

Foul and Surface Water Drainage Report

2 Reservoir Place, Ashurst

For

Scott Weller

Rev **P1**

Reference **C3547**

Date **27th February 2025**

Revision	Date of Issue	Comments	Prepared By	Checked By
P	27/02/2025	Initial Issue	KCK	CS
P1	28/04/2025	Updated Appendix D	KCK	CS

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1 Introduction

- 1.1.1 CGS Civils Ltd has been appointed to undertake a drainage strategy report for a proposed development at 2 Reservoir Place, Ashurst.
- 1.1.2 The purpose of this drainage strategy is to demonstrate how the development area can be satisfactorily drained without increasing flood risk onsite and elsewhere.
- 1.1.3 The existing site consists of an undeveloped area. The proposed development will consist of the construction of a 2-bedroom dwelling. The proposed development is located as OS Grid Reference **TQ 41198 37005** and has the post code **RH19 3TB**.
- 1.1.4 The proposed site plan can be found in **Appendix A**.



Fig 1. Site Location

2 Executive Summary:

- 2.1.1 Surface water will be discharged into the ground via deep borehole soakaway. The proposed surface water drainage design is based on an assumed infiltration rate of 7.00×10^{-5} m/s. The infiltration system is designed to accommodate the critical 1 in 100-year storm event with an additional 45% allowance for climate change.
- 2.1.2 The foul water will discharge to the local foul water sewer via a direct connection into an existing manhole. This connection is subject to Southern Water approval under a Section 106 agreement.

3 Site Geology

3.1 British Geological Survey information

- 3.1.1 The British Geological Survey confirms the bedrock geology to be made up Grinstead Clay Member- Mudstone. At the time of writing the British Geological Survey website does not have any recorded information of the Superficial deposits on site.
- 3.1.2 The British Geological survey also holds records of historical boreholes near the site which give some insight into the ground geology.
- Borehole TQ43NW10 (Located approx. 466m North-East of the site) – Ground geology (Clay, Yellow Clay Sand.)
 - Borehole TQ43NW11 (Located approx. 485m North-East of the site) – Ground geology (Clay, Yellow Clay Sand.)
- 3.1.3 Borehole Logs can be found in **Appendix B**.

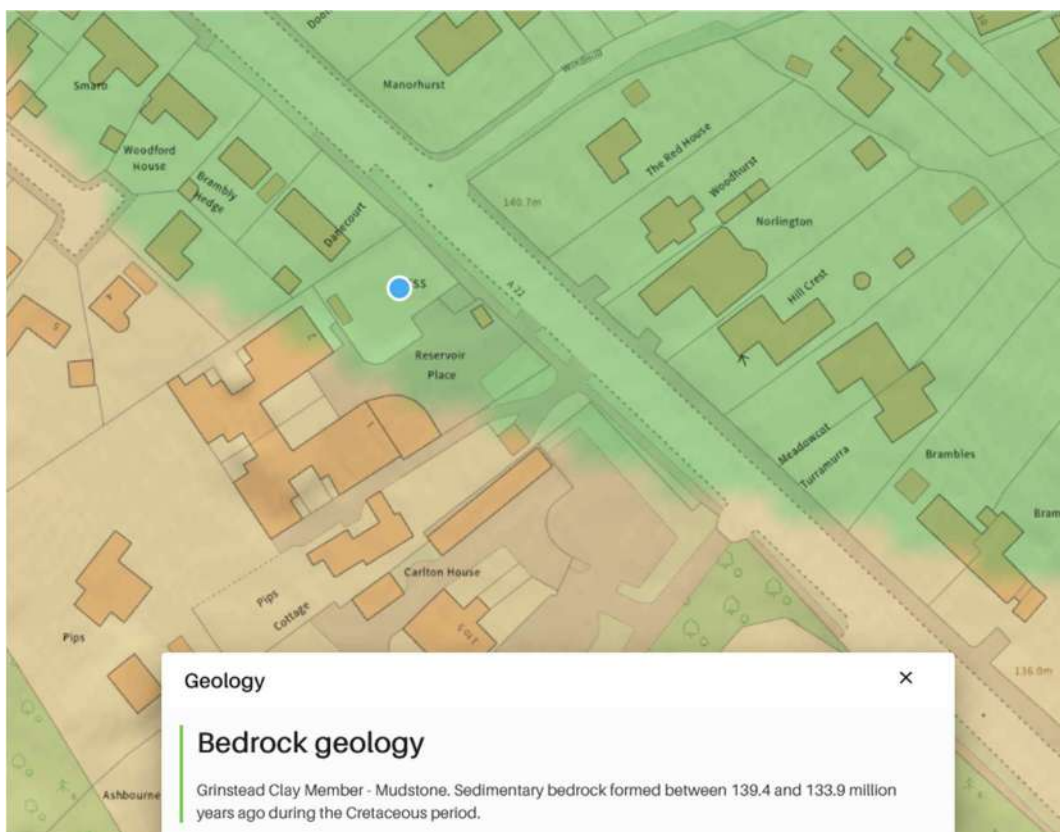


Fig 2. British Geological Survey

Snippet from BGS Website showing Bedrock geology/superficial deposits <http://mapapps.bgs.ac.uk/geologyofbritain/home.html?>

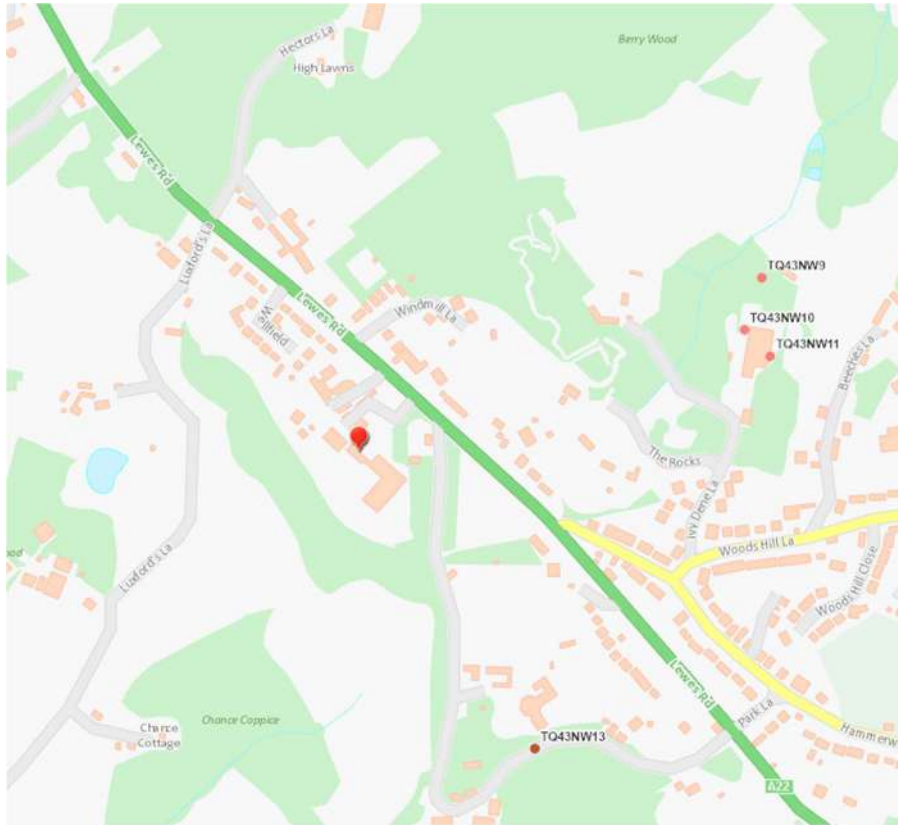


Fig 3. British Geological Survey

Snippet from BGS Website showing the Historical Borehole Log location

3.2 Soilscape Map Review

3.2.1 The online Soilsapes Viewer indicates that the proposed site is located within an area classified as Soilscape 8 – Slightly acid loamy and clayey soils with impeded drainage. This classification suggests unfavourable conditions for onsite infiltration, consistent with information from British Geological Survey (BGS) maps.



Fig 4. Soilsapes Viewer extract

3.3 Geological Assessment

- 3.3.1 No intrusive ground investigation testing has been conducted on-site however, a trial hole for infiltration testing was excavated to a depth of 1m BGL. During the infiltration testing, it was confirmed that the proposed site is underlain by clay soils, which is consistent with the information provided by BGS maps.
- 3.3.2 The nearest borehole logs indicate site being located within the area underlain by Clay, Yellow Clay Sand soils.
- 3.3.3 Due to the very low permeability, the test was deemed a **fail**. The only viable option for stormwater disposal is a deep borehole soakaway reaching the sand layer at approximately 16m. This solution is necessary due to the absence of existing Surface Water sewers and the lack of a watercourse in the vicinity of the proposed development site.



Fig 5. Soakaway test (site photographs)

3.3.4 The infiltration method for the proposed surface water runoff is proposed with an assumed infiltration rate of 7.0×10^{-5} m/s, reflecting typical sand substratum conditions and data provided from the site.

3.3.5 A well is located on site which was identified to be 30m deep with no groundwater noted.

4 Existing Drainage

4.1.1 An onsite CCTV Survey has been carried out to establish the existing surface and foul water drainage discharge locations. It was confirmed that surface water runoff from the existing dwellings currently discharges into the onsite combined sewer and then into existing foul, water public sewer located in Lewes Road.

