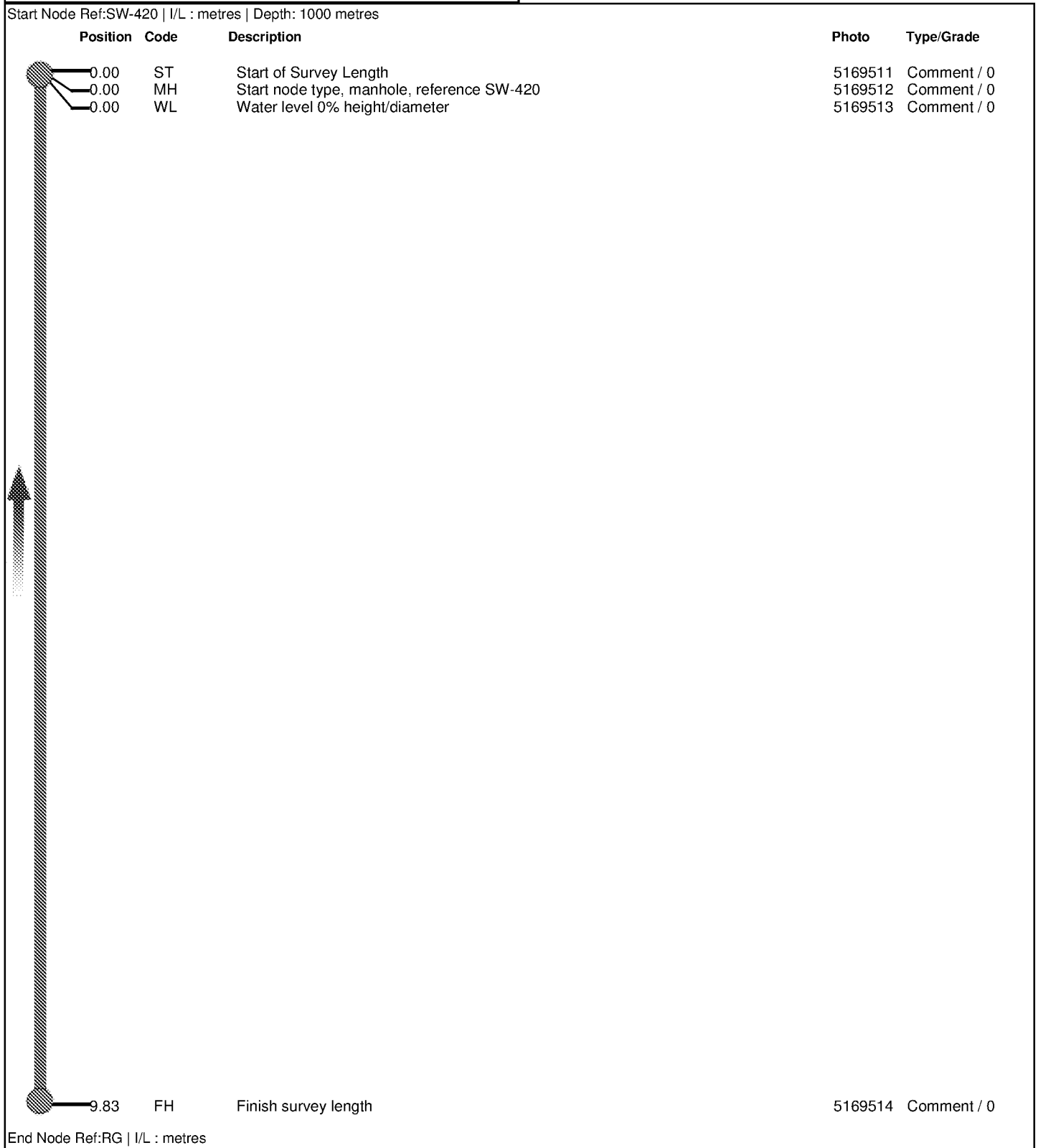
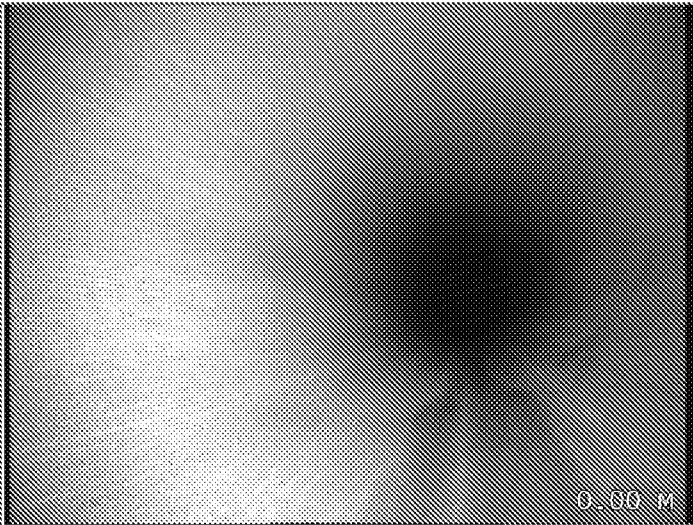
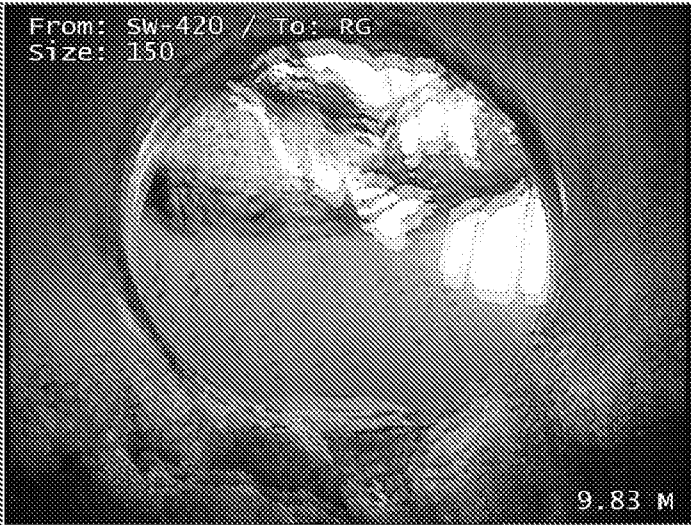
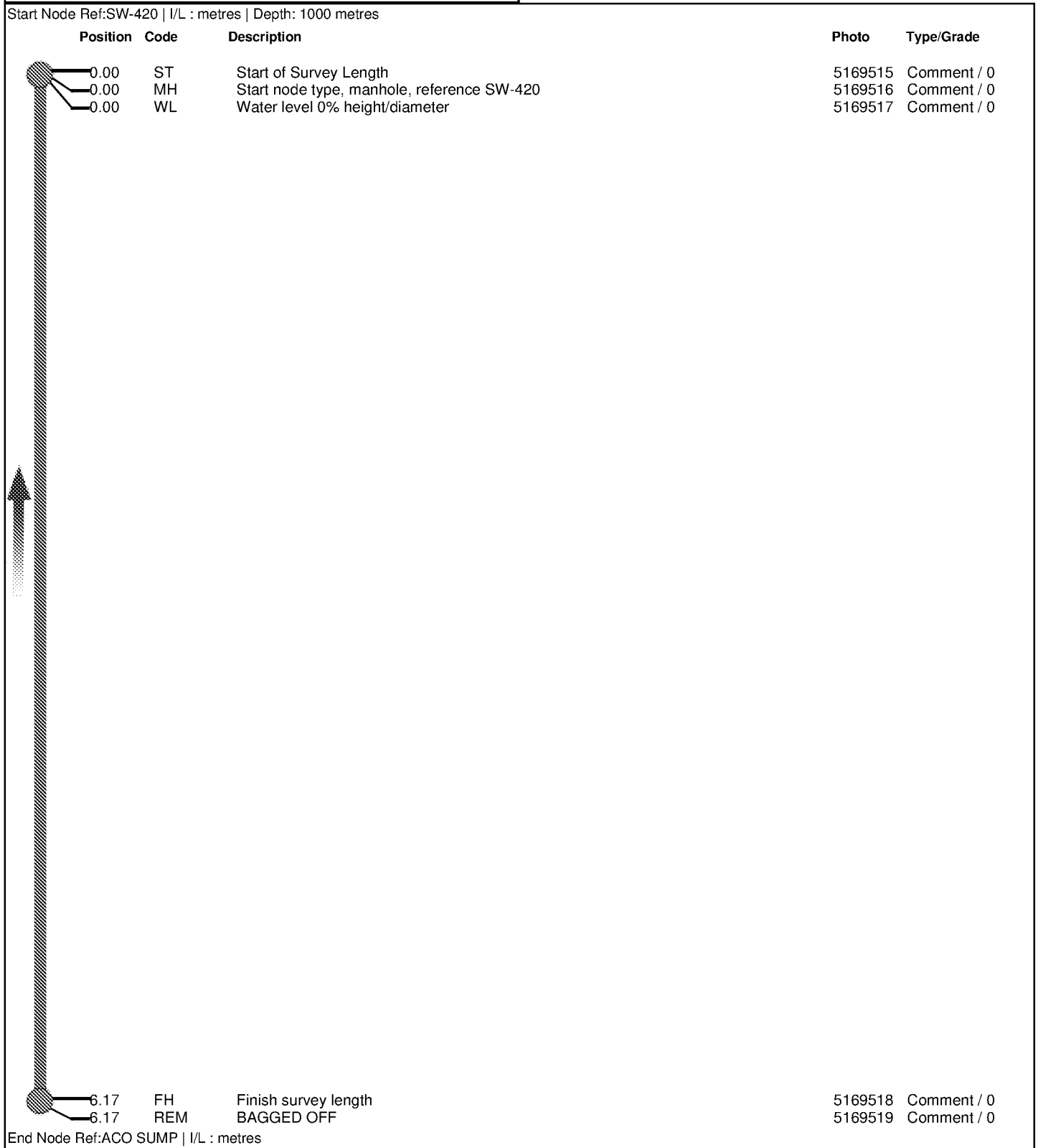


Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) RG X	Date 09/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 33
Road UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 150mm Material Polyethylene Category	Start Node SW-420 End Node RG Total length 9.83 metres		
Scale 1:0.47 Direction Upstream				



Job Number 434	Surveyed by (Operator) Luke Clayton	Base Unit 8J5R2AEYKL	Date 09/06/2021
 0.00 M Start of Survey Length, Start node type, manhole, reference SW-420, Water level 0% height/diameter		 From: SW-420 / To: RG Size: 150 9.83 M Finish survey length	

Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) ACO SUMP X	Date 09/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 34
Road UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 150mm Material Polyethylene Category	Start Node SW-420 End Node ACO SUMP Total length 6.17 metres		
Scale 1:0.31 Direction Upstream				



Job Number
434

Surveyed by (Operator)
Luke Clayton

Base Unit
8J5R2AEYKL

Date
09/06/2021



Start of Survey Length, Start node type, manhole, reference SW-420,
Water level 0% height/diameter

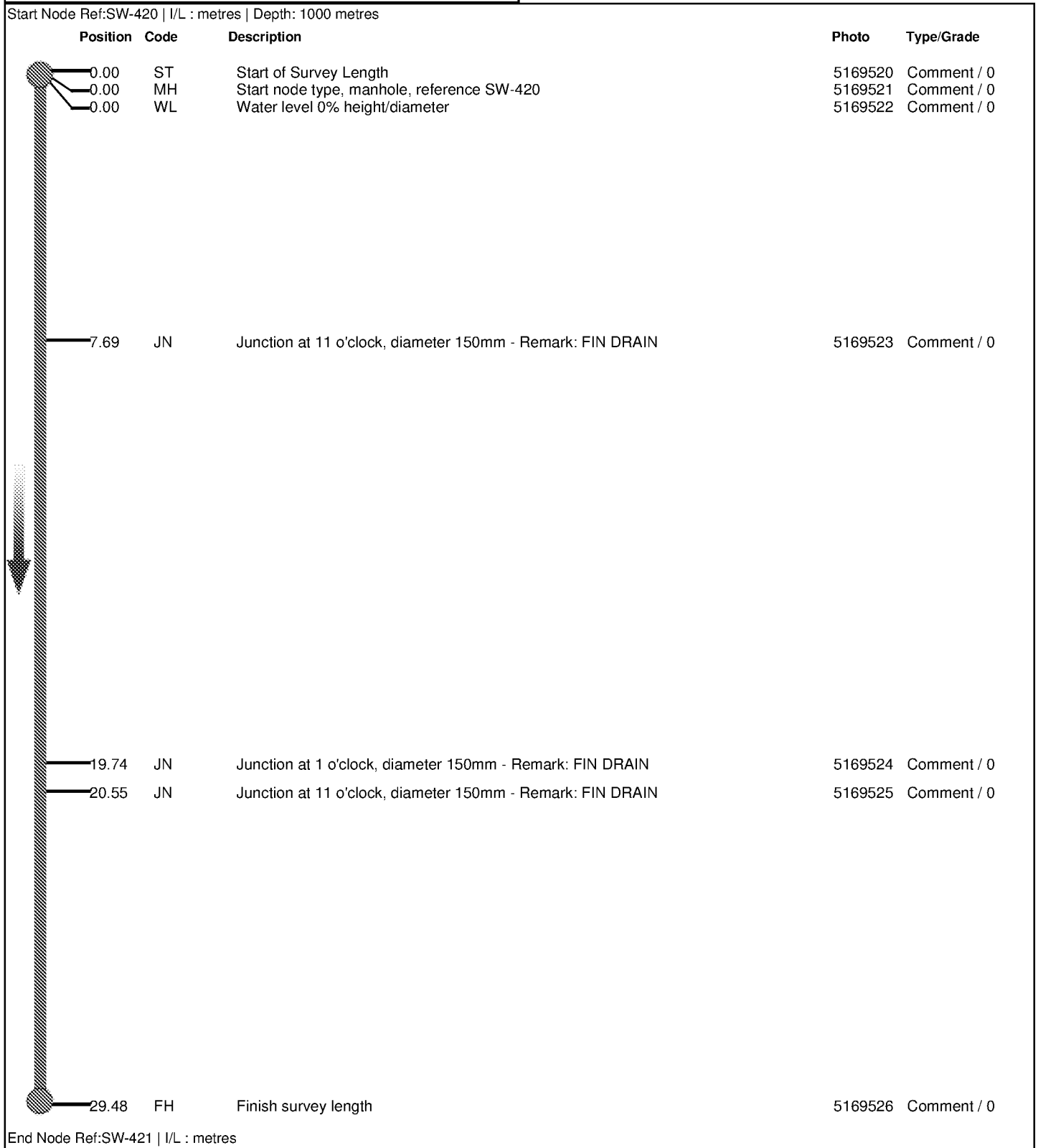


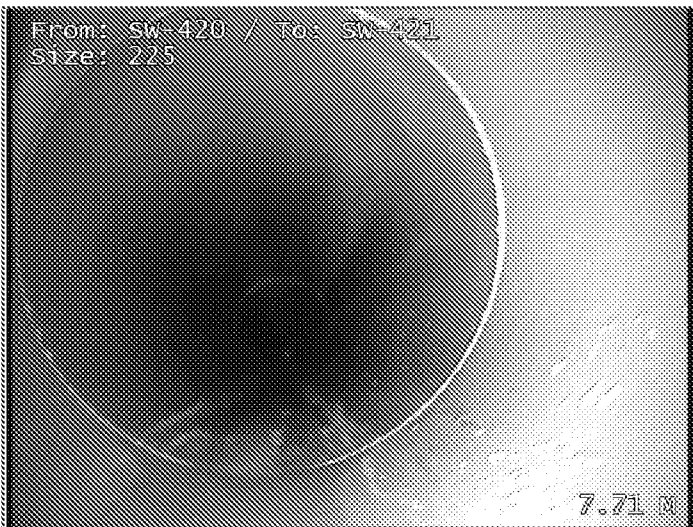
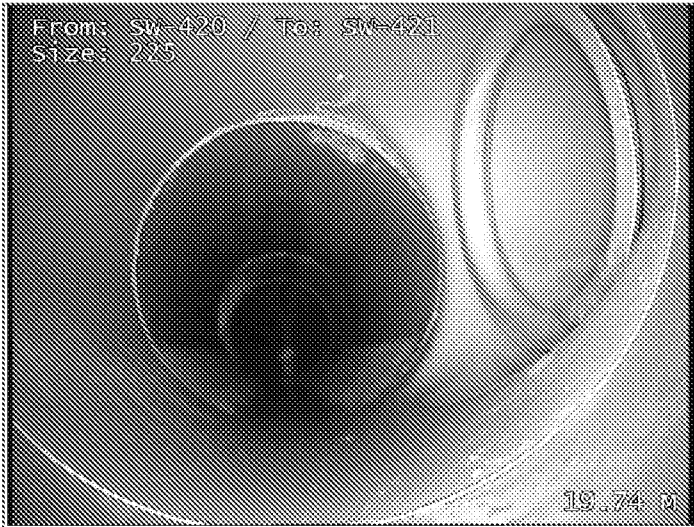
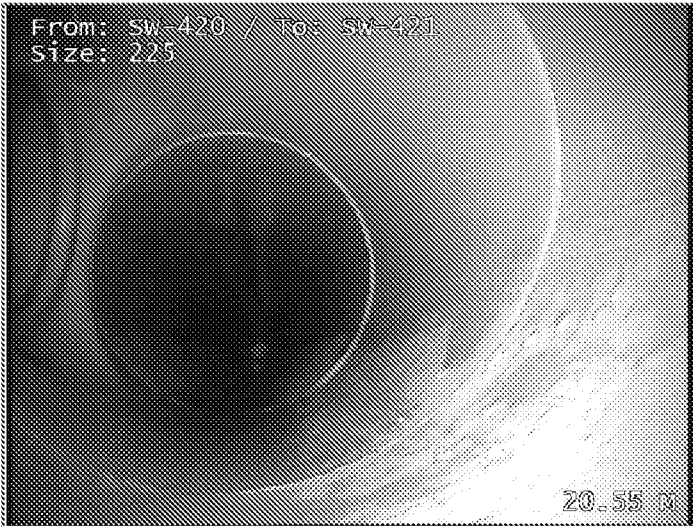
Finish survey length



BAGGED OFF

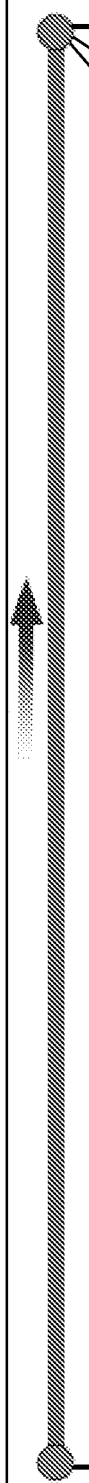
Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) SW-420 X	Date 09/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 35
Road UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 225mm Material Polyethylene Category	Start Node SW-420 End Node SW-421 Total length 29.48 metres		
Scale 1:1.52 Direction Downstream				



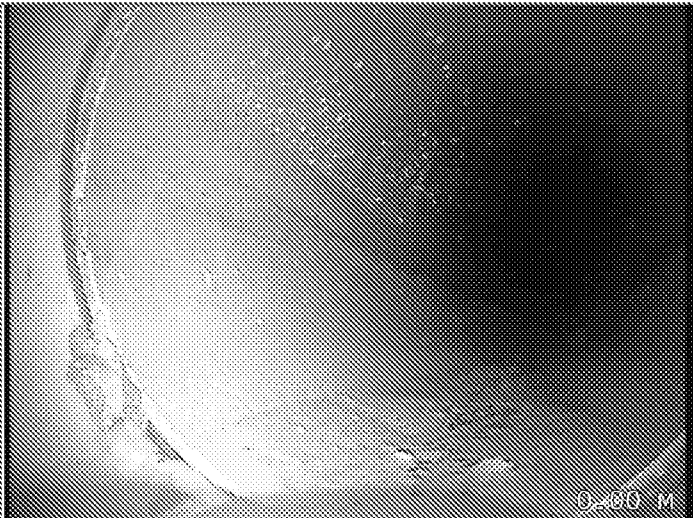
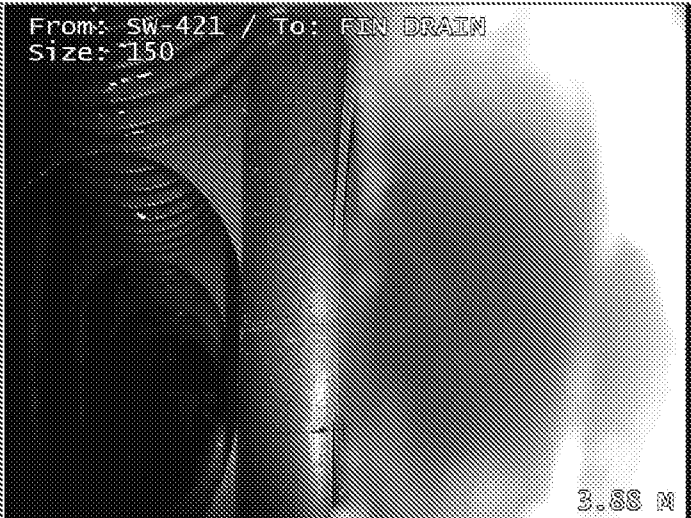
Job Number 434	Surveyed by (Operator) Luke Clayton	Base Unit 8J5R2AEYKL	Date 09/06/2021
 0.00 M Start of Survey Length, Start node type, manhole, reference SW-420, Water level 0% height/diameter		 From: SW-420 / To: SW-421 Size: 225 7.71 M Junction at 11 o'clock, diameter 150mm - Remark: FIN DRAIN	
 From: SW-420 / To: SW-421 Size: 225 19.74 M Junction at 1 o'clock, diameter 150mm - Remark: FIN DRAIN		 From: SW-420 / To: SW-421 Size: 225 20.55 M Junction at 11 o'clock, diameter 150mm - Remark: FIN DRAIN	
 From: SW-420 / To: SW-421 Size: 225 29.48 M Finish survey length			

Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) FIN DRAIN X	Date 09/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 36
Road UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 150mm Material Polyethylene Category	Start Node SW-421 End Node FIN DRAIN Total length 3.88 metres		
Scale 1:0.16 Direction Upstream				

Start Node Ref:SW-421 | I/L : metres

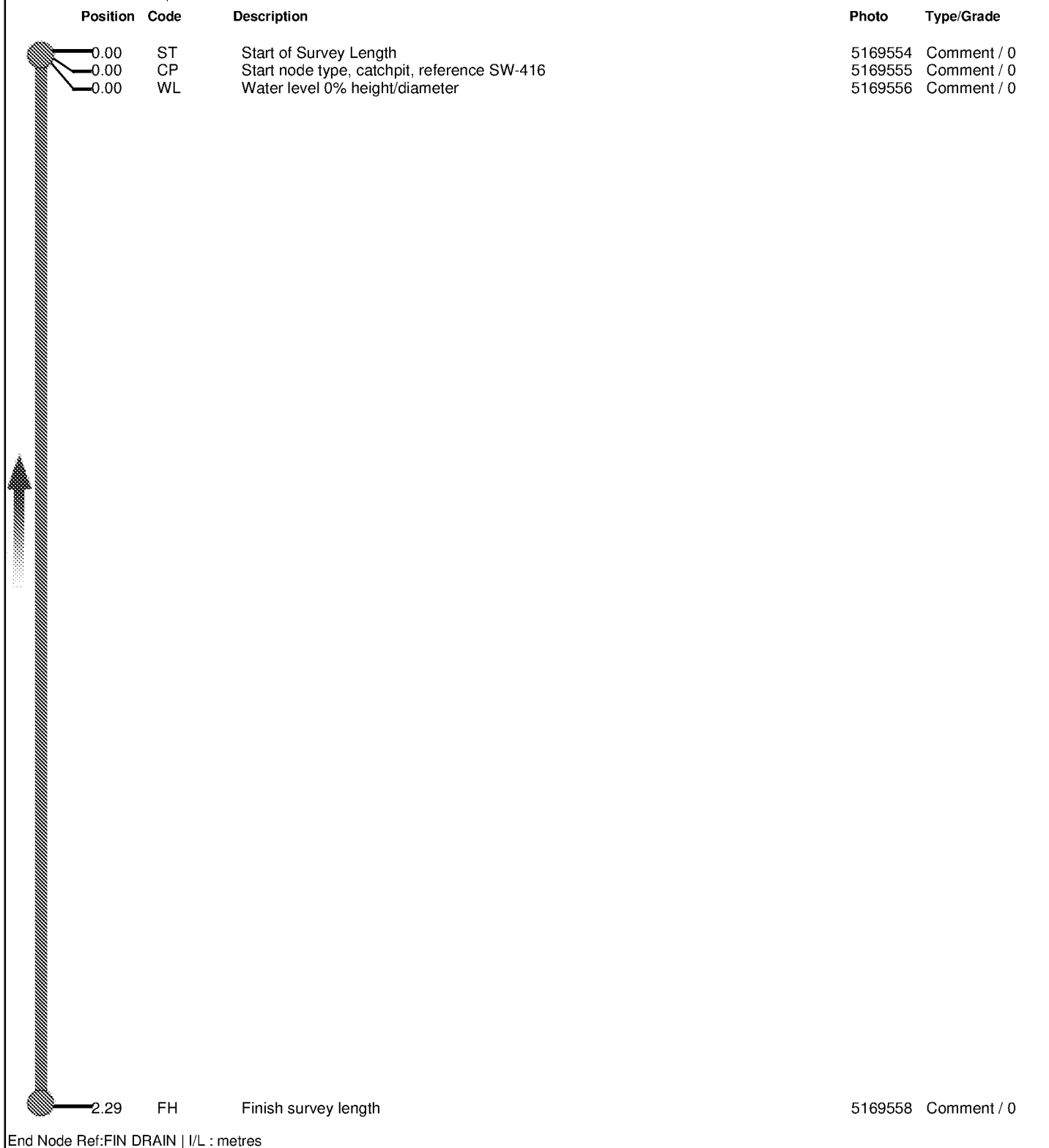
Position	Code	Description	Photo	Type/Grade
0.00	ST	Start of Survey Length	5169527	Comment / 0
0.00	MH	Start node type, manhole, reference SW-421	5169528	Comment / 0
0.00	WL	Water level 0% height/diameter	5169529	Comment / 0
				
3.88	FH	Finish survey length	5169530	Comment / 0

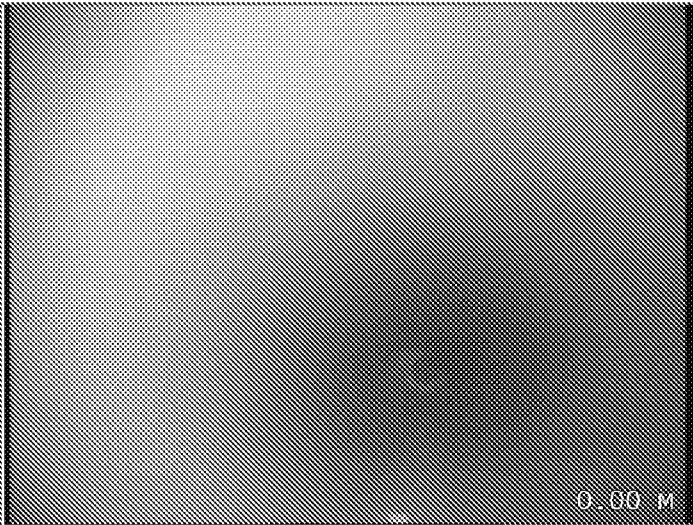
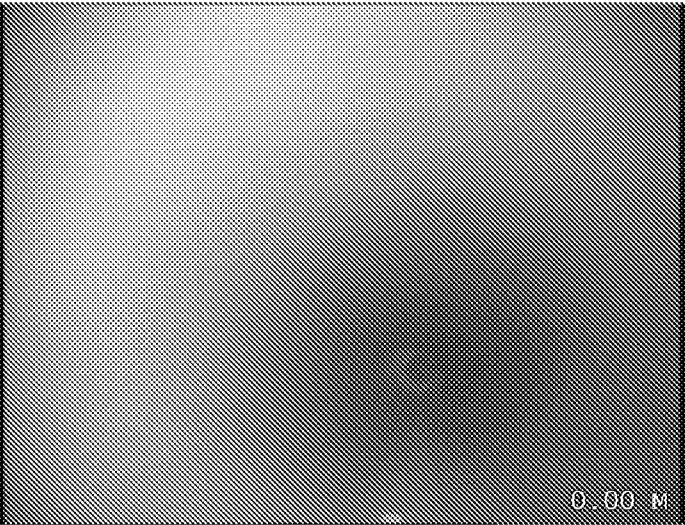
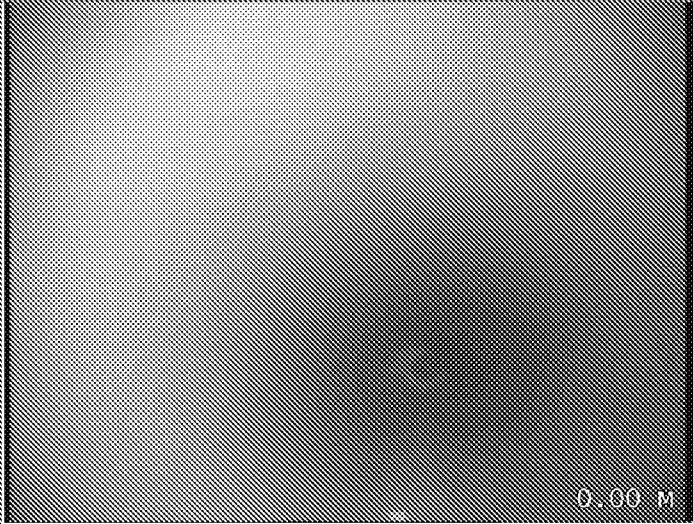
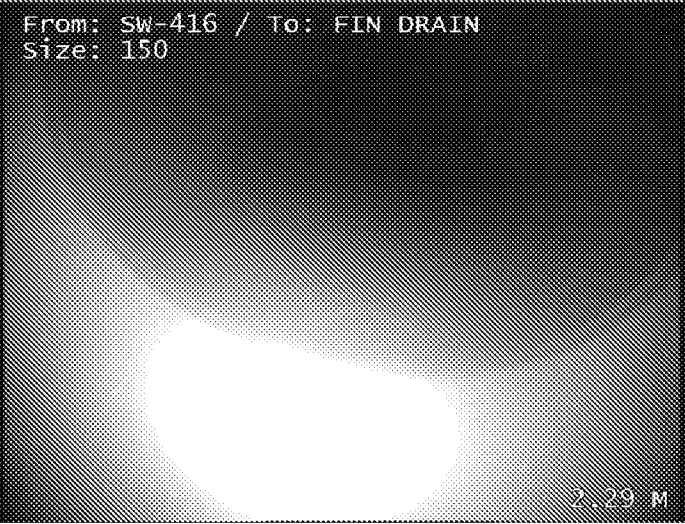
End Node Ref:FIN DRAIN | I/L : metres

Job Number 434	Surveyed by (Operator) Luke Clayton	Base Unit 8J5R2AEYKL	Date 09/06/2021
 Start of Survey Length, Start node type, manhole, reference SW-421, Water level 0% height/diameter		 From: SW-421 / To: FIN DRAIN Size: 150 Finish survey length	

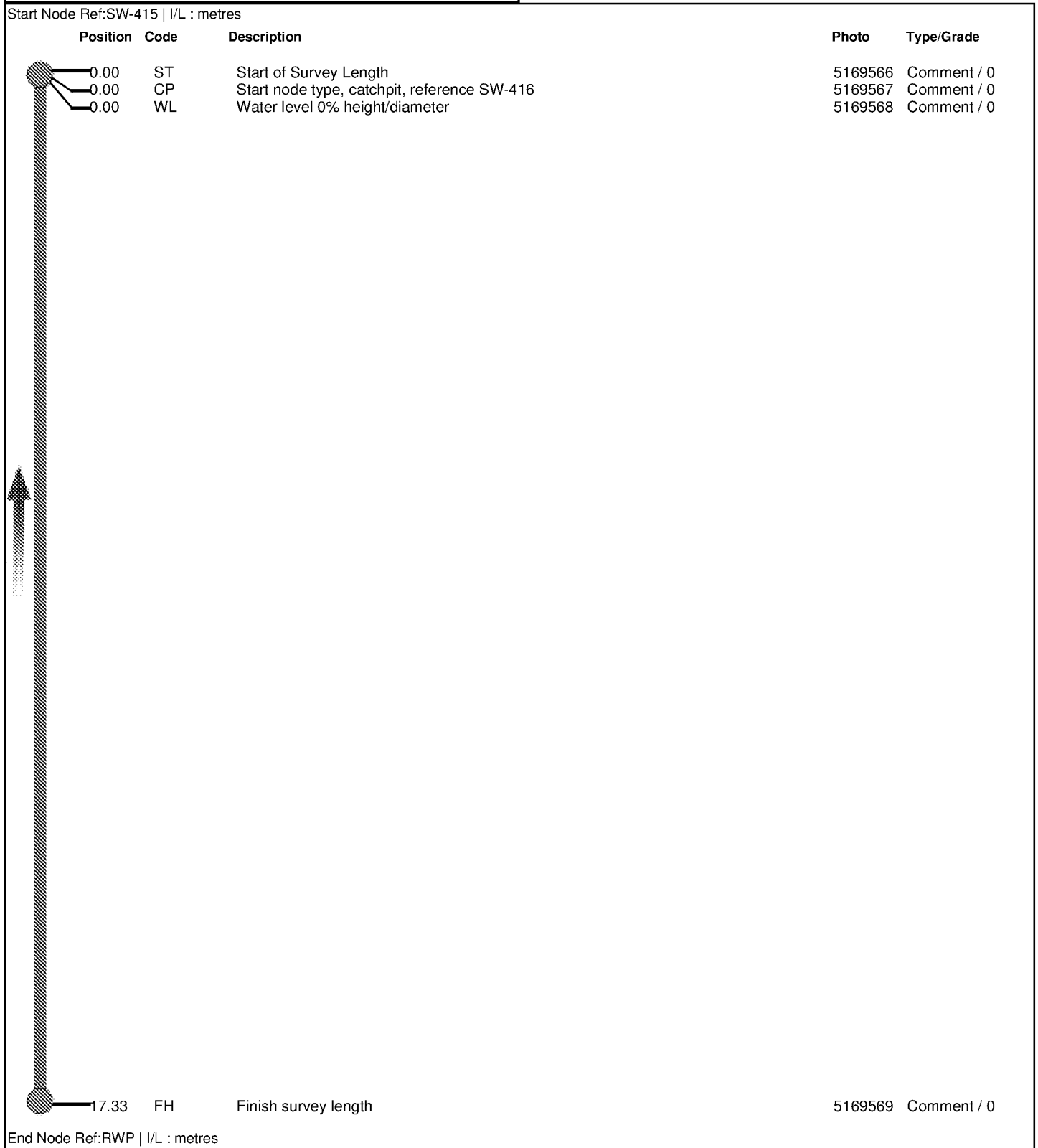
Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) FIN DRAIN X	Date 10/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 37
Road UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 150mm Material Polyethylene Category	Start Node SW-416 End Node FIN DRAIN Total length 2.29 metres		
Scale 1:0.10 Direction Upstream				

Start Node Ref:SW-416 | I/L : metres



Job Number 434	Surveyed by (Operator) Luke Clayton	Base Unit 8J5R2AEYKL	Date 10/06/2021
 0.00 M Start of Survey Length		 0.00 M Start node type, catchpit, reference SW-416	
 0.00 M Water level 0% height/diameter		From: SW-416 / To: FIN DRAIN Size: 150  2.29 M Finish survey length	

Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) RWP X	Date 10/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 38
Road UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 150mm Material Polyethylene Category	Start Node SW-415 End Node RWP Total length 17.33 metres		
Scale 1:0.89 Direction Upstream				



Job Number
434

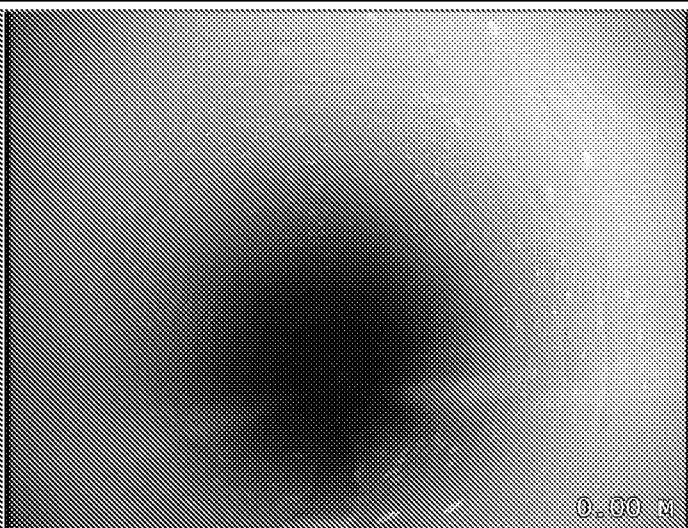
Surveyed by (Operator)
Luke Clayton

Base Unit
8J5R2AEYKL

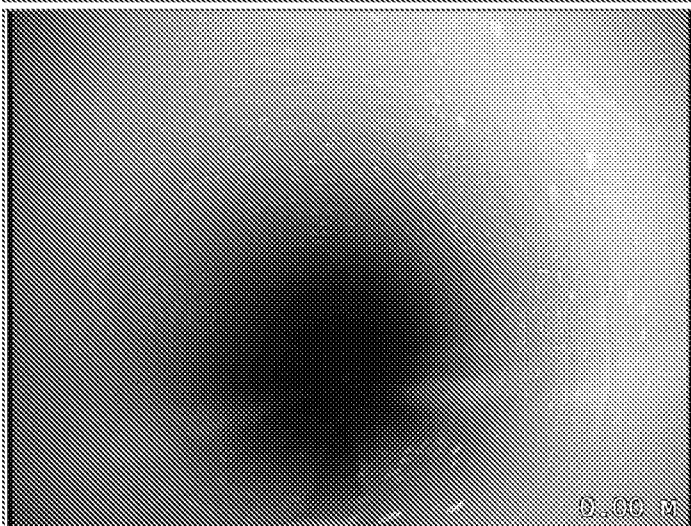
Date
10/06/2021



Start of Survey Length



Start node type, catchpit, reference SW-416

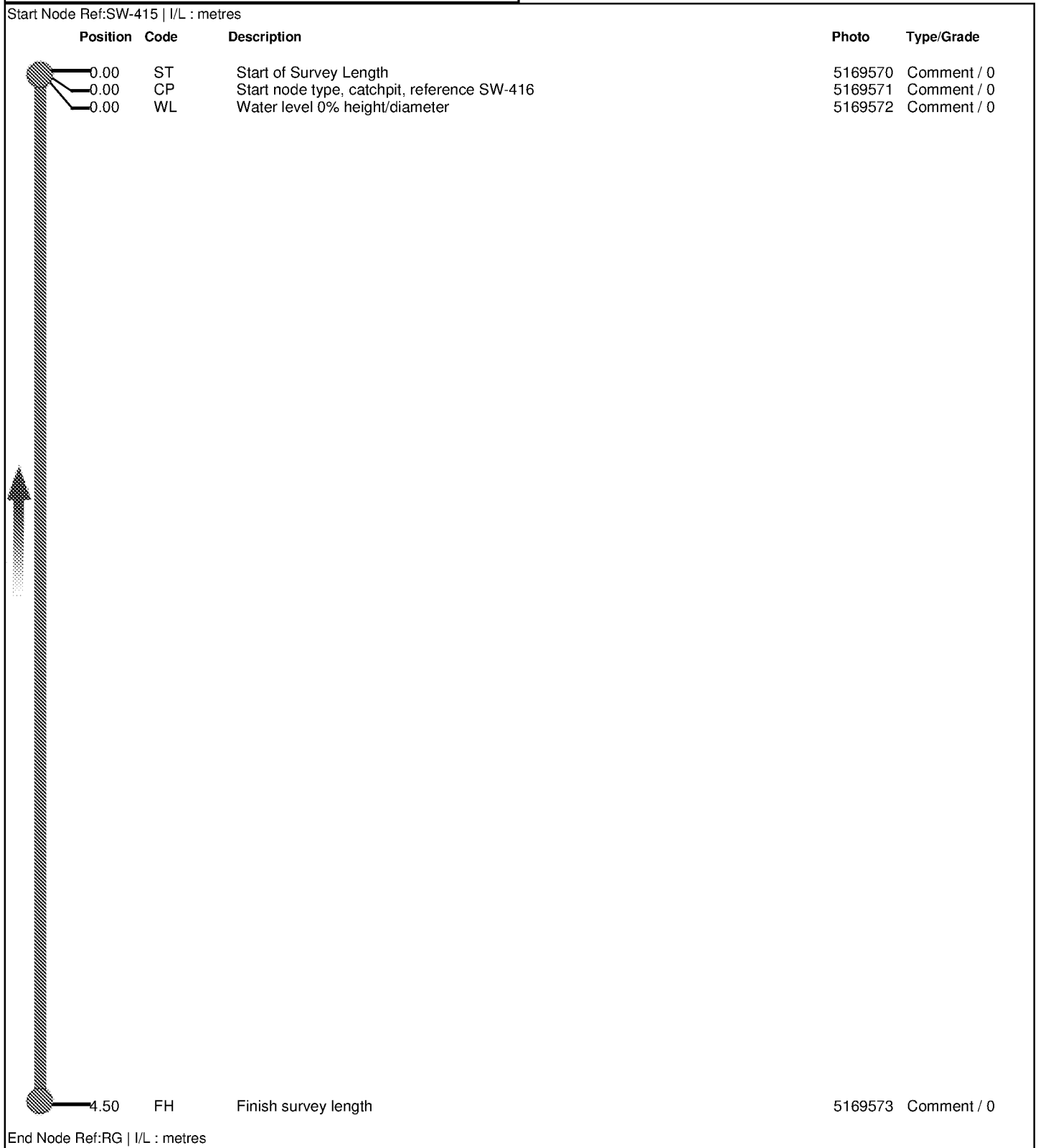


Water level 0% height/diameter



Finish survey length

Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) RG X	Date 10/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 39
Road UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 150mm Material Polyethylene Category	Start Node SW-415 End Node RG Total length 4.5 metres		
Scale 1:0.21 Direction Upstream				

