspected Length:	30.71 m	**Dia/Height:**	950 mm
Total Length:	30.71 m	**Material:**	Brick

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH 6713
2	0.00	WL	Water level, 20% of the vertical dimension
3	30.71	SA	Survey abandoned

PLR:	LINE A X	**Upstream Node:**	LINE A
Inspection Direction:	Upstream	**Downstream Node:**	LAMPEYE
Inspected Length:	4.17 m	**Dia/Height:**	150 mm
Total Length:	4.17 m	**Material:**	Vitrified clay

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Section Summary

Project Name	Project Number	Project Date
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No.	m+	Code	Observation
1	0.00	LH	Start node, lamphole, reference: LAMPEYE
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.39	LL	Line deviates left
4	0.39	LU	Line deviates up
5	2.66	LU	Line deviates up
6	2.66	JDM	Joint displaced, medium
7	3.63	LR	Line deviates right
8	3.63	JDL	Joint displaced, large
9	4.17	GYF	Finish node, gully, reference: LINE A

PLR:	MH6711X	**Upstream Node:**	MH6711
Inspection Direction:	Upstream	**Downstream Node:**	MH6722
Inspected Length:	28.56 m	**Dia/Height:**	375 mm
Total Length:	28.56 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH6722
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.17	WL	Water level, 10% of the vertical dimension
4	2.12	JN	Junction at 09 o'clock, 150mm dia
5	2.51	BJ	Broken pipe at joint from 02 o'clock to 04 o'clock
6	4.97	WL	Water level, 5% of the vertical dimension
7	7.70	JN	Junction at 03 o'clock, 150mm dia
8	8.21	BJ	Broken pipe at joint from 12 o'clock to 12 o'clock
9	8.21	VV	Void visible beyond defect
10	10.61	OBZ	Other obstacles from 06 o'clock to 07 o'clock, 20% cross-sectional area loss
11	10.62	OJL	Open joint, large
12	10.62	VV	Void visible beyond defect
13	10.62	MCPVC	Pipe material changes to polyvinyl chloride at this point
14	11.04	LR	Line deviates right
15	11.88	OBZ	Other obstacles from 05 o'clock to 07 o'clock, 15% cross-sectional area loss
16	11.88	LL	Line deviates left
17	13.98	OBZ	Other obstacles from 04 o'clock to 08 o'clock, 30% cross-sectional area loss
18	19.10	JN	Junction at 09 o'clock, 150mm dia
19	19.40	BJ	Broken pipe at joint from 12 o'clock to 12 o'clock
20	19.67	DEZ	Attached deposits, other at 09 o'clock, 5% cross-sectional area loss
21	20.23	DEZ	Attached deposits, other from 04 o'clock to 07 o'clock, 10% cross-sectional area loss
22	23.32	CN	Connection other than junction at 02 o'clock, 225mm dia
23	24.23	DEZ	Attached deposits, other from 04 o'clock to 07 o'clock, 20% cross-sectional area loss
24	27.21	JXZ	Junction, other at 02 o'clock, 150mm dia
25	28.56	MHF	Finish node, manhole, reference: MH6711

PLR:	LINE B X	**Upstream Node:**	LINE B
Inspection Direction:	Upstream	**Downstream Node:**	MH6711
Inspected Length:	2.14 m	**Dia/Height:**	375 mm
Total Length:	2.14 m	**Material:**	Vitrified clay

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Section Summary

Project Name	Project Number	Project Date
2023_07_17 Echo Street Murrywood		17/07/2023

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH6711
2	0.00	WL	Water level, 5% of the vertical dimension
3	2.14	SA	Survey abandoned

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Project Summary

Project Name	Project Number	Project Date
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Pipe Summary

No.	Type	PLR	Upstream Node	Downstream Node	Road	Town	Use	Mat.	Profile	Length
1	SEC	LINE A X	LINE A	MH 7601	Echo Street	Manchester	F	BR	U-Shaped with flat top 770/500mm	26.38 m
2	SEC	LINE A 2NDX	LINE A 2ND	MH 7601	Echo Street	Manchester	F	BR	U-Shaped with flat top 770/500mm	52.12 m
3	SEC	MH 6713X	MH 6713	MH 6714	Granby Row	Manchester	S	BR	Circular 950mm	63.80 m
4	SEC	MH 6714X	MH 6714	LINE X	Granby Row	Manchester	S	BR	Circular 950mm	38.20 m
5	SEC	LINE A X	LINE A	MH 6713	Granby Row	Manchester	S	BR	Circular 950mm	30.71 m
6	SEC	LINE A X	LINE A	LAMPEYE	Granby Row	Manchester	F	VC	Circular 150mm	4.17 m
7	SEC	MH6711X	MH6711	MH6722	Granby Row	Manchester	F	VC	Circular 375mm	28.56 m
8	SEC	LINE B X	LINE B	MH6711	Granby Row	Manchester	F	VC	Circular 375mm	2.14 m
									Total:	**246.08 m**

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Section Inspection - 17/07/2023 - LINE A X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
1	1	17/07/23	10:46	Not Specified	Rain	Yes	LINE A X

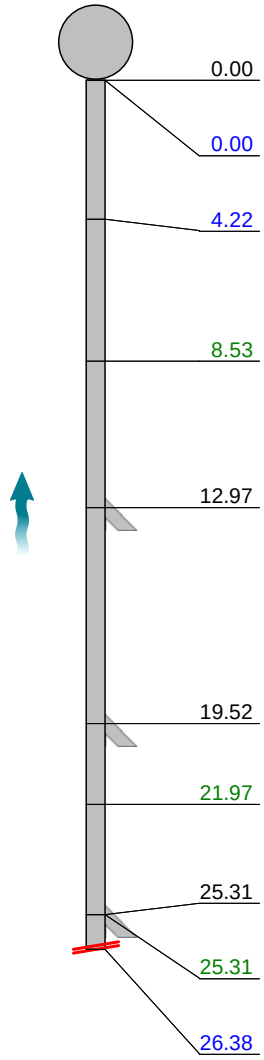
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
MIKE	VO13 CWW	Crawler	Not Specified	Not Specified	Not Specified

Town or Village:	Manchester	**Inspection Direction:**	Upstream	**Upstream Node:**	LINE A
Road:	Echo Street	**Inspected Length:**	26.38 m	**US Pipe Depth:**	
Location:	Road	**Total Length:**	26.38 m	**Downstream Node:**	MH 7601
Surface Type:	Asphalt Highway	**Joint Length:**		**DS Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	U-Shaped with flat top		
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	770 mm	**Width:**	500 mm
Flow Control:	No flow control	**Material:**	Brick		
Year Constructed:	Not Specified	**Lining Type:**	No Lining		
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining		

Comments:
Recommendations:

Scale: 1:229



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 7601: US LINE A	00:00:01		
0.00	WL	Water level, 5% of the vertical dimension	00:00:03	LINE A X_7a4f4d6 f-752e-4a8	
4.22	REM	General remark: BURIED MANHOLE NO LID	00:00:43	LINE A X_c8a0c2 24-e695-4	
8.53	DES	Settled deposits, fine, 10% cross-sectional area loss: BRICK N STONE	00:01:23	LINE A X_5350be ea-e6e5-4	3
12.97	CN	Connection other than junction at 10 o'clock, 225mm dia: VC EGG	00:02:13	LINE A X_d595bc 20-4e77-4	
19.52	CN	Connection other than junction at 10 o'clock, 225mm dia	00:03:02	LINE A X_1f4c68b e-4d7f-46d	
21.97	DES	Settled deposits, fine, 20% cross-sectional area loss: STONE N BRICK	00:03:28	LINE A X_270a0a 84-9673-4	4
25.31	CN	Connection other than junction at 11 o'clock, 150mm dia	00:05:33	LINE A X_3f42fa2 4-4b32-4b	
25.31	DES	Settled deposits, fine, 25% cross-sectional area loss	00:05:46	LINE A X_1350f6e 7-f18e-4c3	4
26.38	SA	Survey abandoned: ON SILT N STONE	00:08:47	LINE A X_f58353c e-032a-41	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	3	5.0	0.5	12.0	4.0

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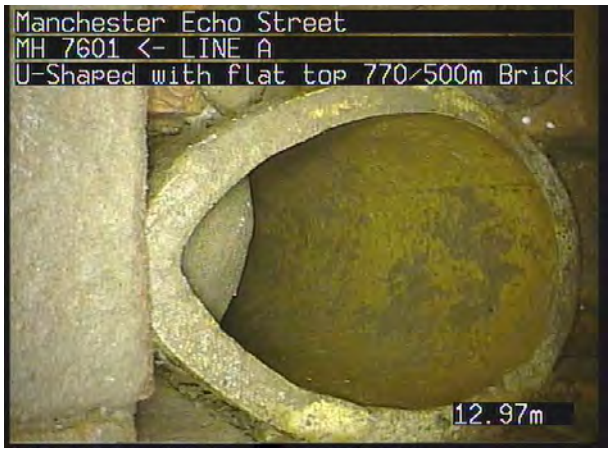
Section Pictures - 17/07/2023 - LINE A X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
1	Upstream	LINE A X		

LINE A
X_7a4f4d6f-752e-4a82-bda1-a23080269cca_20230717_104707_080.jpg, 00:00:03, 0.00 m
Water level, 5% of the vertical dimension

LINE A
X_c8a0c224-e695-4ad6-b4af-debe01c157fc_20230717_104815_819.jpg, 00:00:43, 4.22 m
General remark, BURIED MANHOLE NO LID

LINE A
X_5350beea-e6e5-429d-901b-f2beae4cb2f4_20230717_104914_399.jpg, 00:01:23, 8.53 m
Settled deposits, fine, 10% cross-sectional area loss, BRICK N STONE



LINE A
X_d595bc20-4e77-4bfa-853e-304072921cc7_20230717_105031_964.jpg, 00:02:13, 12.97 m
Connection other than junction at 10 o'clock, 225mm dia, VC EGG

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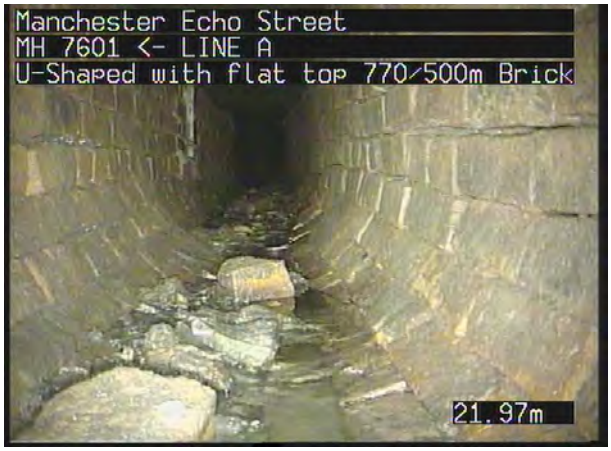
Section Pictures - 17/07/2023 - LINE A X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
1	Upstream	LINE A X		