4.1.2 The existing drainage CCTV Survey can be found in **Appendix C**.

5 Proposed Drainage Strategy

5.1 SuDS Hierarchy

5.1.1 All options for the destination of run-off generated on site have been assessed in line with the SuDS hierarchy as set out in Building Regulations Part H document and DEFRA's Draft National Standards for SuDS.

Table 1. SuDS Hierarchy

Discharge Destination	
Rainwater Harvesting	n/a
Discharge to Ground	All surface water from the roof areas within the assumed infiltration rate of 7.0×10^{-5} m/s
Discharge to Watercourse	n/a
Discharge to Surface Water Sewer	n/a
Discharge to Other Sewer	n/a

5.2 Proposed Hydraulic Calculation Specifications:

Table 2. SuDS Hierarchy

Hydraulic Calculations Settings:	
Rainfall Methodology	FEH-22
Volumetric Run-off Coefficient Cv	1.00
CV Winter and Summer	1.00 / 1.00
Additional Storage (m ³ / ha)	0.0
Flow Control	-
Attenuation	Base Coefficient (m/hr): 0.0000
	Side Coefficient (m/hr): 0.0000
	Factor of Safety: 2
	Porosity: 95%
	Time to Half Empty (mins): -

Hydraulic Calculations Settings:	
Rainfall Methodology	FEH-22
Volumetric Run-off Coefficient Cv	1.00
CV Winter and Summer	1.00 / 1.00
Additional Storage (m ³ / ha)	0.0
2 Deep Bore Soakaways	Base Coefficient (m/hr): 0.25200
	Side Coefficient (m/hr): 0.25200
	Factor of Safety: 2
	Porosity: 100%
	Time to Half Empty (mins): 121

Hydraulic Calculations Settings:	
Hydraulic Calculations Settings (Permeable Paving):	
Rainfall Methodology	FEH-22
Volumetric Run-off Coefficient Cv	1.0
CV Winter and Summer	1.0
Additional Storage (m ³ / ha)	0.0
Infiltration	Assumed worst-case infiltration 5.0 x 10-6m/s'
Permeable Paving	Base Coefficient (m/hr): 0.00720
	Side Coefficient (m/hr): 0.00720
	Factor of Safety: 2.0
	Porosity: 30%
	Time to Half Empty (mins): 293

5.3 Surface Water Drainage

- 5.3.1 Based on information gathered from the British Geological Survey website and infiltration test results, it is proposed that all surface water runoff be discharged to the ground via infiltration at an assumed rate of 7.00×10^{-5} m/s via a deep bore soakaway.
- 5.3.2 Surface water runoff from roof areas is to be collected and discharged into the onsite attenuation tank prior being discharged into the ground via the use of deep borehole soakaway. The proposed drainage network has been designed to cater for the 1 in 100 year +45% storm.
- 5.3.3 The proposed borehole soakaway design is subject to deep infiltration testing however desktop geology would suggest that this is an acceptable solution. Full details of the borehole soakaway will be confirmed at detail design stage.
- 5.3.4 All hard-paved areas are to be constructed using a self-draining, permeable finish. The final running surface will be confirmed at the detailed design stage.
- 5.3.5 The proposed drainage drawings and hydraulic calculations can be found at **Appendix D**.
- 5.3.6 The EA Magic Maps can be found at **Appendix F**.

5.4 Water Quality

- 5.4.1 A key requirement of any SuDS system is that it protects the receiving water body from the risk of pollution.
- 5.4.2 Frequent and short duration rainfall events are those that are most loaded with potential contaminants (silts, fines, heavy metals, and various organic and inorganic contaminants) Therefore the first 5-10mm of rainfall should be adequately treated with SuDS.
- 5.4.3 The new SuDS Manual (Ciria C753, November 2015) introduces slightly different approach compared to the previous version for the water quality management of surface water. The Manual describes risks posed by the surface water runoff to the receiving environment as a function of:

- The pollution hazard at a particular site (i.e., the pollution source)
- The effectiveness of SuDS treatment components in reducing levels of pollutants to environmentally acceptable levels
- The sensitivity of the receiving environment

5.4.4 The EA website indicates that the site does not lie within a Source Protection Zone.

5.4.5 The recommended approaches for water quality risk management are given in the SuDS Manual Table 26.1.

Table 26.1 from SuDS manual. Approaches to Water Quality Risk Management

Table 26.1 Approaches to Water Quality Risk Management			
Design method	Hazard Characterisation	Risk Reduction	
		For Surface Water	For Groundwater
Simple Index Approach	Simple pollution hazard indices based on land use (Table 26.2)	Simple SuDS hazard mitigation indices (Table 26.3)	Simple SuDS hazard mitigation indices (Table 26.4)
Risk Screening	Factors characterising traffic density and extent of infiltration likely to occur (Table 26.5)	N/A	Factors characterising unsaturated soil depth and type, and predominant flow type through the soils (Table 26.5)
Detailed Risk Assessment	Site specific information used to define likely pollutants and their significance	More detailed, component specific performance information used to demonstrate that the proposed SuDS components reduce the hazard to acceptable levels	
Process-based treatment modelling	Time series rainfall used with generic pollution characteristics to determine statistical distributions of likely concentrations and loadings in the runoff	Models that represent the treatment processes in the proposed SuDS components give estimates of reductions in even mean discharge concentrations and total annual load reductions delivered by the system	

5.4.6 As per Table 26.1 Simple Index approach will be used as a design method for this site.

5.4.7 Table 26.2 will provide hazard classification of different land uses. The land uses for the surface water drainage for this site are.

- Residential Roofs
- Individual Property driveways and residential car parks

5.4.8 To deliver adequate treatment, the selected SuDS components should have a total pollution mitigation index for each contaminant type that equals or exceeds the pollution hazard index for each contaminant type. Therefore, the following must be achieved for the surface running off the site.

Total SuDS mitigation index \geq pollution hazard index

5.4.9 Pollution Hazard Indices are given for different land uses in Table 26.2 of the SuDS manual;

Table 26.2 from SuDS manual. Pollution Hazard Indices for Different Land Use Classifications

Table 26.2 Pollution hazard indices for different land use classifications				
Land Use	Pollution Hazard Level	Total Suspended solids (TSS)	Metals	Hydro-Carbons
Residential roofs	Very Low	0.2	0.2	0.05
Other roofs (Typically commercial/industrial roofs)	Low	0.3	0.2 (up to 0.8 where there is potential for metals to leach from the roof)	0.05
Individual property driveways, residential car parks, low traffic roads (e.g., cul-de-sacs, homezones and general access roads) and non-residential car parking with infrequent change (e.g., schools, offices) i.e., < 300 traffic movements/day	Low	0.5	0.4	0.4
Commercial yard and delivery areas, non-residential car parking with frequent change (e.g., hospitals, retail), all roads except low traffic roads and trunk roads/motorways	Medium	0.7	0.6	0.7
Sites with heavy pollution (e.g., haulage yards, lorry parks, highly frequented lorry approaches to industrial estates, waste sites), sites where chemicals and fuels (other than domestic fuel oil) are to be delivered, handled, stored, used or manufactured; industrial sites; trunk roads and motorways	High	0.8	0.8	0.9

5.4.10 From Table 26.2 the following information is tabulated in Table 1

Table 3: Pollution hazard index and destination of runoff for the proposed site

Table 3: Pollution Hazard Index and Destination of runoff for the proposed Site					
Land Use	Destination of Runoff	Pollution Hazard Level	Total Suspended Solids	Metals	Hydrocarbons
Residential Roof	Ground Water	Very Low	0.2	0.2	0.05
Individual driveways, residential car parks and low traffic roads	Ground water	Low	0.5	0.4	0.4

5.4.11 The SuDS mitigation index will be obtained from Table 26.4 (for groundwater) of the SuDS manual.

Table 26.4 from SuDS manual. Indicative SuDS Mitigation Indices for discharges to ground waters.

5.4.12 SuDS mitigation index are tabulated in Table 5 as followed.

Table 26.4 Indicative SuDS mitigation indices for discharges to groundwater			
Characteristics of the material overlying the proposed infiltration surface, through which the runoff percolates	TSS	Metals	Hydrocarbons
A layer of dense vegetation underlain by a soil with good containment attenuation potential of at least 300mm in depth	0.6	0.5	0.6
A soil with good contaminant attenuation potential of at least 300mm in depth	0.4	0.3	0.3
Infiltration trench (where a suitable depth of filtration material is included that provides treatment, i.e., graded gravel with sufficient smaller particles but not single size coarse aggregate such as 20mm gravel) underlain by a soil with good contaminant attenuation potential of at least 300mm in depth.	0.4	0.4	0.4
Constructed permeable pavement (where a suitable filtration later is included that provides treatment, and including a geotextile at the base separating the foundation from the subgrade) underlain by a soil with good contaminant attenuation potential of at least 300mm in depth	0.7	0.6	0.7
Bioretention underlain by a soil with good contaminant attenuation potential of at least 300mm in depth	0.8	0.8	0.8
Proprietary treatment systems	These must demonstrate that they can address each of the contaminant types to acceptable levels for inflow concentrations relevant to the contributing drainage area		

Table 4: SuDS mitigation index

Table 4 Mitigation Indices						
Runoff Source	Destination of Runoff	Mitigation Index Source	Type of SuDS Component	Total Suspended Solids (TSS)	Metals	Hydrocarbons
Car parks and low traffic roads	Ground water	Table 26.4	Permeable Paving	0.7	0.6	0.7

5.4.13 The above analysis demonstrates that the SuDS devices within the design will mitigate any pollution present within the surface water system.