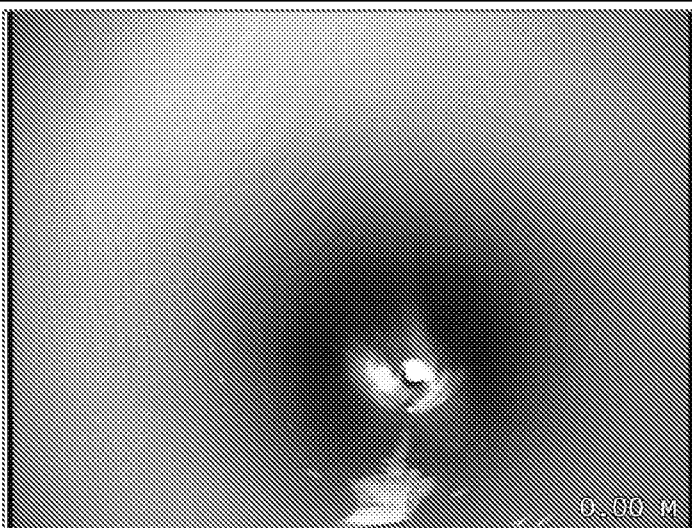


Job Number
434

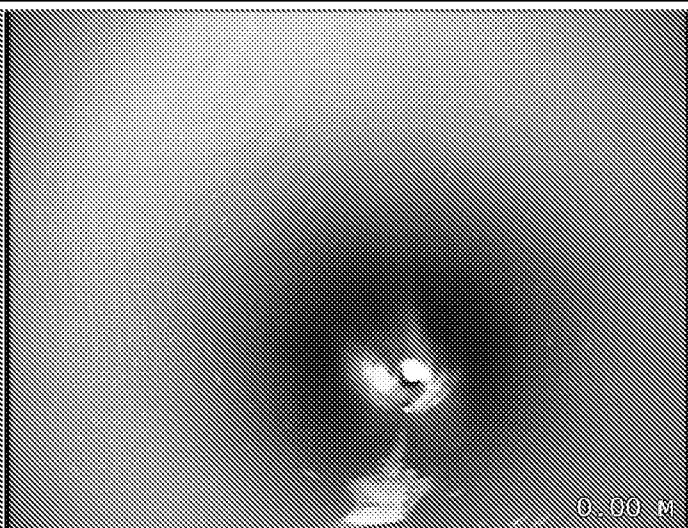
Surveyed by (Operator)
Luke Clayton

Base Unit
8J5R2AEYKL

Date
10/06/2021



Start of Survey Length



Start node type, catchpit, reference SW-416



Water level 0% height/diameter



Finish survey length

Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) ACO X	Date 10/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 40

Read UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way	Division District Location Details
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Purpose Duty Surface water Catchment	Shape/Size 100mm Material Polyethylene Category	Start Node SW-415 End Node ACO Total length 10.31 metres
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Scale 1:0.52 Direction Upstream
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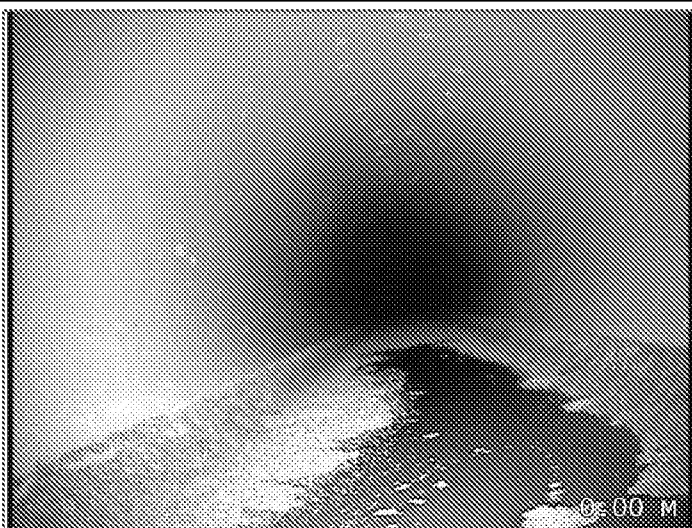
Start Node Ref:SW-415 I/L : metres			Photo	Type/Grade
Position	Code	Description		
0.00	ST	Start of Survey Length	5169574	Comment / 0
0.00	CP	Start node type, catchpit, reference SW-416	5169575	Comment / 0
0.00	WL	Water level 5% height/diameter	5169576	Comment / 0
10.31	FH	Finish survey length	5169577	Comment / 0
End Node Ref:ACO I/L : metres				

Job Number
434

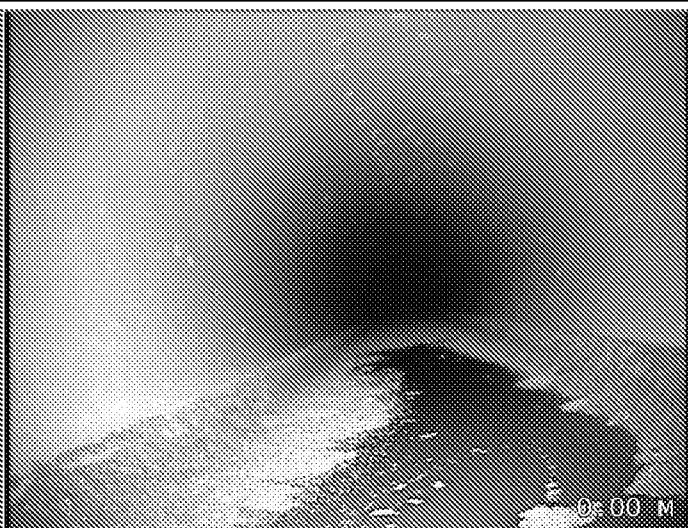
Surveyed by (Operator)
Luke Clayton

Base Unit
8J5R2AEYKL

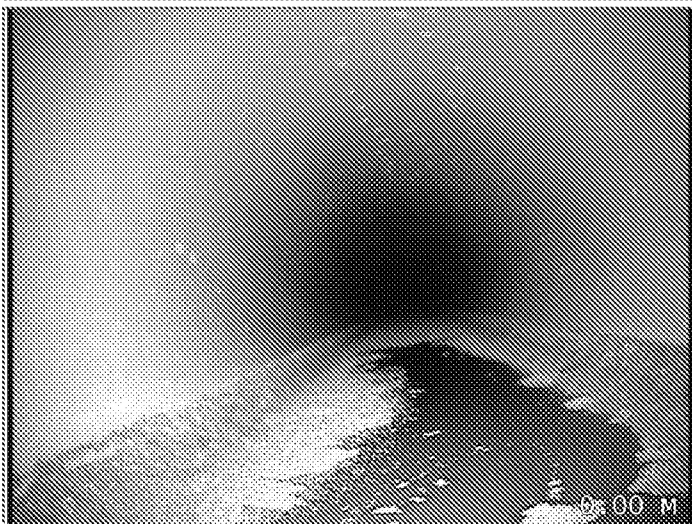
Date
10/06/2021



Start of Survey Length



Start node type, catchpit, reference SW-416

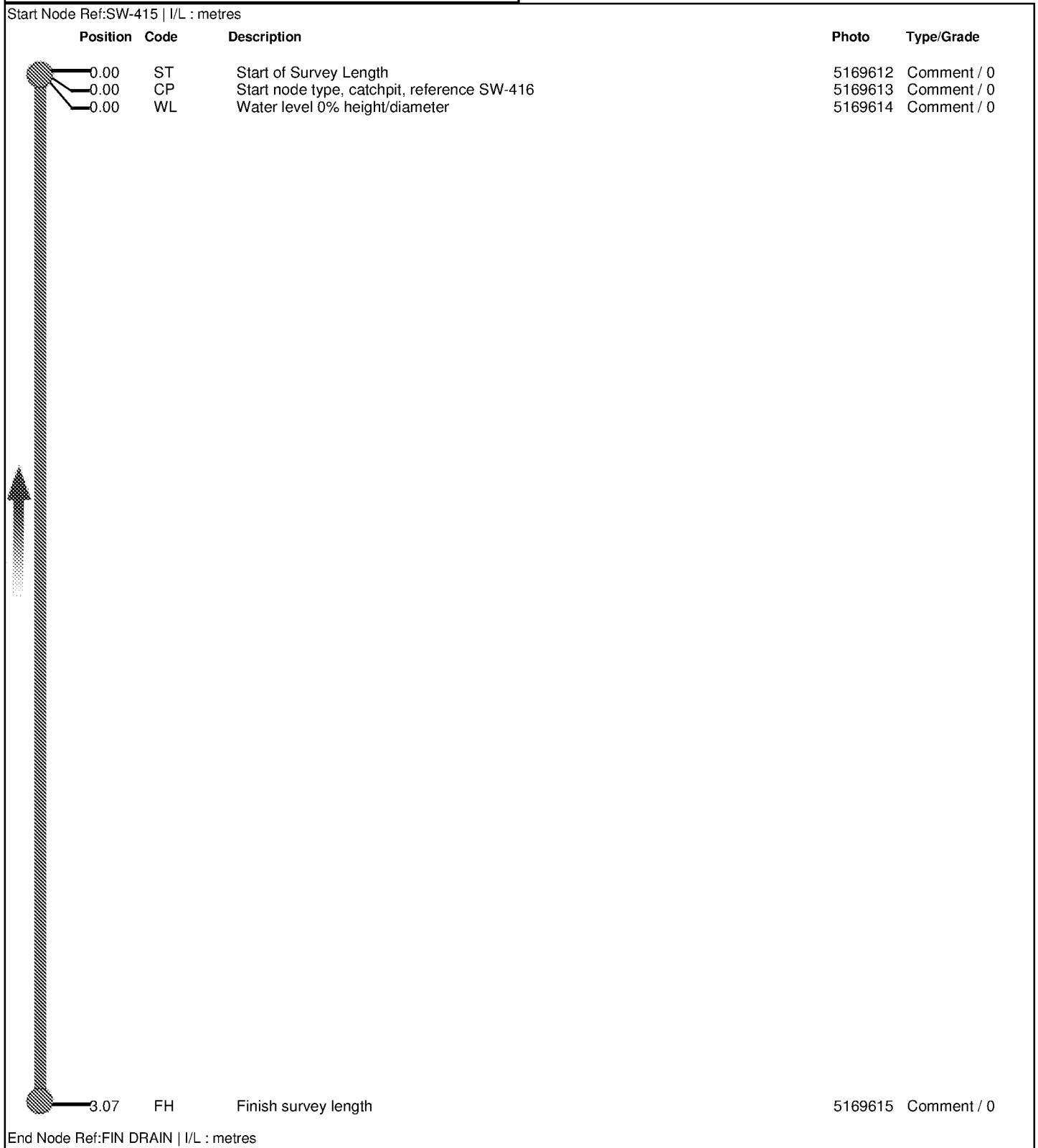


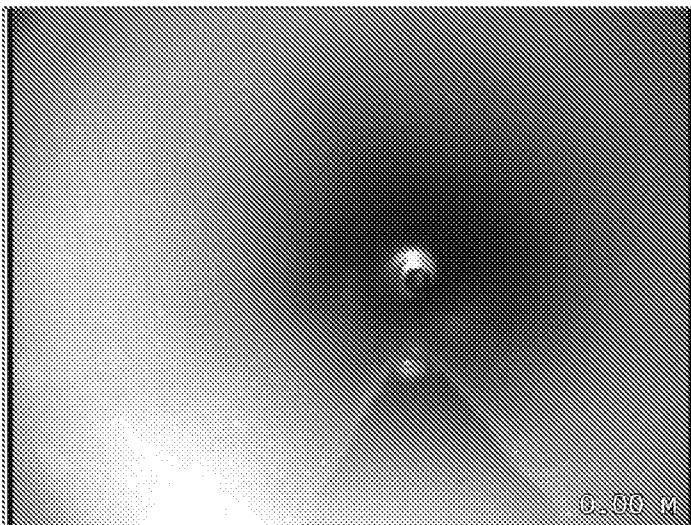
Water level 5% height/diameter



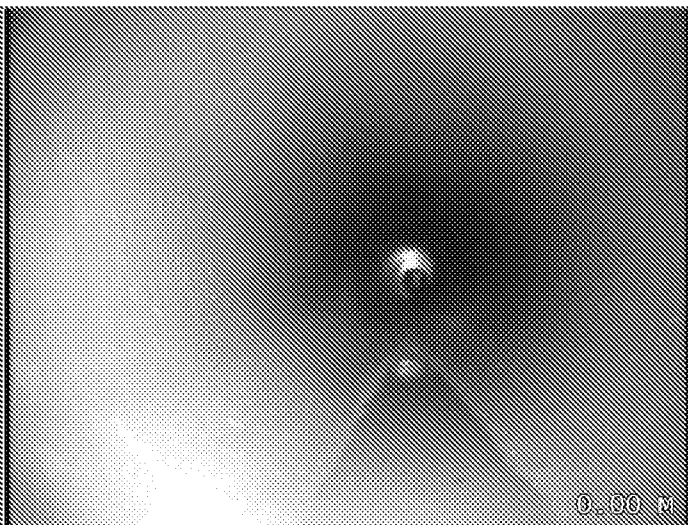
Finish survey length

Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) FIN DRAIN X	Date 10/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 41
Road UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 150mm Material Polyethylene Category	Start Node SW-415 End Node FIN DRAIN Total length 3.07 metres		
Scale 1:0.16 Direction Upstream				

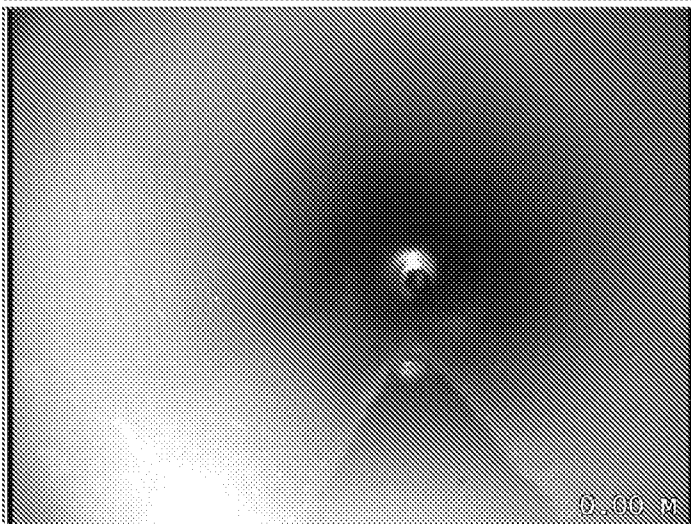


Job Number
434Surveyed by (Operator)
Luke ClaytonBase Unit
8J5R2AEYKLDate
10/06/2021

Start of Survey Length



Start node type, catchpit, reference SW-416



Water level 0% height/diameter



Finish survey length

Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) SW-415 X	Date 10/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 42
Road UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 225mm Material Polyethylene Category	Start Node SW-415 End Node SW-416 Total length 6.88 metres		
Scale 1:0.31 Direction Downstream				

Start Node Ref:SW-415 | I/L : metres

Position	Code	Description	Photo	Type/Grade
0.00	ST	Start of Survey Length	5169616	Comment / 0
0.00	CP	Start node type, catchpit, reference SW-415	5169618	Comment / 0
0.00	WL	Water level 0% height/diameter	5169619	Comment / 0
				
6.88	FH	Finish survey length	5169620	Comment / 0

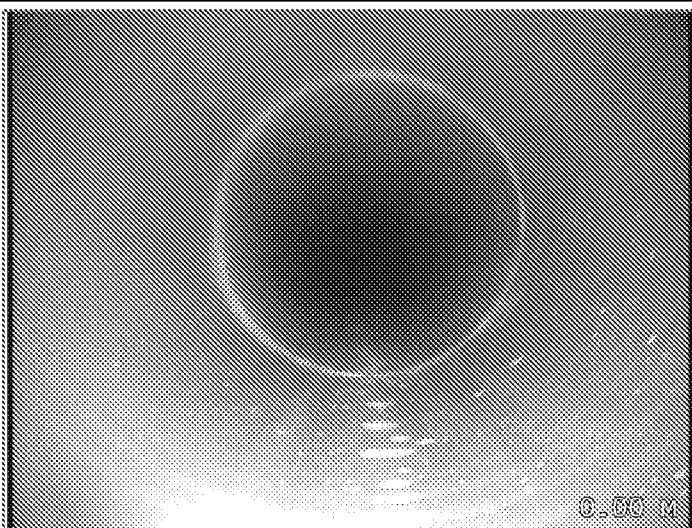
End Node Ref:SW-416 | I/L : metres

Job Number
434

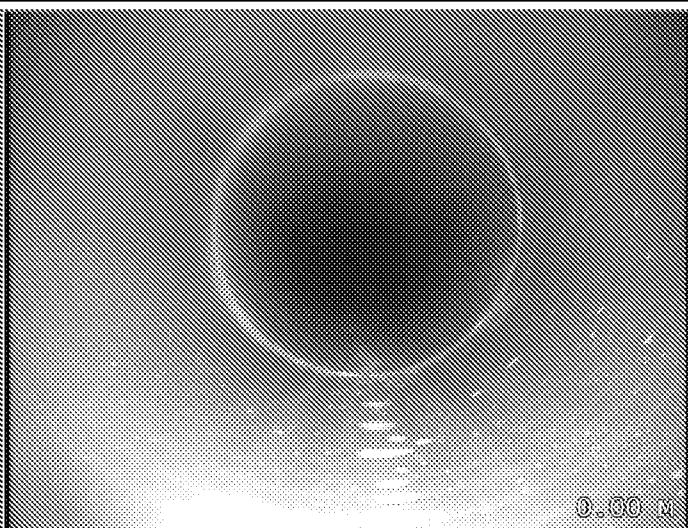
Surveyed by (Operator)
Luke Clayton

Base Unit
8J5R2AEYKL

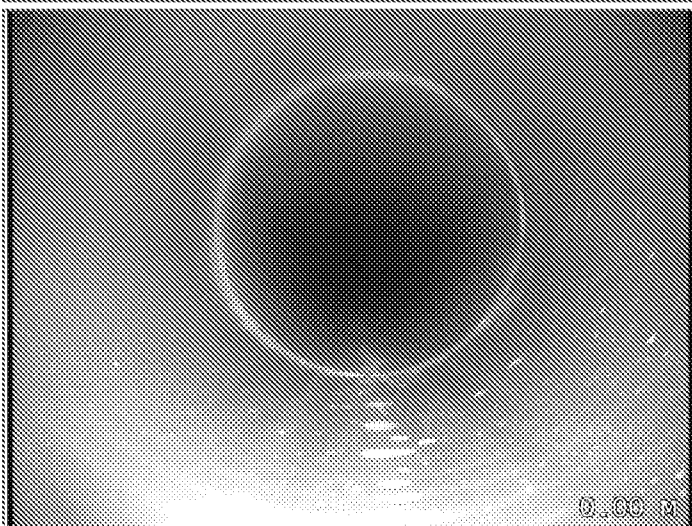
Date
10/06/2021



Start of Survey Length



Start node type, catchpit, reference SW-415



Water level 0% height/diameter



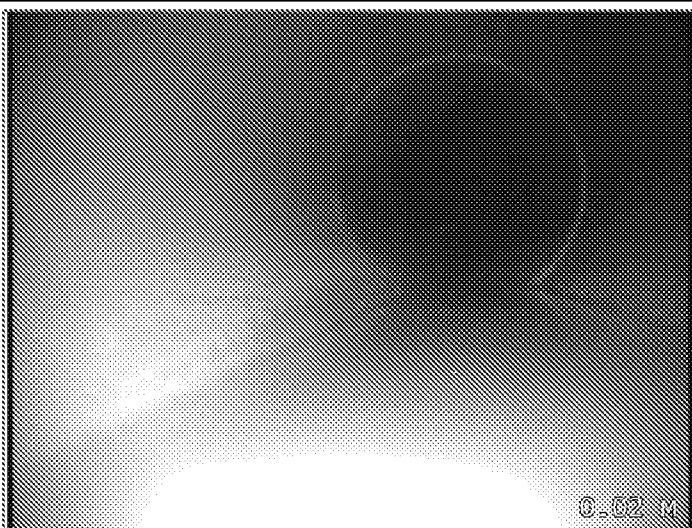
Finish survey length

Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) SW-416 X	Date 10/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 43
Road UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 225mm Material Polyethylene Category	Start Node SW-416 End Node SW-417 Total length 29.21 metres		
Scale 1:1.52 Direction Downstream				

Start Node Ref:SW-416 | I/L : metres

Position	Code	Description	Photo	Type/Grade
0.00	ST	Start of Survey Length	5169621	Comment / 0
0.00	CP	Start node type, catchpit, reference SW-416	5169622	Comment / 0
0.00	WL	Water level 5% height/diameter	5169623	Comment / 0
3.05	JN	Junction at 12 o'clock, diameter 150mm - Remark: ACO SUMP	5169625	Comment / 0
6.38	JN	Junction at 1 o'clock, diameter 150mm - Remark: UNKNOWN	5169633	Comment / 0
29.21	FH	Finish survey length	5169635	Comment / 0

End Node Ref:SW-417 | I/L : metres

Job Number
434Surveyed by (Operator)
Luke ClaytonBase Unit
8J5R2AEYKLDate
10/06/2021