LINE A
X_1f4c68be-4d7f-46d6-a618-db3a4450f03e_20230717_105132_599.jpg, 00:03:02, 19.52 m
Connection other than junction at 10 o'clock, 225mm dia



LINE A
X_270a0a84-9673-494f-8284-e51a4adb76ea_20230717_105214_410.jpg, 00:03:28, 21.97 m
Settled deposits, fine, 20% cross-sectional area loss, STONE N BRICK

LINE A
X_3f42fa24-4b32-4baf-ac52-75a5ba51614b_20230717_105427_629.jpg, 00:05:33, 25.31 m
Connection other than junction at 11 o'clock, 150mm dia

LINE A
X_1350f6e7-f18e-4c30-83de-8ed6a1d86ebb_20230717_105447_510.jpg, 00:05:46, 25.31 m
Settled deposits, fine, 25% cross-sectional area loss

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Section Pictures - 17/07/2023 - LINE A X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
1	Upstream	LINE A X		

LINE A
X_f58353ce-032a-4184-9e14-bdf1e89e6531_20230717_105802_683.jpg, 00:08:47, 26.38 m
Survey abandoned, ON SILT N STONE

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Section Inspection - 17/07/2023 - LINE A 2NDX

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
2	1	17/07/23	12:41	Not Specified	Rain	Yes	LINE A 2NDX

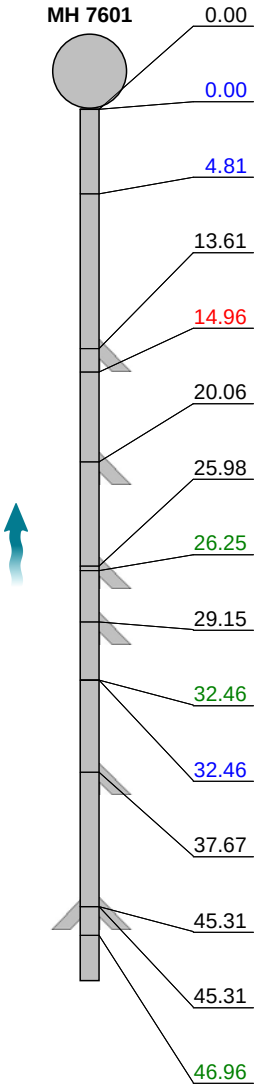
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
MIKE	VO13 CWW	Crawler	Not Specified	Not Specified	Not Specified

Town or Village:	Manchester	**Inspection Direction:**	Upstream	**Upstream Node:**	LINE A 2ND
Road:	Echo Street	**Inspected Length:**	52.12 m	**US Pipe Depth:**	
Location:	Road	**Total Length:**	52.12 m	**Downstream Node:**	MH 7601
Surface Type:	Asphalt Highway	**Joint Length:**		**DS Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	U-Shaped with flat top		
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	770 mm	**Width:**	500 mm
Flow Control:	No flow control	**Material:**	Brick		
Year Constructed:	Not Specified	**Lining Type:**	No Lining		
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining		

Comments:
Recommendations:

Scale: 1:429



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 7601: US LINE A 2ND ATTEMPT	00:00:01		
0.00	WL	Water level, 5% of the vertical dimension	00:00:03	LINE A 2NDX_4e5e1bfd-56a	
4.81	REM	General remark: BURIED MANHOLE NO LID	00:00:42	LINE A 2NDX_72aad229-d09	
13.61	CN	Connection other than junction at 10 o'clock, 225mm dia: EGG VC	00:01:36	LINE A 2NDX_4c24f6c7-ffb6-	
14.96	MM	Missing mortar, between 5mm and 15mm at 09 o'clock	00:02:08	LINE A 2NDX_97f47725-803	2
20.06	CN	Connection other than junction at 10 o'clock, 225mm dia	00:02:45	LINE A 2NDX_8f6a7a56-df0	
25.98	CN	Connection other than junction at 11 o'clock, 150mm dia	00:03:39	LINE A 2NDX_6abe0f08-012	
26.25	DES	Settled deposits, fine, 15% cross-sectional area loss: STONE NSILT	00:03:54	LINE A 2NDX_048f4e84-353	3
29.15	CN	Connection other than junction at 11 o'clock, 150mm dia	00:05:45	LINE A 2NDX_6a6d3177-ca9	
32.46	OBB	Other obstacles, brick or masonry in invert from 04 o'clock to 07 o'clock, 35% cross-sectional area loss	00:07:32	LINE A 2NDX_14d2c551-579	5
32.46	REM	General remark: BURIED MANHOLE NO LID	00:09:01	LINE A 2NDX_0f67b30e-fd9	
37.67	CN	Connection other than junction at 11 o'clock, 150mm dia	00:10:47	LINE A 2NDX_672b2ed2-a90	
45.31	CN	Connection other than junction at 02 o'clock, 150mm dia	00:11:37	LINE A 2NDX_b5cbccc8-cd7	
45.31	CN	Connection other than junction at 11 o'clock, 150mm dia	00:11:45	LINE A 2NDX_be57e9d6-ea5	
46.96	DES	Settled deposits, fine, 25% cross-sectional area loss	00:12:07	LINE A 2NDX_33b50735-a69	4

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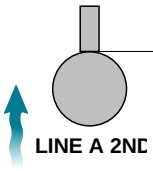
Section Inspection - 17/07/2023 - LINE A 2NDX

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
2	1	17/07/23	12:41	Not Specified	Rain	Yes	LINE A 2NDX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
MIKE	VO13 CWW	Crawler	Not Specified	Not Specified	Not Specified

Scale: 1:429



Position [m]	Code	Observation	MPEG	Photo	Grade
52.12	OCF	Finish node, other special chamber, reference: LINE A 2ND: CAPPED END	00:24:37	LINE A 2NDX_ac6685d6-fac	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	10.0	0.2	10.0	2.0	3	10.0	0.3	17.0	5.0

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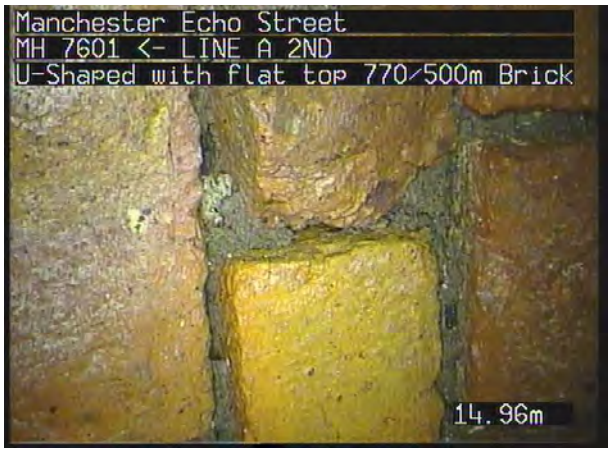
Section Pictures - 17/07/2023 - LINE A 2NDX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
2	Upstream	LINE A 2NDX		

LINE A
2NDX_4e5e1bfd-56a2-4a5f-9853-9e0d99b1fb99_20230717_124118_824.jpg, 00:00:03, 0.00 m
Water level, 5% of the vertical dimension

LINE A
2NDX_72aad229-d09f-4c65-9193-c3c745308ee3_20230717_124216_688.jpg, 00:00:42, 4.81 m
General remark, BURIED MANHOLE NO LID

LINE A
2NDX_4c24f6c7-ffb6-411c-abb9-565782ae4efc_20230717_124329_034.jpg, 00:01:36, 13.61 m
Connection other than junction at 10 o'clock, 225mm dia, EGG VC



LINE A
2NDX_97f47725-8038-4c76-8201-865f9627aaa3_20230717_124417_010.jpg, 00:02:08, 14.96 m
Missing mortar, between 5mm and 15mm at 09 o'clock

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Section Pictures - 17/07/2023 - LINE A 2NDX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
2	Upstream	LINE A 2NDX		

LINE A
2NDX_8f6a7a56-df09-4f09-a727-39e1557c3611_20230717_124528_952.jpg, 00:02:45, 20.06 m
Connection other than junction at 10 o'clock, 225mm dia

LINE A
2NDX_6abe0f08-0129-4271-9e56-47bc61c8b2ab_20230717_124631_366.jpg, 00:03:39, 25.98 m
Connection other than junction at 11 o'clock, 150mm dia

LINE A
2NDX_048f4e84-3533-4ece-b2e2-b7602a37bc85_20230717_124706_211.jpg, 00:03:54, 26.25 m
Settled deposits, fine, 15% cross-sectional area loss, STONE NSILT

LINE A
2NDX_6a6d3177-ca9d-4338-b095-2fee5614ffd7_20230717_124902_822.jpg, 00:05:45, 29.15 m
Connection other than junction at 11 o'clock, 150mm dia

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Section Pictures - 17/07/2023 - LINE A 2NDX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
2	Upstream	LINE A 2NDX		

LINE A
2NDX_14d2c551-5794-427a-b58b-3bd3f292be7a_20230717_125116_965.jpg, 00:07:32, 32.46 m
Other obstacles, brick or masonry in invert from 04 o'clock to 07 o'clock, 35% cross-sectional area loss

LINE A
2NDX_0f67b30e-fd9b-496a-92bf-a2917fef1d4c_20230717_125301_977.jpg, 00:09:01, 32.46 m
General remark, BURIED MANHOLE NO LID

LINE A
2NDX_672b2ed2-a908-4c38-8c6b-618fc1ecfb66_20230717_125454_647.jpg, 00:10:47, 37.67 m
Connection other than junction at 11 o'clock, 150mm dia

LINE A
2NDX_b5cbccc8-cd79-4971-8270-115101e578cc_20230717_125551_650.jpg, 00:11:37, 45.31 m
Connection other than junction at 02 o'clock, 150mm dia

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Section Pictures - 17/07/2023 - LINE A 2NDX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
2	Upstream	LINE A 2NDX		

LINE A
2NDX_be57e9d6-ea52-4e9a-86f1-f9aa1cefe8f1_20230717_125606_134.jpg, 00:11:45, 45.31 m
Connection other than junction at 11 o'clock, 150mm dia

LINE A
2NDX_33b50735-a69f-4a53-95bc-5c75659f7b33_20230717_125635_921.jpg, 00:12:07, 46.96 m
Settled deposits, fine, 25% cross-sectional area loss

LINE A
2NDX_ac6685d6-facc-4cc7-843f-db48eacf1117_20230717_130916_805.jpg, 00:24:37, 52.12 m
Finish node, other special chamber, reference: LINE A 2ND, CAPPED END

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Section Inspection - 17/07/2023 - MH 6713X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
3	1	17/07/23	14:08	Not Specified	Rain	Yes	MH 6713X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
MIKE	VO13 CWW	Crawler	Not Specified	Not Specified	Not Specified