5.5 Foul water drainage

5.5.1 The foul water will discharge into the local foul water sewer via a new direct connection. The proposed foul water connection is to be agreed under a S106 Southern Water application.

5.6 Construction Phase Drainage

- 5.6.1 It is an offence to cause or knowingly permit the entry of any polluting, poisonous or noxious material in the water environment. If the pollution is serious enough to lower the ecological status of the water body as set out in terms by the Water Framework Directive (2000/60/EC) than prosecution may occur.
- 5.6.2 Remediation of any damage caused will not require the polluter to be prosecuted first. If the water pollution is serious enough to be classed an environmental damage, the damage will require to be remediated such that the area is returned to the condition it would have been in if the damage had not occurred.
- 5.6.3 If any pollution has not been reported or the polluter has not taken actions to prevent any further damage; they would then be causing an offence. Third parties (e.g., Private water supply users, landowners, recreation users and the public) who may be affected by possible damage may also report the risk of any environmental damage to the enforcing authority.
- 5.6.4 The principles of SuDS (Sustainable Drainage Systems) shall be applied to all components of design and construction regarding surface water management. Any design or site works that may impact on the site drainage or the water quality shall:
- Soakaway where soils allow
 - Consider and manage erosion
 - Remove pollutants in surface water
 - Retain any silts on site and prevent silts from discharging to watercourses or drains
 - Keep runoff rates at existing greenfield runoff
 - Prevent accidental spillages reaching watercourse
- 5.6.5 As infiltration on site is viable, the temporary drainage for the development will be in the form of land drains which will discharge into the ground.
- 5.6.6 Pollution will be controlled via the use of catchpit manholes and geotextiles.
- 5.6.7 Any potential hazardous substances will be within a controlled compound with a separate drainage system that will contain a penstock valve / containment kit in the event of a spillage.

6 Summary and Conclusions

- 6.1.1 CGS Civils has been instructed to produce a Drainage statement under National Planning Policy Framework (NPPF) to support the Planning Application for a 2-bedroom dwelling.
- 6.1.2 The Surface water will be discharged into the ground via a deep borehole soakaway with upstream storage. The proposed surface water drainage system design is based on an assumed infiltration rate of 7.00×10^{-5} m/s. The infiltration system is designed to accommodate the critical 1 in 100-year storm event with an additional 45% allowance for climate change.
- 6.1.3 The Foul water will discharge into the existing public foul sewers.
- 6.1.4 The report has demonstrated that the proposed drainage measures ensure that suitable means of surface water and foul drainage can be achieved for the proposed development.
- 6.1.5 A maintenance schedule has been written up for the drainage network including the SuDS features and can be found within Appendix E.

7 Appendices

7.1 Appendix A – Site Plan

7.2 **Appendix B – BGS Borehole Logs**



**NGRC
BOREHOLE RECORDS
ADJUSTMENT FORM**

QUARTER SHEET

TQ 43 NW

BH REGISTRATION NUMBER

9-23

RECORDS ENTERED AND HELD BY WALLINGFORD

BH REGISTRATION NUMBER(S)

A: TQ 4165 3704
B: TQ 4168 3701

TQ43/22 A+B

303/122 Ivy Dene Laundry, Ashurstwood, East Grinstead

(a) (Disused) Surface ³⁵¹+375. Bore 4 1/2 in. Lining tubes: 88 x 4 1/2 in from surface.
Water struck at +285 1/2. R.W.L. +326. Suction +289. Yield 900 g.p.h. (8 h. test).
Dando, Dec. 1942. ²⁶¹1/2 302 265
Hardness: P. 65, T. 25. Anal. June 1944. Hardness: P. 69, T. 26. Anal. Nov. 1945. R.W.L. +326. Yield 1,000 g.p.h., c.15 h.p.d. Ferruginous. Aug. 1946.
Hardness: P. 40, T. 60. Anal. June 1949.
(b) Surface ³⁷⁵+350 Shaft 30 x 4; rest bore. Depth 100. Lining tubes: 100 x 10 in from surface (perforated 70 to 100); 40 x 4 1/2 in from 60 down, sand screen 72 to 90.
R.W.L. +343 3/8 Suction +288 1/2 Yield 976 g.p.h. Dando, Nov. 1952.
Yield 1,000 g.p.h., 12 h.p.d. Nov. 1957.

(a) LTW	62	62
WdC	46	108

(a) LTBW Sand 62'	Clay & Loose Rock	7	0	7	0
	Yellow Clay	20	0	27	0
	Sand	26	0	55	0
	Sandstone	9	0	62	0
	Sand	18	0	80	0
	Clay	1	0	81	0
Wadhurst Clay 46'	Sandstone	8	0	89	0
	Clay	6	0	89	6
	Sandstone	12	6	102	0
	Clay	6	0	108	0

(b)	Dug Well	30	30
	Sand	23	53
LTW)	Sandstone	7	60
? WdC)	Sand	20	80
100'	Sandstone	20	100

PP
H.J. Richards
3/7/62



RECORD OF WELL (SHAFT OR BORE)

303

BY DENE LAUNDRY
Town or Village ASHURSTWOOD County SUSSEX Six-inch quarter sheet TQ43/22A
Exact site 100 yds N.E. of the Rocks (A rough sketch-map or a tracing from a map is very desirable)
in parish of East Grinstead
Level of ground surface above sea-level (O.D. 375 ft. If well starts below ground surface, state how far 0 ft.
Shaft — ft., diameter — ft. Bore 47 1/2 ft. Diameter of bore: at top 4 1/2 ins.; at bottom 4 1/2 ins.
Details of permanent lining tubes (internal diameters preferred) 4 1/2 I.D. surface to 60' 0"

Water struck at depths of (feet) from 89' 6"
Rest-level of water below top of well 4.9 feet. Suction at 86 feet. Yield on 8 hours' test 900 gallons per hour (with pump of capacity 900 g.p.h.); depressing water level to ? feet below top. Time of recovery — hrs. Amount normally pumped daily — g.p.h. for — hours.

Quality (attach copy of analysis if available)
Sunk by Duke & Ockenden Ltd for Mr. P.D. Mitchell Ltd Date of well Dec 1942
Information from **DUKE & OCKENDEN LTD., WESTMINSTER & LITTLEHAMPTON**

GEOLOGICAL CLASSIFICATION.	NATURE OF STRATA (and any additional remarks).	THICKNESS		DEPTH	
		Feet.	Inches.	Feet.	Inches.
L.T.W. Sand	Clay & Loose Rock	7	0	7	0
	Yellow Clay	20	0	27	0
	Sand	26	0	53	0
	Sandstone	9	0	62	0
	Sand	10	0	80	0
	Clay	1	0	81	0
? Washnet Clay	Sandstone	0	0	89	0
	Clay		6	89	6
	Sandstone	12	6	102	0
	Clay	6	0	100	0

This record is unsatisfactory in its description of strata from evidence of samples from Aug 46 (1226) the Washnet Clay was encountered at about 60 ft down in this hole, say at 62 ft. The 'sandstone' below that depth may have been fine silts.

L.T.W. 62'
N.O.C. 46'
9/7/62
By Dene Laundry
Yield 1000 g.p.h. 14-15 hours a day 500 yds a week
R.W. 47' below surface Aug 1946
Water level high was constant - flow into water free
O.D. ± 375
Visited 1 site on Sussex 5 SW-E
C-20 28.11.47
Disused. Visited 14.11.57. BH.

For Survey use only

Date received 19.11.1943	G.S.M. Office File No.	Site marked on 1" map (use symbol)
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**NGRC
BOREHOLE RECORDS
ADJUSTMENT FORM**

QUARTER SHEET TQ 43 NW

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Water struck at ²⁸⁵+285. R.W.L. ³²⁶+326. Suction ²⁸⁹+289. Yield 900 g.p.h. (8 h. test).
Dando, Dec. 1942. ^{261 1/2} 261 1/2 ³⁰² 302 ²⁶⁵ 265
Hardness: P. 65, T. 25. Anal. June 1944. Hardness: P. 69, T. 26. Anal. Nov. 1945. R.W.L. ³²⁶+326. Yield 1,000 g.p.h., c.15 h.p.d. Ferruginous. Aug. 1946.
Hardness: P. 40, T. 60. Anal. June 1949.
(b) Surface ³⁷⁵+375 Shaft 30 x 4; rest bore. Depth 100. Lining tubes: 100 x 10 in from surface (perforated 70 to 100); 40 x 4 1/2 in from 60 down, sand screen 72 to 90.
R.W.L. ³⁴³+343 Suction ²⁸⁸+288 Yield 976 g.p.h. Dando, Nov. 1952.
Yield 1,000 g.p.h., 12 h.p.d. Nov. 1957.

(a) LTW	62	62
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(a) LTBW Sand 62'	Clay & Loose Rock	7	0	7	0
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	Sandstone	9	0	62	0
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Wadhurst Clay 46'	Sandstone	8	0	89	0
	Clay	6	0	89	6
	Sandstone	12	6	102	0
	Clay	6	0	108	0

(b)	Dug Well	30	30
	Sand	23	53
LTW)	Sandstone	7	60
? WdC)	Sand	20	80
100'	Sandstone	20	100

PP
H.J. Richards
3/7/62



1063 Wt. 22438/0384 10m 7/45 (51) F.&S. **TQ 4168 3701**
RECORD OF WELL (SHAFT OR BORE)

(For Survey use only) **N2374**
1-inch Map Registered No.

