

DSS DRAINAGE SURVEYS & SOLUTIONS

CCTV Inspection Report



**MILLFIELD HOUSE
LINLEY AVENUE
HAXBY
YORK
YO32 3NF**

20/04/2023

Job Number: 7663

DSS Drainage Surveys & Solutions

A WATERGUARD FM GROUP COMPANY

Gower House, Rudcarr Lane, York YO19 5TL

Tel: 0800 999 1978 or 07903 681 116

Project Information

Job Number 7663	Surveyed by (Operator) J.SEDGWICK	Base Unit APW55LDQTW	Date 20/04/2023
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Client Details:

VINCENT AND BROWN

Site Details:

MILLFIELD HOUSE
LINLEY AVENUE
HAXBY
YORK
YO32 3NF

Contractor Details:

DSS Drainage Surveys & Solutions
Gower House, Rudcarr Lane
Warthill
York
North Yorkshire
YO19 5TL

Office Contact Number: 0800 999 1978

Purpose of Survey:

CCTV CAMERA SURVEY OF SITE DRAINAGE.

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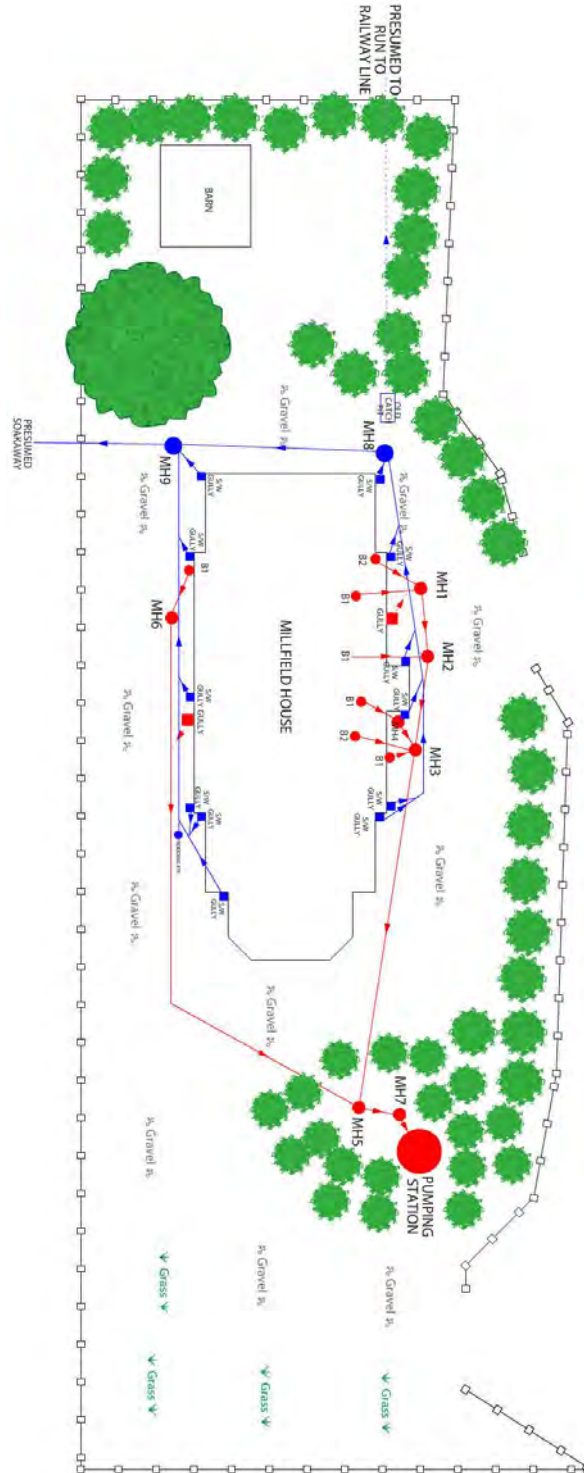
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This sketch is not to scale and does not represent the exact routing of the drainage system



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Manhole / Access Point: MH1 Internal



Manhole / Access Point: MH1 Location



Manhole / Access Point: MH2 Internal



Manhole / Access Point: MH2 Location



Manhole / Access Point: MH4 Internal



Manhole / Access Point: MH4 Location

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Manhole / Access Point: MH3 Internal



Manhole / Access Point: MH3 Location



Manhole / Access Point: MH5 Location



Manhole / Access Point: MH5 Internal



Manhole / Access Point: MH6 Internal



Manhole / Access Point: MH6 Location

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Manhole / Access Point: MH8 Location



Manhole / Access Point: MH8 Internal

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Job Information

Total Distance Surveyed: **149.61 metres**
 Engineer: **J.SEDGWICK**
 Number of Surveys: **20**
 Number of Surveys grade 4 or above: **1**

Job Comments

REMOVE ROOTS FROM LINE AND INSTALL 1X 100MM NO DIG STRUCTURAL REPAIR.

FOR THE SUM OF, £400.00 PLUS VAT

THE SOAKAWAY IN THE FIELD IS PARTIALLY BLOCKED AT APPROX 22M WITH ROOTS. WE WOULD SUGGEST AN EXCAVATION AT THIS POINT TO REMOVE THE ROOTS, CLEAN THE LINE AND SURVEY FURTHER DOWNSTREAM TO PIN POINT EXACT LOCATION OF THE SOAKAWAY. MINI DIGGER UPTO 1 DAY, SONDE AND RESUVEY

FOR THE BUDGET COST OF £800.00 PLUS VAT.

ATTEMPTED TO SURVEY FROM OLD CATCH PIT, WHICH IS BELIEVED TO RUN TO RAILWAY LINE, HOWEVER, UNABLE TO PASS ROOTS IN THE MOUTH OF THE DRAN DOWNSTREAM, SO LINE WAS NOT SURVEYED - NO LINES FROM THE PROPERTY RUN INTO THIS CATCH PIT.

ASSUME NO FURTHER WORKS TO CATCH PIT .

Section 1 Overview (20/04/2023)

Manholes: **MH1 to MH1 B1**
 Pipe Length: **2.5 metres**
 Structural Grade: **0**
 Service Grade: **0**
 Material: **Polyvinyl chloride**
 Pipe Size: **100mm**
 Use: **Foul**

NO DEFECTS.

Section 2 Overview (20/04/2023)

Manholes: **MH1 to MH1 B2**
 Pipe Length: **2.74 metres**
 Structural Grade: **0**
 Service Grade: **0**
 Material: **Polyvinyl chloride**
 Pipe Size: **100mm**
 Use: **Foul**

NO DEFECTS.

Section 3 Overview (20/04/2023)

Manholes: **MH1 to MH2**
 Pipe Length: **1.98 metres**
 Structural Grade: **0**
 Service Grade: **0**
 Material: **Polyvinyl chloride**
 Pipe Size: **100mm**
 Use: **Foul**

NO DEFECTS.

Section 4 Overview (20/04/2023)

Manholes: **MH2 to MH2 B1**
 Pipe Length: **2.74 metres**
 Structural Grade: **0**
 Service Grade: **0**
 Material: **Polyvinyl chloride**
 Pipe Size: **100mm**
 Use: **Foul**

NO DEFECTS.

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Section 5 Overview (20/04/2023)

Manholes: **MH2 to MH3**
Pipe Length: **6.83 metres**
Structural Grade: **0**
Service Grade: **0**
Material: **Polyvinyl chloride**
Pipe Size: **100mm**
Use: **Foul**

NO DEFECTS.

Section 6 Overview (20/04/2023)

Manholes: **MH4 to MH4 B1**
Pipe Length: **0.48 metres**
Structural Grade: **0**
Service Grade: **0**
Material: **Polyvinyl chloride**
Pipe Size: **100mm**
Use: **Foul**

NO DEFECTS.

Section 7 Overview (20/04/2023)

Manholes: **MH4 to MH3**
Pipe Length: **3.05 metres**
Structural Grade: **0**
Service Grade: **0**
Material: **Polyvinyl chloride**
Pipe Size: **100mm**
Use: **Foul**

NO DEFECTS.

Section 8 Overview (20/04/2023)

Manholes: **MH3 to MH3 B1**
Pipe Length: **0.88 metres**
Structural Grade: **0**
Service Grade: **0**
Material: **Polyvinyl chloride**
Pipe Size: **100mm**
Use: **Foul**

NO DEFECTS.

Section 9 Overview (20/04/2023)

Manholes: **MH3 to MH3 B2**
Pipe Length: **4.33 metres**
Structural Grade: **0**
Service Grade: **0**
Material: **Polyvinyl chloride**
Pipe Size: **100mm**
Use: **Foul**

NO DEFECTS.

Section 10 Overview (20/04/2023)

Manholes: **MH3 to MH5**
Pipe Length: **16.5 metres**
Structural Grade: **0**
Service Grade: **0**
Material: **Polyvinyl chloride**
Pipe Size: **100mm**
Use: **Foul**

NO DEFECTS.