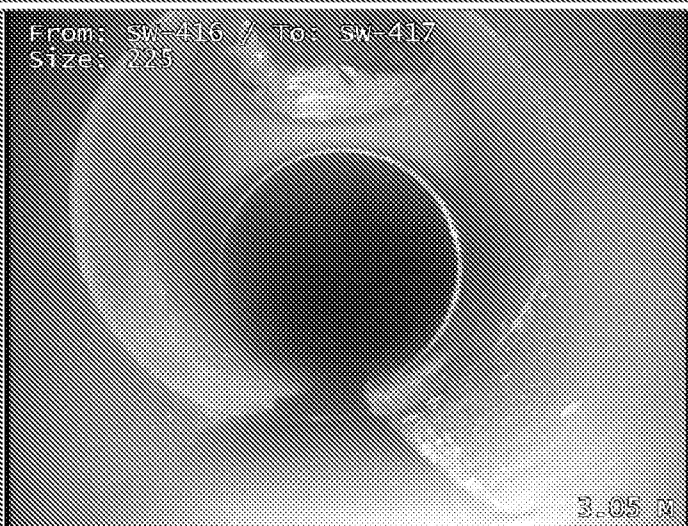
Start of Survey Length



Start node type, catchpit, reference SW-416



Water level 5% height/diameter



Junction at 12 o'clock, diameter 150mm - Remark: ACO SUMP

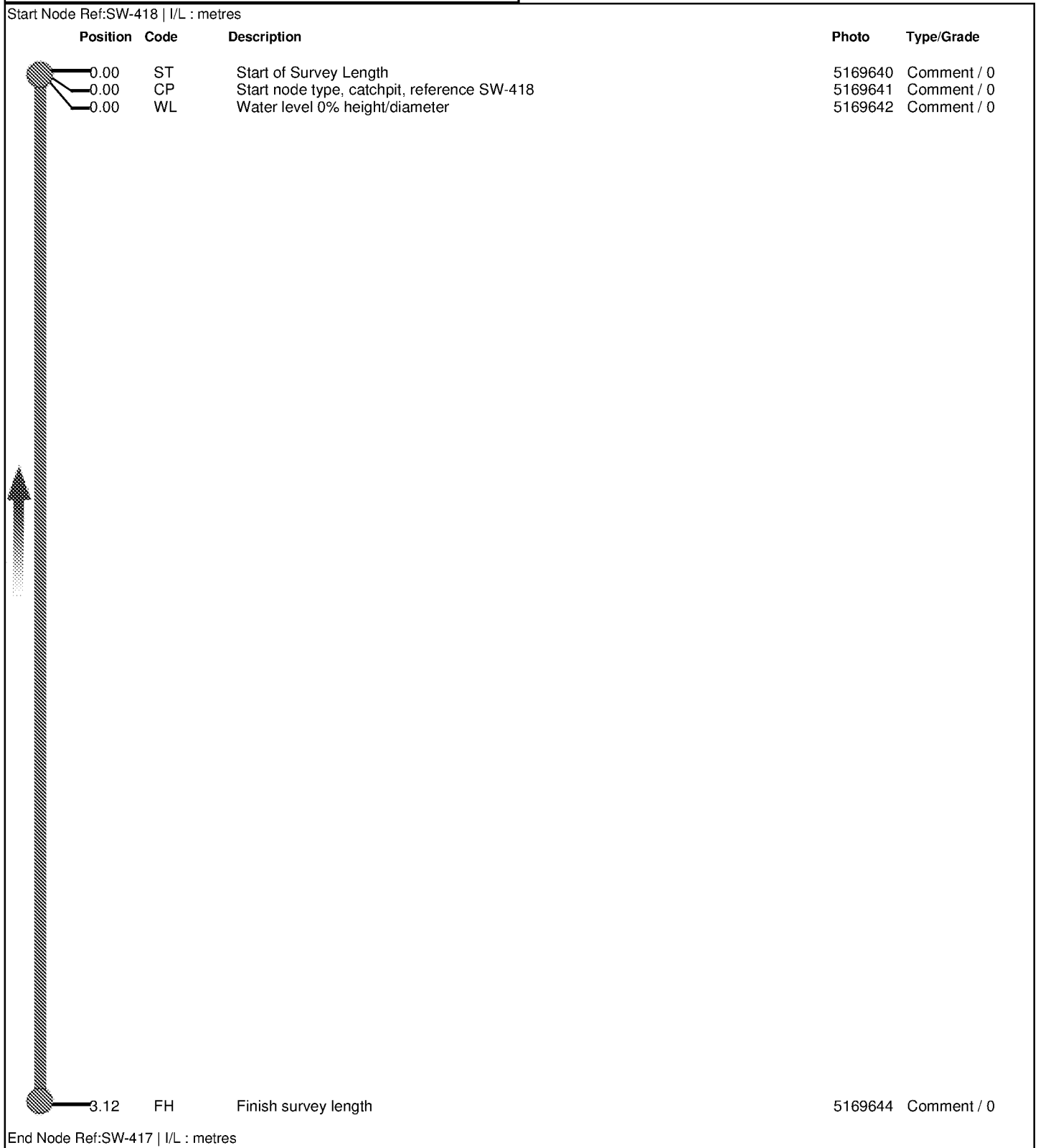


Junction at 1 o'clock, diameter 150mm - Remark: UNKNOWN



Finish survey length

Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) SW-417 X	Date 10/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 44
Road UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 225mm Material Polyethylene Category	Start Node SW-418 End Node SW-417 Total length 3.12 metres		
Scale 1:0.16 Direction Upstream				

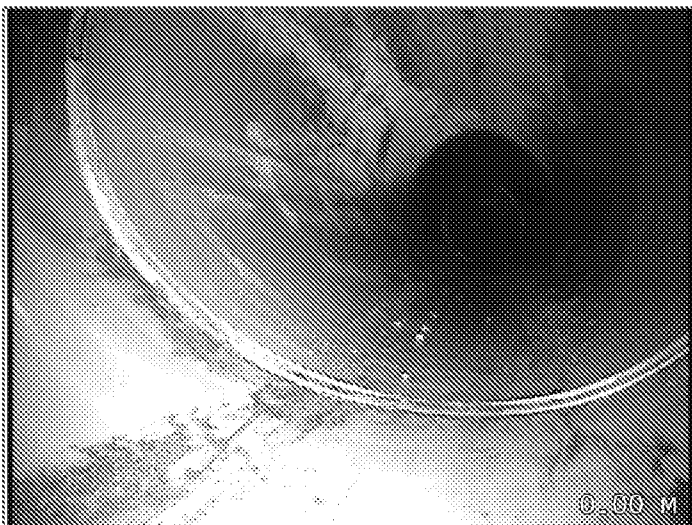


Job Number
434

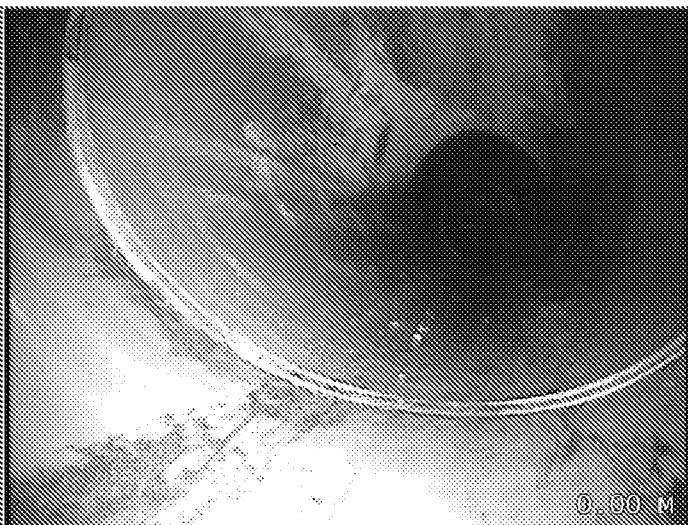
Surveyed by (Operator)
Luke Clayton

Base Unit
8J5R2AEYKL

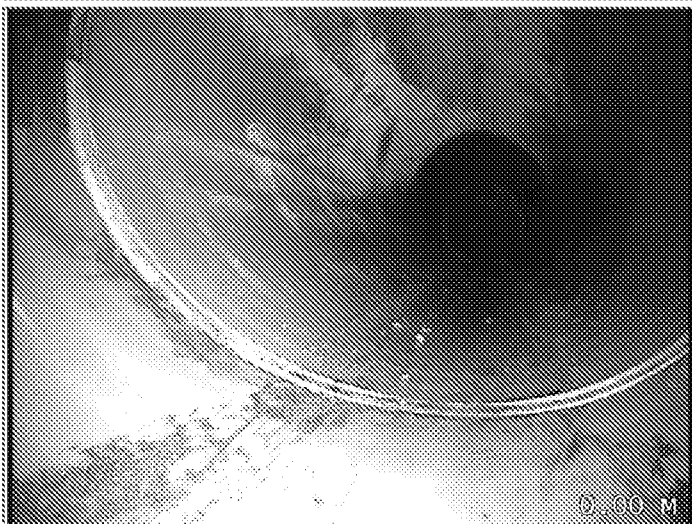
Date
10/06/2021



Start of Survey Length



Start node type, catchpit, reference SW-418

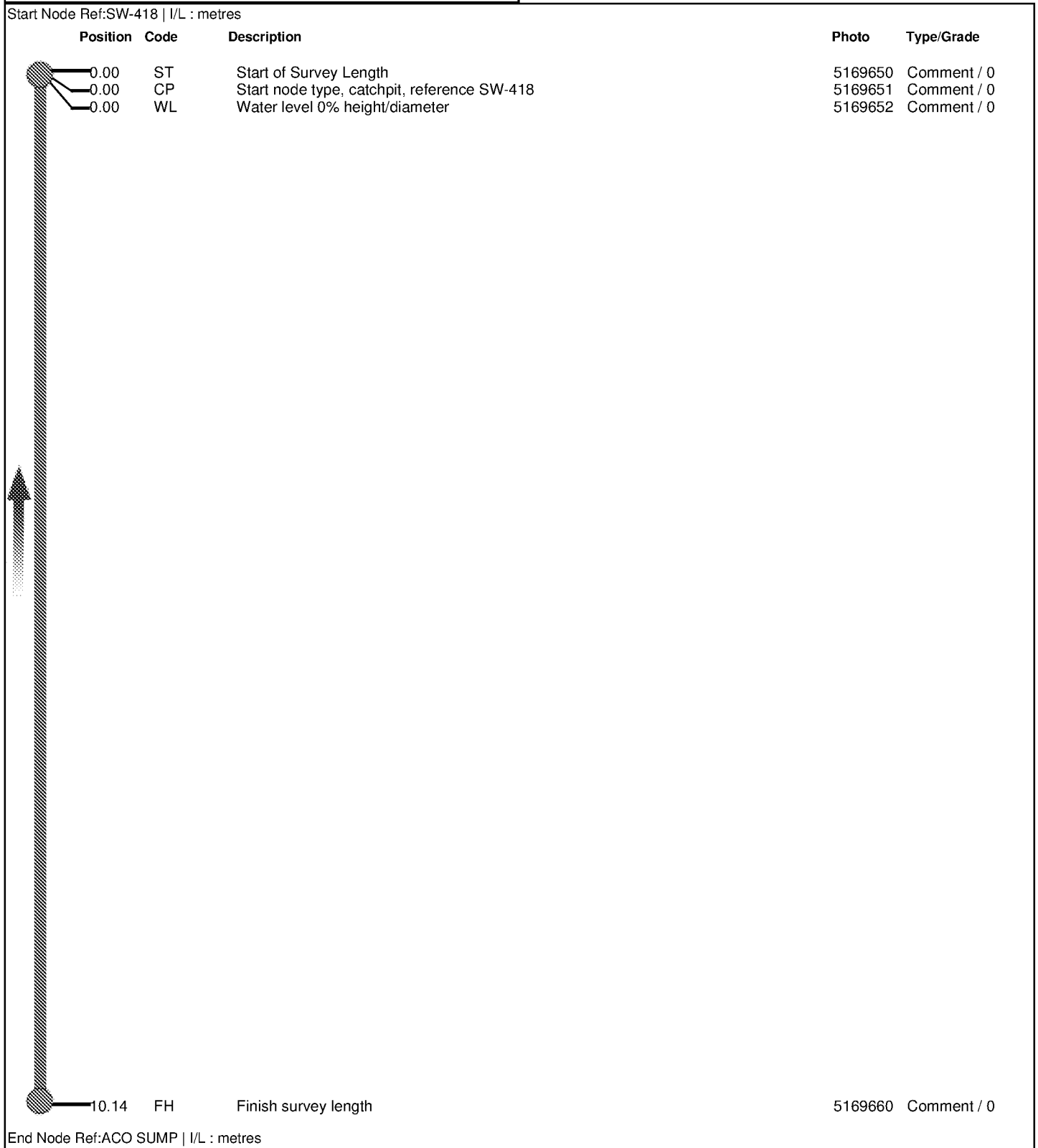


Water level 0% height/diameter



Finish survey length

Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) ACO SUMP X	Date 10/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 45
Road UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 150mm Material Polyethylene Category	Start Node SW-418 End Node ACO SUMP Total length 10.14 metres		
Scale 1:0.52 Direction Upstream				



Job Number
434Surveyed by (Operator)
Luke ClaytonBase Unit
8J5R2AEYKLDate
10/06/2021

Start of Survey Length



Start node type, catchpit, reference SW-418



Water level 0% height/diameter



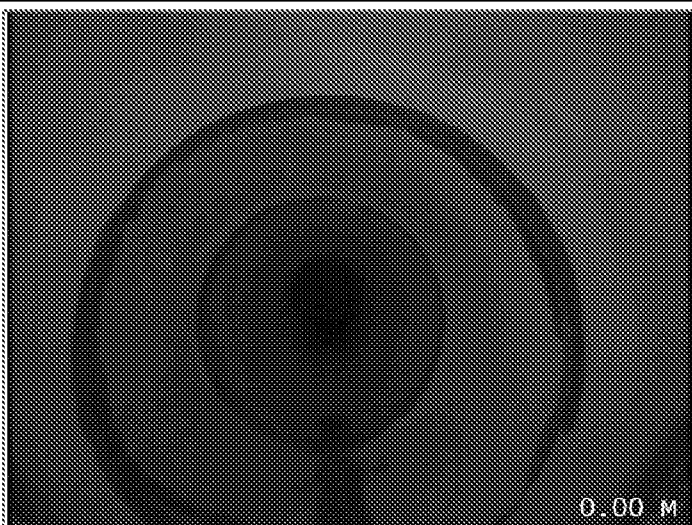
Finish survey length

Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) SW-418 X	Date 10/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 46
Road UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 450mm Material Concrete Category	Start Node SW-418 End Node SW-406 Total length 78.24 metres		
Scale 1:4.09 Direction Downstream				

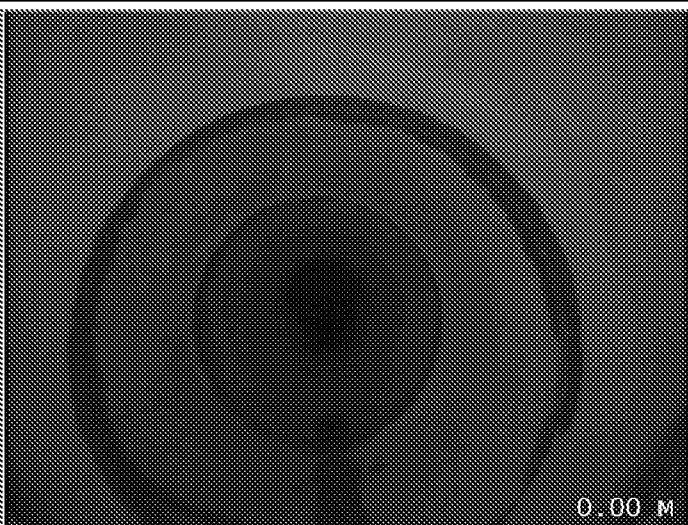
Start Node Ref:SW-418 | I/L : metres

Position	Code	Description	Photo	Type/Grade
0.00	ST	Start of Survey Length	5169810	Comment / 0
0.00	CP	Start node type, catchpit, reference SW-418	5169814	Comment / 0
0.00	WL	Water level 0% height/diameter	5169818	Comment / 0
3.84	MC	Material of sewer changes at this point - Remark: PERFORATED PIPE	5169824	Comment / 0
				
44.95	JN	Junction at 2 o'clock, diameter 450mm	5169871	Comment / 0
78.24	FH	Finish survey length	5170055	Comment / 0

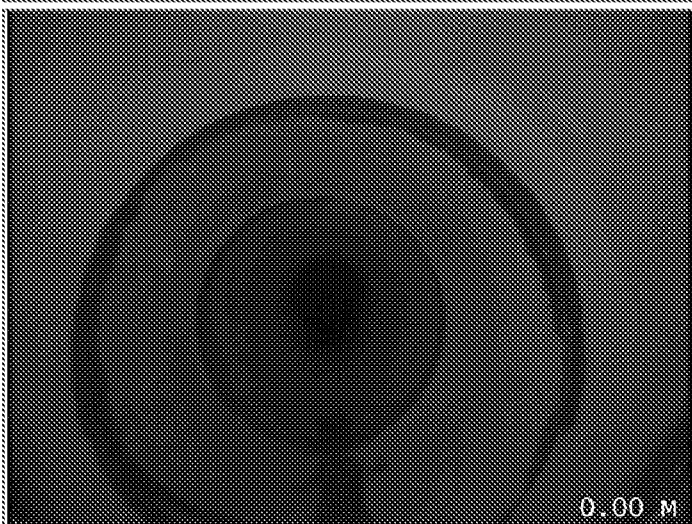
End Node Ref:SW-406 | I/L : metres

Job Number
434Surveyed by (Operator)
Luke ClaytonBase Unit
8J5R2AEYKLDate
10/06/2021