TQ43/22B
303/122
B

At NYDEDE LAUNDRY N. 2374
Town or Village ASHURSTONWOOD
County SUSSEX Six-inch quarter sheet V.3.W.
For Mr. MITCHELL

Exact site of well 100 yds N.E. of "The Rocks" { Attach a tracing from a map, or a sketch map, if possible.

Level of ground surface above sea-level (O.D.) 375 ft. If well-top is not at ground level, state how far ... (above; below; ft.)

SHAFT 30 ft.; diameter 4 ft. Details of headings

BORE to 100 ft.; diameter of bore: at top 10 ins.; at bottom 4 1/2 ins. Lengths, diameters, perforations, etc., of lining tubes 10" I.D. to 100' 0" Stoppings from 70' to 100'
Internal liner 4 1/2" I.D. from 60' to 100' with sand screen from 72' to 90'

Water struck at depths below well top, of (feet)
Rest-level of water 32 ft. above well-top. Suction at 86 3/4 ft. Yield on 976 gal. per hour with depression to ? ft. below well-top. Capacity of pump 976 g.p.h. Recovery to rest level in ? mins. Date of measurements Nov. 1952 Date of well Nov 1952

Quality of water (attach copy of analysis if available)
Well made by DUKE & OCKENDEN LTD
Information from DUKE & OCKENDEN, LTD LONDON AND LITTLEHAMPTON

Additional notes in space overleaf.

(For Survey use only) GEOLOGICAL CLASSIFICATION	NATURE OF STRATA	THICKNESS		DEPTH	
		Feet	Ins.	Feet	Ins.
	DIG WELL If measurements start below ground surface, e.g., from bottom of an existing shaft, state how far	30	0	30	0
	Sand	23	0	53	0
	Sandstone	7	0	60	0
	Sand	20	0	80	0
	Sandstone	20	0	100	0
	then Clay				
	Yield 1000 g.p.h., 12 h.p.d., 5 d.p.w. Quality satisfactory. Sited on Survey 5 SW/E. by O. O.D. + 375. Visited 14.11.57.				
	Sited by A on 6" sheet Sussex 5 SW				
	9-7-54.				
	EHBC				

GEOLOGICAL SURVEY AND MUSEUM, SOUTH KENSINGTON, LONDON, S.W 7	Date received	Correspondence File No.	1" N.S. Map No.	1" O.S. Map No.	Site marked (use symbol on 1" Map on 6" Map)
	17.6.54.				Δ

7.3 **Appendix C – CCTV Survey**

Project

Project Name: 2 Reservoir Place
Project Description: CCTV survey, trace and plot
Project Status: Complete
Project Date: 14/02/2025
Inspection Standard: MSCC5 Sewers & Drainage GB (SRM5 Scoring)



EYES ON DRAINAGE

CCTV-Trace-Plot-Map-Repair

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2 Reservoir Place		14/02/2025

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Section Item 2: GY1 > MH9 (GY1X)	3
Section Item 3: MH9 > MH8 (MH9X)	5
Section Item 4: GY > MH8 (GYX)	7
Section Item 5: MH8 > MH7 (MH8X)	9
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Project Information**Project Name**
2 Reservoir Place**Project Number****Project Date**
14/02/2025**Client**

Company: CGS Civils
Department: Richard Cobden House
Street: Lion Street
Town or City: Chichester
County: West Sussex
Post Code: PO19 1LW
Phone: 01243 933253

**Site**

Department: 2 Reservoir PI
Street: Lewes Rd
Town or City: East Grinstead
County: West Sussex
Post Code: RH19 3TB

Contractor

Company: Eyes On Drainage Services Ltd
Contact: Jay Young
Department: Merrion House
Street: Bines Green
Town or City: Horsham
County: West Sussex
Post Code: RH13 8EH
Phone: 01403 710971
Mobile: 077111 84951
Email: info@eyesondrainage.co.uk



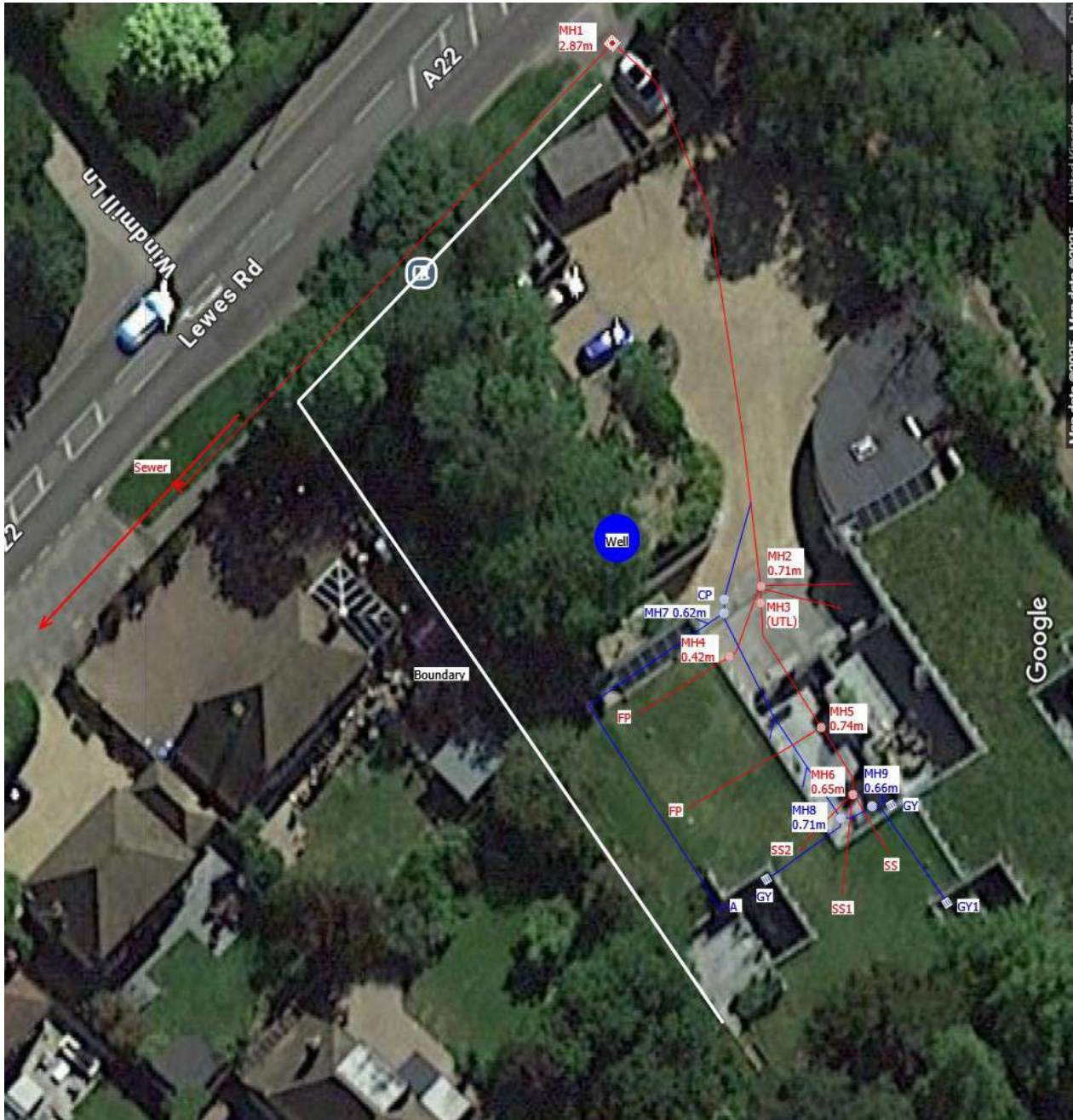
Project Information

Project Name
2 Reservoir Place

Project Number

Project Date
14/02/2025

Project Drawing, Page '2 Reservoir Place'



Scoring Summary

Project Name
2 Reservoir Place

Project Number

Project Date
14/02/2025

Structural Defects

Section	PLR	Grade	Description
All inspected pipes are in an acceptable structural condition (< grade 3).			

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	GYX	3	Settled deposits, fine, 50% cross-sectional area loss, finish
2	GY1X	3	Settled deposits, fine, 5% cross-sectional area loss, finish
5	MH8X	3	Multiple defects
10	SS1X	4	Attached deposits, fouling from 5 o'clock to 7 o'clock, 25% cross-sectional area loss
13	FPX	3	Attached deposits, fouling from 5 o'clock to 7 o'clock, 5% cross-sectional area loss, finish
16	FPX	3	Settled deposits, other, 5% cross-sectional area loss, finish
18	MH2X	3	Attached deposits, fouling from 3 o'clock to 9 o'clock, 20% cross-sectional area loss, finish
21	MH1X	3	Joint displaced, medium

Abandoned Surveys

Section	PLR	Description
6	AX	Survey abandoned

Information

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

Project Pictures

Project Name
2 Reservoir Place

Project Number

Project Date
14/02/2025



Front Entrance



MH1



MH2



MH3 (UTL)



MH4



MH5

Project Pictures

Project Name
2 Reservoir Place

Project Number

Project Date
14/02/2025



MH6



MH7



MH8



MH9



Unknown chamber (UTL)



Well

Section Profile

Project Name
2 Reservoir Place

Project Number

Project Date
14/02/2025

Circular, 0 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
20	Well	Well	11/02/2025	Lewes Road	Brick	29.50 m	29.50 m

Total: 1 Inspection x Circular 0 mm, 0 mm = 29.50 m Total Length and 29.50 m Inspected Length