Town or Village:	Manchester	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 6713
Road:	Granby Row	**Inspected Length:**	63.80 m	**US Pipe Depth:**	
Location:	Road	**Total Length:**	63.80 m	**Downstream Node:**	MH 6714
Surface Type:	Asphalt Highway	**Joint Length:**		**DS Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	950 mm
Flow Control:	No flow control	**Material:**	Brick
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:553

Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH 6713					
0.00	MH	Start node, manhole, reference: MH 6713: DS TO MH 6714	00:00:01		
0.00	WL	Water level, 20% of the vertical dimension	00:00:04	MH 6713X_ab 701b4e-84	
14.90	DES	Settled deposits, fine, 15% cross-sectional area loss	00:01:12	MH 6713X_61 3f8e99-05	3
21.27	DES	Settled deposits, fine, 20% cross-sectional area loss	00:01:41	MH 6713X_89 06f02f-ce2	4
22.76	OBB	Other obstacles, brick or masonry in invert at 06 o'clock, 20% cross-sectional area loss	00:03:08	MH 6713X_78 8a78cf-8a	5
31.10	OBZ	Other obstacles from 05 o'clock to 06 o'clock, 10% cross-sectional area loss: PIECE OF TARMAC	00:04:19	MH 6713X_a1 e33c7e-6e	5
63.80	MHF	Finish node, manhole, reference: MH 6714	00:07:05	MH 6713X_9c e91352-b9	
MH 6714 Depth: m					

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	4	10.0	0.4	27.0	5.0

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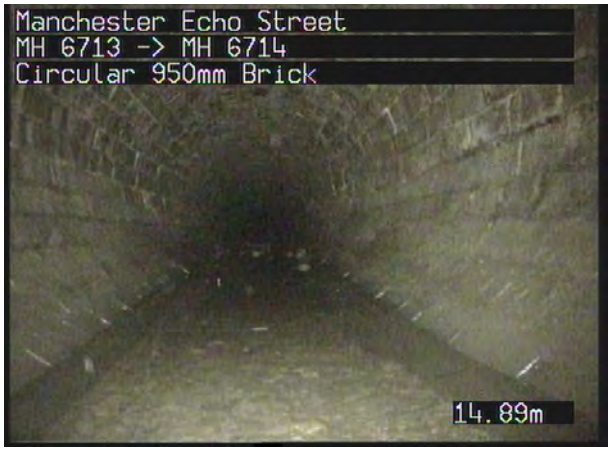
Section Pictures - 17/07/2023 - MH 6713X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
3	Downstream	MH 6713X		

MH
6713X_ab701b4e-8436-4255-a2c0-0e9bc589ab84_20230717_140857_586.jpg, 00:00:04, 0.00 m
Water level, 20% of the vertical dimension



MH
6713X_613f8e99-0517-4a19-a1ff-ee0e771b08de_20230717_141011_224.jpg, 00:01:12, 14.90 m
Settled deposits, fine, 15% cross-sectional area loss

MH
6713X_8906f02f-ce2e-4482-b2a9-311778d20603_20230717_141045_442.jpg, 00:01:41, 21.27 m
Settled deposits, fine, 20% cross-sectional area loss

MH
6713X_788a78cf-8aa5-4dda-99ae-20ba25fd7099_20230717_141233_612.jpg, 00:03:08, 22.76 m
Other obstacles, brick or masonry in invert at 06 o'clock, 20% cross-sectional area loss

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Section Pictures - 17/07/2023 - MH 6713X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
3	Downstream	MH 6713X		

MH
6713X_a1e33c7e-6ee3-4ae8-9263-8819fb3a78da_20230717_141424_346.jpg, 00:04:19, 31.10 m
Other obstacles from 05 o'clock to 06 o'clock, 10% cross-sectional area loss, PIECE OF TARMAC

MH
6713X_9ce91352-b92b-42e0-80f4-d611e9deeb8e_20230717_141718_632.jpg, 00:07:05, 63.80 m
Finish node, manhole, reference: MH 6714

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Section Inspection - 17/07/2023 - MH 6714X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
4	1	17/07/23	14:18	Not Specified	Rain	Yes	MH 6714X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
MIKE	VO13 CWW	Crawler	Not Specified	Not Specified	Not Specified

Town or Village:	Manchester	**Inspection Direction:**	Downstream	**Upstream Node:**	MH 6714
Road:	Granby Row	**Inspected Length:**	38.20 m	**Upstream Pipe Depth:**	
Location:	Road	**Total Length:**	38.20 m	**Downstream Node:**	LINE X
Surface Type:	Asphalt Highway	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	950 mm
Flow Control:	No flow control	**Material:**	Brick
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:331	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH 6714						
	0.00	MH	Start node, manhole, reference: MH 6714: DS LINE X	00:00:01		
	0.00	WL	Water level, 10% of the vertical dimension	00:00:03	MH 6714X_a5 27af0a-b0	
	38.20	SA	Survey abandoned: OFF BOUNDRY LINE	00:02:37	MH 6714X_b2 d108cc-3c	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Pictures - 17/07/2023 - MH 6714X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
4	Downstream	MH 6714X		

MH
6714X_a527af0a-b09e-46ec-98d4-a8c2dfa3826c_20230717_141915_249.jpg, 00:00:03, 0.00 m
Water level, 10% of the vertical dimension

MH
6714X_b2d108cc-3c43-4efa-bb00-41c72b0d2543_20230717_142206_134.jpg, 00:02:37, 38.20 m
Survey abandoned, OFF BOUNDRY LINE

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Section Inspection - 17/07/2023 - LINE A X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
5	1	17/07/23	14:40	Not Specified	Rain	Yes	LINE A X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
MIKE	VO13 CWW	Crawler	Not Specified	Not Specified	Not Specified

Town or Village:	Manchester	**Inspection Direction:**	Upstream	**Upstream Node:**	LINE A
Road:	Granby Row	**Inspected Length:**	30.71 m	**US Pipe Depth:**	
Location:	Road	**Total Length:**	30.71 m	**Downstream Node:**	MH 6713
Surface Type:	Asphalt Highway	**Joint Length:**		**DS Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	950 mm
Flow Control:	No flow control	**Material:**	Brick
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:266

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH 6713: US LINE A TO OFF THE BOUNDRY	00:00:01		
0.00	WL	Water level, 20% of the vertical dimension	00:00:03	LINE A X_01c33be5-eabc-4	
30.71	SA	Survey abandoned: OFF BOUNDRY LINE	00:02:19	LINE A X_19a71d37-7c20-4	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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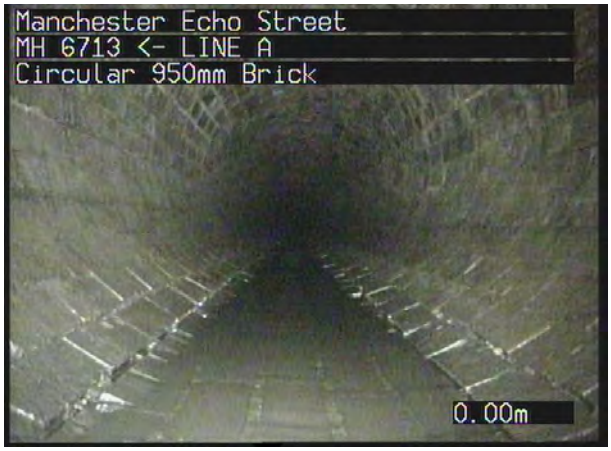
Section Pictures - 17/07/2023 - LINE A X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
5	Upstream	LINE A X		



LINE A
X_01c33be5-eabc-4e22-a986-1e5e502cf143_20230717_144014_262.jpg, 00:00:03, 0.00 m
Water level, 20% of the vertical dimension

LINE A
X_19a71d37-7c20-4af1-baeb-885d4d70f085_20230717_144245_222.jpg, 00:02:19, 30.71 m
Survey abandoned, OFF BOUNDRY LINE

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Section Inspection - 18/07/2023 - LINE A X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
6	1	18/07/23	10:26	Not Specified	Rain	Yes	LINE A X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
MIKE	VO13 CWW	Crawler	Not Specified	Not Specified	Not Specified

Town or Village:	Manchester	**Inspection Direction:**	Upstream	**Upstream Node:**	LINE A
Road:	Granby Row	**Inspected Length:**	4.17 m	**US Pipe Depth:**	
Location:	Road	**Total Length:**	4.17 m	**Downstream Node:**	LAMPEYE
Surface Type:	Asphalt Highway	**Joint Length:**		**DS Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50 Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	LH	Start node, lamphole, reference: LAMPEYE: US LINE A	00:00:02		
0.00	WL	Water level, 5% of the vertical dimension	00:00:03	LINE A X_8f9a27b b-62ca-4cf	
0.39	LL	Line deviates left	00:00:15	LINE A X_83d8cf4 1-2026-4e	
0.39	LU	Line deviates up	00:00:16	LINE A X_cd60ad 08-4552-4	
2.66	LU	Line deviates up	00:00:28	LINE A X_85c096 18-66b1-4	
2.66	JDM	Joint displaced, medium	00:00:30	LINE A X_e83d5d 0e-b85d-4	1 / 3
3.63	LR	Line deviates right	00:00:45	LINE A X_9b2ea6 9f-8408-4b	
3.63	JDL	Joint displaced, large	00:00:48	LINE A X_e7d89ef 1-3036-4fe	1 / 4
4.17	GYF	Finish node, gully, reference: LINE A: GULLY TRAP	00:01:09	LINE A X_b623f23 0-8670-42f	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
2	2.0	0.7	3.0	1.0	2	5.0	1.7	7.0	4.0

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Section Pictures - 18/07/2023 - LINE A X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
6	Upstream	LINE A X		

LINE A
X_8f9a27bb-62ca-4cf3-85bf-7fc34367e498_20230718_102637_718.jpg, 00:00:03, 0.00 m
Water level, 5% of the vertical dimension

LINE A
X_83d8cf41-2026-4e8f-abae-7f84a1be78ba_20230718_102654_487.jpg, 00:00:15, 0.39 m
Line deviates left

LINE A
X_cd60ad08-4552-4b50-a58e-7e1d777acc8a_20230718_102653_269.jpg, 00:00:16, 0.39 m
Line deviates up

LINE A
X_85c09618-66b1-4316-b75e-7aa76ab088d5_20230718_102713_325.jpg, 00:00:28, 2.66 m
Line deviates up

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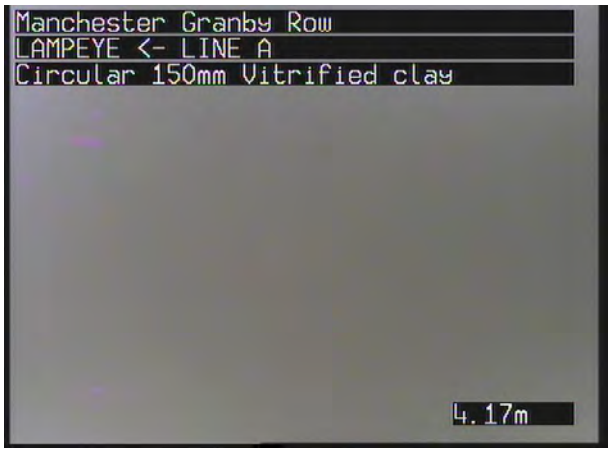
Section Pictures - 18/07/2023 - LINE A X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
6	Upstream	LINE A X		