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<p>Section 11 Overview (20/04/2023)</p> <p>Manholes: MH6 to MH6 B1 Pipe Length: 4.17 metres Structural Grade: 0 Service Grade: 0 Material: Polyvinyl chloride Pipe Size: 100mm Use: Foul</p>	<p>NO DEFECTS.</p>
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<p>Section 12 Overview (20/04/2023)</p> <p>Manholes: MH6 to MH5 Pipe Length: 23.98 metres Structural Grade: 0 Service Grade: 0 Material: Polyvinyl chloride Pipe Size: 100mm Use: Foul</p>	<p>NO DEFECTS.</p>
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<p>Section 13 Overview (20/04/2023)</p> <p>Manholes: MH5 to MH7 (BURIED) Pipe Length: 1.95 metres Structural Grade: 0 Service Grade: 0 Material: Polyvinyl chloride Pipe Size: 100mm Use: Foul</p>	<p>NO DEFECTS.</p>
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<p>Section 14 Overview (20/04/2023)</p> <p>Manholes: MH7 (BURIED) to PUMPING STATION Pipe Length: 0.31 metres Structural Grade: 0 Service Grade: 0 Material: Polyvinyl chloride Pipe Size: 100mm Use: Foul</p>	<p>NO DEFECTS.</p>
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<p>Section 15 Overview (20/04/2023)</p> <p>Manholes: MH8 to MH8 B1 Pipe Length: 18.71 metres Structural Grade: 0 Service Grade: 0 Material: Polyvinyl chloride Pipe Size: 100mm Use: Surface water</p>	<p>NO DEFECTS.</p>
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<p>Section 16 Overview (20/04/2023)</p> <p>Manholes: MH8 to MH8 B2 Pipe Length: 1.07 metres Structural Grade: 0 Service Grade: 0 Material: Polyvinyl chloride Pipe Size: 100mm Use: Surface water</p>	<p>NO DEFECTS.</p>
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Section 17 Overview (20/04/2023)

Manholes: **MH8 to MH9**
Pipe Length: **10.48 metres**
Structural Grade: **0**
Service Grade: **0**
Material: **Polyvinyl chloride**
Pipe Size: **100mm**
Use: **Surface water**

NO DEFECTS.

Section 18 Overview (20/04/2023)

Manholes: **MH9 to MH9 B1**
Pipe Length: **2.38 metres**
Structural Grade: **0**
Service Grade: **0**
Material: **Polyvinyl chloride**
Pipe Size: **100mm**
Use: **Surface water**

NO DEFECTS.

Section 19 Overview (20/04/2023)

Manholes: **MH9 to MH9 B2**
Pipe Length: **22.48 metres**
Structural Grade: **0**
Service Grade: **0**
Material: **Polyvinyl chloride**
Pipe Size: **100mm**
Use: **Surface water**

NO DEFECTS.

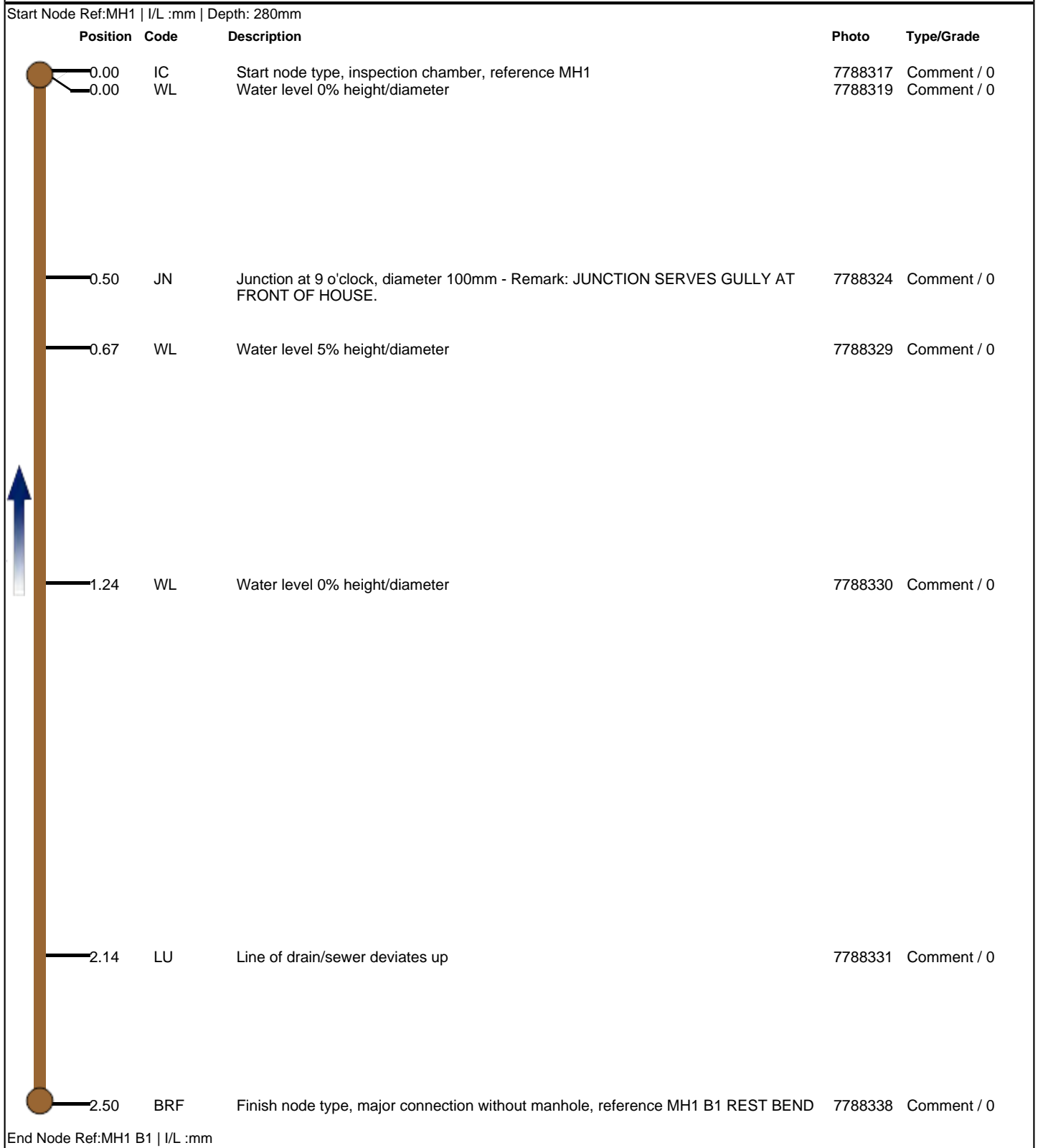
Section 20 Overview (20/04/2023)

Manholes: **MH9 to PRESUMED SOAKAWAY**
Pipe Length: **22.05 metres**
Structural Grade: **4**
Service Grade: **3**
Material: **Polyvinyl chloride**
Pipe Size: **100mm**
Use: **Surface water**

ROOT CUT AND INSTALL 1X NO DIG STRUCTURAL REPAIR.

Surveyed by (Operator) J.SEDGWICK	Job Number 7663	Pipe Length Reference(PLR) MH1 B1 X	Date 20/04/2023	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit APW55LDQTW	Section Number 1
Road MILLFIELD HOUSE Place LINLEY AVENUE Location HAXBY		Division District Location Details		
Purpose Duty Foul Catchment	Shape/Size 100mm Material Polyvinyl chloride Category	Start Node MH1 End Node MH1 B1 Total length 2.5 metres		

Scale **1:0.13**
Direction **Upstream**



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Start node type, inspection chamber, reference MH1



Water level 0% height/diameter



Junction at 9 o'clock, diameter 100mm - Remark: JUNCTION SERVES GULLY AT FRONT OF HOUSE.



Water level 5% height/diameter



Water level 0% height/diameter



Line of drain/sewer deviates up

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Finish node type, major connection without manhole, reference MH1 B1
REST BEND

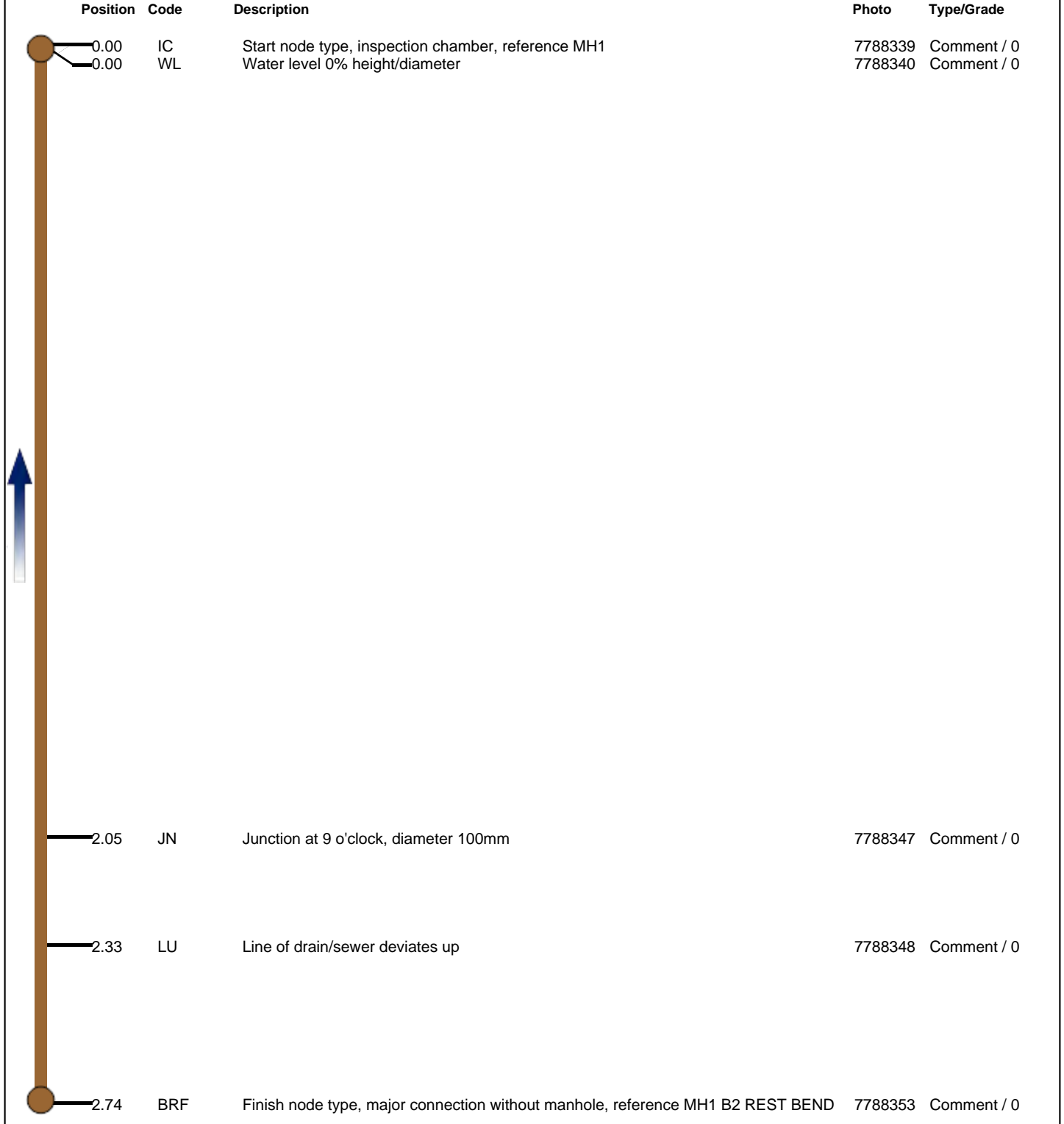
Surveyed by (Operator) J.SEDGWICK	Job Number 7663	Pipe Length Reference(PLR) MH1 B2 X	Date 20/04/2023	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit APW55LDQTW	Section Number 2