Circular, 100 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
1	GY	MH9	11/02/2025	Lewes Road	Polyvinyl chloride	0.80 m	0.80 m
2	GY1	MH9	11/02/2025	Lewes Road	Polyvinyl chloride	9.90 m	9.90 m
3	MH9	MH8	11/02/2025	Lewes Road	Polyvinyl chloride	2.60 m	2.60 m
4	GY	MH8	11/02/2025	Lewes Road	Polyvinyl chloride	9.40 m	9.40 m
5	MH8	MH7	11/02/2025	Lewes Road	Polyvinyl chloride	17.30 m	17.30 m
7	MH7	CP	11/02/2025	Lewes Road	Polyvinyl chloride	0.80 m	0.80 m
8	CP	JN	11/02/2025	Lewes Road	Polyvinyl chloride	11.40 m	11.40 m
9	SS	MH6	11/02/2025	Lewes Road	Polyvinyl chloride	7.60 m	7.60 m
10	SS1	MH6	11/02/2025	Lewes Road	Polyvinyl chloride	121.70 m	121.70 m
11	SS2	MH6	11/02/2025	Lewes Road	Polyvinyl chloride	7.10 m	7.10 m
12	MH6	MH5	11/02/2025	Lewes Road	Polyvinyl chloride	6.20 m	6.20 m
13	FP	MH5	11/02/2025	Lewes Road	Polyvinyl chloride	11.10 m	10.60 m
14	MH5	MH3	11/02/2025	Lewes Road	Polyvinyl chloride	9.90 m	9.80 m
15	MH3	MH2	11/02/2025	Lewes Road	Polyvinyl chloride	0.50 m	0.50 m
16	FP	MH4	11/02/2025	Lewes Road	Polyvinyl chloride	6.90 m	6.90 m
17	MH4	MH2	11/02/2025	Lewes Road	Polyvinyl chloride	7.60 m	7.60 m
18	MH2	MH1	11/02/2025	Lewes Road	Polyvinyl chloride	40.90 m	40.90 m
19	FP	FP	11/02/2025	Lewes Road	Polyvinyl chloride	0.00 m	0.00 m
21	MH1	Sewer	11/02/2025	Lewes Road	Polyvinyl chloride	37.90 m	37.90 m

Total: 19 Inspections x Circular 100 mm, 0 mm = 309.60 m Total Length and 309.00 m Inspected Length

Total: 20 Inspections = 339.10 m Total Length and 338.50 m Inspected Length

Section Summary

Project Name 2 Reservoir Place	Project Number	Project Date 14/02/2025
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Number of sections	21
Total length of sections	379.70 m
Total length of inspected sections	379.10 m
Total length of not inspected sections	0.00 m
Number of abandoned inspections	1
Number of section inspection photos	107
Number of section inspection videos	21
Number of section inspection scans	0
Number of section inclination measurements	0

PLR:	GYX	Upstream Node:	GY
Inspection Direction:	Upstream	Downstream Node:	MH9
Inspected Length:	0.80 m	Dia/Height:	100 mm
Total Length:	0.80 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH9
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.00	DES	Settled deposits, fine, 10% cross-sectional area loss, start
4	0.20	JN	Junction at 9 o'clock, 100mm dia
5	0.30	DES	Settled deposits, fine, 50% cross-sectional area loss, change
6	0.50	LR	Line deviates right
7	0.60	CUD	Loss of vision, silt, start
8	0.80	CUD	Loss of vision, silt, finish
9	0.80	DES	Settled deposits, fine, 50% cross-sectional area loss, finish
10	0.80	GYF	Finish node, gully, reference: GY, Camera visible under grill

PLR:	GY1X	Upstream Node:	GY1
Inspection Direction:	Upstream	Downstream Node:	MH9
Inspected Length:	9.90 m	Dia/Height:	100 mm
Total Length:	9.90 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH9
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.10	DES	Settled deposits, fine, 10% cross-sectional area loss, start
4	0.10	LR	Line deviates right
5	2.00	DES	Settled deposits, fine, 5% cross-sectional area loss, change
6	9.00	DES	Settled deposits, fine, 5% cross-sectional area loss, finish

Section Summary

Project Name 2 Reservoir Place	Project Number	Project Date 14/02/2025
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No.	m+	Code	Observation
7	9.50	LU	Line deviates up
8	9.90	GYF	Finish node, gully, reference: GY1

PLR: MH9X	Upstream Node: MH9
Inspection Direction: Downstream	Downstream Node: MH8
Inspected Length: 2.60 m	Dia/Height: 100 mm
Total Length: 2.60 m	Material: Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH9
2	0.00	WL	Water level, 0% of the vertical dimension
3	2.40	LR	Line deviates right
4	2.60	MHF	Finish node, manhole, reference: MH8

PLR: GYX	Upstream Node: GY
Inspection Direction: Upstream	Downstream Node: MH8
Inspected Length: 9.40 m	Dia/Height: 100 mm
Total Length: 9.40 m	Material: Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH8
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.10	LR	Line deviates right
4	9.00	LU	Line deviates up
5	9.40	GYF	Finish node, gully, reference: GY

PLR: MH8X	Upstream Node: MH8
Inspection Direction: Downstream	Downstream Node: MH7
Inspected Length: 17.30 m	Dia/Height: 100 mm
Total Length: 17.30 m	Material: Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH8
2	0.00	WL	Water level, 0% of the vertical dimension
3	2.80	DER	Settled deposits, coarse, 10% cross-sectional area loss
4	3.40	JN	Junction at 9 o'clock, 100mm dia
5	9.70	LR	Line deviates right
6	9.70	DES	Settled deposits, fine, 5% cross-sectional area loss
7	9.90	JN	Junction at 9 o'clock, 100mm dia
8	16.90	LR	Line deviates right
9	17.30	MHF	Finish node, manhole, reference: MH7

PLR: AX	Upstream Node: A
Inspection Direction: Upstream	Downstream Node: MH7
Inspected Length: 40.60 m	Dia/Height: 100 mm
Total Length: 40.60 m	Material: Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH7
2	0.00	WL	Water level, 5% of the vertical dimension

Section Summary

Project Name 2 Reservoir Place	Project Number	Project Date 14/02/2025
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No.	m+	Code	Observation
3	1.80	JN	Junction at 3 o'clock, 100mm dia
4	3.00	REM	General remark, Changes to land drain
5	3.00	WL	Water level, 0% of the vertical dimension
6	11.60	LL	Line deviates left
7	13.00	WL	Water level, 5% of the vertical dimension
8	14.80	WL	Water level, 10% of the vertical dimension
9	17.30	WL	Water level, 0% of the vertical dimension
10	19.40	WL	Water level, 5% of the vertical dimension
11	26.80	WL	Water level, 10% of the vertical dimension
12	34.10	WL	Water level, 5% of the vertical dimension
13	38.30	WL	Water level, 10% of the vertical dimension
14	40.00	LL	Line deviates left
15	40.60	SA	Survey abandoned, Unable to continue

PLR: MH7X	Upstream Node: MH7
Inspection Direction: Downstream	Downstream Node: CP
Inspected Length: 0.80 m	Dia/Height: 100 mm
Total Length: 0.80 m	Material: Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH7
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.80	CPF	Finish node, catchpit, reference: CP

PLR: CPX	Upstream Node: CP
Inspection Direction: Downstream	Downstream Node: JN
Inspected Length: 11.40 m	Dia/Height: 100 mm
Total Length: 11.40 m	Material: Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	CP	Start node, catchpit, reference: CP
2	0.00	WL	Water level, 5% of the vertical dimension, Live
3	6.70	JN	Junction at 3 o'clock, 100mm dia
4	7.50	LR	Line deviates right
5	11.40	BRF	Finish node, major connection without manhole, reference: JN

PLR: SSX	Upstream Node: SS
Inspection Direction: Upstream	Downstream Node: MH6
Inspected Length: 7.60 m	Dia/Height: 100 mm
Total Length: 7.60 m	Material: Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH6
2	0.00	WL	Water level, 0% of the vertical dimension
3	7.10	LU	Line deviates up
4	7.60	MHF	Finish node, manhole, reference: SS

Section Summary

Project Name 2 Reservoir Place	Project Number	Project Date 14/02/2025
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PLR: SS1X	Upstream Node: SS1
Inspection Direction: Upstream	Downstream Node: MH6
Inspected Length: 121.70 m	Dia/Height: 100 mm
Total Length: 121.70 m	Material: Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH6
2	0.00	WL	Water level, 0% of the vertical dimension
3	1.60	DEF	Attached deposits, fouling from 5 o'clock to 7 o'clock, 25% cross-sectional area loss
4	2.50	LL	Line deviates left
5	2.60	WL	Water level, 5% of the vertical dimension
6	12.30	LU	Line deviates up
7	121.70	MHF	Finish node, manhole, reference: SS1

PLR: SS2X	Upstream Node: SS2
Inspection Direction: Upstream	Downstream Node: MH6
Inspected Length: 7.10 m	Dia/Height: 100 mm
Total Length: 7.10 m	Material: Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH6
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.00	LL	Line deviates left
4	2.60	LL	Line deviates left
5	6.90	LU	Line deviates up
6	7.10	MHF	Finish node, manhole, reference: SS2

PLR: MH6X	Upstream Node: MH6
Inspection Direction: Downstream	Downstream Node: MH5
Inspected Length: 6.20 m	Dia/Height: 100 mm
Total Length: 6.20 m	Material: Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH6
2	0.00	WL	Water level, 5% of the vertical dimension, Live
3	0.10	LL	Line deviates left
4	6.20	MHF	Finish node, manhole, reference: MH5