Start of Survey Length



Start node type, catchpit, reference SW-418



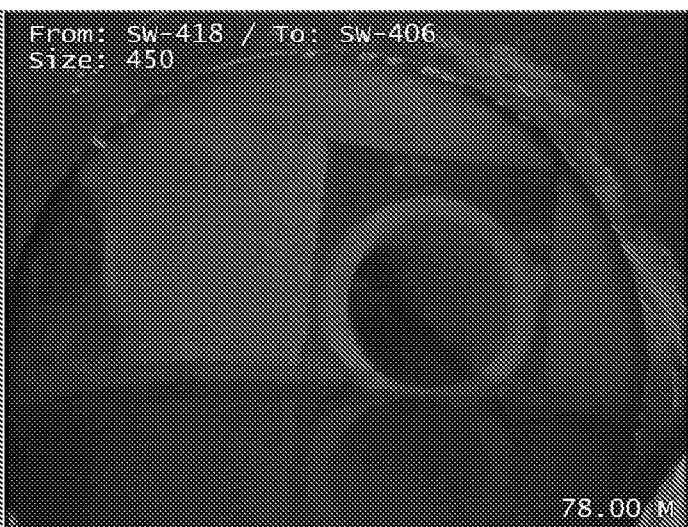
Water level 0% height/diameter



Material of sewer changes at this point - Remark: PERFORATED PIPE

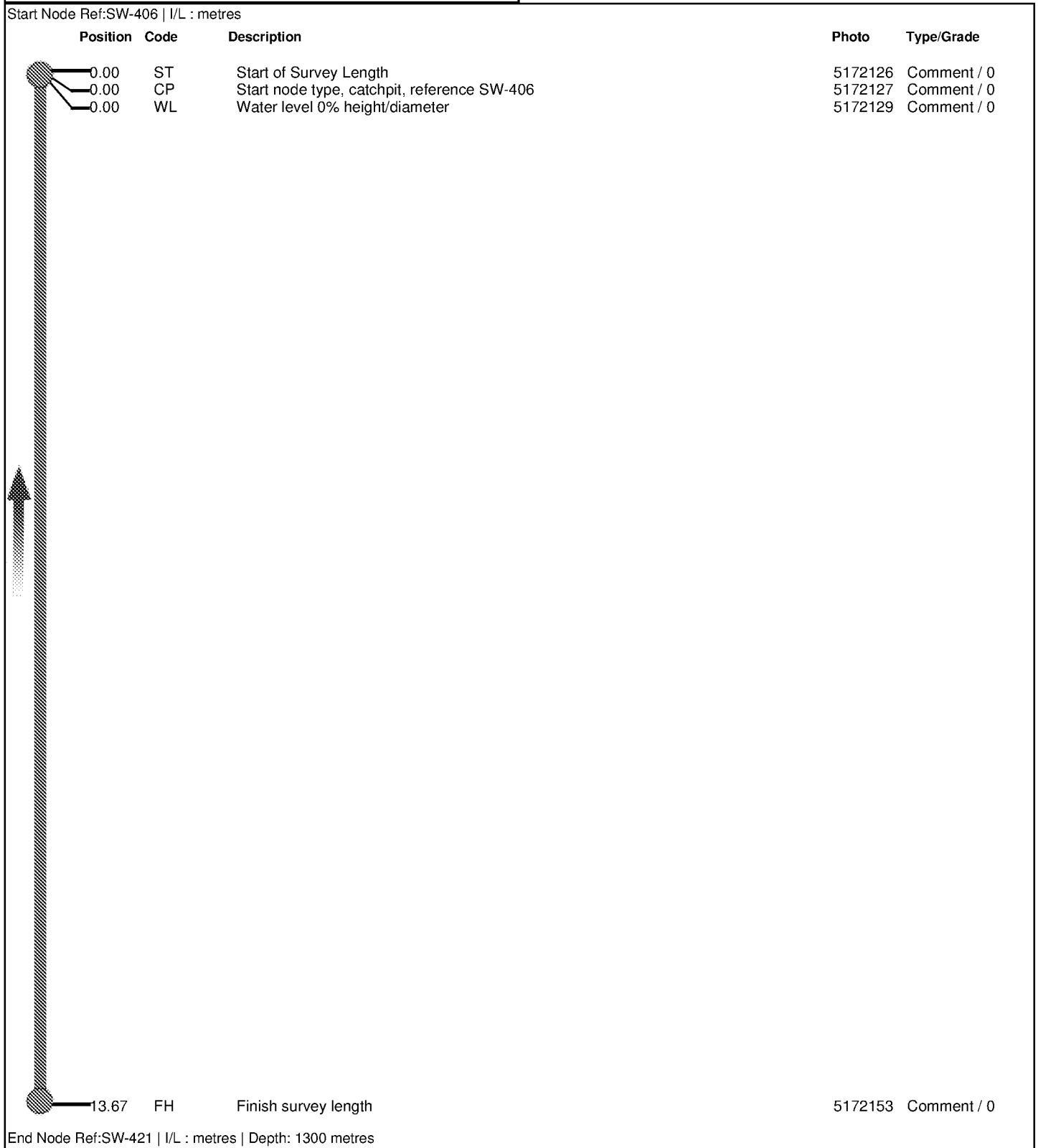


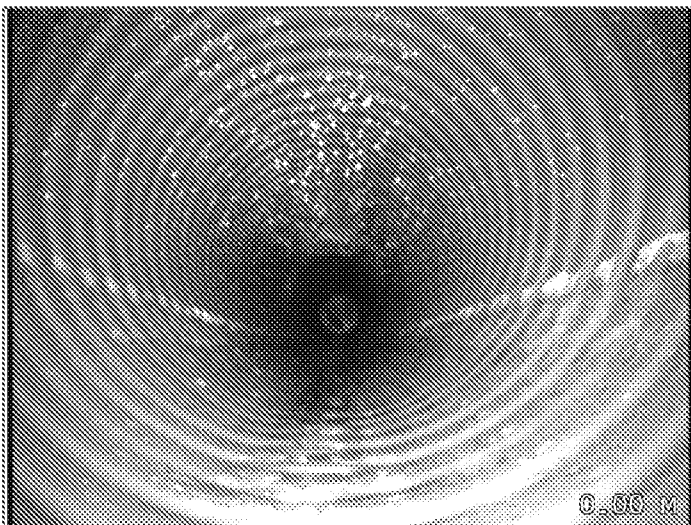
Junction at 2 o'clock, diameter 450mm



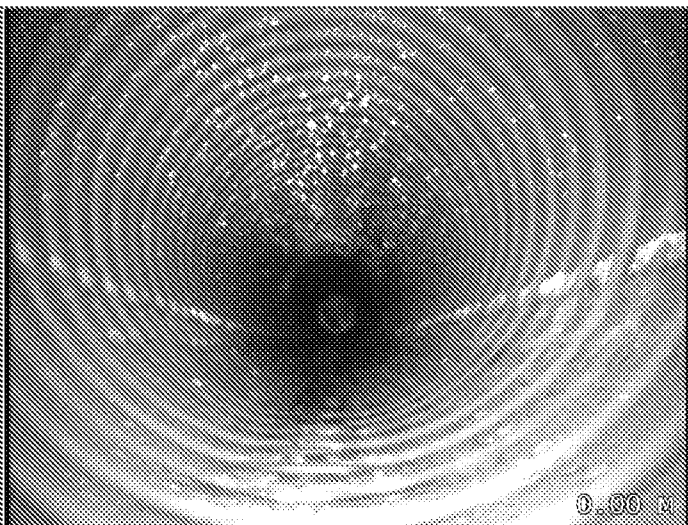
Finish survey length

Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) SW-421 X	Date 10/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 47
Road UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 225mm Material Polypropylene Category	Start Node SW-406 End Node SW-421 Total length 13.67 metres		
Scale 1:0.68 Direction Upstream				

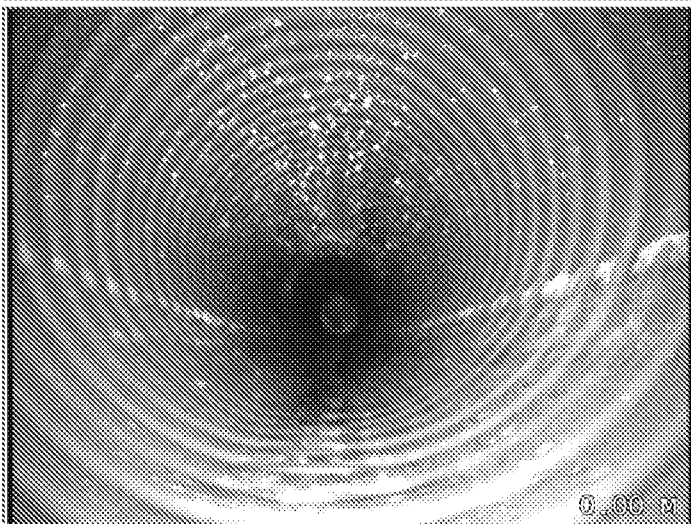


Job Number
434Surveyed by (Operator)
Luke ClaytonBase Unit
8J5R2AEYKLDate
10/06/2021

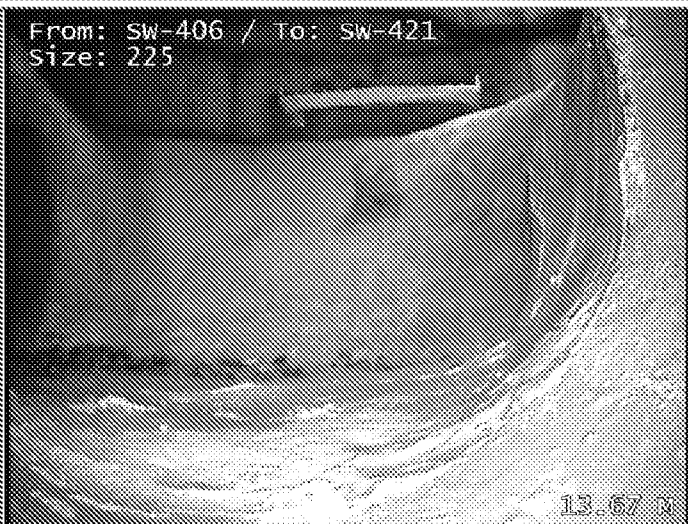
Start of Survey Length



Start node type, catchpit, reference SW-406



Water level 0% height/diameter



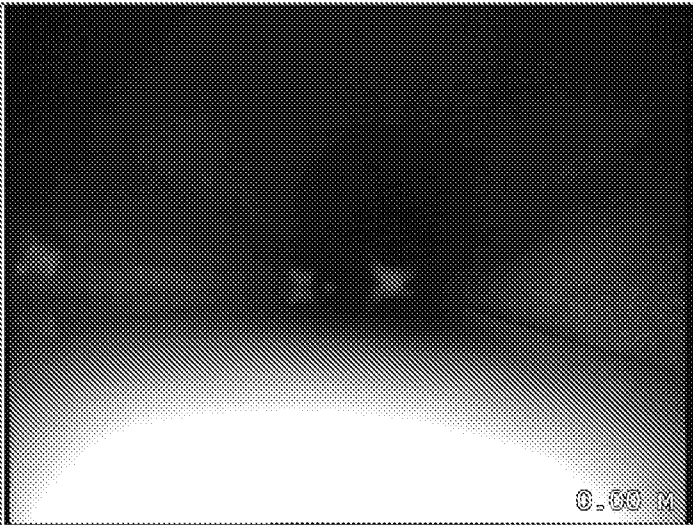
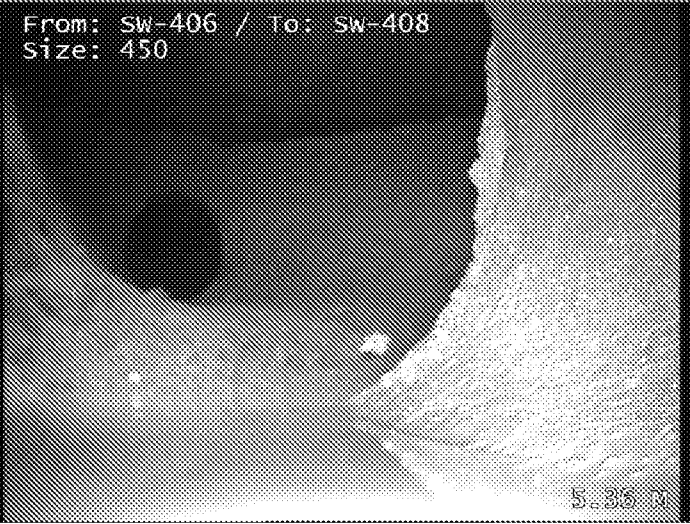
Finish survey length

Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) SW-406 X	Date 10/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 48
Road UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 450mm Material Concrete Category	Start Node SW-406 End Node SW-408 Total length 5.36 metres		
Scale 1:0.26 Direction Downstream				

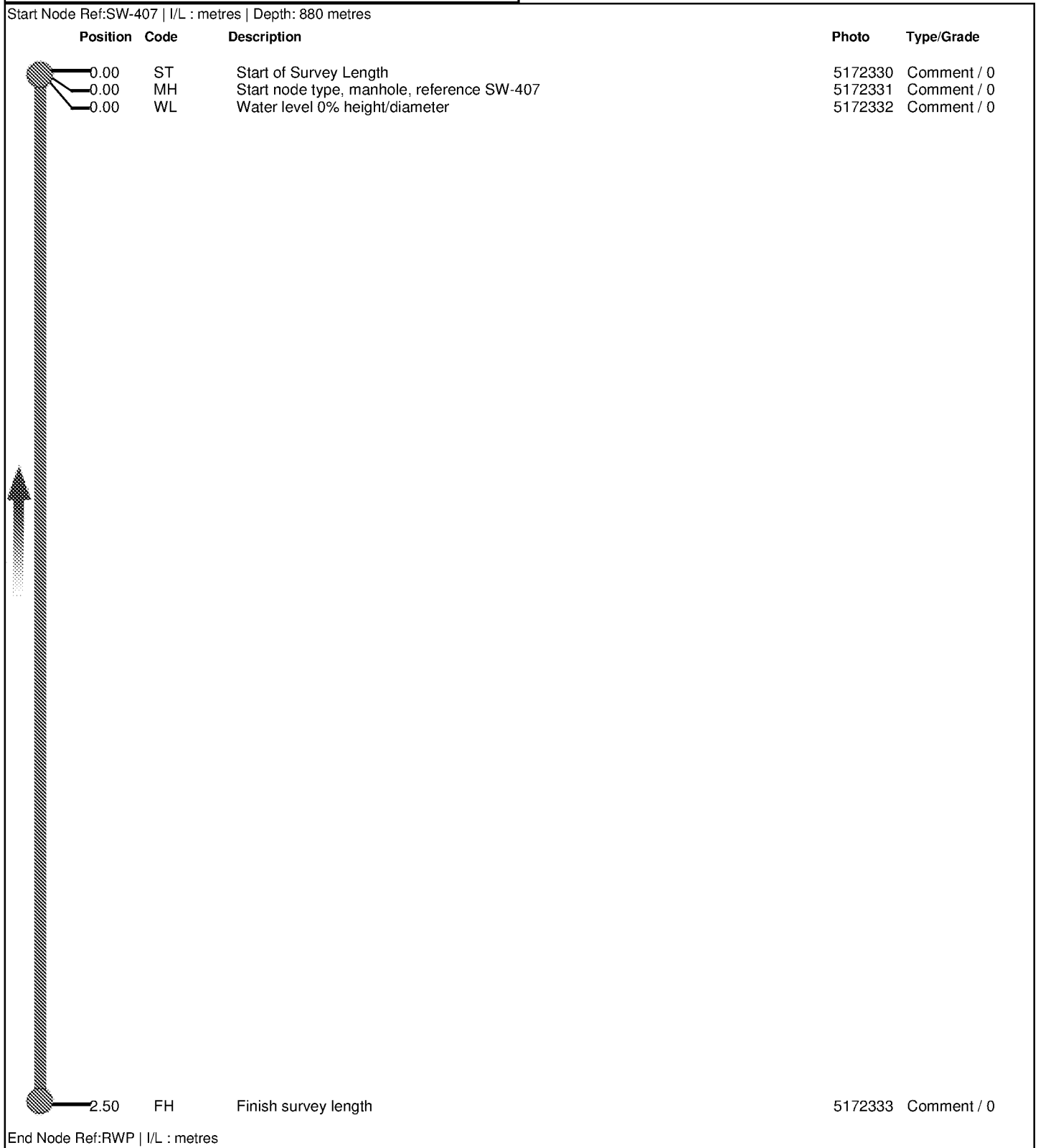
Start Node Ref:SW-406 | I/L : metres

Position	Code	Description	Photo	Type/Grade
0.00	ST	Start of Survey Length	5172279	Comment / 0
0.00	CP	Start node type, catchpit, reference SW-406	5172280	Comment / 0
0.00	WL	Water level 5% height/diameter	5172281	Comment / 0
				
5.36	FH	Finish survey length	5172292	Comment / 0

End Node Ref:SW-408 | I/L : metres

Job Number 434	Surveyed by (Operator) Luke Clayton	Base Unit 8J5R2AEYKL	Date 10/06/2021
 0.00 M		 0.00 M	
Start of Survey Length		Start node type, catchpit, reference SW-406	
 0.00 M		 From: SW-406 / To: SW-408 Size: 450 5.35 M	
Water level 5% height/diameter		Finish survey length	

Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) RWP X	Date 10/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 49
Road UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 100mm Material Polyethylene Category	Start Node SW-407 End Node RWP Total length 2.5 metres		
Scale 1:0.10 Direction Upstream				

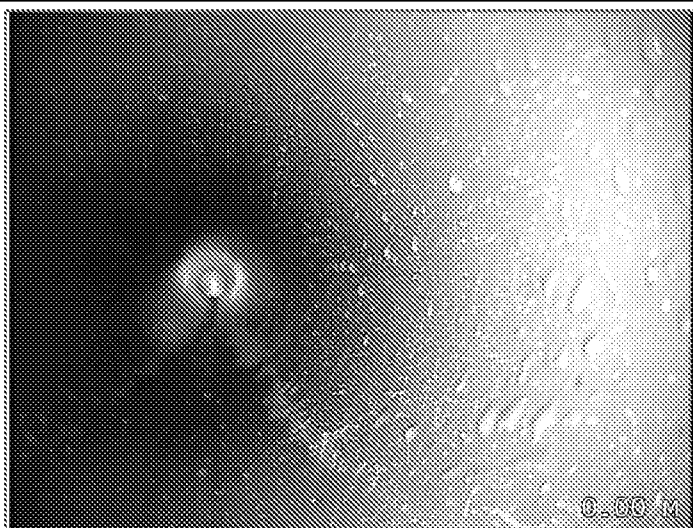


Job Number
434

Surveyed by (Operator)
Luke Clayton

Base Unit
8J5R2AEYKL

Date
10/06/2021

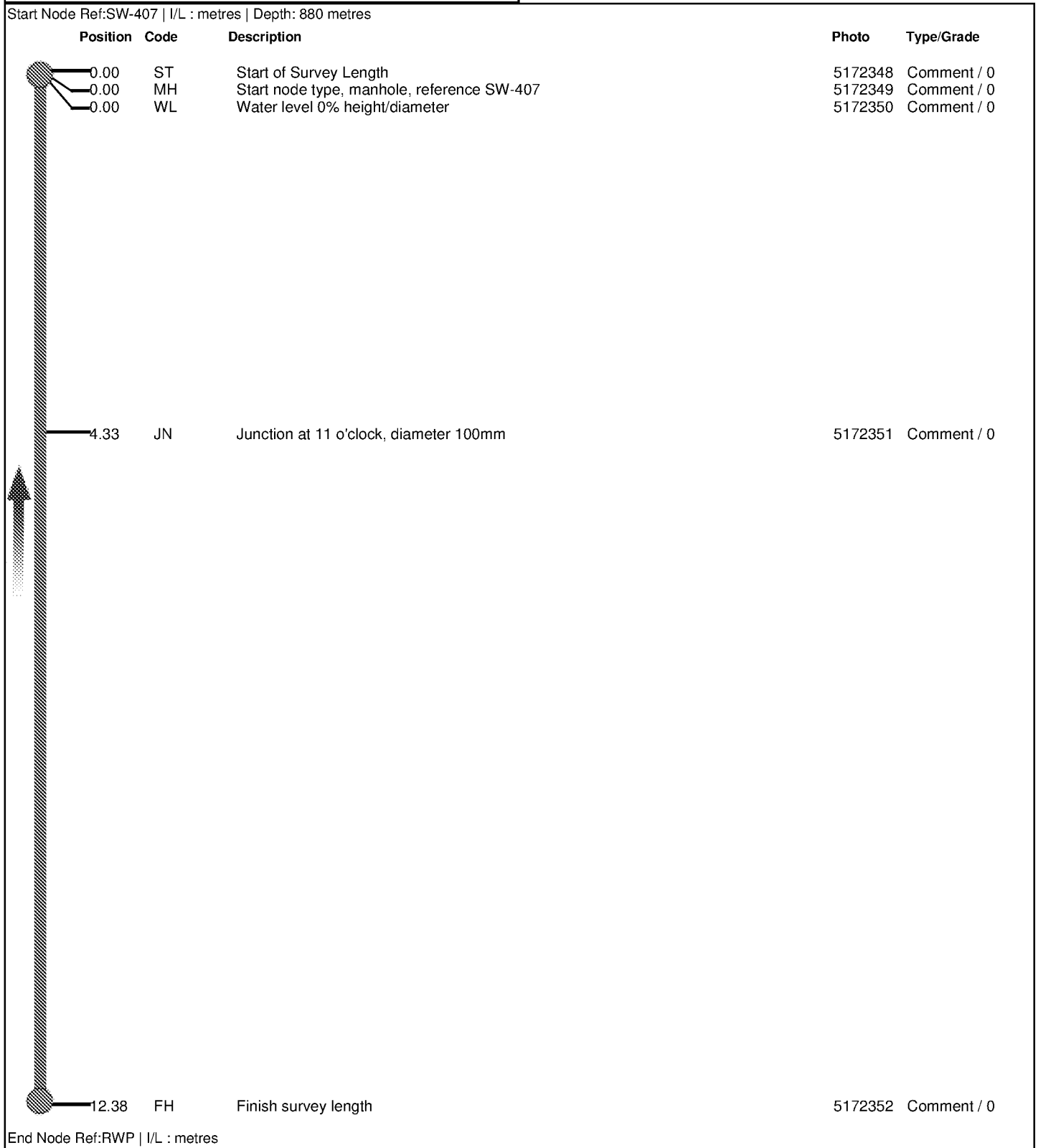


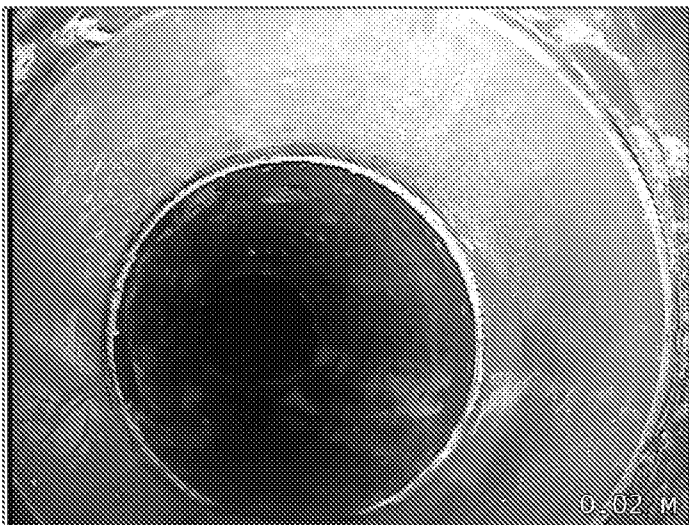
Start of Survey Length, Start node type, manhole, reference SW-407,
Water level 0% height/diameter



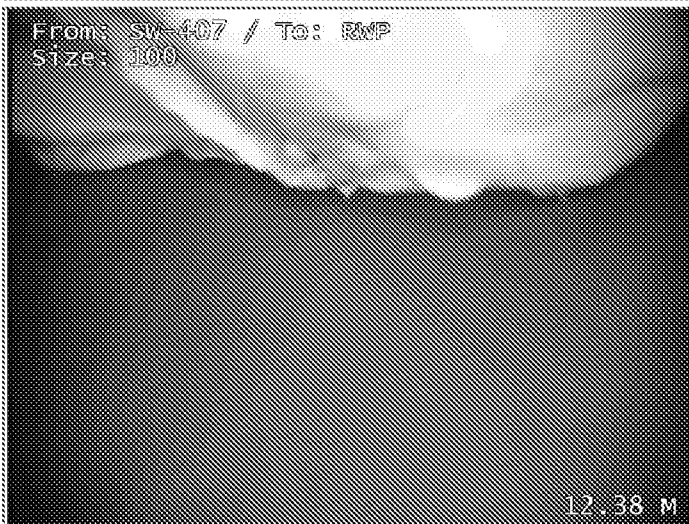
Finish survey length

Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) RWP X	Date 10/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 50
Road UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 100mm Material Polyethylene Category	Start Node SW-407 End Node RWP Total length 12.38 metres		
Scale 1:0.63 Direction Upstream				