Road MILLFIELD HOUSE Place LINLEY AVENUE Location HAXBY	Division District Location Details
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Purpose Duty Foul Catchment	Shape/Size 100mm Material Polyvinyl chloride Category	Start Node MH1 End Node MH1 B2 Total length 2.74 metres
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Scale **1:0.14**
Direction **Upstream**

Start Node Ref:MH1 | I/L :mm | Depth: 280mm



End Node Ref:MH1 B2 | I/L :mm

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Start node type, inspection chamber, reference MH1



Water level 0% height/diameter



Junction at 9 o'clock, diameter 100mm



Line of drain/sewer deviates up



Finish node type, major connection without manhole, reference MH1 B2 REST BEND

Surveyed by (Operator) J.SEDGWICK	Job Number 7663	Pipe Length Reference(PLR) MH1 X	Date 20/04/2023	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit APW55LDQTW	Section Number 3

Road MILLFIELD HOUSE Place LINLEY AVENUE Location HAXBY	Division District Location Details
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Purpose Duty Foul Catchment	Shape/Size 100mm Material Polyvinyl chloride Category	Start Node MH1 End Node MH2 Total length 1.98 metres
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Scale 1:0.10 Direction Downstream
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Start Node Ref:MH1 | I/L :mm | Depth: 280mm



End Node Ref:MH2 | I/L :mm

Job Number 7663	Surveyed by (Operator) J.SEDGWICK	Base Unit APW55LDQTW	Date 20/04/2023
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Start node type, inspection chamber, reference MH1



Water level 0% height/diameter



Finish node type, inspection chamber, reference MH2

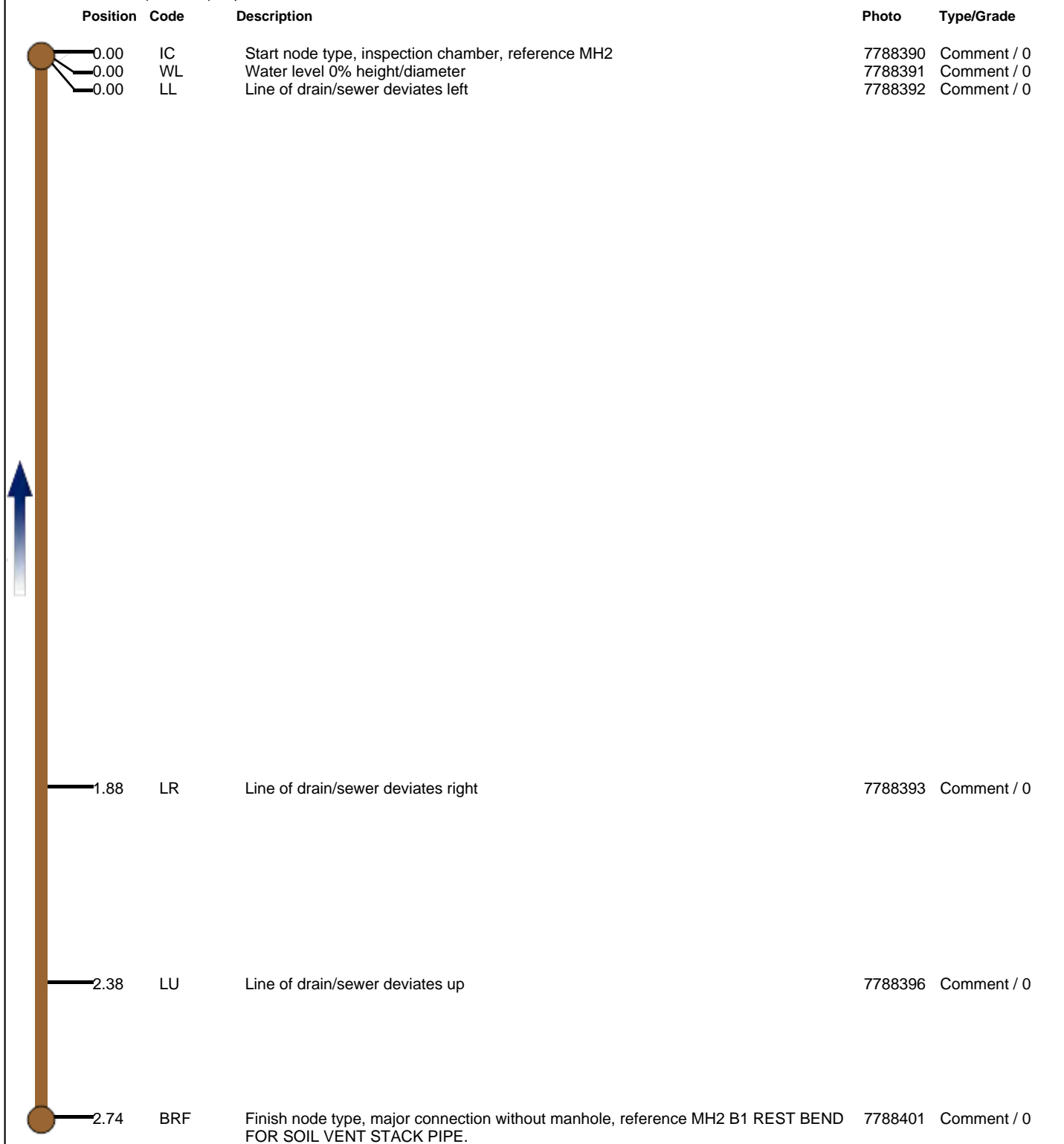
Surveyed by (Operator) J.SEDGWICK	Job Number 7663	Pipe Length Reference(PLR) MH2 B1 X	Date 20/04/2023	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit APW55LDQTW	Section Number 4

Road MILLFIELD HOUSE Place LINLEY AVENUE Location HAXBY	Division District Location Details
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Purpose Duty Foul Catchment	Shape/Size 100mm Material Polyvinyl chloride Category	Start Node MH2 End Node MH2 B1 Total length 2.74 metres
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Scale 1:0.14 Direction Upstream
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Start Node Ref:MH2 | I/L :mm | Depth: 350mm



End Node Ref:MH2 B1 | I/L :mm

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Start node type, inspection chamber, reference MH2



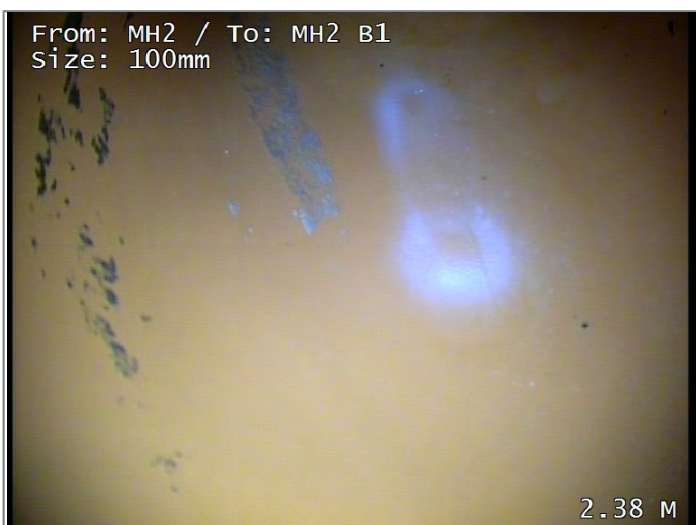
Water level 0% height/diameter



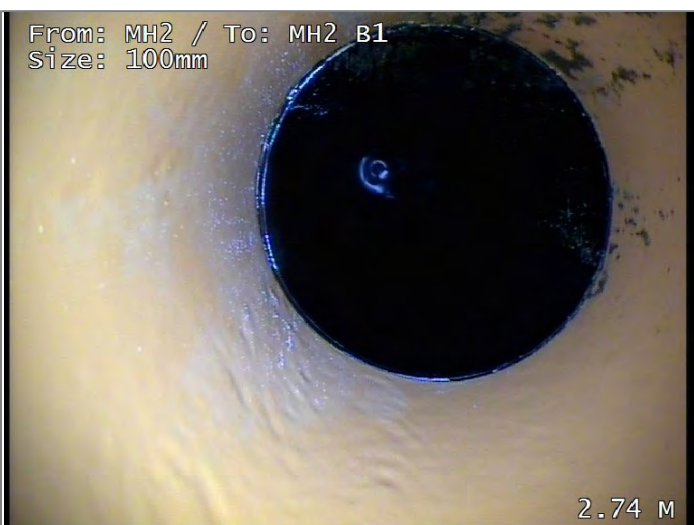
Line of drain/sewer deviates left



Line of drain/sewer deviates right



Line of drain/sewer deviates up



Finish node type, major connection without manhole, reference MH2 B1
REST BEND FOR SOIL VENT STACK PIPE.