LINE A
X_e83d5d0e-b85d-4e82-85ed-4c2053a91ff6_20230718_102714_115.jpg, 00:00:30, 2.66 m
Joint displaced, medium

LINE A
X_9b2ea69f-8408-4bd3-a7da-bb8931d14aa4_20230718_102730_868.jpg, 00:00:45, 3.63 m
Line deviates right

LINE A
X_e7d89ef1-3036-4fef-a44e-82615515e760_20230718_102736_562.jpg, 00:00:48, 3.63 m
Joint displaced, large



LINE A
X_b623f230-8670-42f0-add6-9c192bfb42a2_20230718_102807_644.jpg, 00:01:09, 4.17 m
Finish node, gully, reference: LINE A, GULLY TRAP

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Section Inspection - 18/07/2023 - MH6711X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
7	1	18/07/23	11:50	Not Specified	Rain	Yes	MH6711X

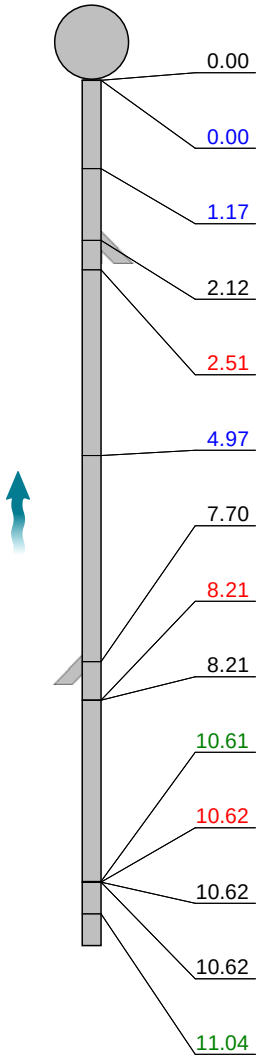
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
MIKE	VO13 CWW	Crawler	Not Specified	Not Specified	Not Specified

Town or Village:	Manchester	**Inspection Direction:**	Upstream	**Upstream Node:**	MH6711
Road:	Granby Row	**Inspected Length:**	28.56 m	**US Pipe Depth:**	
Location:	Road	**Total Length:**	28.56 m	**Downstream Node:**	MH6722
Surface Type:	Asphalt Highway	**Joint Length:**		**DS Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	375 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:100



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH6722: US TO MH6711	00:00:01		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02	MH6711X_665136cc-919f-4a2c	
1.17	WL	Water level, 10% of the vertical dimension	00:00:17	MH6711X_4887714 6-9bc1-41	
2.12	JN	Junction at 09 o'clock, 150mm dia	00:00:29	MH6711X_e4dfaa13-8daa-402	
2.51	BJ	Broken pipe at joint from 02 o'clock to 04 o'clock	00:00:47	MH6711X_c14feb4c-a9ec-450	4
4.97	WL	Water level, 5% of the vertical dimension	00:01:05	MH6711X_2bbe285a-c8cb-43	
7.70	JN	Junction at 03 o'clock, 150mm dia	00:01:24	MH6711X_ee74eb02-5856-4f5	
8.21	BJ	Broken pipe at joint from 12 o'clock to 12 o'clock	00:01:45	MH6711X_4194830b-2646-4c	4
8.21	VV	Void visible beyond defect	00:01:49	MH6711X_dec4dd89-6f8b-49a	
10.61	OBZ	Other obstacles from 06 o'clock to 07 o'clock, 20% cross-sectional area loss: CONCRETE	00:02:33	MH6711X_18627ed7-fa88-496	5
10.62	OJL	Open joint, large	00:02:41	MH6711X_ed51d130-f2d9-42c	1
10.62	VV	Void visible beyond defect	00:02:45	MH6711X_7c12078a-cc50-4b	
10.62	MCPVC	Pipe material changes to polyvinyl chloride at this point	00:02:55	MH6711X_beefbb52-6744-468	
11.04	LR	Line deviates right	00:03:02	MH6711X_4480029e-3ef1-42c	

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Section Inspection - 18/07/2023 - MH6711X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
7	1	18/07/23	11:50	Not Specified	Rain	Yes	MH6711X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
MIKE	VO13 CWW	Crawler	Not Specified	Not Specified	Not Specified

Scale: 1:100 Position [m]	Code	Observation	MPEG	Photo	Grade
11.88	OBZ	Other obstacles from 05 o'clock to 07 o'clock, 15% cross-sectional area loss: CONCRETE	00:03:12	MH6711X_85357160-4bc6-40	5
11.88	LL	Line deviates left	00:03:16	MH6711X_d0cd7441-7a70-40	
13.98	OBZ	Other obstacles from 04 o'clock to 08 o'clock, 30% cross-sectional area loss: CONCRETE	00:03:34	MH6711X_ccf1d9c3-8408-459e	5
19.10	JN	Junction at 09 o'clock, 150mm dia	00:05:45	MH6711X_fa476d7c-e33d-413	
19.40	BJ	Broken pipe at joint from 12 o'clock to 12 o'clock	00:06:15	MH6711X_933ac639-f2e9-428	4
19.67	DEZ	Attached deposits, other at 09 o'clock, 5% cross-sectional area loss: CONCRETE	00:06:30	MH6711X_55bc5f45-bd57-4db	3
20.23	DEZ	Attached deposits, other from 04 o'clock to 07 o'clock, 10% cross-sectional area loss: CONCRETE	00:06:41	MH6711X_d5c9e128-2e23-44	3
23.32	CN	Connection other than junction at 02 o'clock, 225mm dia	00:07:19	MH6711X_7201a499-521a-46	
24.23	DEZ	Attached deposits, other from 04 o'clock to 07 o'clock, 20% cross-sectional area loss: CONCRETE	00:07:34	MH6711X_59fe7c64-8d6d-46d	3
27.21	JXZ	Junction, other at 02 o'clock, 150mm dia: CONCRETE COMING FROM JUNCTION	00:07:56	MH6711X_19de32e6-c3e9-48	
28.56	MHF	Finish node, manhole, reference: MH6711	00:08:21	MH6711X_f5eb8ef0-e23a-47c7	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
4	80.0	8.5	242.0	4.0	6	10.0	1.3	36.0	5.0

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Section Pictures - 18/07/2023 - MH6711X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	Upstream	MH6711X		

MH6711X_665136cc-919f-4a2c-8dd5-025d4d30ea0d_20230718_115011_487.jpg, 00:00:02, 0.00 m
Water level, 5% of the vertical dimension

MH6711X_48877146-9bc1-418d-a4c0-126d9dfa3414_20230718_115027_501.jpg, 00:00:17, 1.17 m
Water level, 10% of the vertical dimension

MH6711X_e4dfaa13-8daa-4022-b960-b2f4b1205e42_20230718_115046_229.jpg, 00:00:29, 2.12 m
Junction at 09 o'clock, 150mm dia

MH6711X_c14feb4c-a9ec-450a-93ac-521bec3bd889_20230718_115111_329.jpg, 00:00:47, 2.51 m
Broken pipe at joint from 02 o'clock to 04 o'clock

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Section Pictures - 18/07/2023 - MH6711X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	Upstream	MH6711X		

MH6711X_2bbe285a-c8cb-437b-a62b-d3c48068656a_20230718_115132_087.jpg, 00:01:05, 4.97 m
Water level, 5% of the vertical dimension

MH6711X_ee74eb02-5856-4f5e-ba34-1166509d1127_20230718_115156_785.jpg, 00:01:24, 7.70 m
Junction at 03 o'clock, 150mm dia

MH6711X_4194830b-2646-4cd5-b88a-7ae2284d648e_20230718_115225_973.jpg, 00:01:45, 8.21 m
Broken pipe at joint from 12 o'clock to 12 o'clock

MH6711X_dec4dd89-6f8b-49ac-afbc-482d24593ba9_20230718_115230_455.jpg, 00:01:49, 8.21 m
Void visible beyond defect

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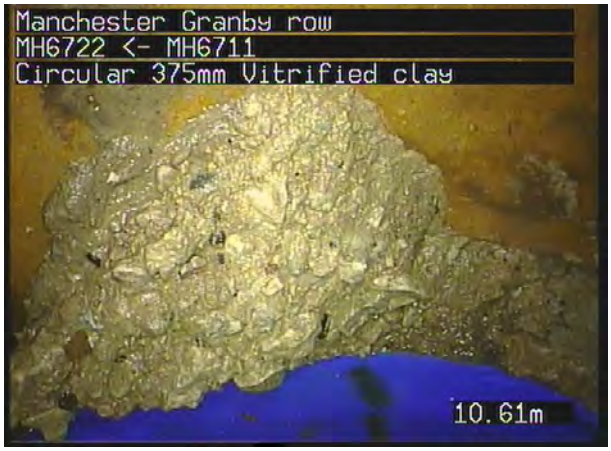
Section Pictures - 18/07/2023 - MH6711X

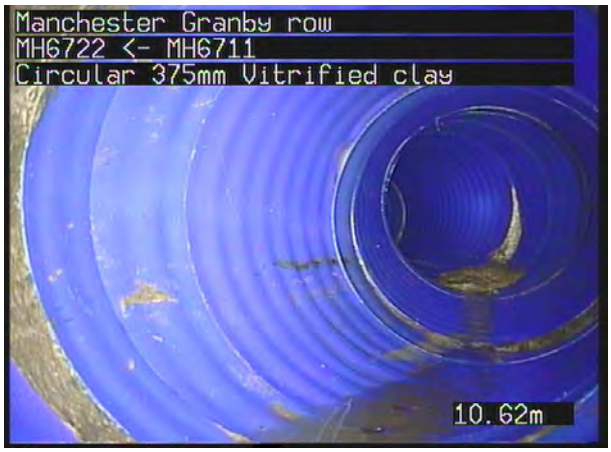
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	Upstream	MH6711X		



MH6711X_18627ed7-fa88-4966-898e-cf427f35350c_20230718_115342_972.jpg, 00:02:33, 10.61 m
Other obstacles from 06 o'clock to 07 o'clock, 20% cross-sectional area loss, CONCRETE

MH6711X_ed51d130-f2d9-42cf-a06b-123c7563c678_20230718_115355_765.jpg, 00:02:41, 10.62 m
Open joint, large

MH6711X_7c12078a-cc50-4b70-8bd7-e067bc56a60d_20230718_115400_760.jpg, 00:02:45, 10.62 m
Void visible beyond defect



MH6711X_beefbb52-6744-4688-80d0-1fd9b7b21494_20230718_115415_508.jpg, 00:02:55, 10.62 m
Pipe material changes to polyvinyl chloride at this point