PLR: FPX	Upstream Node: FP
Inspection Direction: Upstream	Downstream Node: MH5
Inspected Length: 10.60 m	Dia/Height: 100 mm
Total Length: 11.10 m	Material: Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH5
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.10	LR	Line deviates right
4	0.80	DEF	Attached deposits, fouling from 5 o'clock to 7 o'clock, 5% cross-sectional area loss, start, Scale
5	4.30	DEF	Attached deposits, fouling from 5 o'clock to 7 o'clock, 10% cross-sectional area loss, change, Scale
6	4.70	WL	Water level, 5% of the vertical dimension

Section Summary

Project Name 2 Reservoir Place	Project Number	Project Date 14/02/2025
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No.	m+	Code	Observation
7	6.60	DEF	Attached deposits, fouling from 5 o'clock to 7 o'clock, 5% cross-sectional area loss, change
8	10.10	DEF	Attached deposits, fouling from 5 o'clock to 7 o'clock, 5% cross-sectional area loss, finish
9	10.30	LU	Line deviates up
10	10.60	MHF	Finish node, manhole, reference: FP

PLR: MH5X	Upstream Node: MH5
Inspection Direction: Downstream	Downstream Node: MH3
Inspected Length: 9.80 m	Dia/Height: 100 mm
Total Length: 9.90 m	Material: Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH5
2	0.00	WL	Water level, 5% of the vertical dimension
3	8.40	JN	Junction at 9 o'clock, 100mm dia
4	9.80	MHF	Finish node, manhole, reference: MH3

PLR: MH3X	Upstream Node: MH3
Inspection Direction: Downstream	Downstream Node: MH2
Inspected Length: 0.50 m	Dia/Height: 100 mm
Total Length: 0.50 m	Material: Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH3
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.40	LR	Line deviates right
4	0.50	MHF	Finish node, manhole, reference: MH2

PLR: FPX	Upstream Node: FP
Inspection Direction: Upstream	Downstream Node: MH4
Inspected Length: 6.90 m	Dia/Height: 100 mm
Total Length: 6.90 m	Material: Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH4
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.10	LR	Line deviates right
4	0.30	DEX	Settled deposits, other, 5% cross-sectional area loss, start
5	1.70	DEX	Settled deposits, other, 5% cross-sectional area loss, finish
6	1.70	WL	Water level, 5% of the vertical dimension
7	6.60	LU	Line deviates up
8	6.90	MHF	Finish node, manhole, reference: FP

PLR: MH4X	Upstream Node: MH4
Inspection Direction: Downstream	Downstream Node: MH2
Inspected Length: 7.60 m	Dia/Height: 100 mm
Total Length: 7.60 m	Material: Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH4
2	0.00	WL	Water level, 0% of the vertical dimension

Section Summary

Project Name 2 Reservoir Place	Project Number	Project Date 14/02/2025
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No.	m+	Code	Observation
3	7.40	LR	Line deviates right
4	7.60	MHF	Finish node, manhole, reference: MH2

PLR:	MH2X	Upstream Node:	MH2
Inspection Direction:	Downstream	Downstream Node:	MH1
Inspected Length:	40.90 m	Dia/Height:	100 mm
Total Length:	40.90 m	Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH2
2	0.00	WL	Water level, 0% of the vertical dimension
3	8.60	WL	Water level, 10% of the vertical dimension
4	8.70	WL	Water level, 20% of the vertical dimension
5	8.80	JN	Junction at 9 o'clock, 100mm dia
6	9.40	WL	Water level, 10% of the vertical dimension
7	10.00	WL	Water level, 5% of the vertical dimension, Live
8	34.80	WL	Water level, 10% of the vertical dimension
9	35.20	WL	Water level, 25% of the vertical dimension
10	35.20	DEF	Attached deposits, fouling from 3 o'clock to 9 o'clock, 20% cross-sectional area loss, start
11	35.30	CUW	Loss of vision, camera under water, start
12	37.40	WL	Water level, 25% of the vertical dimension
13	37.40	CUW	Loss of vision, camera under water, finish
14	37.40	DEF	Attached deposits, fouling from 3 o'clock to 9 o'clock, 20% cross-sectional area loss, finish
15	37.60	WL	Water level, 10% of the vertical dimension
16	37.90	WL	Water level, 5% of the vertical dimension
17	39.00	WL	Water level, 10% of the vertical dimension
18	39.10	WL	Water level, 20% of the vertical dimension
19	39.30	WL	Water level, 30% of the vertical dimension
20	39.40	CUW	Loss of vision, camera under water, start
21	39.80	CUW	Loss of vision, camera under water, finish
22	40.90	MHF	Finish node, manhole, reference: MH1, Small blockage within MH1

PLR:	FPX	Upstream Node:	FP
Inspection Direction:	Downstream	Downstream Node:	FP
Inspected Length:	0.00 m	Dia/Height:	100 mm
Total Length:		Material:	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH1
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.00	MHF	Finish node, manhole, reference: FP

PLR:	WellX	Upstream Node:	Well
Inspection Direction:	Downstream	Downstream Node:	Well
Inspected Length:	29.50 m	Dia/Height:	
Total Length:	29.50 m	Material:	Brick

Section Summary

Project Name 2 Reservoir Place	Project Number	Project Date 14/02/2025
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No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: Well
2	0.00	WL	Water level, 0% of the vertical dimension, Recording down the well
3	27.40	WL	Water level, 0% of the vertical dimension, Start of water level
4	29.50	MHF	Finish node, manhole, reference: Well, Base of well

PLR:	MH1X	Upstream Node:	MH1
Inspection Direction:	Downstream	Downstream Node:	Sewer
Inspected Length:	37.90 m	Dia/Height:	100 mm
Total Length:	37.90 m	Material:	Polyvinyl chloride

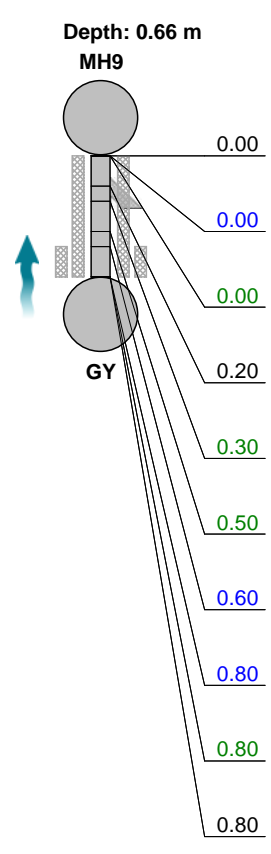
No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH1, Screen says Sec18
2	0.00	WL	Water level, 5% of the vertical dimension, Live
3	37.00	JDM	Joint displaced, medium
4	37.40	MCVC	Pipe material changes to vitrified clay at this point
5	37.50	LR	Line deviates right
6	37.50	LD	Line deviates down
7	37.90	BRF	Finish node, major connection without manhole, reference: Sewer

Section Inspection - 11/02/2025 - GYX

Item No. 1	Insp. No. 1	Date 11/02/25	Time 12:48	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR GYX
Operator TN		Vehicle EY13S ON		Camera P542	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	East Grinstead	Inspection Direction:	Upstream	Upstream Node:	GY
Road:	Lewes Road	Inspected Length:	0.80 m	Upstream Pipe Depth:	
Location:	Other location	Total Length:	0.80 m	Downstream Node:	MH9
Surface Type:	Various	Joint Length:		Downstream Pipe Depth:	0.660 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade																																																																						
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>Depth: 0.66 m</p>  <p>Depth: m</p> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">0.00</td> <td style="text-align: center;">MH</td> <td style="text-align: center;">MH</td> <td>Start node, manhole, reference: MH9</td> <td style="text-align: center;">00:00:00</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">0.00</td> <td style="text-align: center;">WL</td> <td style="text-align: center;">WL</td> <td>Water level, 0% of the vertical dimension</td> <td style="text-align: center;">00:00:03</td> <td style="text-align: center;">1</td> <td></td> </tr> <tr> <td style="text-align: center;">0.00</td> <td style="text-align: center;">S01</td> <td style="text-align: center;">DES</td> <td>Settled deposits, fine, 10% cross-sectional area loss, start</td> <td style="text-align: center;">00:00:03</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">0.20</td> <td style="text-align: center;">JN</td> <td style="text-align: center;">JN</td> <td>Junction at 9 o'clock, 100mm dia</td> <td style="text-align: center;">00:00:04</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">0.30</td> <td style="text-align: center;">C01</td> <td style="text-align: center;">DES</td> <td>Settled deposits, fine, 50% cross-sectional area loss, change</td> <td style="text-align: center;">00:00:06</td> <td style="text-align: center;">2</td> <td></td> </tr> <tr> <td style="text-align: center;">0.50</td> <td style="text-align: center;">LR</td> <td style="text-align: center;">LR</td> <td>Line deviates right</td> <td style="text-align: center;">00:00:17</td> <td style="text-align: center;">3</td> <td></td> </tr> <tr> <td style="text-align: center;">0.60</td> <td style="text-align: center;">S02</td> <td style="text-align: center;">CUD</td> <td>Loss of vision, silt, start</td> <td style="text-align: center;">00:00:20</td> <td style="text-align: center;">4</td> <td></td> </tr> <tr> <td style="text-align: center;">0.80</td> <td style="text-align: center;">F02</td> <td style="text-align: center;">CUD</td> <td>Loss of vision, silt, finish</td> <td style="text-align: center;">00:00:41</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">0.80</td> <td style="text-align: center;">F01</td> <td style="text-align: center;">DES</td> <td>Settled deposits, fine, 50% cross-sectional area loss, finish</td> <td style="text-align: center;">00:00:41</td> <td></td> <td style="text-align: center;">3</td> </tr> <tr> <td style="text-align: center;">0.80</td> <td style="text-align: center;">GYF</td> <td style="text-align: center;">GYF</td> <td>Finish node, gully, reference: GY: Camera visible under grill</td> <td style="text-align: center;">00:00:41</td> <td style="text-align: center;">5</td> <td></td> </tr> </table> </div>								0.00	MH	MH	Start node, manhole, reference: MH9	00:00:00			0.00	WL	WL	Water level, 0% of the vertical dimension	00:00:03	1		0.00	S01	DES	Settled deposits, fine, 10% cross-sectional area loss, start	00:00:03			0.20	JN	JN	Junction at 9 o'clock, 100mm dia	00:00:04			0.30	C01	DES	Settled deposits, fine, 50% cross-sectional area loss, change	00:00:06	2		0.50	LR	LR	Line deviates right	00:00:17	3		0.60	S02	CUD	Loss of vision, silt, start	00:00:20	4		0.80	F02	CUD	Loss of vision, silt, finish	00:00:41			0.80	F01	DES	Settled deposits, fine, 50% cross-sectional area loss, finish	00:00:41		3	0.80	GYF	GYF	Finish node, gully, reference: GY: Camera visible under grill	00:00:41	5	
0.00	MH	MH	Start node, manhole, reference: MH9	00:00:00																																																																									
0.00	WL	WL	Water level, 0% of the vertical dimension	00:00:03	1																																																																								
0.00	S01	DES	Settled deposits, fine, 10% cross-sectional area loss, start	00:00:03																																																																									
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0.30	C01	DES	Settled deposits, fine, 50% cross-sectional area loss, change	00:00:06	2																																																																								
0.50	LR	LR	Line deviates right	00:00:17	3																																																																								
0.60	S02	CUD	Loss of vision, silt, start	00:00:20	4																																																																								
0.80	F02	CUD	Loss of vision, silt, finish	00:00:41																																																																									
0.80	F01	DES	Settled deposits, fine, 50% cross-sectional area loss, finish	00:00:41		3																																																																							
0.80	GYF	GYF	Finish node, gully, reference: GY: Camera visible under grill	00:00:41	5																																																																								