Surveyed by (Operator) J.SEDGWICK	Job Number 7663	Pipe Length Reference(PLR) MH2 X	Date 20/04/2023	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit APW55LDQTW	Section Number 5
Road MILLFIELD HOUSE Place LINLEY AVENUE Location HAXBY		Division District Location Details		
Purpose Duty Foul Catchment	Shape/Size 100mm Material Polyvinyl chloride Category	Start Node MH2 End Node MH3 Total length 6.83 metres		

Scale **1:0.36**
Direction **Downstream**

Start Node Ref:MH2 | I/L :mm | Depth: 350mm

Position	Code	Description	Photo	Type/Grade
0.00	IC	Start node type, inspection chamber, reference MH2	7788404	Comment / 0
0.00	WL	Water level 0% height/diameter	7788405	Comment / 0
4.93	LR	Line of drain/sewer deviates right	7788408	Comment / 0
6.83	ICF	Finish node type, inspection chamber, reference MH3	7788415	Comment / 0

End Node Ref:MH3 | I/L :mm

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Start node type, inspection chamber, reference MH2



Water level 0% height/diameter



Line of drain/sewer deviates right



Finish node type, inspection chamber, reference MH3

Surveyed by (Operator) J.SEDGWICK	Job Number 7663	Pipe Length Reference(PLR) MH4 B1 X	Date 20/04/2023	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit APW55LDQTW	Section Number 6

Road MILLFIELD HOUSE Place LINLEY AVENUE Location HAXBY	Division District Location Details
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Purpose Duty Foul Catchment	Shape/Size 100mm Material Polyvinyl chloride Category	Start Node MH4 End Node MH4 B1 Total length 0.48 metres
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Scale **1:0.03**
Direction **Upstream**

Start Node Ref:MH4 | I/L :mm | Depth: 360mm



End Node Ref:MH4 B1 | I/L :mm

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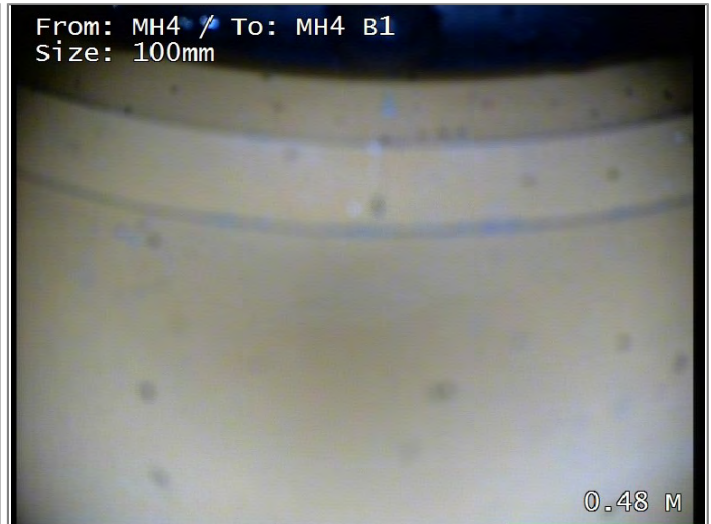
Start node type, inspection chamber, reference MH4



Water level 0% height/diameter



Line of drain/sewer deviates up



Finish node type, major connection without manhole, reference MH4 B1 REST BEND.

Surveyed by (Operator) J.SEDGWICK	Job Number 7663	Pipe Length Reference(PLR) MH4 X	Date 20/04/2023	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit APW55LDQTW	Section Number 7

Road MILLFIELD HOUSE Place LINLEY AVENUE Location HAXBY	Division District Location Details
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Purpose Duty Foul Catchment	Shape/Size 100mm Material Polyvinyl chloride Category	Start Node MH4 End Node MH3 Total length 3.05 metres
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Scale **1:0.16**
Direction **Downstream**

Start Node Ref:MH4 | I/L :mm | Depth: 360mm

Position	Code	Description	Photo	Type/Grade
0.00	IC	Start node type, inspection chamber, reference MH4	7788469	Comment / 0
0.00	WL	Water level 0% height/diameter	7788470	Comment / 0
2.40	LD	Line of drain/sewer deviates down	7788471	Comment / 0
3.05	ICF	Finish node type, inspection chamber, reference MH3	7788472	Comment / 0

End Node Ref:MH3 | I/L :mm

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Start node type, inspection chamber, reference MH4



Water level 0% height/diameter



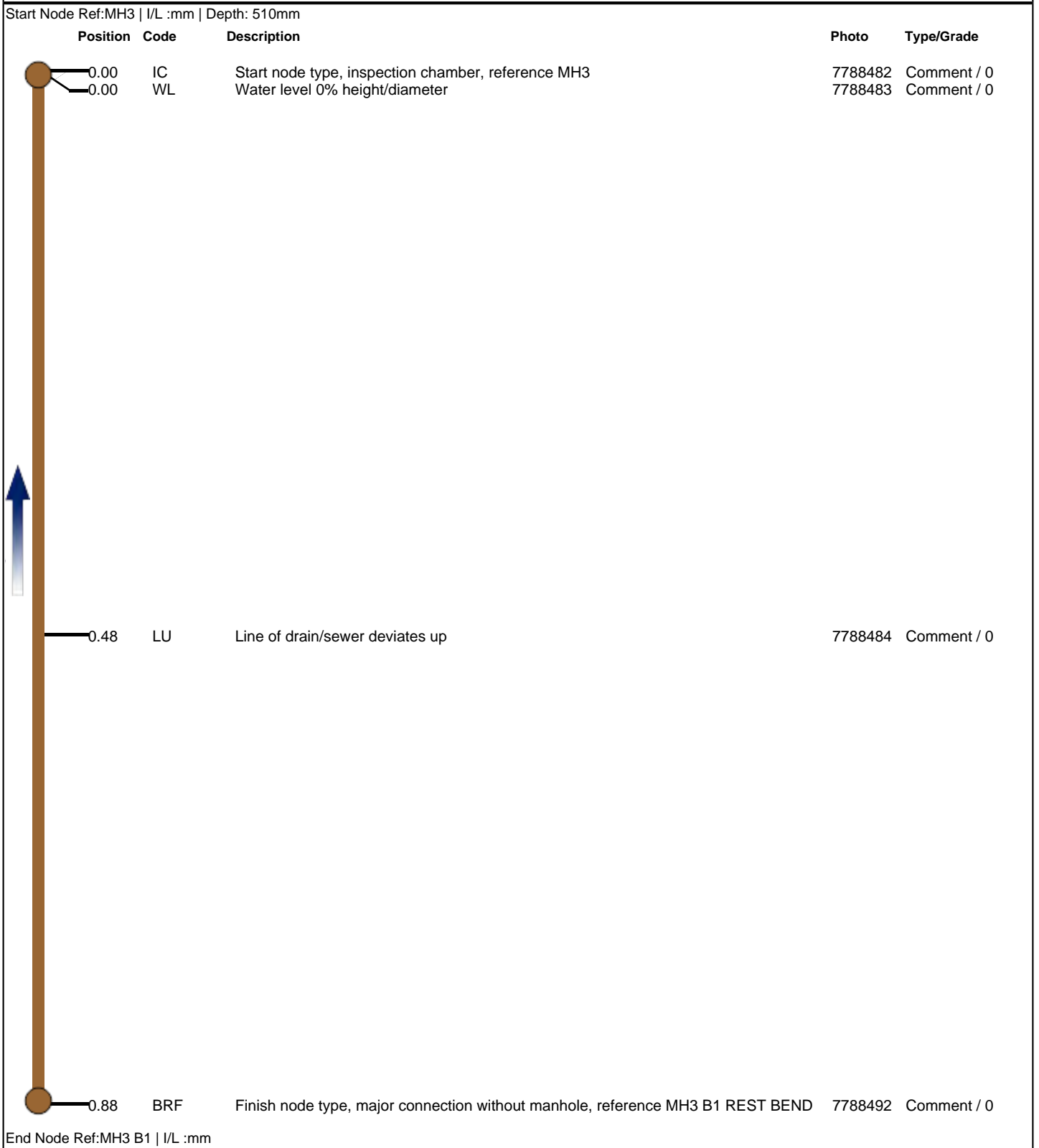
Line of drain/sewer deviates down



Finish node type, inspection chamber, reference MH3

Surveyed by (Operator) J.SEDGWICK	Job Number 7663	Pipe Length Reference(PLR) MH3 B1 X	Date 20/04/2023	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit APW55LDQTW	Section Number 8
Road MILLFIELD HOUSE Place LINLEY AVENUE Location HAXBY		Division District Location Details		
Purpose Duty Foul Catchment	Shape/Size 100mm Material Polyvinyl chloride Category	Start Node MH3 End Node MH3 B1 Total length 0.88 metres		

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



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Start node type, inspection chamber, reference MH3