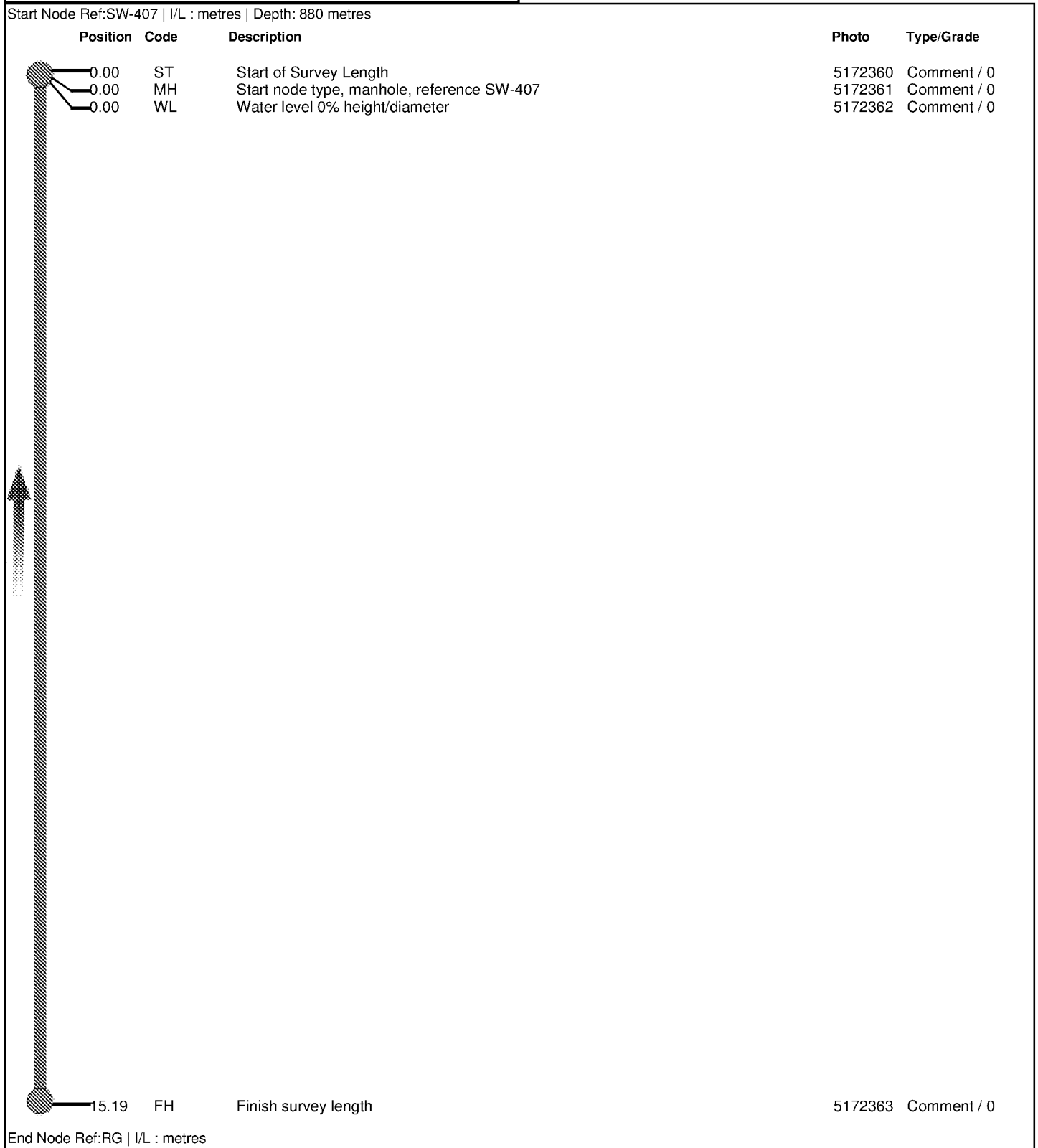
Job Number
434Surveyed by (Operator)
Luke ClaytonBase Unit
8J5R2AEYKLDate
10/06/2021Start of Survey Length, Start node type, manhole, reference SW-407,
Water level 0% height/diameter

Junction at 11 o'clock, diameter 100mm



Finish survey length

Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) RG X	Date 10/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 51
Road UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 150mm Material Polyethylene Category	Start Node SW-407 End Node RG Total length 15.19 metres		
Scale 1:0.79 Direction Upstream				

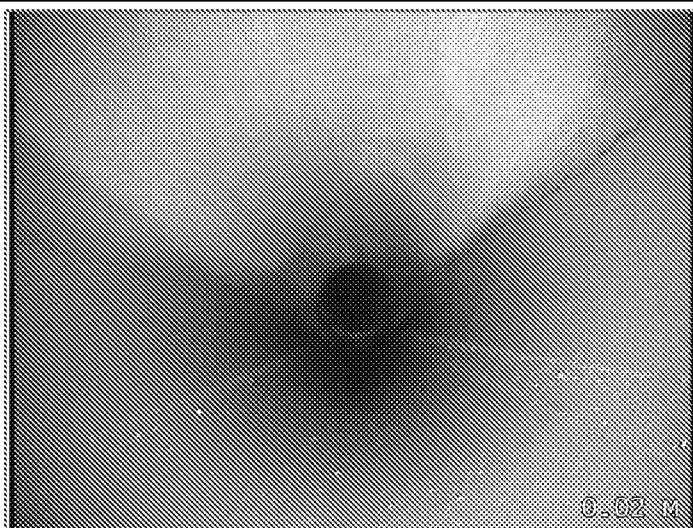


Job Number
434

Surveyed by (Operator)
Luke Clayton

Base Unit
8J5R2AEYKL

Date
10/06/2021

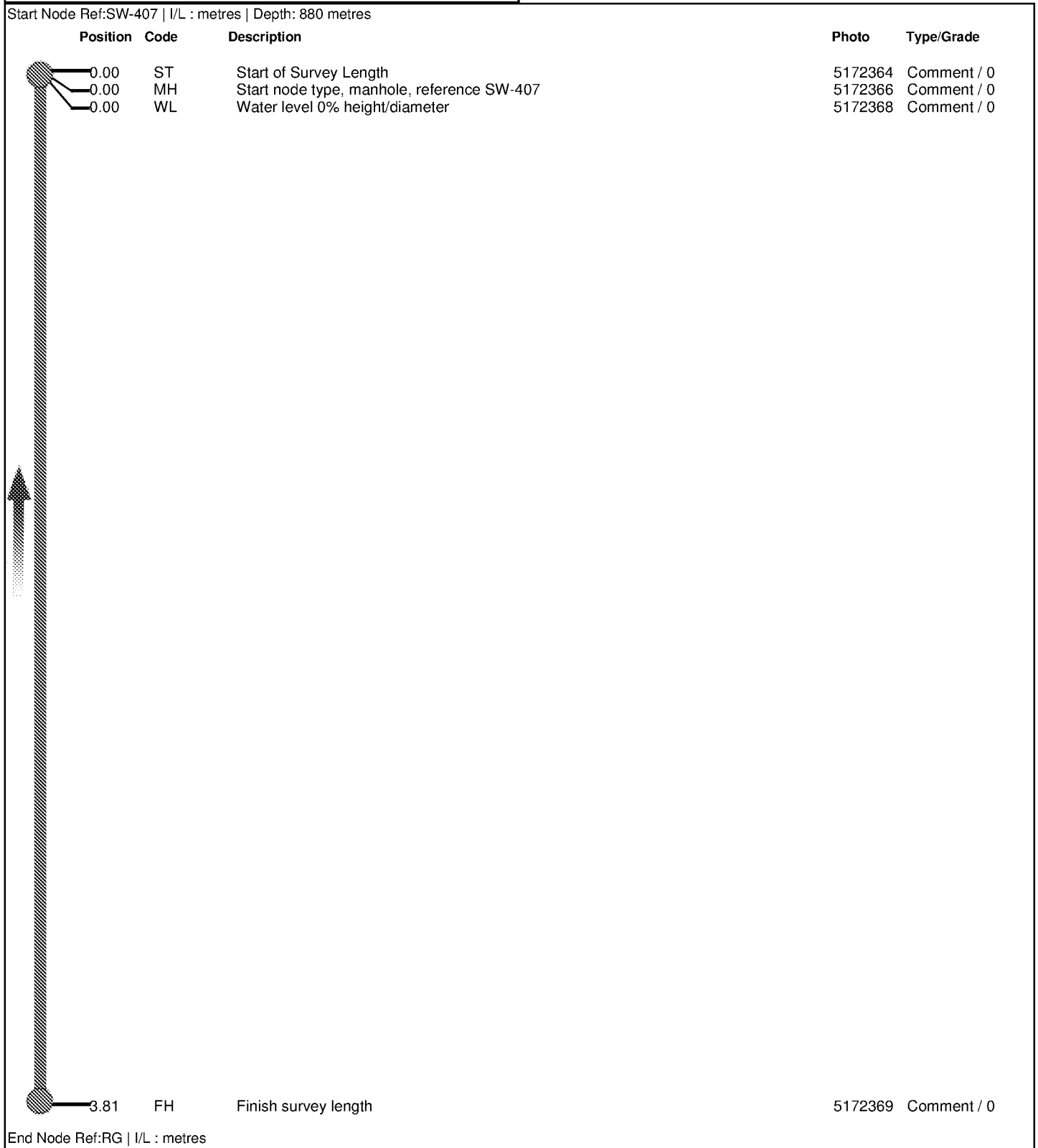


Start of Survey Length, Start node type, manhole, reference SW-407,
Water level 0% height/diameter



Finish survey length

Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) RG X	Date 10/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 52
Road UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 150mm Material Polyethylene Category	Start Node SW-407 End Node RG Total length 3.81 metres		
Scale 1:0.16 Direction Upstream				

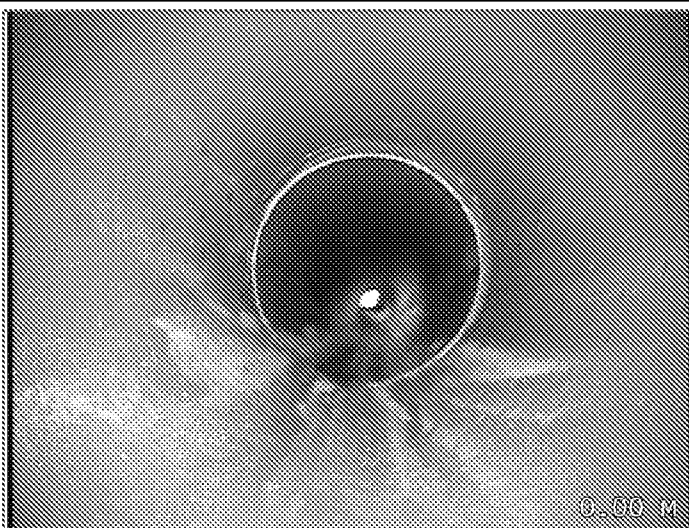


Job Number
434

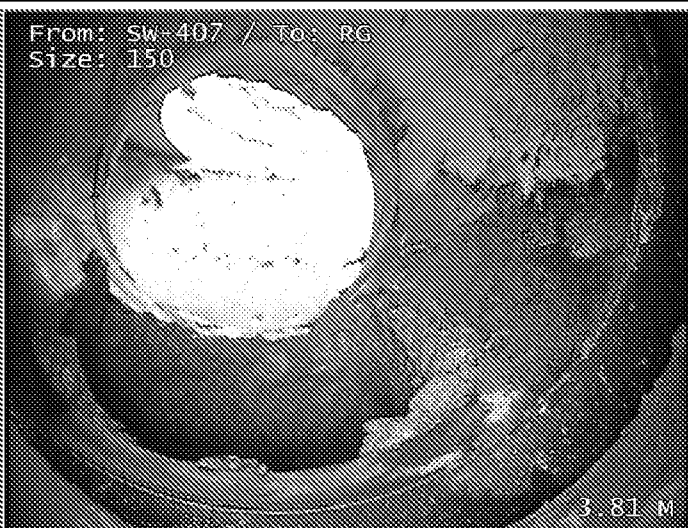
Surveyed by (Operator)
Luke Clayton

Base Unit
8J5R2AEYKL

Date
10/06/2021



Start of Survey Length, Start node type, manhole, reference SW-407,
Water level 0% height/diameter



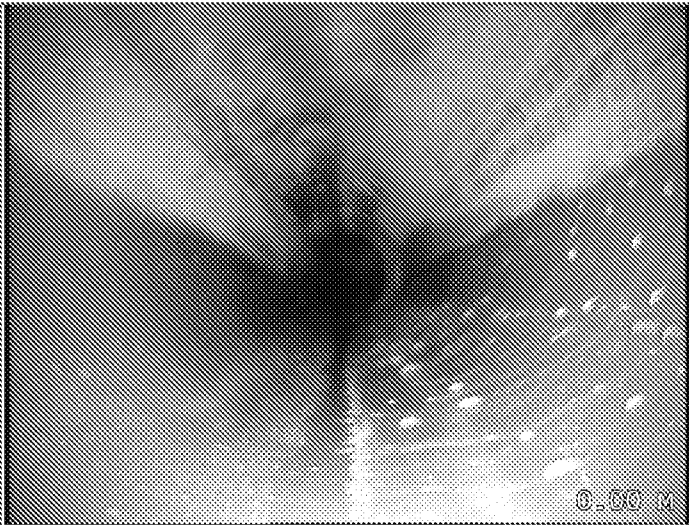
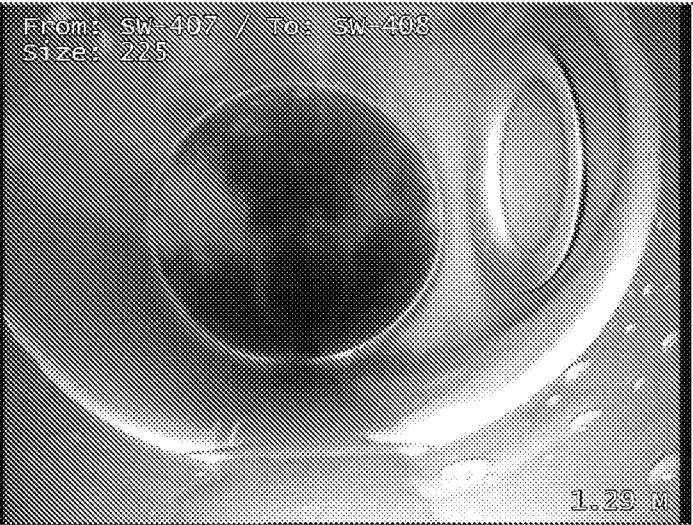
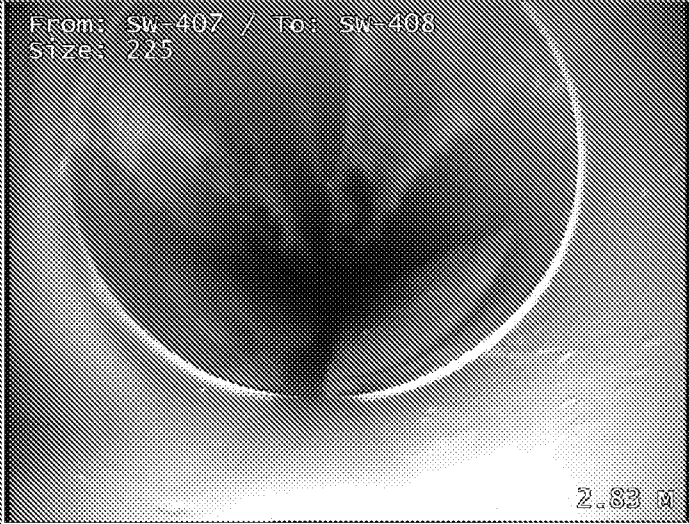
Finish survey length

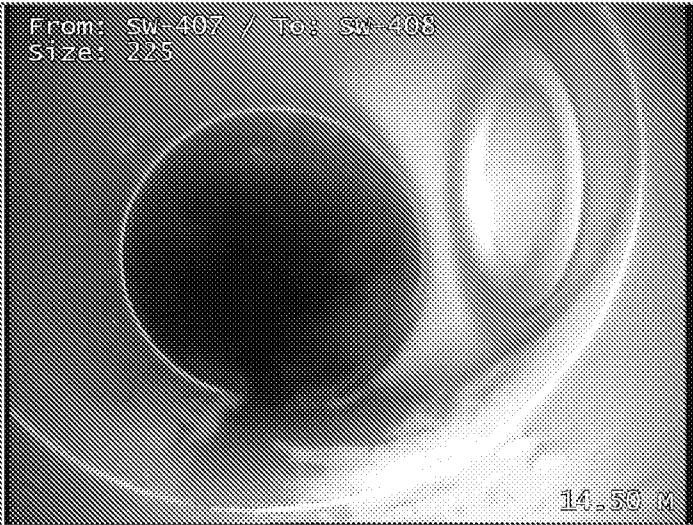
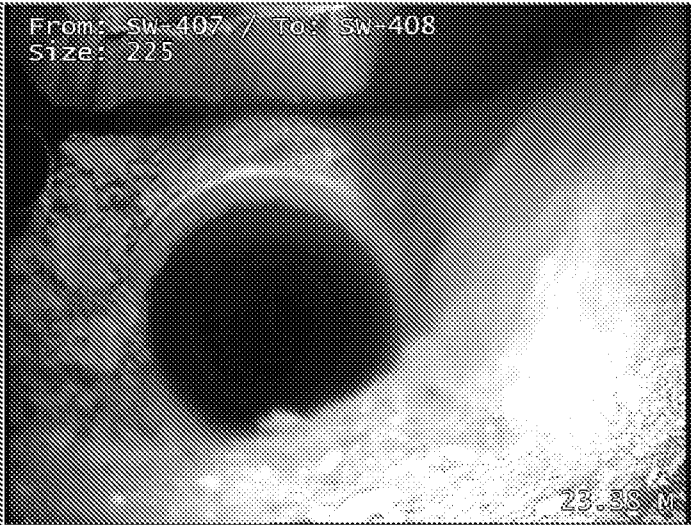
Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) SW-407 X	Date 10/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 53
Road UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 225mm Material Polyethylene Category	Start Node SW-407 End Node SW-408 Total length 23.36 metres		
Scale 1:1.21 Direction Downstream				

Start Node Ref:SW-407 | I/L : metres | Depth: 880 metres

Position	Code	Description	Photo	Type/Grade
0.00	ST	Start of Survey Length	5172383	Comment / 0
0.00	MH	Start node type, manhole, reference SW-407	5172384	Comment / 0
0.00	WL	Water level 0% height/diameter	5172385	Comment / 0
1.29	JN	Junction at 2 o'clock, diameter 100mm - Remark: RWP	5172386	Comment / 0
2.83	JN	Junction at 11 o'clock, diameter 150mm - Remark: RG	5172391	Comment / 0
10.33	JN	Junction at 11 o'clock, diameter 150mm - Remark: ACO SUMP	5172393	Comment / 0
10.76	JN	Junction at 1 o'clock, diameter 150mm - Remark: RWP	5172394	Comment / 0
11.69	JN	Junction at 11 o'clock, diameter 150mm	5172400	Comment / 0
14.50	JN	Junction at 1 o'clock, diameter 100mm - Remark: RWP	5172403	Comment / 0
23.36	FH	Finish survey length	5172422	Comment / 0

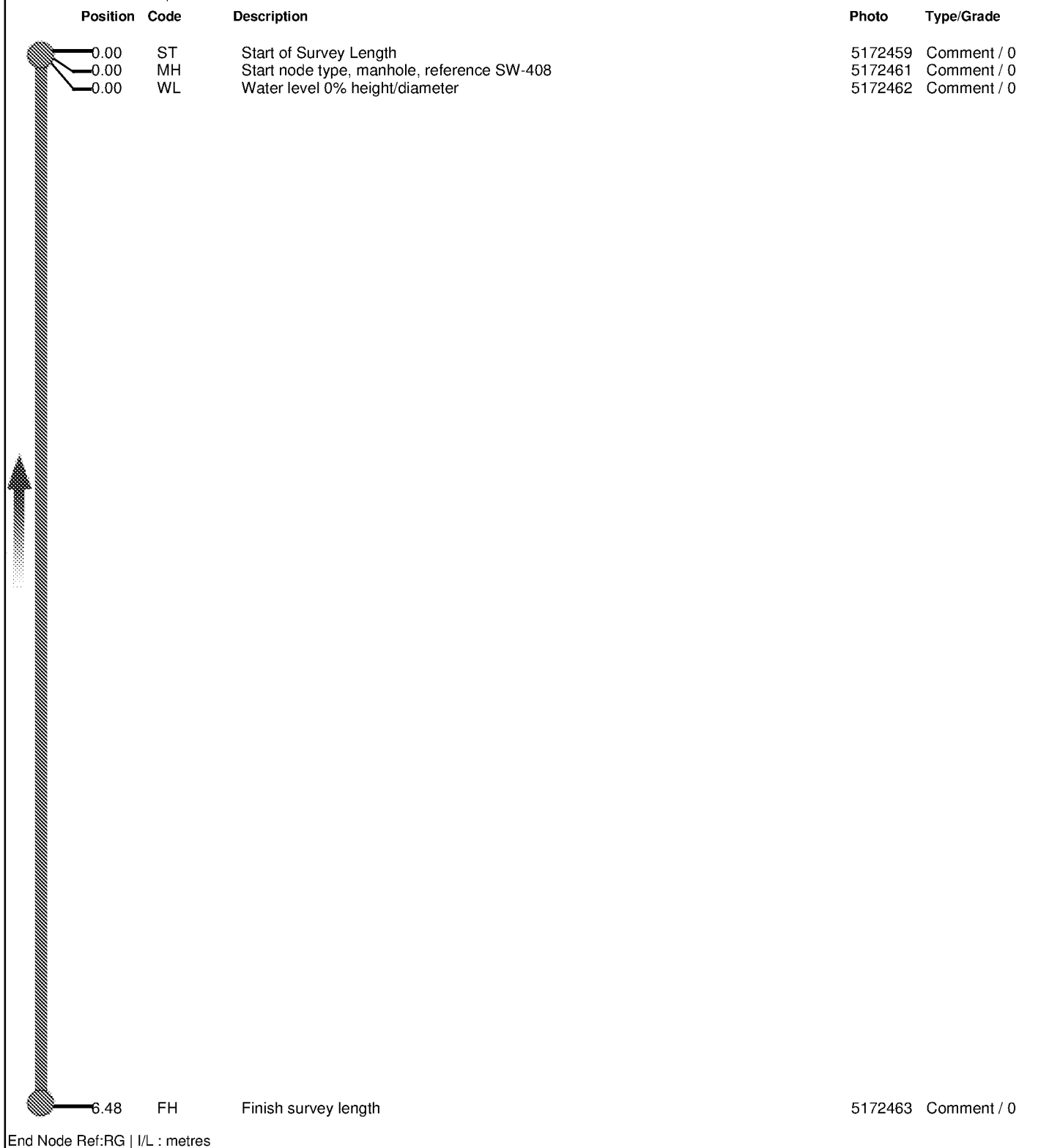
End Node Ref:SW-408 | I/L : metres

Job Number 434	Surveyed by (Operator) Luke Clayton	Base Unit 8J5R2AEYKL	Date 10/06/2021
 0.00 M Start of Survey Length, Start node type, manhole, reference SW-407, Water level 0% height/diameter		 From: SW-407 / To: SW-408 Size: 225 1.29 M Junction at 2 o'clock, diameter 100mm - Remark: RWP	
 From: SW-407 / To: SW-408 Size: 225 2.83 M Junction at 11 o'clock, diameter 150mm - Remark: RG		 From: SW-407 / To: SW-408 Size: 225 10.33 M Junction at 11 o'clock, diameter 150mm - Remark: ACO SUMP	
 From: SW-407 / To: SW-408 Size: 225 10.79 M Junction at 1 o'clock, diameter 150mm - Remark: RWP		 From: SW-407 / To: SW-408 Size: 225 11.60 M Junction at 11 o'clock, diameter 150mm	