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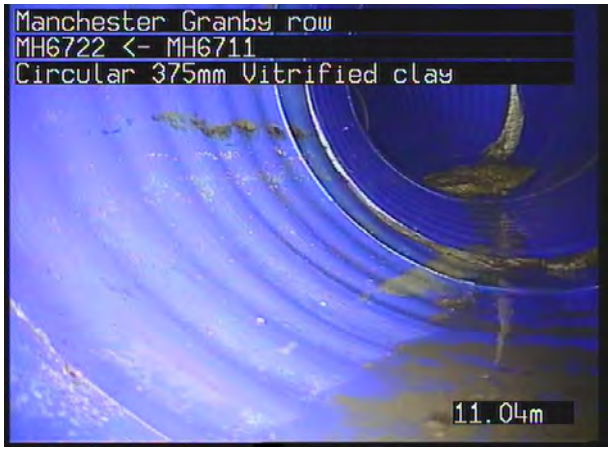
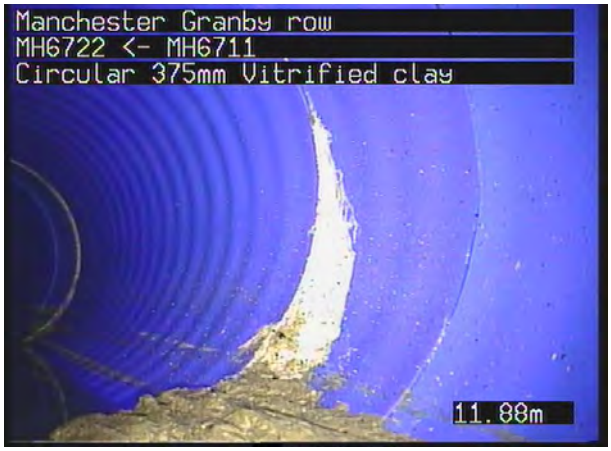
Section Pictures - 18/07/2023 - MH6711X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	Upstream	MH6711X		



MH6711X_4480029e-3ef1-42c4-8b16-6c9c30b20e4c_20230718_115425_171.jpg, 00:03:02, 11.04 m
Line deviates right



MH6711X_85357160-4bc6-40ca-a651-38927401ca5d_20230718_115545_525.jpg, 00:03:12, 11.88 m
Other obstacles from 05 o'clock to 07 o'clock, 15% cross-sectional area loss, CONCRETE

MH6711X_d0cd7441-7a70-40d8-9414-5019e0961be7_20230718_115551_290.jpg, 00:03:16, 11.88 m
Line deviates left

MH6711X_ccf1d9c3-8408-459e-adef-588497a06963_20230718_115637_060.jpg, 00:03:34, 13.98 m
Other obstacles from 04 o'clock to 08 o'clock, 30% cross-sectional area loss, CONCRETE

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Section Pictures - 18/07/2023 - MH6711X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	Upstream	MH6711X		

MH6711X_fa476d7c-e33d-4136-9587-b13d9317a760_20230718_115915_685.jpg, 00:05:45, 19.10 m
Junction at 09 o'clock, 150mm dia

MH6711X_933ac639-f2e9-428c-bb4d-c3b1e01c25b2_20230718_115951_427.jpg, 00:06:15, 19.40 m
Broken pipe at joint from 12 o'clock to 12 o'clock

MH6711X_55bc5f45-bd57-4dbc-92d4-6759f58b6a2f_20230718_120059_276.jpg, 00:06:30, 19.67 m
Attached deposits, other at 09 o'clock, 5% cross-sectional area loss, CONCRETE

MH6711X_d5c9e128-2e23-44c6-8aa5-0bb95df380d9_20230718_120130_540.jpg, 00:06:41, 20.23 m
Attached deposits, other from 04 o'clock to 07 o'clock, 10% cross-sectional area loss, CONCRETE

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Section Pictures - 18/07/2023 - MH6711X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	Upstream	MH6711X		

MH6711X_7201a499-521a-46db-af01-6402e3fec686_20230718_120219_418.jpg, 00:07:19, 23.32 m
Connection other than junction at 02 o'clock, 225mm dia

MH6711X_59fe7c64-8d6d-46d2-bdf0-cf9b3594be25_20230718_120249_679.jpg, 00:07:34, 24.23 m
Attached deposits, other from 04 o'clock to 07 o'clock, 20% cross-sectional area loss, CONCRETE

MH6711X_19de32e6-c3e9-482d-8f31-9d2adaa55481_20230718_120350_394.jpg, 00:07:56, 27.21 m
Junction, other at 02 o'clock, 150mm dia, CONCRETE
COMING FROM JUNCTION

MH6711X_f5eb8ef0-e23a-47c7-a54e-6493bf9cd807_20230718_120421_809.jpg, 00:08:21, 28.56 m
Finish node, manhole, reference: MH6711

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Section Inspection - 18/07/2023 - LINE B X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
8	1	18/07/23	12:06	Not Specified	Rain	Yes	LINE B X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
MIKE	VO13 CWW	Crawler	Not Specified	Not Specified	Not Specified

Town or Village:	Manchester	**Inspection Direction:**	Upstream	**Upstream Node:**	LINE B
Road:	Granby Row	**Inspected Length:**	2.14 m	**US Pipe Depth:**	
Location:	Road	**Total Length:**	2.14 m	**Downstream Node:**	MH6711
Surface Type:	Asphalt Highway	**Joint Length:**		**DS Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	375 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: MH6711: US LINE B	00:00:01		
0.00	WL	Water level, 5% of the vertical dimension	00:00:02	LINE B X_5b4169 4c-3e60-4	
2.14	SA	Survey abandoned: CAPPED OFF	00:00:18	LINE B X_7196bd 35-6026-4	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

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Section Pictures - 18/07/2023 - LINE B X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
8	Upstream	LINE B X		

LINE B
X_5b41694c-3e60-4972-a635-b80a3dbac6ad_20230718_120614_060.jpg, 00:00:02, 0.00 m
Water level, 5% of the vertical dimension

LINE B
X_7196bd35-6026-475a-9265-815fdb7a4472_20230718_120640_878.jpg, 00:00:18, 2.14 m
Survey abandoned, CAPPED OFF

CCTV & Jet Vac - Echo St,

Client: Eric Wright Civil Engineering Ltd

Job

Job Reference	**J-01502**	Client Reference	**Echo St,**
Job Title	**CCTV & Jet Vac**		
Job Description	**Attend site to carry out the cleaning & survey of the drainage system as highlighted on site. completing all the lines in the Green section and completing manhole card for each manhole. Take before & after photos of all the work Carried out.**		
Job Status	**Quoted**		
Entry Date	**17/07/23 07:23**	Required Completion Date	**18/07/23 16:23**

Site

Site Name	**Echo St,**	Contact	
Address	**17 Echo St, Manchester M1 3AL, M1 3AL**		
Telephone		Email	

Travel

User	Travel Start Time	Travel Stop Time	Travel Time
Tony Jones	**17 Jul 2023 11:26** **18 Jul 2023 07:18**	**17 Jul 2023 11:26** **19 Jul 2023 07:10**	**0m** **23h 51m**
		Total	**23h 51m**
Mike Talbot	**18 Jul 2023 13:53**	**18 Jul 2023 13:53**	**0m**
		Total Travel Time	**23h 51m**

Assignees

User	Job Start Time	Job Stop Time	Time
Tony Jones	**17 Jul 2023 11:26**	**18 Jul 2023 07:18**	**19h 51m**
Mike Talbot	**18 Jul 2023 13:53**	**19 Jul 2023 07:33**	**17h 40m**
		Total Job Time	**1d 13h 31m**

Job Images

Mh6713
18 Jul 2023 13:55

Mh6713
18 Jul 2023 13:55

Mh6714
18 Jul 2023 13:55

Mh6722
18 Jul 2023 13:55

Mh6711
18 Jul 2023 13:55

Mh6722
18 Jul 2023 13:55

Mh6713
18 Jul 2023 13:55

Mh6711
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Mh7601
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Mh7601
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Mh6714
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Mh7601
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Mh7601
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Mh6714
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mh6722
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Mh6714
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Mh6722
18 Jul 2023 13:56

Mh6714
18 Jul 2023 13:56

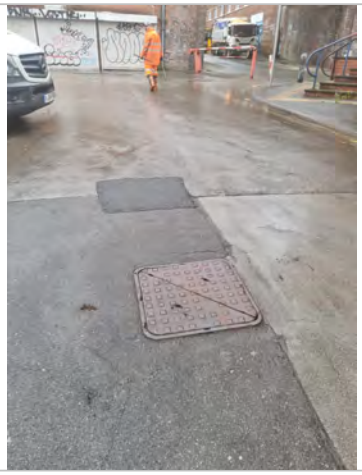
Mh7606
18 Jul 2023 14:15

Mh01
18 Jul 2023 14:15

Mh6601
18 Jul 2023 14:15

Mh7606
18 Jul 2023 14:15

Mh6601
18 Jul 2023 14:15



Mh01
18 Jul 2023 14:15

Customer Signature

Name: **Dermott**
By: **Mike Talbot**
Date: **18/07/2023 14:33**

Operative Signature

Name: **Mike Talbot**
By: **Mike Talbot**
Date: **19/07/2023 07:33**

TEAM DRAINAGE UK

Card No		Map No	
Catchment		MH No	Lamphole
Location	Granby Row		
Town	Manchester		

★ Status	Syphon	★ Function	★ MH Type	Date of Survey
Pu		C	LH	18/07/2023

COVER DETAILS

☒ Square ☐ Rectangle ☐ Triangle ☐ Dbl Triangle ☐ Circular ☐ Oval ☐ Other ☐ Multiple ☒ Hinged ☐ Lockable

Cover Level	m	★ H / M / L Cover Duty	Initials
1.33		H	MT

PIPE DETAILS

Incoming Pipes

Clockwise from pipe X

Pipe	Depth from Invert (m)	Upstream / Downstream MH Ref	Shape	Size (mm) Height		Width	Pipe Mat	Lining Mat	Back Drop Dia (mm)	Back Drop Depth (m)
A	1.33		C		X	150	VC			
B	1.17		C		X	100	VC			
C	1.10		C		X	150	VC			
D					X					
E					X					
F					X					

Outgoing Pipes

X	1.33		C		X	150	CI			
Y					X					

Cover Opening at narrowest	mm	Chamber Size at widest	mm	Evidence of Surcharge
300x300		450x450		N

Shaft at narrowest	mm	Shaft Depth (from CL)	mm	OX / H2S / METH Toxic atmosphere
300x300		250.00		N

MANHOLE CONSTRUCTION DETAILS

☐ Pre Cast Concrete ☐ In Situ Concrete ☒ Brick ☐ GRP ☐ Arch ☐ Corbel ☐ Taper ☐ Side Entry

☐ Reducing Slab ☐ Segments ☐ No. of Landings ☐ No. of Step Irons ☐ No. of Ladders