Water level 0% height/diameter



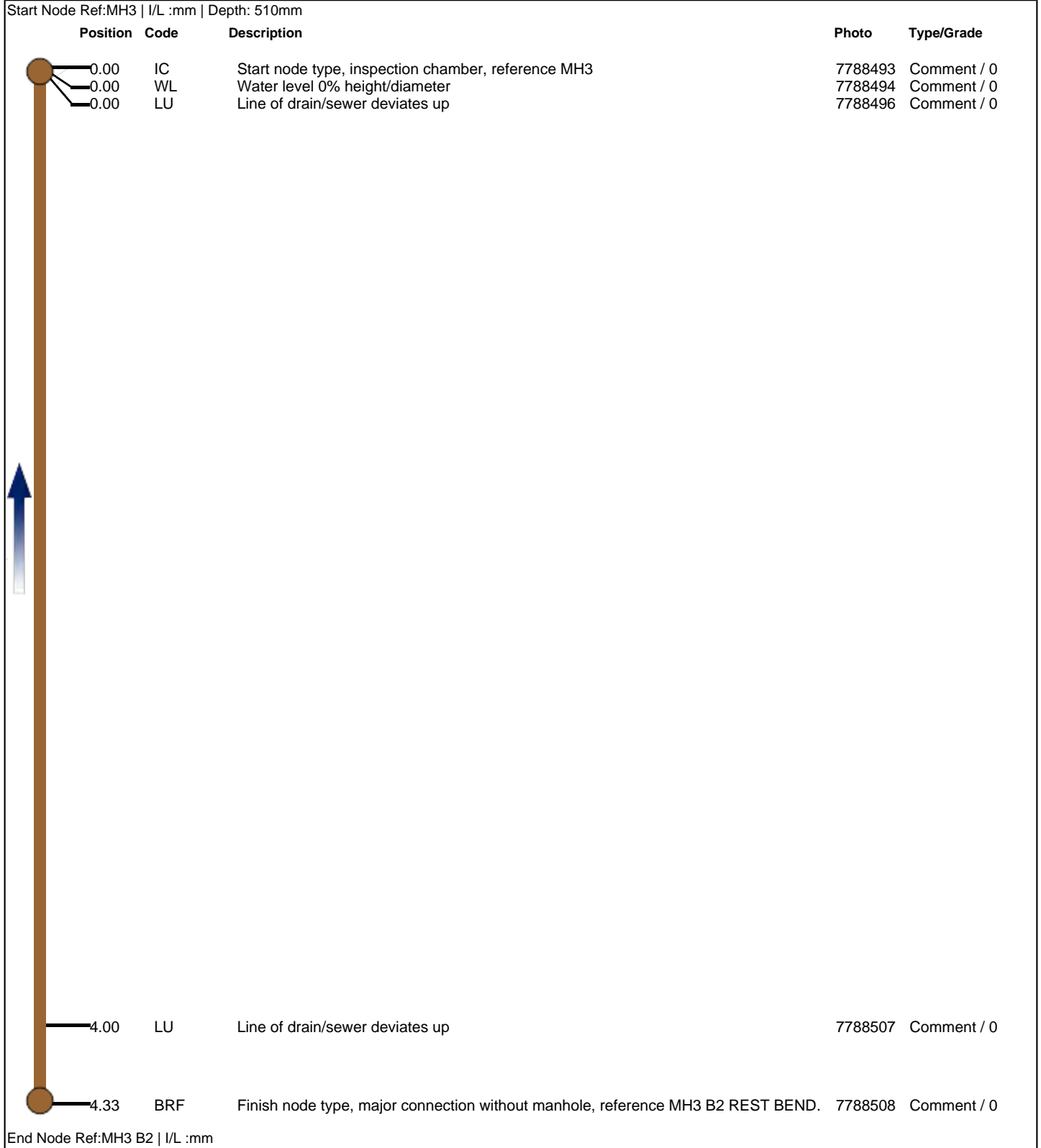
Line of drain/sewer deviates up



Finish node type, major connection without manhole, reference MH3 B1
REST BEND

Surveyed by (Operator) J.SEDGWICK	Job Number 7663	Pipe Length Reference(PLR) MH3 B2 X	Date 20/04/2023	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit APW55LDQTW	Section Number 9
Road MILLFIELD HOUSE Place LINLEY AVENUE Location HAXBY		Division District Location Details		
Purpose Duty Foul Catchment	Shape/Size 100mm Material Polyvinyl chloride Category	Start Node MH3 End Node MH3 B2 Total length 4.33 metres		

Scale **1:0.23**
Direction **Upstream**



End Node Ref:MH3 B2 | I/L :mm

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Start node type, inspection chamber, reference MH3



Water level 0% height/diameter



Line of drain/sewer deviates up



Line of drain/sewer deviates up



Finish node type, major connection without manhole, reference MH3 B2 REST BEND.

Surveyed by (Operator) J.SEDGWICK	Job Number 7663	Pipe Length Reference(PLR) MH3 X	Date 20/04/2023	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit APW55LDQTW	Section Number 10

Road MILLFIELD HOUSE Place LINLEY AVENUE Location HAXBY	Division District Location Details
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Purpose Duty Foul Catchment	Shape/Size 100mm Material Polyvinyl chloride Category	Start Node MH3 End Node MH5 Total length 16.5 metres
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Scale 1:0.87 Direction Downstream
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Start Node Ref:MH3 | I/L :mm | Depth: 510mm

Position	Code	Description	Photo	Type/Grade
0.00	IC	Start node type, inspection chamber, reference MH3	7788830	Comment / 0
0.00	WL	Water level 0% height/diameter	7788832	Comment / 0
3.55	LR	Line of drain/sewer deviates right	7788835	Comment / 0
15.43	LR	Line of drain/sewer deviates right	7788847	Comment / 0
16.50	ICF	Finish node type, inspection chamber, reference MH5	7788848	Comment / 0

End Node Ref:MH5 | I/L :mm

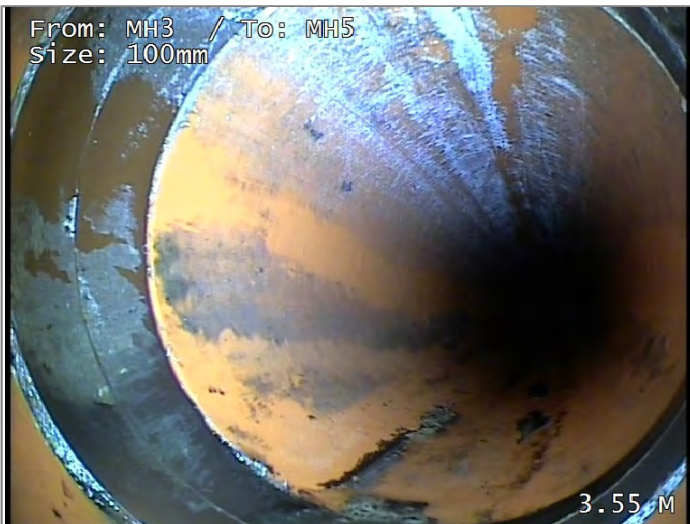
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Start node type, inspection chamber, reference MH3



Water level 0% height/diameter



Line of drain/sewer deviates right



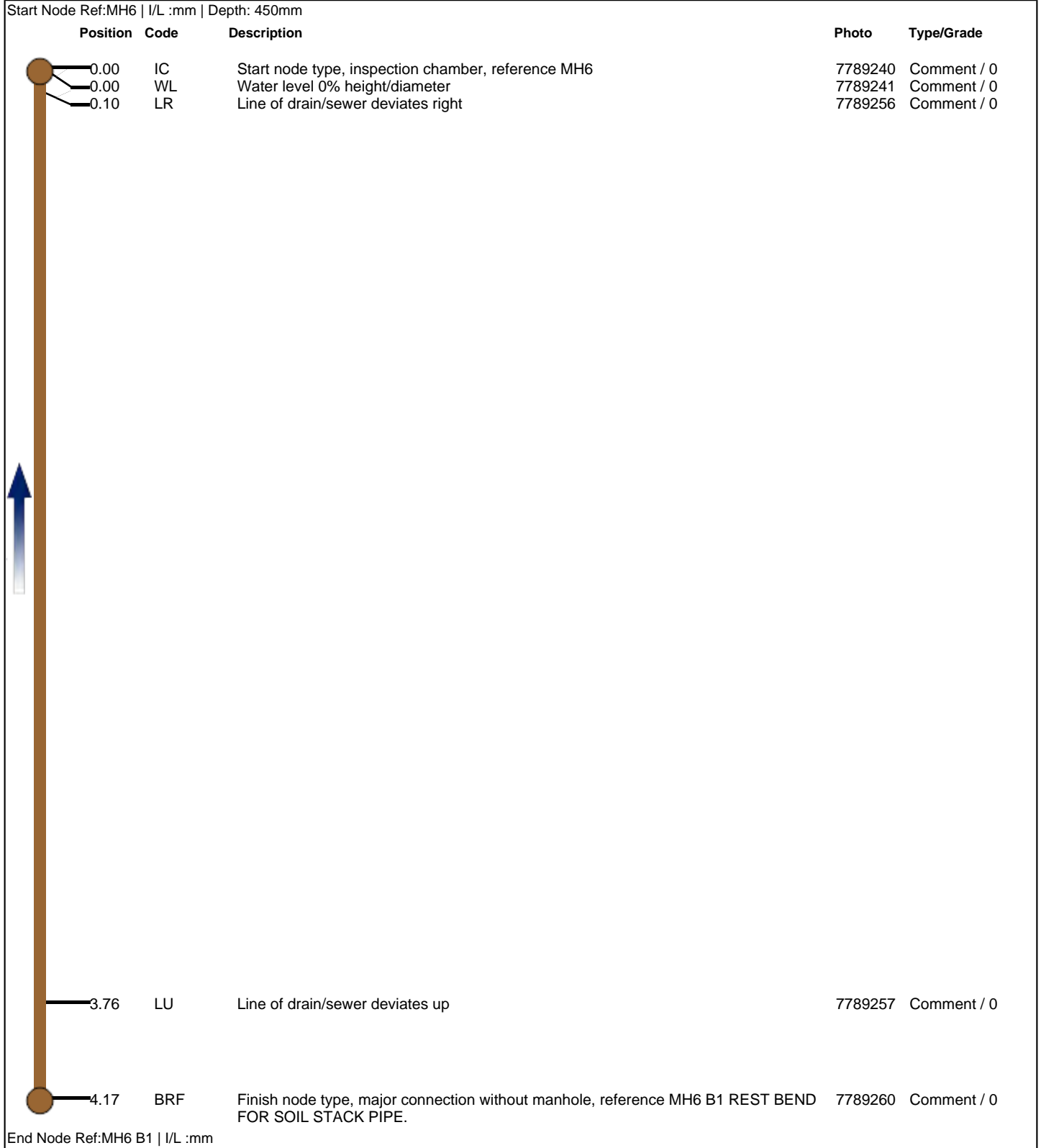
Line of drain/sewer deviates right



Finish node type, inspection chamber, reference MH5

Surveyed by (Operator) J.SEDGWICK	Job Number 7663	Pipe Length Reference(PLR) MH6 B1 X	Date 20/04/2023	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit APW55LDQTW	Section Number 11
Road MILLFIELD HOUSE Place LINLEY AVENUE Location HAXBY		Division District Location Details		
Purpose Duty Foul Catchment	Shape/Size 100mm Material Polyvinyl chloride Category	Start Node MH6 End Node MH6 B1 Total length 4.17 metres		

Scale **1:0.22**
Direction **Upstream**



End Node Ref:MH6 B1 | I/L :mm

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Start node type, inspection chamber, reference MH6



Water level 0% height/diameter



Line of drain/sewer deviates right



Line of drain/sewer deviates up



Finish node type, major connection without manhole, reference MH6 B1
REST BEND FOR SOIL STACK PIPE.