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	1	2.0	2.5	2.0	4.0

Section Pictures - 11/02/2025 - GYX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Upstream	GYX		



1, 00:00:03, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:06, 0.30 m
Settled deposits, fine, 50% cross-sectional area loss, change



3, 00:00:17, 0.50 m
Line deviates right



4, 00:00:20, 0.60 m
Loss of vision, silt, start



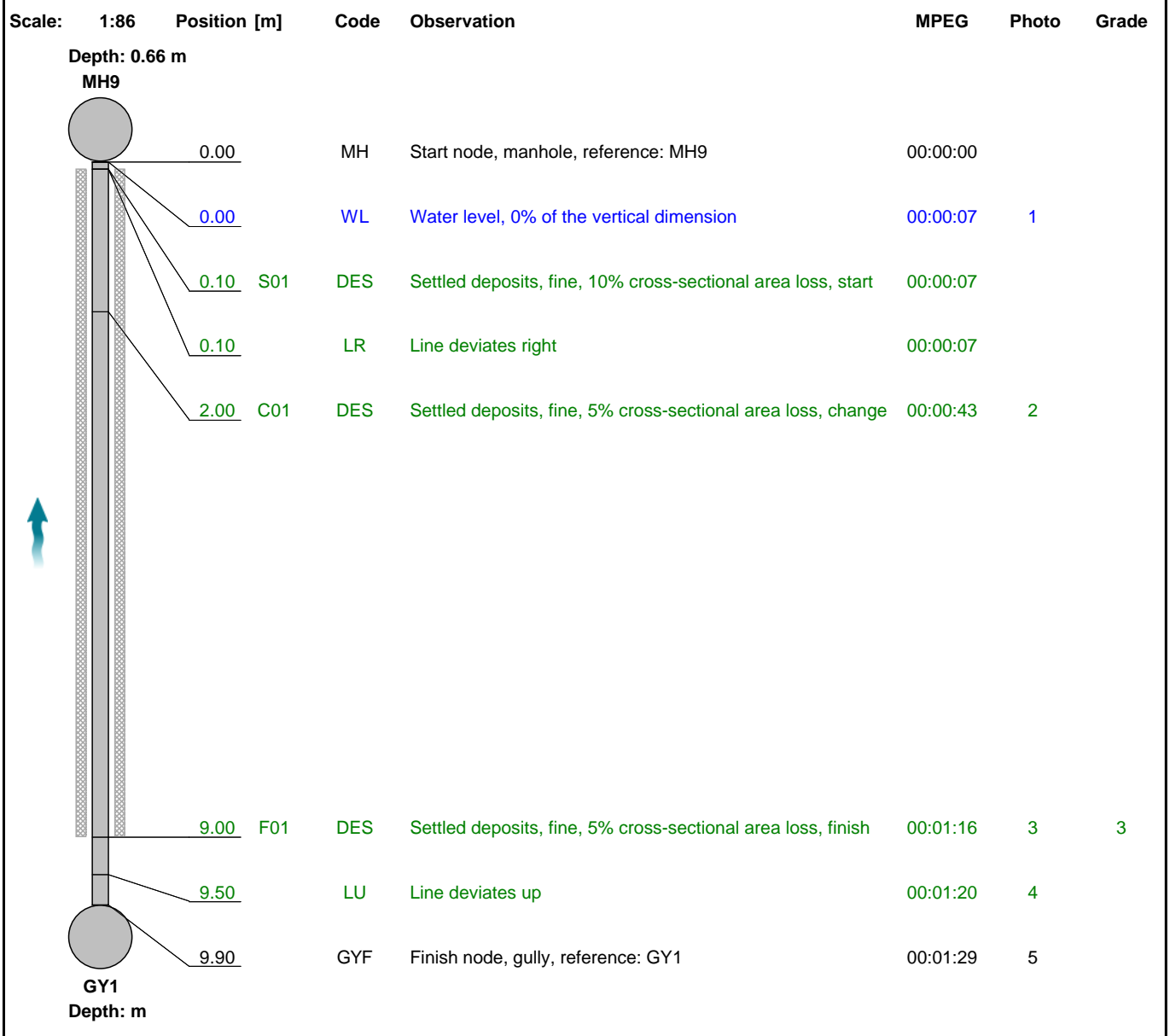
5, 00:00:41, 0.80 m
Finish node, gully, reference: GY, Camera visible under grill

Section Inspection - 11/02/2025 - GY1X

Item No. 2	Insp. No. 1	Date 11/02/25	Time 12:52	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR GY1X
Operator TN		Vehicle EY13S ON		Camera P542	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	East Grinstead	Inspection Direction:	Upstream	Upstream Node:	GY1
Road:	Lewes Road	Inspected Length:	9.90 m	Upstream Pipe Depth:	
Location:	Other location	Total Length:	9.90 m	Downstream Node:	MH9
Surface Type:	Various	Joint Length:		Downstream Pipe Depth:	0.660 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

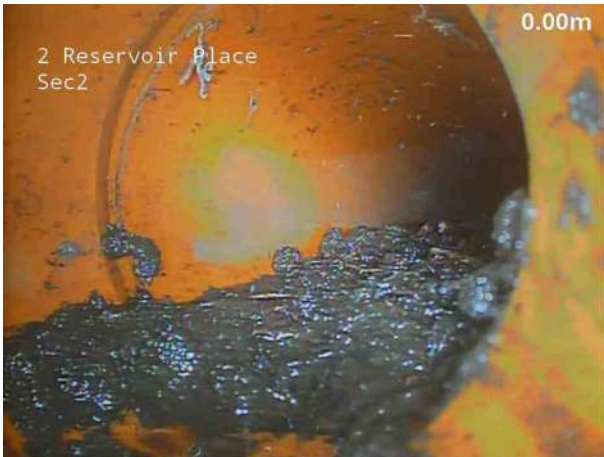
Comments:
Recommendations:



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	1	2.0	1.8	18.0	3.0

Section Pictures - 11/02/2025 - GY1X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
2	Upstream	GY1X		



1, 00:00:07, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:43, 2.00 m
Settled deposits, fine, 5% cross-sectional area loss, change