☐ No. of Regulating Brick Courses

CONDITION INFORMATION (specific in remark)

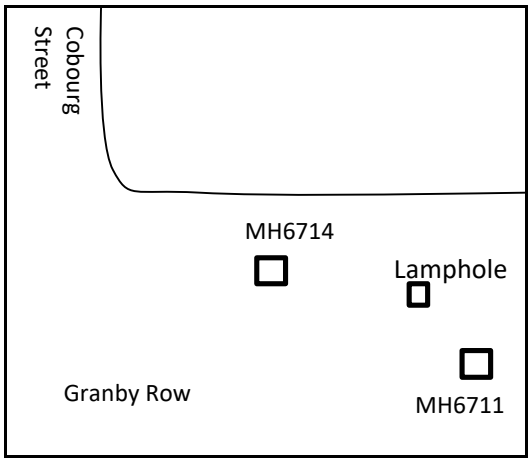
	Cover	Shaft	Irons /	Chamber	Benching	Channel
OK	☒	☒	☒	☒	☒	☒
Needs attention	☐	☐	☐	☐	☐	☐
Urgent attention	☐	☐	☐	☐	☐	☐

Depth of Flow	mm	Depth of Silt	mm	Height of Surcharge from CL	mm

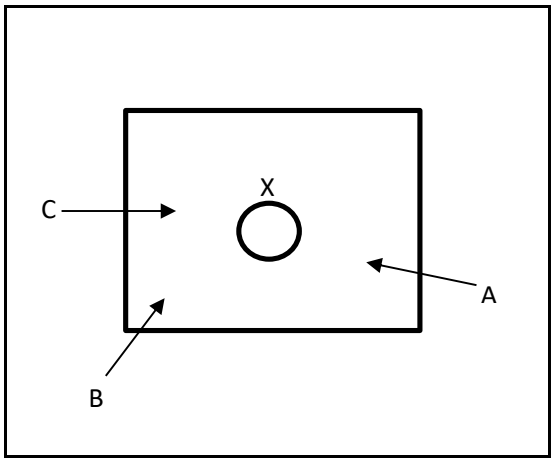
REMARKS

★ *See Overleaf for Key*

LOCATION SKETCH N



PLAN OF MANHOLE N



LOCATION PHOTO N

PHOTO OF MANHOLE N

STATUS	PU : Public	PR : Private	WC : Culverted Watercourse	} Applies to main outlet	
	24 : Section 24	HD : Highway Drain			
FUNCTION	F : Foul	C : Combined	S : Surface Water	} Applies to main outlet	
MANHOLE TYPE	IF : Infall	MH : Manhole	CP : Catchpit	CSO : Consented Sewer Overflow	
	LH : Lamphole	RE : Rodding Eye	SO : Storm Overflow	DS : Dual system Manhole	
	GU : Gully	OF : Outfall	SA : Soakaway	PS : Pumping Station	
COVER DUTY	L : Light Duty	M : Medium Duty	H : Heavy Duty		
SHAPE	C : Circular	E : Egg	R : Rectangular		
	S : Square	T : Trapezoidal	A : Arched		
	B : Barrel	H : Horseshoe (Inverted U)	U : U-shaped with flat top		
	X : Other (state in words)				
PIPE (OR LINING) MATERIAL	AK : Alkathene	AC : Asbestos Cement	BR : Brick		
	CI : Cast Iron	SI : Spun (Grey) Iron	CO : Concrete		
	CSB : Concrete Segments (Bolted)	CSL : Concrete Segments (Unbolted)	CC : Concrete Box Culvert		
	DI : Ductile Iron	GRC : Glass Reinforced Concrete	GRP : Glass Reinforced Plastic		
	PSC : Plastic/Steel Composite	PVC : Polyvinyl Chloride	PE : Polyethylene		
	RPM : Reinforced Plastic Matrix	ST : Steel	VC : Vitrified Clay		
	PP : Polypropylene	PF : Pitch Fibre	MAC : Masonry, Coursed		
	MAF : Masonry, Randon Courses	XXX : Other (State in remarks)			
LINING	BL : Bitumen	RL : Resin	IS : Insituform		
	CL : Cement	PI : Plastic			

TEAM DRAINAGE UK

Card No		Map No	
Catchment		MH No	MH6711
Location	Granby Row		
Town	Manchester		

★		★	★		
Pu	Status	Syphon	F	Function	MH	MH Type	18/07/2023	Date of Survey

COVER DETAILS

☒ Square ☐ Rectangle ☐ Triangle ☐ Dbl Triangle ☐ Circular ☐ Oval ☐ Other ☐ Multiple ☒ Hinged ☐ Lockable

			★		
Cover Level	5.42	m	H / M / L Cover Duty	H	Initials	MT

PIPE DETAILS

Incoming Pipes

Clockwise from pipe X

Pipe	Depth from Invert (m)	Upstream / Downstream MH Ref	Shape	Size (mm) Height		Width	Pipe Mat	Lining Mat	Back Drop Dia (mm)	Back Drop Depth (m)
A	5.35		C		X	150	CI			
B	5.41		C		X	375	VC			
C					X					
D					X					
E					X					
F					X					

Outgoing Pipes

X	5.42		C		X	375	VC			
Y					X					

Cover Opening at narrowest	600x600 mm	Chamber Size at widest	2.40 mm	Evidence of Surcharge	N
Shaft at narrowest	600x600 mm	Shaft Depth (from CL)	1.58 mm	OX / H2S / METH Toxic atmosphere	N

MANHOLE CONSTRUCTION DETAILS

☒ Pre Cast Concrete ☐ In Situ Concrete ☐ Brick ☐ GRP ☐ Arch ☐ Corbel ☐ Taper ☐ Side Entry

☒ Reducing Slab ☐ Segments ☐ No. of Landings ☐ No. of Step Irons 1 No. of Ladders

2 No. of Regulating Brick Courses

CONDITION INFORMATION (specific in remark)

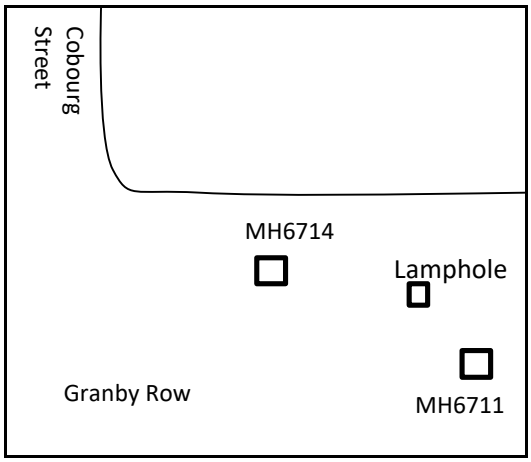
	Cover	Shaft	Irons /	Chamber	Benching	Channel
OK	☒	☒	☒	☒	☒	☒
Needs attention	☐	☐	☐	☐	☐	☐
Urgent attention	☐	☐	☐	☐	☐	☐

Depth of Flow mm Depth of Silt mm Height of Surcharge from CL mm

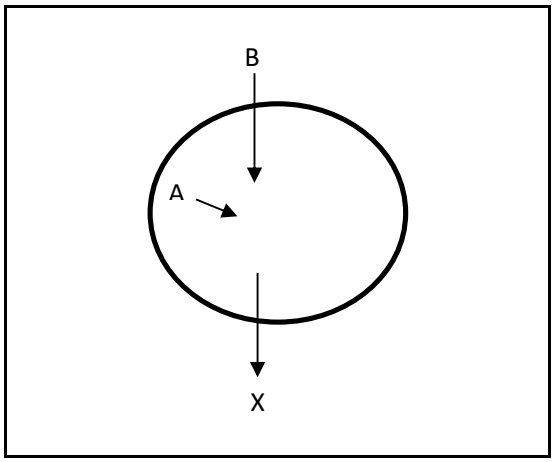
REMARKS

★ *See Overleaf for Key*

LOCATION SKETCH N



PLAN OF MANHOLE N



LOCATION PHOTO N

PHOTO OF MANHOLE N

STATUS	PU : Public 24 : Section 24	PR : Private HD : Highway Drain	WC : Culverted Watercourse	} Applies to main outlet	
FUNCTION	F : Foul	C : Combined	S : Surface Water	} Applies to main outlet	
MANHOLE TYPE	IF : Infall LH : Lamphole GU : Gully	MH : Manhole RE : Rodding Eye OF : Outfall	CP : Catchpit SO : Storm Overflow SA : Soakaway	CSO :Consented Sewer Overflow DS :Dual system Manhole PS :Pumping Station	
COVER DUTY	L : Light Duty	M : Medium Duty	H : Heavy Duty		
SHAPE	C : Circular S : Square B : Barrel X : Other (state in words)	E : Egg T : Trapezoidal H : Horseshoe (Inverted U)	R : Rectangular A : Arched U : U-shaped with flat top		
PIPE (OR LINING) MATERIAL	AK : Alkathene CI : Cast Iron CSB : Concrete Segments (Bolted) DI : Ductile Iron PSC : Plastic/Steel Composite RPM : Reinforced Plastic Matrix PP : Polypropylene MAF : Masonry, Randon Courses	AC : Asbestos Cement SI : Spun (Grey) Iron CSL : Concrete Segments (Unbolted) GRC : Glass Reinforced Concrete PVC : Polyvinyl Chloride ST : Steel PF : Pitch Fibre XXX : Other (State in remarks)	BR : Brick CO : Concrete CC : Concrete Box Culvert GRP : Glass Reinforced Plastic PE : Polyethylene VC : Vitrified Clay MAC : Masonry, Coursed		
LINING	BL : Bitumen CL : Cement	RL : Resin PI : Plastic	IS : Insituform		

TEAM DRAINAGE UK

Card No		Map No	
Catchment		MH No	MH6713
Location	Granby Row		
Town	Manchester		

★		★	★		
Pu	Status	Syphon	S	Function	MH	MH Type	18/07/2023	Date of Survey

COVER DETAILS

☒ Square ☐ Rectangle ☐ Triangle ☐ Dbl Triangle ☐ Circular ☐ Oval ☐ Other ☐ Multiple ☒ Hinged ☐ Lockable

			★		
Cover Level	12.55	m	H / M / L Cover Duty	H	Initials	MT

PIPE DETAILS

Incoming Pipes

Clockwise from pipe X	Pipe	Depth from Invert (m)	Upstream / Downstream MH Ref	Shape	Size (mm) Height		Width	Pipe Mat	Lining Mat	Back Drop Dia (mm)	Back Drop Depth (m)
	A	12.54		C		X	950	BRICK			
	B					X					
	C					X					
	D					X					
	E					X					
	F					X					

Outgoing Pipes

X	12.55		C		X	950	BRICK			
Y					X					

Cover Opening at narrowest	610x610 mm	Chamber Size at widest	1.92x1.60 mm	Evidence of Surcharge	N
Shaft at narrowest	480.00 mm	Shaft Depth (from CL)	9.23 mm	OX / H2S / METH Toxic atmosphere	N