Surveyed by (Operator) J.SEDGWICK	Job Number 7663	Pipe Length Reference(PLR) MH6 X	Date 20/04/2023	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit APW55LDQTW	Section Number 12

Road MILLFIELD HOUSE Place LINLEY AVENUE Location HAXBY	Division District Location Details
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Purpose Duty Foul Catchment	Shape/Size 100mm Material Polyvinyl chloride Category	Start Node MH6 End Node MH5 Total length 23.98 metres
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Scale **1:1.26**
Direction **Downstream**

Start Node Ref:MH6 | I/L :mm | Depth: 450mm

Position	Code	Description	Photo	Type/Grade
0.00	IC	Start node type, inspection chamber, reference MH6	7789472	Comment / 0
0.00	WL	Water level 0% height/diameter	7789474	Comment / 0
5.67	JN	Junction at 11 o'clock, diameter 100mm	7789475	Comment / 0
11.81	LL	Line of drain/sewer deviates left	7789490	Comment / 0
23.69	LL	Line of drain/sewer deviates left	7789506	Comment / 0
23.98	ICF	Finish node type, inspection chamber, reference MH5	7789512	Comment / 0

End Node Ref:MH5 | I/L :mm | Depth: 1000mm

Job Number 7663	Surveyed by (Operator) J.SEDGWICK	Base Unit APW55LDQTW	Date 20/04/2023
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Start node type, inspection chamber, reference MH6



Water level 0% height/diameter



Junction at 11 o'clock, diameter 100mm



Line of drain/sewer deviates left



Line of drain/sewer deviates left



Finish node type, inspection chamber, reference MH5

Surveyed by (Operator) J.SEDGWICK	Job Number 7663	Pipe Length Reference(PLR) MH5 X	Date 20/04/2023	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit APW55LDQTW	Section Number 13

Road MILLFIELD HOUSE Place LINLEY AVENUE Location HAXBY	Division District Location Details
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Purpose Duty Foul Catchment	Shape/Size 100mm Material Polyvinyl chloride Category	Start Node MH5 End Node MH7 (BURIED) Total length 1.95 metres
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Scale **1:0.10**
Direction **Downstream**

Start Node Ref:MH5 | I/L :mm | Depth: 1000mm



End Node Ref:MH7 (BURIED) | I/L :mm

Job Number 7663	Surveyed by (Operator) J.SEDGWICK	Base Unit APW55LDQTW	Date 20/04/2023
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Start node type, inspection chamber, reference MH5



Water level 0% height/diameter



Line of drain/sewer deviates right



Finish node type, inspection chamber, reference MH7 (BURIED)

Surveyed by (Operator) J.SEDGWICK	Job Number 7663	Pipe Length Reference(PLR) MH7 (BURIEX)	Date 20/04/2023	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit APW55LDQTW	Section Number 14

Road MILLFIELD HOUSE Place LINLEY AVENUE Location HAXBY	Division District Location Details
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Purpose Duty Foul Catchment	Shape/Size 100mm Material Polyvinyl chloride Category	Start Node MH7 (BURIED) End Node PUMPING STATION Total length 0.31 metres
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Scale **1:0.02**
Direction **Downstream**

Start Node Ref:MH7 (BURIED) | I/L :mm | Depth: 1100mm



End Node Ref:PUMPING STATION | I/L :mm

Job Number 7663	Surveyed by (Operator) J.SEDGWICK	Base Unit APW55LDQTW	Date 20/04/2023
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Start node type, inspection chamber, reference MH7 (BURIED)



Water level 0% height/diameter



Line of drain/sewer deviates right



Finish node type, other special chamber, reference PUMPING STATION

Surveyed by (Operator) J.SEDGWICK	Job Number 7663	Pipe Length Reference(PLR) MH8 B1 X	Date 20/04/2023	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit APW55LDQTW	Section Number 15

Road MILLFIELD HOUSE Place LINLEY AVENUE Location HAXBY	Division District Location Details
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Purpose Duty Surface water Catchment	Shape/Size 100mm Material Polyvinyl chloride Category	Start Node MH8 End Node MH8 B1 Total length 18.71 metres
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Scale 1:0.98 Direction Upstream
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Start Node Ref:MH8 | I/L :mm | Depth: 300mm

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH8	7790611	Comment / 0
0.00	WL	Water level 0% height/diameter	7790612	Comment / 0
0.02	LL	Line of drain/sewer deviates left	7790613	Comment / 0
6.29	JN	Junction at 2 o'clock, diameter 100mm	7790614	Comment / 0
10.33	JN	Junction at 3 o'clock, diameter 100mm	7790615	Comment / 0
13.90	JN	Junction at 2 o'clock, diameter 100mm	7790617	Comment / 0
15.45	LR	Line of drain/sewer deviates right	7790621	Comment / 0
17.40	JN	Junction at 2 o'clock, diameter 100mm	7790622	Comment / 0
17.90	LU	Line of drain/sewer deviates up	7790623	Comment / 0
18.71	GYF	Finish node type, gully, reference MH8 B1	7790624	Comment / 0

End Node Ref:MH8 B1 | I/L :mm

Job Number 7663	Surveyed by (Operator) J.SEDGWICK	Base Unit APW55LDQTW	Date 20/04/2023
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Start node type, manhole, reference MH8



Water level 0% height/diameter



Line of drain/sewer deviates left



Junction at 2 o'clock, diameter 100mm



Junction at 3 o'clock, diameter 100mm



Junction at 2 o'clock, diameter 100mm

Job Number 7663	Surveyed by (Operator) J.SEDGWICK	Base Unit APW55LDQTW	Date 20/04/2023
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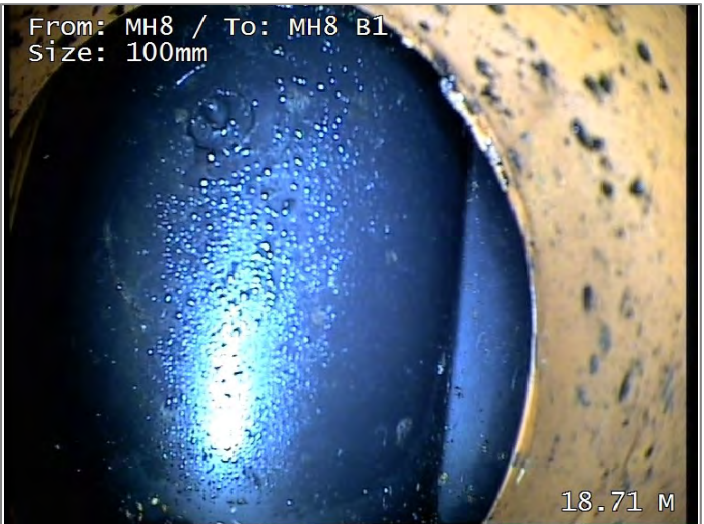
Line of drain/sewer deviates right



Junction at 2 o'clock, diameter 100mm



Line of drain/sewer deviates up



Finish node type, gully, reference MH8 B1

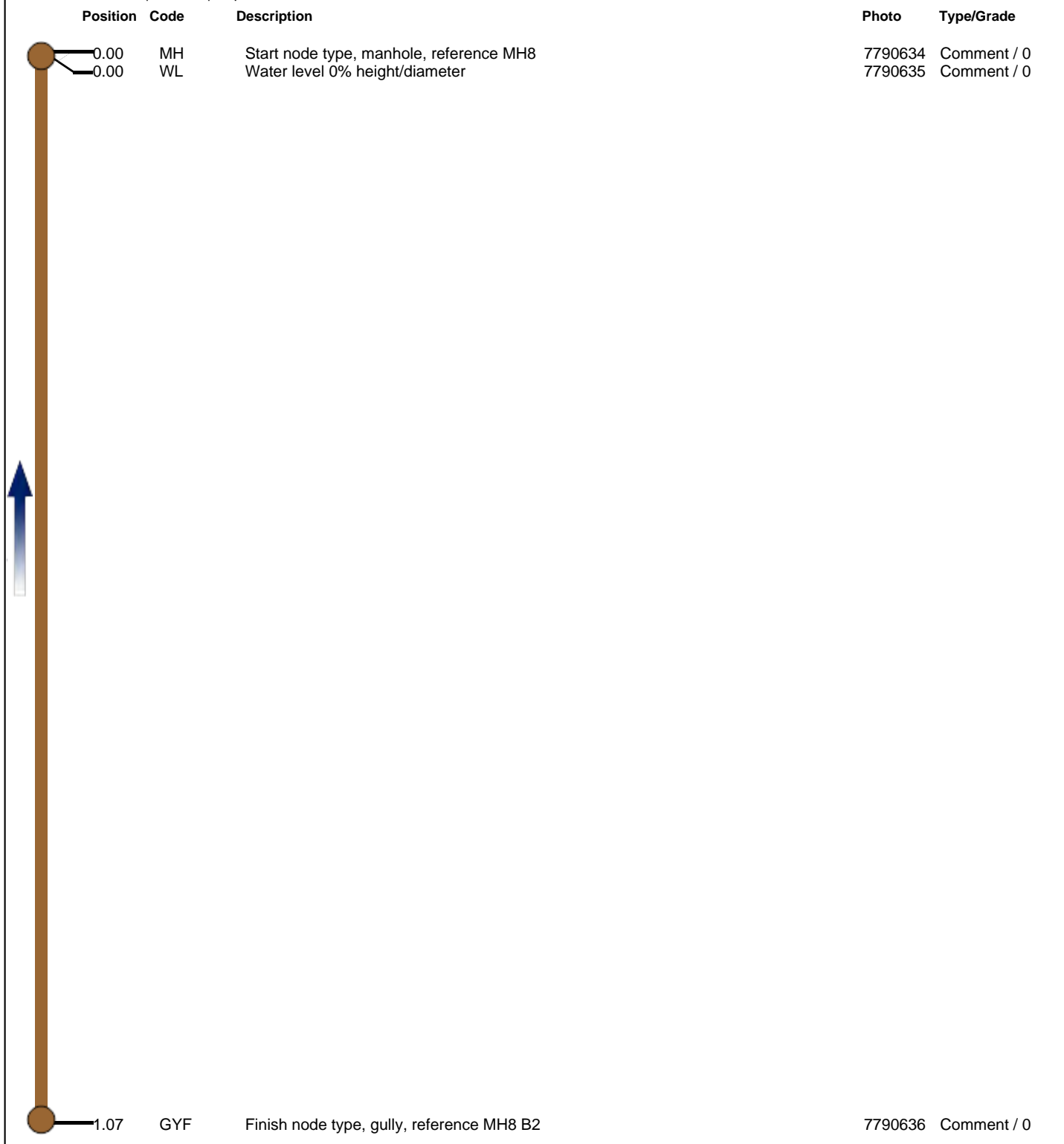
Surveyed by (Operator) J.SEDGWICK	Job Number 7663	Pipe Length Reference(PLR) MH8 B2 X	Date 20/04/2023	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit APW55LDQTW	Section Number 16