Job Number 434	Surveyed by (Operator) Luke Clayton	Base Unit 8J5R2AEYKL	Date 10/06/2021
From: SW-407 / To: SW-408 Size: 225  14.50 M Junction at 1 o'clock, diameter 100mm - Remark: RWP		From: SW-407 / To: SW-408 Size: 225  23.38 M Finish survey length	

Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) RG X	Date 10/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 54
Road UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 150mm Material Polyethylene Category	Start Node SW-408 End Node RG Total length 6.48 metres		
Scale 1:0.31 Direction Upstream				

Start Node Ref:SW-408 | I/L : metres



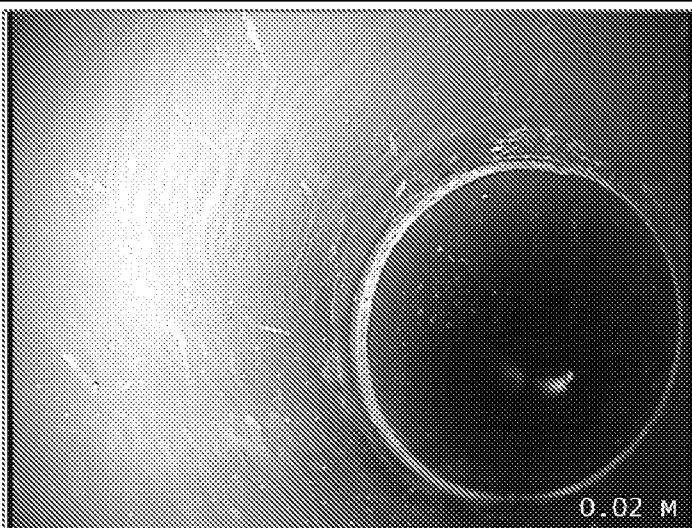
End Node Ref:RG | I/L : metres

Job Number
434

Surveyed by (Operator)
Luke Clayton

Base Unit
8J5R2AEYKL

Date
10/06/2021

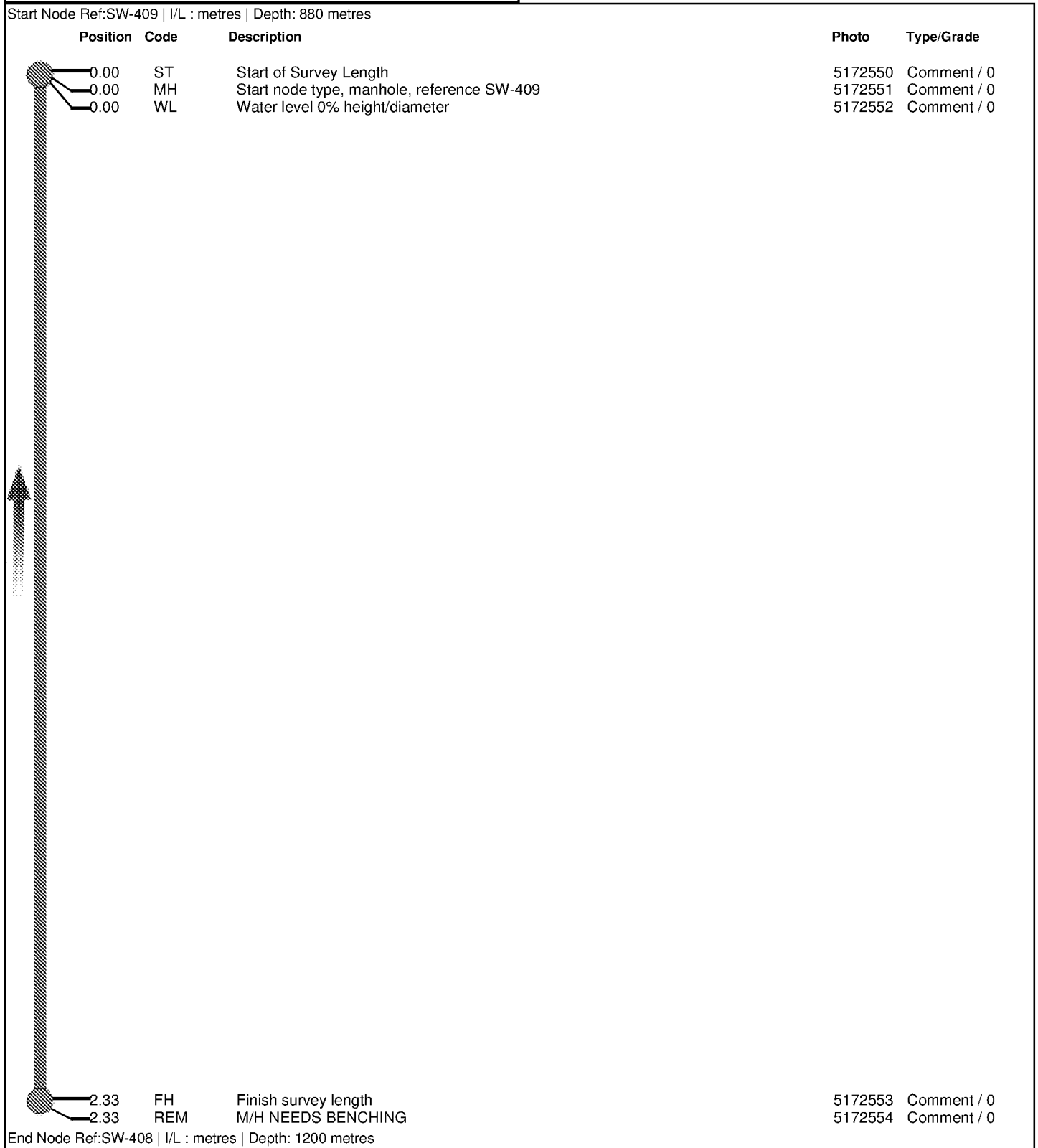


Start of Survey Length, Start node type, manhole, reference SW-408,
Water level 0% height/diameter



Finish survey length

Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) SW-408 X	Date 10/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 55
Road UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 450mm Material Concrete Category	Start Node SW-409 End Node SW-408 Total length 2.33 metres		
Scale 1:0.10 Direction Upstream				



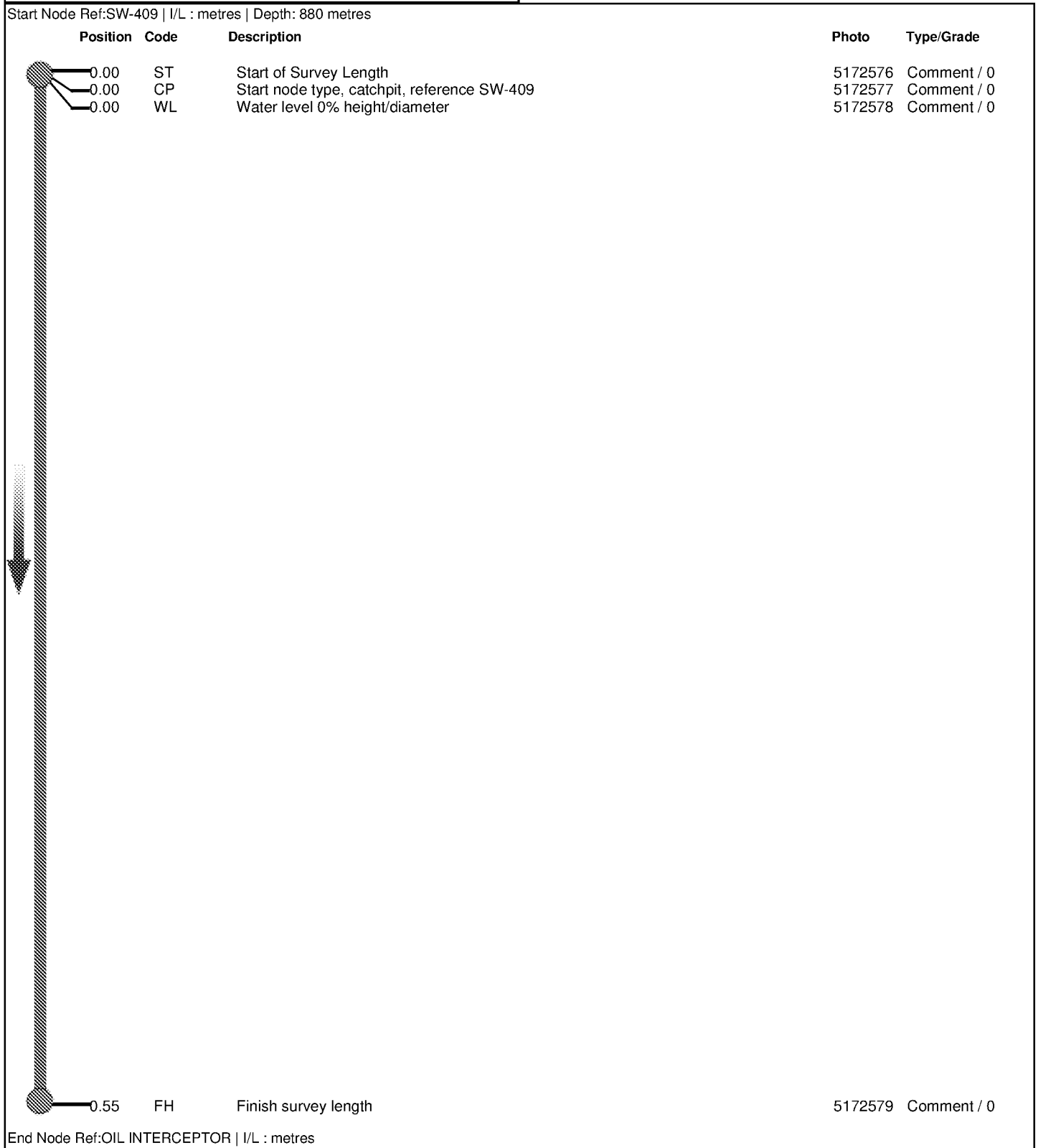
Job Number
434Surveyed by (Operator)
Luke ClaytonBase Unit
8J5R2AEYKLDate
10/06/2021Start of Survey Length, Start node type, manhole, reference SW-409,
Water level 0% height/diameter

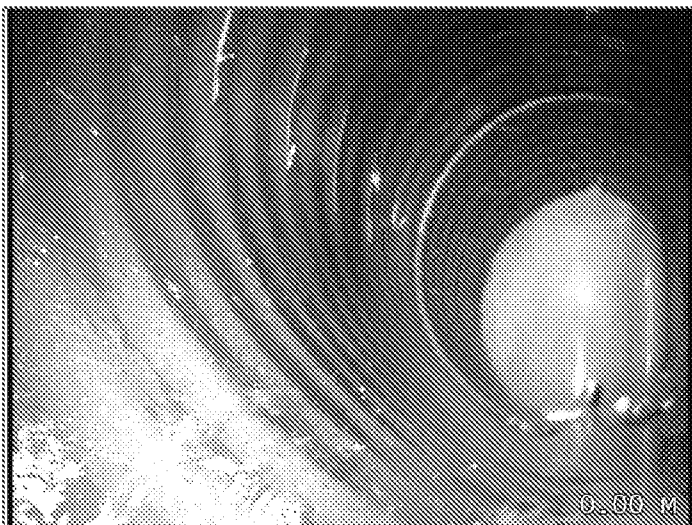
Finish survey length



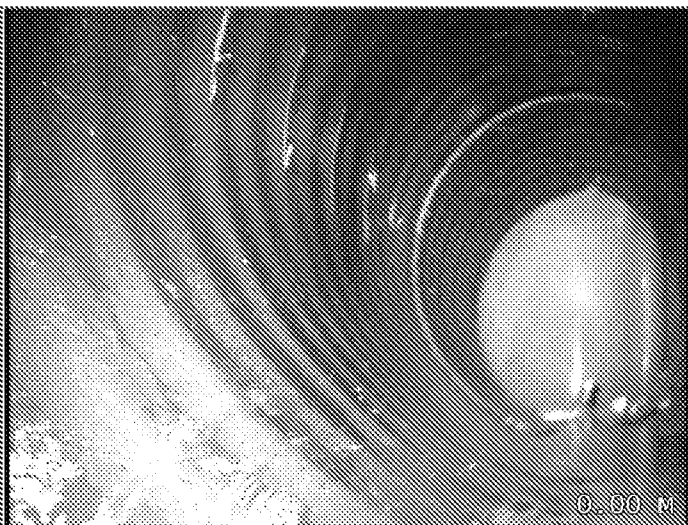
M/H NEEDS BENCHING

Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) SW-409 X	Date 10/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 56
Road UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 450mm Material Polypropylene Category	Start Node SW-409 End Node OIL INTERCEPTOR Total length 0.55 metres		
Scale 1:0.00 Direction Downstream				

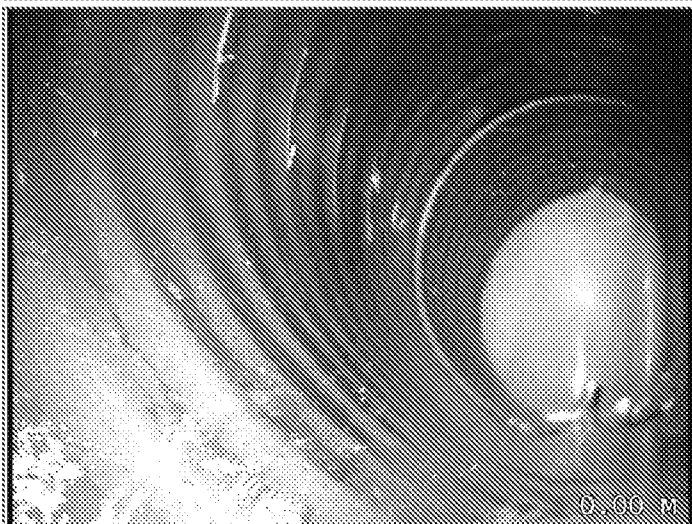


Job Number
434Surveyed by (Operator)
Luke ClaytonBase Unit
8J5R2AEYKLDate
10/06/2021

Start of Survey Length



Start node type, catchpit, reference SW-409

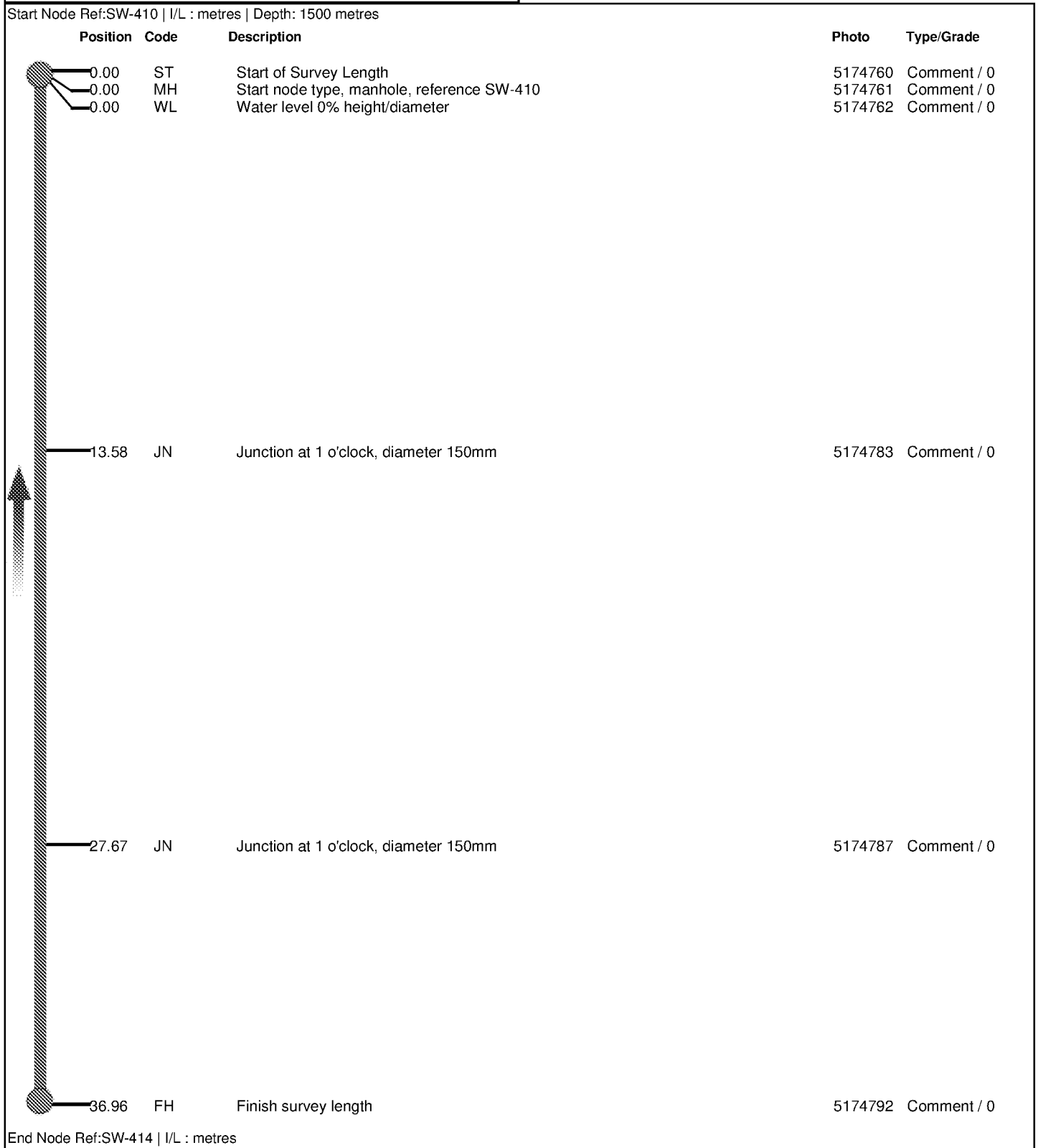


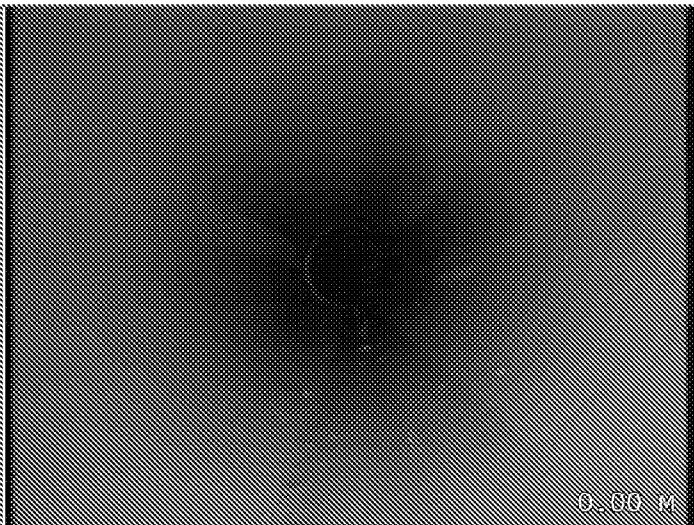
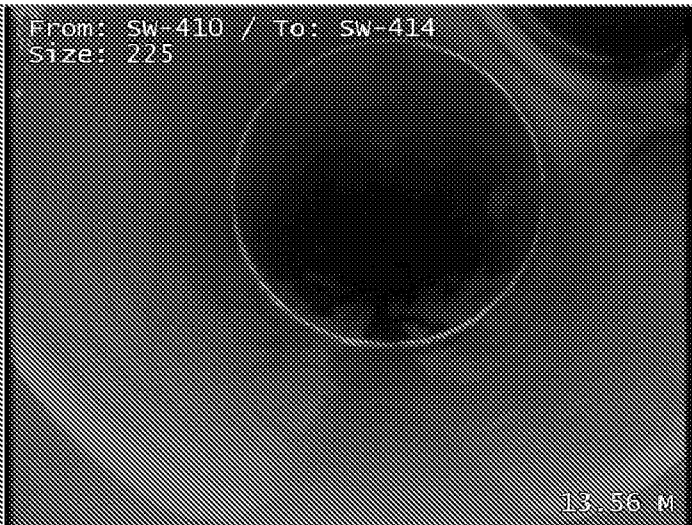
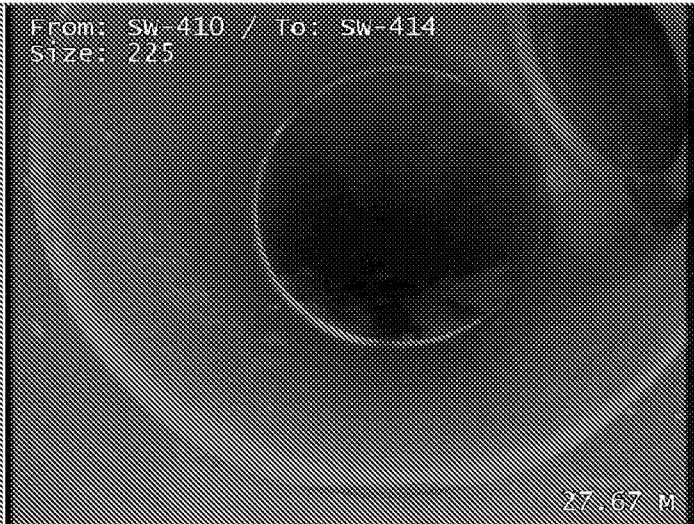
Water level 0% height/diameter