MANHOLE CONSTRUCTION DETAILS

☐ Pre Cast Concrete ☐ In Situ Concrete ☒ Brick ☐ GRP ☐ Arch ☐ Corbel ☐ Taper ☐ Side Entry

☒ Reducing Slab ☐ Segments ☐ No. of Landings 32 No. of Step Irons ☐ No. of Ladders

☐ No. of Regulating Brick Courses

CONDITION INFORMATION (specific in remark)

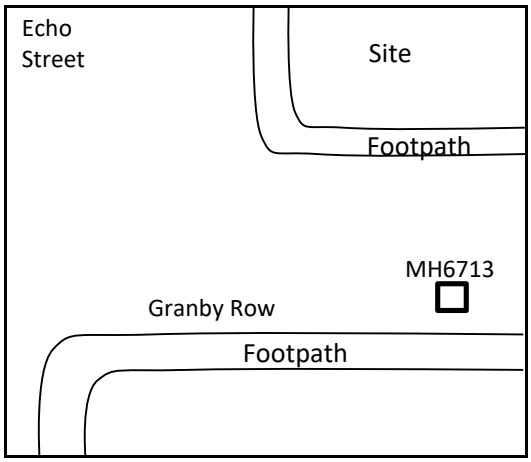
	Cover	Shaft	Irons /	Chamber	Benching	Channel
OK	☒	☒	☒	☒	☒	☒
Needs attention	☐	☐	☐	☐	☐	☐
Urgent attention	☐	☐	☐	☐	☐	☐

Depth of Flow	mm	Depth of Silt	mm	Height of Surcharge from CL	mm

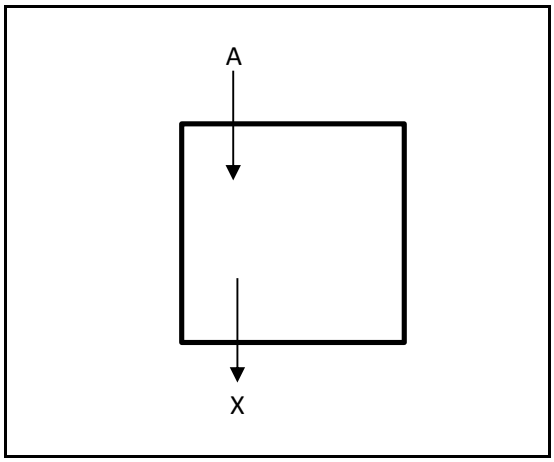
REMARKS

★ *See Overleaf for Key*

LOCATION SKETCH N



PLAN OF MANHOLE N



LOCATION PHOTO N

PHOTO OF MANHOLE N

STATUS	PU : Public	PR : Private	WC : Culverted Watercourse	} Applies to main outlet	
	24 : Section 24	HD : Highway Drain			
FUNCTION	F : Foul	C : Combined	S : Surface Water	} Applies to main outlet	
MANHOLE TYPE	IF : Infall	MH : Manhole	CP : Catchpit	CSO : Consented Sewer Overflow	
	LH : Lamphole	RE : Rodding Eye	SO : Storm Overflow	DS : Dual system Manhole	
	GU : Gully	OF : Outfall	SA : Soakaway	PS : Pumping Station	
COVER DUTY	L : Light Duty	M : Medium Duty	H : Heavy Duty		
SHAPE	C : Circular	E : Egg	R : Rectangular		
	S : Square	T : Trapezoidal	A : Arched		
	B : Barrel	H : Horseshoe (Inverted U)	U : U-shaped with flat top		
	X : Other (state in words)				
PIPE (OR LINING) MATERIAL	AK : Alkathene	AC : Asbestos Cement	BR : Brick		
	CI : Cast Iron	SI : Spun (Grey) Iron	CO : Concrete		
	CSB : Concrete Segments (Bolted)	CSL : Concrete Segments (Unbolted)	CC : Concrete Box Culvert		
	DI : Ductile Iron	GRC : Glass Reinforced Concrete	GRP : Glass Reinforced Plastic		
	PSC : Plastic/Steel Composite	PVC : Polyvinyl Chloride	PE : Polyethylene		
	RPM : Reinforced Plastic Matrix	ST : Steel	VC : Vitrified Clay		
	PP : Polypropylene	PF : Pitch Fibre	MAC : Masonry, Coursed		
	MAF : Masonry, Random Courses	XXX : Other (State in remarks)			
LINING	BL : Bitumen	RL : Resin	IS : Insituform		
	CL : Cement	PI : Plastic			

TEAM DRAINAGE UK

Card No		Map No	
Catchment		MH No	MH6714
Location	Granby Row		
Town	Manchester		

★		★	★		
Pu	Status	Syphon	S	Function	MH	MH Type	18/07/2023	Date of Survey

COVER DETAILS

☒ Square ☐ Rectangle ☐ Triangle ☐ Dbl Triangle ☐ Circular ☐ Oval ☐ Other ☐ Multiple ☒ Hinged ☐ Lockable

			★		
Cover Level	12.9	m	H / M / L Cover Duty	H	Initials	MT

PIPE DETAILS

Incoming Pipes

Clockwise from pipe X

Pipe	Depth from Invert (m)	Upstream / Downstream MH Ref	Shape	Size (mm) Height		Width	Pipe Mat	Lining Mat	Back Drop Dia (mm)	Back Drop Depth (m)
A	12.89		C		X	950	BRICK			
B					X					
C					X					
D					X					
E					X					
F					X					

Outgoing Pipes

X	12.90		C		X	950	BRICK			
Y					X					

Cover Opening at narrowest	600x600	mm	Chamber Size at widest	1.90x1.55	mm	Evidence of Surcharge	N
Shaft at narrowest	430.00	mm	Shaft Depth (from CL)	10.10m	mm	OX / H2S / METH Toxic atmosphere	N

MANHOLE CONSTRUCTION DETAILS

☐ Pre Cast Concrete ☐ In Situ Concrete ☒ Brick ☐ GRP ☐ Arch ☐ Corbel ☐ Taper ☐ Side Entry

☒ Reducing Slab ☐ Segments ☐ No. of Landings 34 No. of Step Irons ☐ No. of Ladders

☐ No. of Regulating Brick Courses

CONDITION INFORMATION (specific in remark)

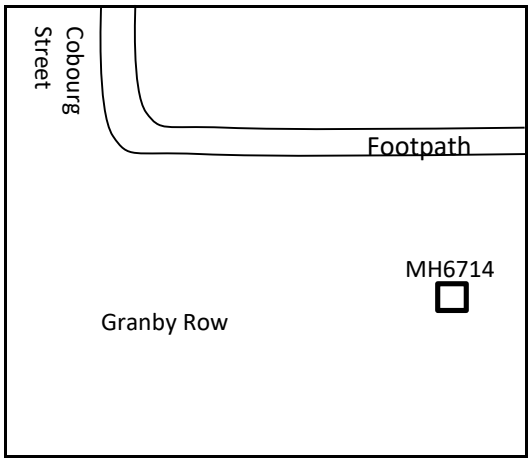
	Cover	Shaft	Irons /	Chamber	Benching	Channel
OK	☒	☒	☒	☒	☒	☒
Needs attention	☐	☐	☐	☐	☐	☐
Urgent attention	☐	☐	☐	☐	☐	☐

Depth of Flow		mm	Depth of Silt		mm	Height of Surcharge from CL		mm

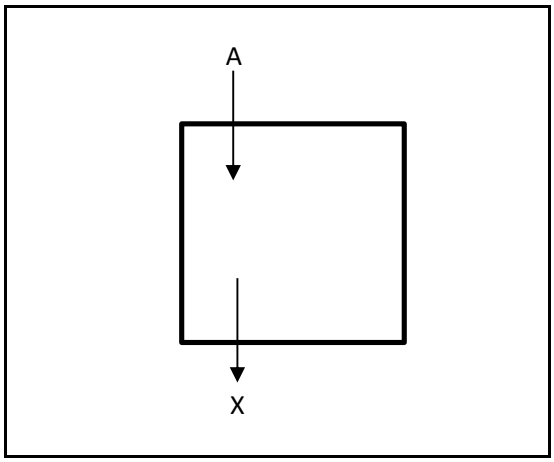
REMARKS

★ *See Overleaf for Key*

LOCATION SKETCH N



PLAN OF MANHOLE N



LOCATION PHOTO N

PHOTO OF MANHOLE N

STATUS	PU : Public	PR : Private	WC : Culverted Watercourse	}	Applies to main outlet
	24 : Section 24	HD : Highway Drain			
FUNCTION	F : Foul	C : Combined	S : Surface Water	}	Applies to main outlet
MANHOLE TYPE	IF : Infall	MH : Manhole	CP : Catchpit	CSO	:Consented Sewer Overflow
	LH : Lamphole	RE : Rodding Eye	SO : Storm Overflow	DS	:Dual system Manhole
	GU : Gully	OF : Outfall	SA : Soakaway	PS	:Pumping Station
COVER DUTY	L : Light Duty	M : Medium Duty	H : Heavy Duty		
SHAPE	C : Circular	E : Egg	R : Rectangular		
	S : Square	T : Trapezoidal	A : Arched		
	B : Barrel	H : Horseshoe (Inverted U)	U : U-shaped with flat top		
	X : Other (state in words)				
PIPE (OR LINING) MATERIAL	AK : Alkathene	AC : Asbestos Cement	BR : Brick		
	CI : Cast Iron	SI : Spun (Grey) Iron	CO : Concrete		
	CSB : Concrete Segments (Bolted)	CSL : Concrete Segments (Unbolted)	CC : Concrete Box Culvert		
	DI : Ductile Iron	GRC : Glass Reinforced Concrete	GRP : Glass Reinforced Plastic		
	PSC : Plastic/Steel Composite	PVC : Polyvinyl Chloride	PE : Polyethylene		
	RPM : Reinforced Plastic Matrix	ST : Steel	VC : Vitrified Clay		
	PP : Polypropylene	PF : Pitch Fibre	MAC : Masonry, Coursed		
	MAF : Masonry, Randon Courses	XXX : Other (State in remarks)			
LINING	BL : Bitumen	RL : Resin	IS : Insituform		
	CL : Cement	PI : Plastic			

TEAM DRAINAGE UK

Card No		Map No	
Catchment		MH No	MH6722
Location	Granby Row		
Town	Manchester		

★ Status	Syphon	★ Function	★ MH Type	Date of Survey
Pu		F	MH	18/07/2023

COVER DETAILS

☒ Square ☐ Rectangle ☐ Triangle ☐ Dbl Triangle ☐ Circular ☐ Oval ☐ Other ☐ Multiple ☒ Hinged ☐ Lockable