Road MILLFIELD HOUSE Place LINLEY AVENUE Location HAXBY	Division District Location Details
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Purpose Duty Surface water Catchment	Shape/Size 100mm Material Polyvinyl chloride Category	Start Node MH8 End Node MH8 B2 Total length 1.07 metres
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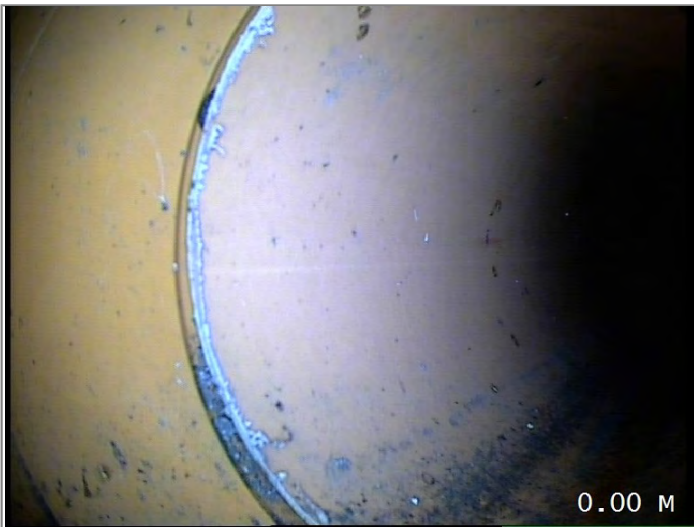
Scale 1:0.06 Direction Upstream
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Start Node Ref:MH8 | I/L :mm | Depth: 300mm

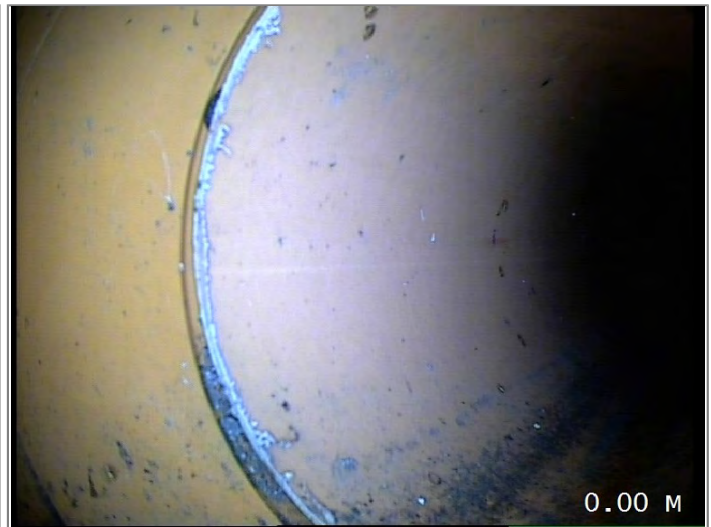


End Node Ref:MH8 B2 | I/L :mm

Job Number 7663	Surveyed by (Operator) J.SEDGWICK	Base Unit APW55LDQTW	Date 20/04/2023
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Start node type, manhole, reference MH8



Water level 0% height/diameter



Finish node type, gully, reference MH8 B2

Surveyed by (Operator) J.SEDGWICK	Job Number 7663	Pipe Length Reference(PLR) MH8 X	Date 20/04/2023	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit APW55LDQTW	Section Number 17

Road MILLFIELD HOUSE Place LINLEY AVENUE Location HAXBY	Division District Location Details
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Purpose Duty Surface water Catchment	Shape/Size 100mm Material Polyvinyl chloride Category	Start Node MH8 End Node MH9 Total length 10.48 metres
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Scale 1:0.55 Direction Downstream
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Start Node Ref:MH8 | I/L :mm | Depth: 300mm

Position	Code	Description	Photo	Type/Grade
0.00	IC	Start node type, inspection chamber, reference MH8	7790640	Comment / 0
0.00	WL	Water level 0% height/diameter	7790641	Comment / 0
0.02	LL	Line of drain/sewer deviates left	7790643	Comment / 0
10.48	ICF	Finish node type, inspection chamber, reference MH9	7790658	Comment / 0

End Node Ref:MH9 | I/L :mm

Job Number 7663	Surveyed by (Operator) J.SEDGWICK	Base Unit APW55LDQTW	Date 20/04/2023
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Start node type, inspection chamber, reference MH8



Water level 0% height/diameter



Line of drain/sewer deviates left



Finish node type, inspection chamber, reference MH9

Surveyed by (Operator) J.SEDGWICK	Job Number 7663	Pipe Length Reference(PLR) MH9 B1 X	Date 20/04/2023	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit APW55LDQTW	Section Number 18

Road MILLFIELD HOUSE Place LINLEY AVENUE Location HAXBY	Division District Location Details
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Purpose Duty Surface water Catchment	Shape/Size 100mm Material Polyvinyl chloride Category	Start Node MH9 End Node MH9 B1 Total length 2.38 metres
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Scale 1:0.12 Direction Upstream
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Start Node Ref:MH9 | I/L :mm | Depth: 660mm

Position	Code	Description	Photo	Type/Grade
0.00	IC	Start node type, inspection chamber, reference MH9	7790755	Comment / 0
0.00	WL	Water level 0% height/diameter	7790756	Comment / 0
2.38	GYF	Finish node type, gully, reference MH9 B1	7790763	Comment / 0

End Node Ref:MH9 B1 | I/L :mm

Job Number 7663	Surveyed by (Operator) J.SEDGWICK	Base Unit APW55LDQTW	Date 20/04/2023
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Start node type, inspection chamber, reference MH9



Water level 0% height/diameter



Finish node type, gully, reference MH9 B1

Surveyed by (Operator) J.SEDGWICK	Job Number 7663	Pipe Length Reference(PLR) MH9 B2 X	Date 20/04/2023	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit APW55LDQTW	Section Number 19

Road MILLFIELD HOUSE Place LINLEY AVENUE Location HAXBY	Division District Location Details
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Purpose Duty Surface water Catchment	Shape/Size 100mm Material Polyvinyl chloride Category	Start Node MH9 End Node MH9 B2 Total length 22.48 metres
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Scale **1:1.18**
Direction **Upstream**

Start Node Ref:MH9 | I/L :mm | Depth: 660mm

Position	Code	Description	Photo	Type/Grade
0.00	IC	Start node type, inspection chamber, reference MH9	7790788	Comment / 0
0.00	WL	Water level 0% height/diameter	7790853	Comment / 0
4.26	JN	Junction at 9 o'clock, diameter 100mm	7790854	Comment / 0
15.60	JN	Junction at 9 o'clock, diameter 100mm	7790856	Comment / 0
21.74	JN	Junction at 9 o'clock, diameter 100mm	7790857	Comment / 0
22.02	LU	Line of drain/sewer deviates up	7790858	Comment / 0
22.48	REF	Finish node type, rodding eye, reference MH9 B2	7790859	Comment / 0

End Node Ref:MH9 B2 | I/L :mm

Job Number 7663	Surveyed by (Operator) J.SEDGWICK	Base Unit APW55LDQTW	Date 20/04/2023
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Start node type, inspection chamber, reference MH9



Water level 0% height/diameter



Junction at 9 o'clock, diameter 100mm



Junction at 9 o'clock, diameter 100mm



Junction at 9 o'clock, diameter 100mm



Line of drain/sewer deviates up

Job Number
7663

Surveyed by (Operator)
J.SEDGWICK

Base Unit
APW55LDQTW

Date
20/04/2023



Finish node type, rodding eye, reference MH9 B2

Surveyed by (Operator) J.SEDGWICK	Job Number 7663	Pipe Length Reference(PLR) MH9 X	Date 20/04/2023	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 3/4	Base Unit APW55LDQTW	Section Number 20
Road MILLFIELD HOUSE Place LINLEY AVENUE Location HAXBY		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 100mm Material Polyvinyl chloride Category	Start Node MH9 End Node PRESUMED SOAKAWAY Total length 22.05 metres		