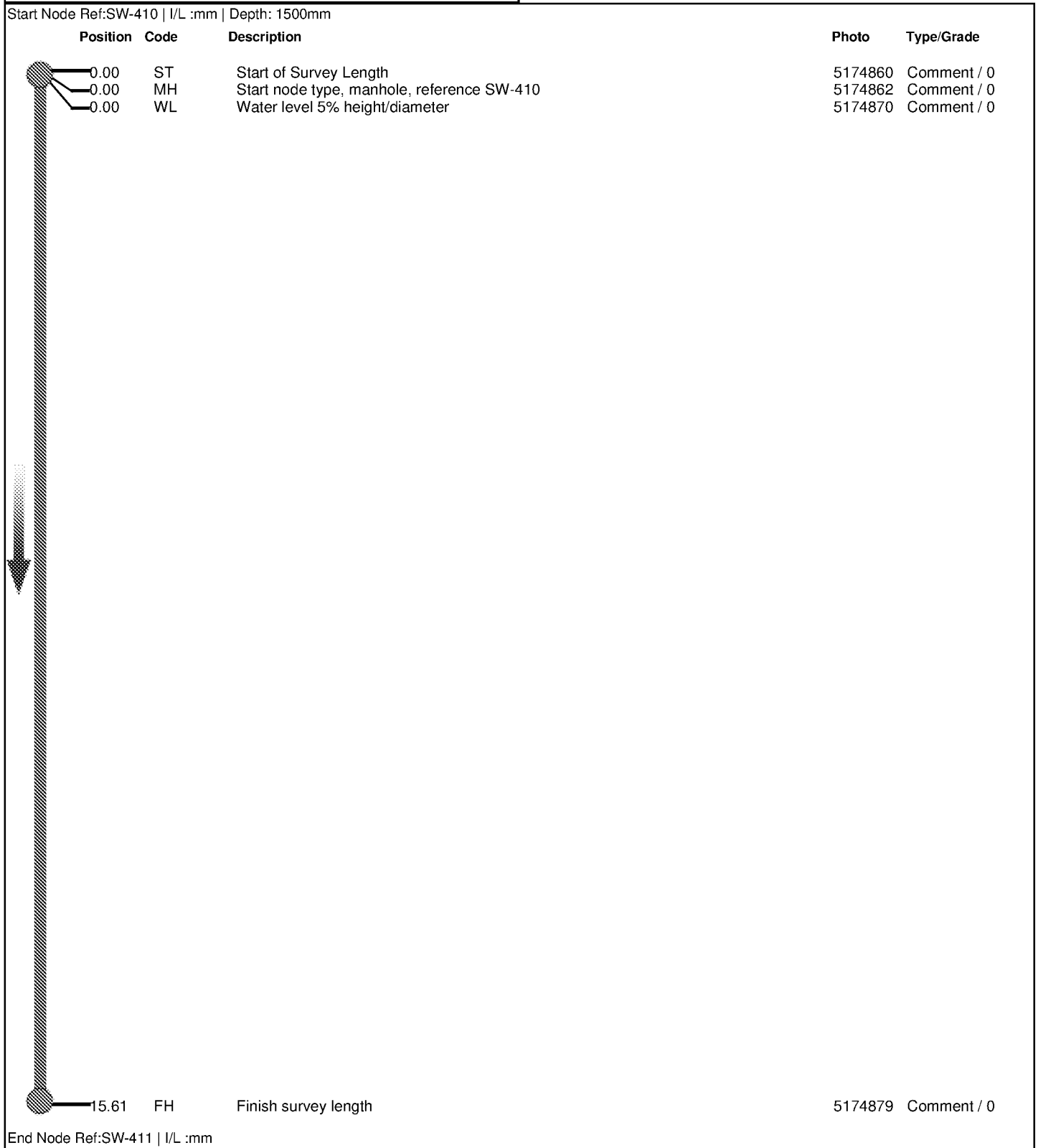
Finish survey length

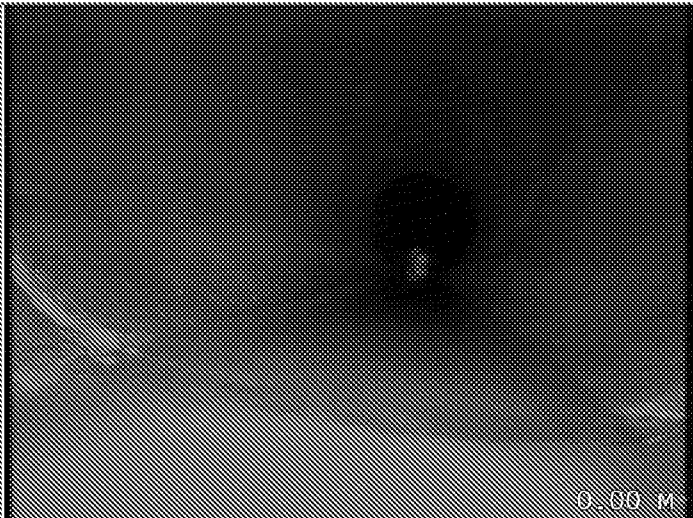
Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) SW-414 X	Date 11/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 57
Road UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 225mm Material Vitrified clay Category	Start Node SW-410 End Node SW-414 Total length 36.96 metres		
Scale 1:1.89 Direction Upstream				



Job Number 434	Surveyed by (Operator) Luke Clayton	Base Unit 8J5R2AEYKL	Date 11/06/2021
 0.00 M Start of Survey Length, Start node type, manhole, reference SW-410, Water level 0% height/diameter		 From: SW-410 / To: SW-414 Size: 225 13.56 M Junction at 1 o'clock, diameter 150mm	
 From: SW-410 / To: SW-414 Size: 225 27.67 M Junction at 1 o'clock, diameter 150mm		 From: SW-410 / To: SW-414 Size: 225 36.96 M Finish survey length	

Surveyed by (Operator) Luke Clayton	Job Number 434	Pipe Length Reference(PLR) SW-410 X	Date 11/06/2021	Pre Cleaned HPWJ to clean prior to survey
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit 8J5R2AEYKL	Section Number 58
Road UNIT 4, 5 AND 8 Place Saltbox Location Shripney Way		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 450mm Material Concrete Category	Start Node SW-410 End Node SW-411 Total length 15.61 metres		
Scale 1:0.79 Direction Downstream				



Job Number 434	Surveyed by (Operator) Luke Clayton	Base Unit 8J5R2AEYKL	Date 11/06/2021
 0.00 M Start of Survey Length, Start node type, manhole, reference SW-410, Water level 5% height/diameter		From: SW-410 / To: SW-411 Size: 450  15.43 M Finish survey length	

Job Number 434				Surveyed by (Operator) Luke Clayton			Base Unit 8J5R2AEYKL			Date 09/06/2021			
No.	PLR	Dir.	Use	Shape/Size	Date	Mat.	Total Length	Inspection Length	Cat.	Peak Score	Grade	Mean Score	Total Score
1	RG X	U	S	150	09/06/2021	Polyethylene	4.15 metres	4.15		0	1	0	0
2	ACO X	U	S	150	09/06/2021	Polyethylene	12.29 metres	12.29		0	1	0	0
3	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	9.21 metres	9.21		0	1	0	0
4	SW-401 X	D	S	225	09/06/2021	Polyethylene	6.71 metres	6.71		0	1	0	0
5	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	1.74 metres	1.74		0	1	0	0
6	RG X	U	S	150	09/06/2021	Polyethylene	5.24 metres	5.24		0	1	0	0
7	SW-423 X	D	S	225	09/06/2021	Polyethylene	11.5 metres	11.5		0	1	0	0
8	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	6.31 metres	6.31		0	1	0	0
9	SW-402 X	D	S	450	09/06/2021	Concrete	13.83 metres	13.83		0	1	0	0
10	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	2.98 metres	2.98		0	1	0	0
11	RG X	U	S	150	09/06/2021	Polyethylene	4.67 metres	4.67		0	1	0	0
12	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	10.29 metres	10.29		0	1	0	0
13	RG X	U	S	150	09/06/2021	Polyethylene	6.5 metres	6.5		0	1	0	0
14	SW-424 X	D	S	225	09/06/2021	Polyethylene	13.26 metres	13.26		0	1	0	0
15	SW-403 X	D	S	450	09/06/2021	Concrete	12.69 metres	12.69		0	1	0	0
16	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	2.69 metres	2.69		0	1	0	0
17	RG X	U	S	150	09/06/2021	Polyethylene	4.76 metres	4.76		0	1	0	0
18	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	10.62 metres	10.62		0	1	0	0
19	RG X	U	S	150	09/06/2021	Polyethylene	6.05 metres	6.05		0	1	0	0
20	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	2.67 metres	2.67		0	1	0	0
21	SW-425 X	D	S	225	09/06/2021	Polyethylene	20.02 metres	20.02		0	1	0	0
22	RG X	U	S	150	09/06/2021	Polyethylene	2.1 metres	2.1		0	1	0	0
23	SW-404 X	D	S	450	09/06/2021	Concrete	15.31 metres	15.31		0	1	0	0
24	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	4.6 metres	4.6		0	1	0	0
25	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	9.24 metres	9.24		0	1	0	0
26	RG X	U	S	150	09/06/2021	Polyethylene	8.07 metres	8.07		0	1	0	0
27	SW-419 X	D	S	225	09/06/2021	Polyethylene	36.21 metres	36.21		0	1	0	0
28	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	7.79 metres	7.79		0	1	0	0
29	ACO X	U	S	100	09/06/2021	Polyethylene	1.71 metres	1.71		0	1	0	0

Job Number 434				Surveyed by (Operator) Luke Clayton			Base Unit 8J5R2AEYKL			Date 09/06/2021			
No.	PLR	Dir.	Use	Shape/Size	Date	Mat.	Total Length	Inspection Length	Cat.	Peak Score	Grade	Mean Score	Total Score
30	RWP X	U	S	150	09/06/2021	Polyethylene	6.64 metres	6.64		0	1	0	0
31	SW-422 X	D	S	225	09/06/2021	Polyethylene	26.52 metres	26.52		0	1	0	0
32	RG X	U	S	150	09/06/2021	Polyethylene	9 metres	9		0	1	0	0
33	RG X	U	S	150	09/06/2021	Polyethylene	9.83 metres	9.83		0	1	0	0
34	ACO SUMP X	U	S	150	09/06/2021	Polyethylene	6.17 metres	6.17		0	1	0	0
35	SW-420 X	D	S	225	09/06/2021	Polyethylene	29.48 metres	29.48		0	1	0	0
36	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	3.88 metres	3.88		0	1	0	0
37	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	2.29 metres	2.29		0	1	0	0
38	RWP X	U	S	150	09/06/2021	Polyethylene	17.33 metres	17.33		0	1	0	0
39	RG X	U	S	150	09/06/2021	Polyethylene	4.5 metres	4.5		0	1	0	0
40	ACO X	U	S	100	09/06/2021	Polyethylene	10.31 metres	10.31		0	1	0	0
41	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	3.07 metres	3.07		0	1	0	0
42	SW-415 X	D	S	225	09/06/2021	Polyethylene	6.88 metres	6.88		0	1	0	0
43	SW-416 X	D	S	225	09/06/2021	Polyethylene	29.21 metres	29.21		0	1	0	0
44	SW-417 X	U	S	225	09/06/2021	Polyethylene	3.12 metres	3.12		0	1	0	0
45	ACO SUMP X	U	S	150	09/06/2021	Polyethylene	10.14 metres	10.14		0	1	0	0
46	SW-418 X	D	S	450	09/06/2021	Concrete	78.24 metres	78.24		0	1	0	0
47	SW-421 X	U	S	225	09/06/2021	Polypropylene	13.67 metres	13.67		0	1	0	0
48	SW-406 X	D	S	450	09/06/2021	Concrete	5.36 metres	5.36		0	1	0	0
49	RWP X	U	S	100	09/06/2021	Polyethylene	2.5 metres	2.5		0	1	0	0
50	RWP X	U	S	100	09/06/2021	Polyethylene	12.38 metres	12.38		0	1	0	0
51	RG X	U	S	150	09/06/2021	Polyethylene	15.19 metres	15.19		0	1	0	0
52	RG X	U	S	150	09/06/2021	Polyethylene	3.81 metres	3.81		0	1	0	0
53	SW-407 X	D	S	225	09/06/2021	Polyethylene	23.36 metres	23.36		0	1	0	0
54	RG X	U	S	150	09/06/2021	Polyethylene	6.48 metres	6.48		0	1	0	0
55	SW-408 X	U	S	450	09/06/2021	Concrete	2.33 metres	2.33		0	1	0	0
56	SW-409 X	D	S	450	09/06/2021	Polypropylene	0.55 metres	0.55		0	1	0	0
57	SW-414 X	U	S	225	09/06/2021	Vitrified clay	36.96 metres	36.96		0	1	0	0
58	SW-410 X	D	S	450	09/06/2021	Concrete	15.61 metres	15.61		0	1	0	0

Job Number 434				Surveyed by (Operator) Luke Clayton			Base Unit 8J5R2AEYKL			Date 09/06/2021			
No.	PLR	Dir.	Use	Shape/Size	Date	Mat.	Total Length	Inspection Length	Cat.	Peak Score	Grade	Mean Score	Total Score
1	RG X	U	S	150	09/06/2021	Polyethylene	4.15 metres	4.15		0	1	0	0
2	ACO X	U	S	150	09/06/2021	Polyethylene	12.29 metres	12.29		0	1	0	0
3	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	9.21 metres	9.21		0	1	0	0
4	SW-401 X	D	S	225	09/06/2021	Polyethylene	6.71 metres	6.71		0	1	0	0
5	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	1.74 metres	1.74		0	1	0	0
6	RG X	U	S	150	09/06/2021	Polyethylene	5.24 metres	5.24		0	1	0	0
7	SW-423 X	D	S	225	09/06/2021	Polyethylene	11.5 metres	11.5		0	1	0	0
8	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	6.31 metres	6.31		0	1	0	0
9	SW-402 X	D	S	450	09/06/2021	Concrete	13.83 metres	13.83		0	1	0	0
10	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	2.98 metres	2.98		0	1	0	0
11	RG X	U	S	150	09/06/2021	Polyethylene	4.67 metres	4.67		0	1	0	0
12	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	10.29 metres	10.29		0	1	0	0
13	RG X	U	S	150	09/06/2021	Polyethylene	6.5 metres	6.5		0	1	0	0
14	SW-424 X	D	S	225	09/06/2021	Polyethylene	13.26 metres	13.26		0	1	0	0
15	SW-403 X	D	S	450	09/06/2021	Concrete	12.69 metres	12.69		0	1	0	0
16	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	2.69 metres	2.69		0	1	0	0
17	RG X	U	S	150	09/06/2021	Polyethylene	4.76 metres	4.76		0	1	0	0
18	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	10.62 metres	10.62		0	1	0	0
19	RG X	U	S	150	09/06/2021	Polyethylene	6.05 metres	6.05		0	1	0	0
20	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	2.67 metres	2.67		0	1	0	0
21	SW-425 X	D	S	225	09/06/2021	Polyethylene	20.02 metres	20.02		0	1	0	0
22	RG X	U	S	150	09/06/2021	Polyethylene	2.1 metres	2.1		0	1	0	0
23	SW-404 X	D	S	450	09/06/2021	Concrete	15.31 metres	15.31		0	1	0	0
24	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	4.6 metres	4.6		0	1	0	0
25	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	9.24 metres	9.24		0	1	0	0
26	RG X	U	S	150	09/06/2021	Polyethylene	8.07 metres	8.07		0	1	0	0
27	SW-419 X	D	S	225	09/06/2021	Polyethylene	36.21 metres	36.21		0	1	0	0
28	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	7.79 metres	7.79		0	1	0	0
29	ACO X	U	S	100	09/06/2021	Polyethylene	1.71 metres	1.71		0	1	0	0

Job Number 434				Surveyed by (Operator) Luke Clayton			Base Unit 8J5R2AEYKL			Date 09/06/2021			
No.	PLR	Dir.	Use	Shape/Size	Date	Mat.	Total Length	Inspection Length	Cat.	Peak Score	Grade	Mean Score	Total Score
30	RWP X	U	S	150	09/06/2021	Polyethylene	6.64 metres	6.64		0	1	0	0
31	SW-422 X	D	S	225	09/06/2021	Polyethylene	26.52 metres	26.52		0	1	0	0
32	RG X	U	S	150	09/06/2021	Polyethylene	9 metres	9		0	1	0	0
33	RG X	U	S	150	09/06/2021	Polyethylene	9.83 metres	9.83		0	1	0	0
34	ACO SUMP X	U	S	150	09/06/2021	Polyethylene	6.17 metres	6.17		0	1	0	0
35	SW-420 X	D	S	225	09/06/2021	Polyethylene	29.48 metres	29.48		0	1	0	0
36	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	3.88 metres	3.88		0	1	0	0
37	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	2.29 metres	2.29		0	1	0	0
38	RWP X	U	S	150	09/06/2021	Polyethylene	17.33 metres	17.33		0	1	0	0
39	RG X	U	S	150	09/06/2021	Polyethylene	4.5 metres	4.5		0	1	0	0
40	ACO X	U	S	100	09/06/2021	Polyethylene	10.31 metres	10.31		0	1	0	0
41	FIN DRAIN X	U	S	150	09/06/2021	Polyethylene	3.07 metres	3.07		0	1	0	0
42	SW-415 X	D	S	225	09/06/2021	Polyethylene	6.88 metres	6.88		0	1	0	0
43	SW-416 X	D	S	225	09/06/2021	Polyethylene	29.21 metres	29.21		0	1	0	0
44	SW-417 X	U	S	225	09/06/2021	Polyethylene	3.12 metres	3.12		0	1	0	0
45	ACO SUMP X	U	S	150	09/06/2021	Polyethylene	10.14 metres	10.14		0	1	0	0
46	SW-418 X	D	S	450	09/06/2021	Concrete	78.24 metres	78.24		0	1	0	0
47	SW-421 X	U	S	225	09/06/2021	Polypropylene	13.67 metres	13.67		0	1	0	0
48	SW-406 X	D	S	450	09/06/2021	Concrete	5.36 metres	5.36		0	1	0	0
49	RWP X	U	S	100	09/06/2021	Polyethylene	2.5 metres	2.5		0	1	0	0
50	RWP X	U	S	100	09/06/2021	Polyethylene	12.38 metres	12.38		0	1	0	0
51	RG X	U	S	150	09/06/2021	Polyethylene	15.19 metres	15.19		0	1	0	0
52	RG X	U	S	150	09/06/2021	Polyethylene	3.81 metres	3.81		0	1	0	0
53	SW-407 X	D	S	225	09/06/2021	Polyethylene	23.36 metres	23.36		0	1	0	0
54	RG X	U	S	150	09/06/2021	Polyethylene	6.48 metres	6.48		0	1	0	0
55	SW-408 X	U	S	450	09/06/2021	Concrete	2.33 metres	2.33		0	1	0	0
56	SW-409 X	D	S	450	09/06/2021	Polypropylene	0.55 metres	0.55		0	1	0	0
57	SW-414 X	U	S	225	09/06/2021	Vitrified clay	36.96 metres	36.96		0	1	0	0
58	SW-410 X	D	S	450	09/06/2021	Concrete	15.61 metres	15.61		0	1	0	0

Job Number
434Surveyed by (Operator)
Luke ClaytonBase Unit
8J5R2AEYKLDate
09/06/2021

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.