Cover Level	m	★ H / M / L Cover Duty	Initials
5.85		H	MT

PIPE DETAILS

Incoming Pipes

Clockwise from pipe X

Pipe	Depth from Invert (m)	Upstream / Downstream MH Ref	Shape	Size (mm) Height		Width	Pipe Mat	Lining Mat	Back Drop Dia (mm)	Back Drop Depth (m)
A	5.84		C		X	300	VC			
B	5.84		C		X	375	VC			
C					X					
D					X					
E					X					
F					X					

Outgoing Pipes

X	5.82		C		X	375	VC			
Y					X					

Cover Opening at narrowest	mm	Chamber Size at widest	mm	Evidence of Surcharge
610x610		1.38x950		N

Shaft at narrowest	mm	Shaft Depth (from CL)	mm	OX / H2S / METH Toxic atmosphere
460x460		3.92		N

MANHOLE CONSTRUCTION DETAILS

☐ Pre Cast Concrete ☐ In Situ Concrete ☒ Brick ☐ GRP ☐ Arch ☐ Corbel ☐ Taper ☐ Side Entry

☒ Reducing Slab ☐ Segments ☐ No. of Landings 14 No. of Step Irons ☐ No. of Ladders

☐ No. of Regulating Brick Courses

CONDITION INFORMATION (specific in remark)

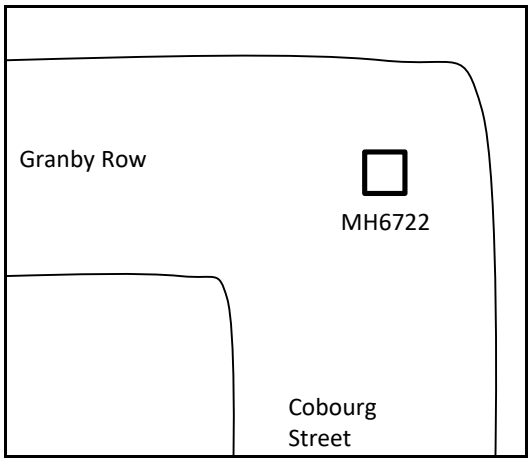
	Cover	Shaft	Irons /	Chamber	Benching	Channel
OK	☒	☒	☒	☒	☒	☒
Needs attention	☐	☐	☐	☐	☐	☐
Urgent attention	☐	☐	☐	☐	☐	☐

Depth of Flow	mm	Depth of Silt	mm	Height of Surcharge from CL	mm

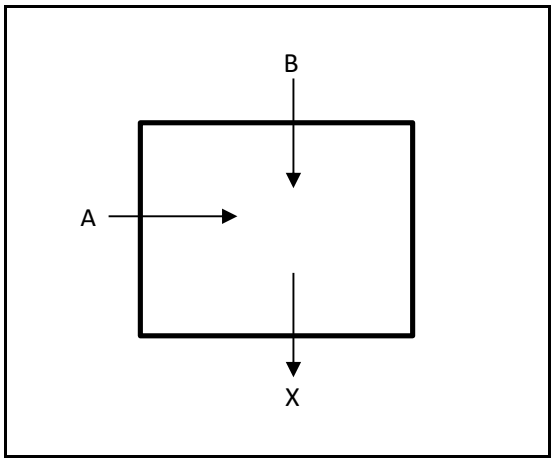
REMARKS

★ *See Overleaf for Key*

LOCATION SKETCH **N**



PLAN OF MANHOLE **N**



LOCATION PHOTO **N**

PHOTO OF MANHOLE **N**

STATUS	PU : Public	PR : Private	WC : Culverted Watercourse	} Applies to main outlet	
	24 : Section 24	HD : Highway Drain			
FUNCTION	F : Foul	C : Combined	S : Surface Water	} Applies to main outlet	
MANHOLE TYPE	IF : Infall	MH : Manhole	CP : Catchpit	CSO :Consented Sewer Overflow	
	LH : Lamphole	RE : Rodding Eye	SO : Storm Overflow	DS :Dual system Manhole	
	GU : Gully	OF : Outfall	SA : Soakaway	PS :Pumping Station	
COVER DUTY	L : Light Duty	M : Medium Duty	H : Heavy Duty		
SHAPE	C : Circular	E : Egg	R : Rectangular		
	S : Square	T : Trapezoidal	A : Arched		
	B : Barrel	H : Horseshoe (Inverted U)	U : U-shaped with flat top		
	X : Other (state in words)				
PIPE (OR LINING) MATERIAL	AK : Alkathene	AC : Asbestos Cement	BR : Brick		
	CI : Cast Iron	SI : Spun (Grey) Iron	CO : Concrete		
	CSB : Concrete Segments (Bolted)	CSL : Concrete Segments (Unbolted)	CC : Concrete Box Culvert		
	DI : Ductile Iron	GRC : Glass Reinforced Concrete	GRP : Glass Reinforced Plastic		
	PSC : Plastic/Steel Composite	PVC : Polyvinyl Chloride	PE : Polyethylene		
	RPM : Reinforced Plastic Matrix	ST : Steel	VC : Vitrified Clay		
	PP : Polypropylene	PF : Pitch Fibre	MAC : Masonry, Coursed		
	MAF : Masonry, Randon Courses	XXX : Other (State in remarks)			
LINING	BL : Bitumen	RL : Resin	IS : Insituform		
	CL : Cement	PI : Plastic			

TEAM DRAINAGE UK

Card No		Map No	
Catchment		MH No	MH7601
Location	Echo Street		
Town	Manchester		

★ Pu Status	Syphon	★ F Function	★ MH MH Type	18/07/2023 Date of Survey

COVER DETAILS

☒ Square ☐ Rectangle ☐ Triangle ☐ Dbl Triangle ☐ Circular ☐ Oval ☐ Other ☐ Multiple ☒ Hinged ☐ Lockable

Cover Level	5.93 m	H / M / L Cover Duty ★	H	Initials	MT

PIPE DETAILS

Incoming Pipes

Clockwise from pipe X

Pipe	Depth from Invert (m)	Upstream / Downstream MH Ref	Shape	Size (mm) Height		Width	Pipe Mat	Lining Mat	Back Drop Dia (mm)	Back Drop Depth (m)
A	5.92		U	770	X	500	Brick			
B					X					
C					X					
D					X					
E					X					
F					X					

Outgoing Pipes

X	5.93		C		X	225	VC			
Y					X					

Cover Opening at narrowest	600x600 mm	Chamber Size at widest	2.85x1.50 mm	Evidence of Surcharge	N
Shaft at narrowest	600x530 mm	Shaft Depth (from CL)	4.39 mm	OX / H2S / METH Toxic atmosphere	N

MANHOLE CONSTRUCTION DETAILS

☐ Pre Cast Concrete ☐ In Situ Concrete ☒ Brick ☐ GRP ☐ Arch ☐ Corbel ☐ Taper ☐ Side Entry

☒ Reducing Slab ☐ Segments 1 No. of Landings 15 No. of Step Irons ☐ No. of Ladders

1 No. of Regulating Brick Courses

CONDITION INFORMATION (specific in remark)

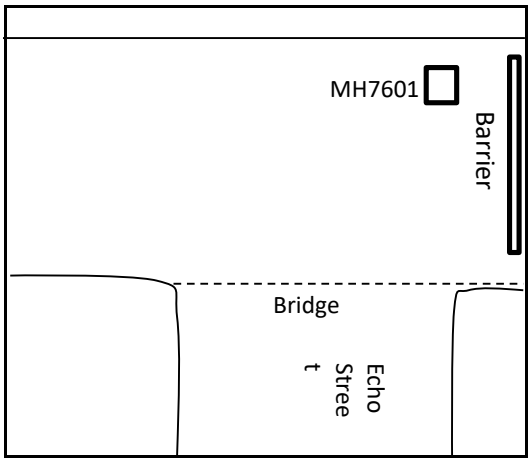
	Cover	Shaft	Irons /	Chamber	Benching	Channel
OK	☒	☒	☒	☒	☒	☒
Needs attention	☐	☐	☐	☐	☐	☐
Urgent attention	☐	☐	☐	☐	☐	☐

Depth of Flow mm	Depth of Silt mm	Height of Surcharge from CL mm

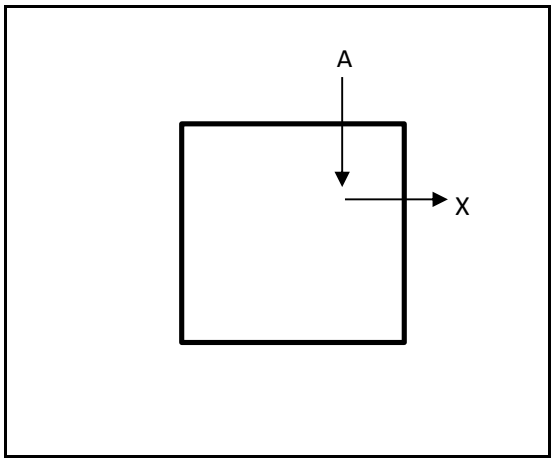
REMARKS

★ *See Overleaf for Key*

LOCATION SKETCH **N**



PLAN OF MANHOLE **N**



LOCATION PHOTO **N**

PHOTO OF MANHOLE **N**

STATUS	PU : Public	PR : Private	WC : Culverted Watercourse	} Applies to main outlet	
	24 : Section 24	HD : Highway Drain			
FUNCTION	F : Foul	C : Combined	S : Surface Water	} Applies to main outlet	
MANHOLE TYPE	IF : Infall	MH : Manhole	CP : Catchpit	CSO :Consented Sewer Overflow	
	LH : Lamphole	RE : Rodding Eye	SO : Storm Overflow	DS :Dual system Manhole	
	GU : Gully	OF : Outfall	SA : Soakaway	PS :Pumping Station	
COVER DUTY	L : Light Duty	M : Medium Duty	H : Heavy Duty		
SHAPE	C : Circular	E : Egg	R : Rectangular		
	S : Square	T : Trapezoidal	A : Arched		
	B : Barrel	H : Horseshoe (Inverted U)	U : U-shaped with flat top		
	X : Other (state in words)				
PIPE (OR LINING) MATERIAL	AK : Alkathene	AC : Asbestos Cement	BR : Brick		
	CI : Cast Iron	SI : Spun (Grey) Iron	CO : Concrete		
	CSB : Concrete Segments (Bolted)	CSL : Concrete Segments (Unbolted)	CC : Concrete Box Culvert		
	DI : Ductile Iron	GRC : Glass Reinforced Concrete	GRP : Glass Reinforced Plastic		
	PSC : Plastic/Steel Composite	PVC : Polyvinyl Chloride	PE : Polyethylene		
	RPM : Reinforced Plastic Matrix	ST : Steel	VC : Vitrified Clay		
	PP : Polypropylene	PF : Pitch Fibre	MAC : Masonry, Coursed		
	MAF : Masonry, Randon Courses	XXX : Other (State in remarks)			
LINING	BL : Bitumen	RL : Resin	IS : Insituform		
	CL : Cement	PI : Plastic			