Scale **1:1.16**
Direction **Downstream**

Start Node Ref:MH9 | I/L :mm | Depth: 660mm

Position	Code	Description	Photo	Type/Grade
0.00	IC	Start node type, inspection chamber, reference MH9	7791044	Comment / 0
0.00	WL	Water level 0% height/diameter	7791045	Comment / 0
2.24	WL	Water level 10% height/diameter	7791050	Comment / 0
4.17	RM	Roots mass 5% cross-sectional area loss	7791056	Service / 3
4.17	OJ	Open joint 10mm	7791057	Structural / 4
14.79	WL	Water level 20% height/diameter	7791068	Comment / 0
17.12	WL	Water level 30% height/diameter	7791069	Comment / 0
20.10	CUW	Loss of vision, camera under water	7791070	Comment / 0
22.05	SA	Survey abandoned - Remark: UNABLE TO PASS THIS POINT.	7791087	Comment / 0

End Node Ref:PRESUMED SOAKAWAY | I/L :mm

Job Number 7663	Surveyed by (Operator) J.SEDGWICK	Base Unit APW55LDQTW	Date 20/04/2023
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Start node type, inspection chamber, reference MH9



Water level 0% height/diameter



Water level 10% height/diameter



Roots mass 5% cross-sectional area loss



Open joint 10mm



Water level 20% height/diameter

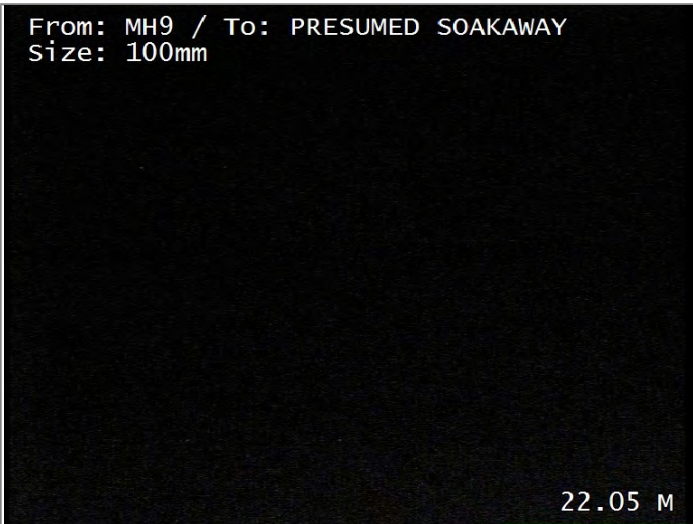
Job Number 7663	Surveyed by (Operator) J.SEDGWICK	Base Unit APW55LDQTW	Date 20/04/2023
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Water level 30% height/diameter



Loss of vision, camera under water



Survey abandoned - Remark: UNABLE TO PASS THIS POINT.

Job Number 7663				Surveyed by (Operator) J.SEDGWICK			Base Unit APW55LDQTW			Date 20/04/2023			
No.	PLR	Dir.	Use	Shape/Size	Date	Mat.	Total Length	Inspection Length	Cat.	Peak Score	Grade	Mean Score	Total Score
1	MH1 B1 X	U	F	100	20/04/2023	Polyvinyl chloride	2.5 metres	2.5		0	1	0	0
2	MH1 B2 X	U	F	100	20/04/2023	Polyvinyl chloride	2.74 metres	2.74		0	1	0	0
3	MH1 X	D	F	100	20/04/2023	Polyvinyl chloride	1.98 metres	1.98		0	1	0	0
4	MH2 B1 X	U	F	100	20/04/2023	Polyvinyl chloride	2.74 metres	2.74		0	1	0	0
5	MH2 X	D	F	100	20/04/2023	Polyvinyl chloride	6.83 metres	6.83		0	1	0	0
6	MH4 B1 X	U	F	100	20/04/2023	Polyvinyl chloride	0.48 metres	0.48		0	1	0	0
7	MH4 X	D	F	100	20/04/2023	Polyvinyl chloride	3.05 metres	3.05		0	1	0	0
8	MH3 B1 X	U	F	100	20/04/2023	Polyvinyl chloride	0.88 metres	0.88		0	1	0	0
9	MH3 B2 X	U	F	100	20/04/2023	Polyvinyl chloride	4.33 metres	4.33		0	1	0	0
10	MH3 X	D	F	100	20/04/2023	Polyvinyl chloride	16.5 metres	16.5		0	1	0	0
11	MH6 B1 X	U	F	100	20/04/2023	Polyvinyl chloride	4.17 metres	4.17		0	1	0	0
12	MH6 X	D	F	100	20/04/2023	Polyvinyl chloride	23.98 metres	23.98		0	1	0	0
13	MH5 X	D	F	100	20/04/2023	Polyvinyl chloride	1.95 metres	1.95		0	1	0	0
14	MH7 (BURIEX)	D	F	100	20/04/2023	Polyvinyl chloride	0.31 metres	0.31		0	1	0	0
15	MH8 B1 X	U	S	100	20/04/2023	Polyvinyl chloride	18.71 metres	18.71		0	1	0	0
16	MH8 B2 X	U	S	100	20/04/2023	Polyvinyl chloride	1.07 metres	1.07		0	1	0	0
17	MH8 X	D	S	100	20/04/2023	Polyvinyl chloride	10.48 metres	10.48		0	1	0	0
18	MH9 B1 X	U	S	100	20/04/2023	Polyvinyl chloride	2.38 metres	2.38		0	1	0	0
19	MH9 B2 X	U	S	100	20/04/2023	Polyvinyl chloride	22.48 metres	22.48		0	1	0	0
20	MH9 X	D	S	100	20/04/2023	Polyvinyl chloride	22.05 metres	22.05		40	4	1.81	40

Job Number 7663				Surveyed by (Operator) J.SEDGWICK			Base Unit APW55LDQTW			Date 20/04/2023			
No.	PLR	Dir.	Use	Shape/Size	Date	Mat.	Total Length	Inspection Length	Cat.	Peak Score	Grade	Mean Score	Total Score
1	MH1 B1 X	U	F	100	20/04/2023	Polyvinyl chloride	2.5 metres	2.5		0	1	0	0
2	MH1 B2 X	U	F	100	20/04/2023	Polyvinyl chloride	2.74 metres	2.74		0	1	0	0
3	MH1 X	D	F	100	20/04/2023	Polyvinyl chloride	1.98 metres	1.98		0	1	0	0
4	MH2 B1 X	U	F	100	20/04/2023	Polyvinyl chloride	2.74 metres	2.74		0	1	0	0
5	MH2 X	D	F	100	20/04/2023	Polyvinyl chloride	6.83 metres	6.83		0	1	0	0
6	MH4 B1 X	U	F	100	20/04/2023	Polyvinyl chloride	0.48 metres	0.48		0	1	0	0
7	MH4 X	D	F	100	20/04/2023	Polyvinyl chloride	3.05 metres	3.05		0	1	0	0
8	MH3 B1 X	U	F	100	20/04/2023	Polyvinyl chloride	0.88 metres	0.88		0	1	0	0
9	MH3 B2 X	U	F	100	20/04/2023	Polyvinyl chloride	4.33 metres	4.33		0	1	0	0
10	MH3 X	D	F	100	20/04/2023	Polyvinyl chloride	16.5 metres	16.5		0	1	0	0
11	MH6 B1 X	U	F	100	20/04/2023	Polyvinyl chloride	4.17 metres	4.17		0	1	0	0
12	MH6 X	D	F	100	20/04/2023	Polyvinyl chloride	23.98 metres	23.98		0	1	0	0
13	MH5 X	D	F	100	20/04/2023	Polyvinyl chloride	1.95 metres	1.95		0	1	0	0
14	MH7 (BURIEX)	D	F	100	20/04/2023	Polyvinyl chloride	0.31 metres	0.31		0	1	0	0
15	MH8 B1 X	U	S	100	20/04/2023	Polyvinyl chloride	18.71 metres	18.71		0	1	0	0
16	MH8 B2 X	U	S	100	20/04/2023	Polyvinyl chloride	1.07 metres	1.07		0	1	0	0
17	MH8 X	D	S	100	20/04/2023	Polyvinyl chloride	10.48 metres	10.48		0	1	0	0
18	MH9 B1 X	U	S	100	20/04/2023	Polyvinyl chloride	2.38 metres	2.38		0	1	0	0
19	MH9 B2 X	U	S	100	20/04/2023	Polyvinyl chloride	22.48 metres	22.48		0	1	0	0
20	MH9 X	D	S	100	20/04/2023	Polyvinyl chloride	22.05 metres	22.05		2	3	0.09	2

Job Number 7663	Surveyed by (Operator) J.SEDGWICK	Base Unit APW55LDQTW	Date 20/04/2023
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1: Occurences without damage. For example, laterals, joints,etc.

NO DEFECTS WERE DETECTED.

2: Constructional deficiencies or occurences with insignificant influence to tightness, hydraulic or static pressure or pipe: Eg. wide joints, badly torched intakes, minor deformation of plastic pipes, minor erosions etc.

REHABILITATION CAN BE SCHEDULED LONG-TERM.

3: Constructional deficiencies diminishing static, hydraulic and tightness: Eg. untorched intakes, cracks, minor drainage obstructions such as calcite build ups, protruding laterals, minor damages to pipe wall, individual root penetrations, corroded pipe walls etc.

REHABILITATION IS NECESSARY MEDIUM-TERM WITHIN 3 TO 5 YEARS.

4: Constructional damages with insufficient static safety, hydraulic or tightness: Eg. axial/radial pipe bursts, pipe deformations, visually noticeable infiltration/exfiltration, cavities, in pipe-wall, severe protruding, laterals severe root penetrations, severe corrosion of pipe wall etc.

REHABILITATION PROCEDURE IS URGENT AND HAS TO BE COMPLETED WITHIN 1 TO 2 YEARS. NECESSITY FOR EMERGENCY OPERATIONS HAS TO BE EXAMINED.

5: Pipe is already or will shortly be impermeable: Eg. collapsed pipe, deeply rooted pipe or other drainage obstructions. Pipe loses water or danger of backwater in basements etc.

REHABILITATION IS URGENT AND SHORT-TERM. IN ORDER TO PREVENT FURTHER DAMAGE, NECESSARY TEMPORARY SPOT REPAIR HAS TO BE CONDUCTED ON EMERGENCY LEVEL.