3, 00:01:16, 9.00 m
Settled deposits, fine, 5% cross-sectional area loss, finish



4, 00:01:20, 9.50 m
Line deviates up



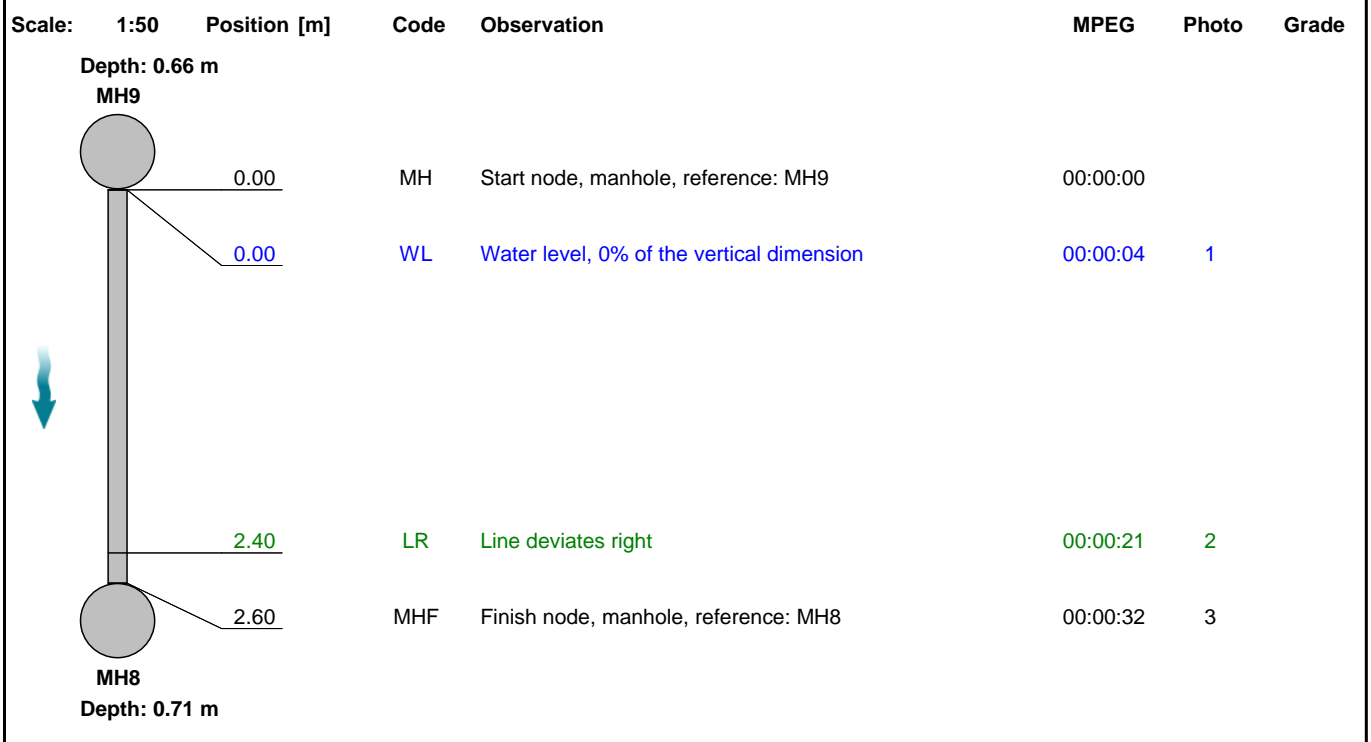
5, 00:01:29, 9.90 m
Finish node, gully, reference: GY1

Section Inspection - 11/02/2025 - MH9X

Item No. 3	Insp. No. 1	Date 11/02/25	Time 12:54	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR MH9X
Operator TN		Vehicle EY13S ON		Camera P542	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	East Grinstead	Inspection Direction:	Downstream	Upstream Node:	MH9
Road:	Lewes Road	Inspected Length:	2.60 m	Upstream Pipe Depth:	0.660 m
Location:	Other location	Total Length:	2.60 m	Downstream Node:	MH8
Surface Type:	Various	Joint Length:		Downstream Pipe Depth:	0.710 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:



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

Section Pictures - 11/02/2025 - MH9X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
3	Downstream	MH9X		



1, 00:00:04, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:21, 2.40 m
Line deviates right



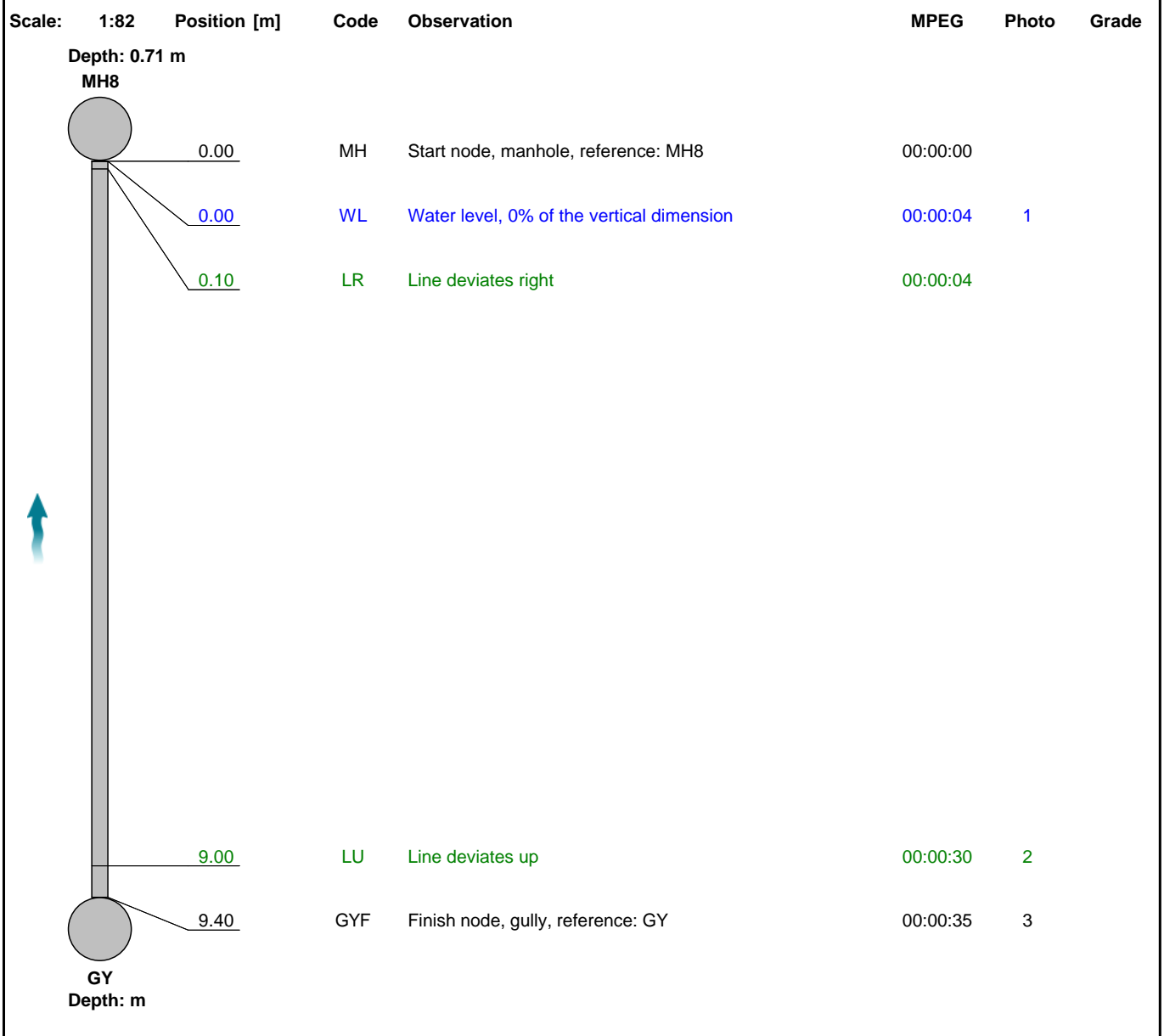
3, 00:00:32, 2.60 m
Finish node, manhole, reference: MH8

Section Inspection - 11/02/2025 - GYX

Item No. 4	Insp. No. 1	Date 11/02/25	Time 12:57	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR GYX
Operator TN		Vehicle EY13S ON		Camera P542	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	East Grinstead	Inspection Direction:	Upstream	Upstream Node:	GY
Road:	Lewes Road	Inspected Length:	9.40 m	Upstream Pipe Depth:	
Location:	Other location	Total Length:	9.40 m	Downstream Node:	MH8
Surface Type:	Various	Joint Length:		Downstream Pipe Depth:	0.710 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:



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

Section Pictures - 11/02/2025 - GYX

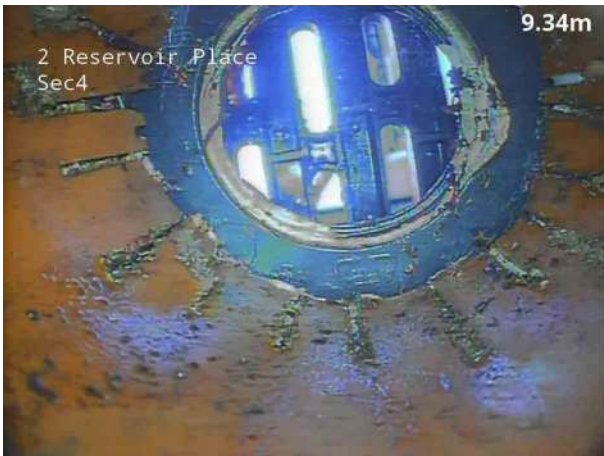
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
4	Upstream	GYX		



1, 00:00:04, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:30, 9.00 m
Line deviates up





3, 00:00:35, 9.40 m
Finish node, gully, reference: GY

Section Inspection - 11/02/2025 - MH8X

Item No. 5	Insp. No. 1	Date 11/02/25	Time 13:06	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR MH8X
Operator TN		Vehicle EY13S ON		Camera P542	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	East Grinstead	Inspection Direction:	Downstream	Upstream Node:	MH8
Road:	Lewes Road	Inspected Length:	17.30 m	Upstream Pipe Depth:	0.710 m
Location:	Other location	Total Length:	17.30 m	Downstream Node:	MH7
Surface Type:	Various	Joint Length:		Downstream Pipe Depth:	0.620 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:150	Position [m]	Code	Observation	MPEG	Photo	Grade																																																															
<div style="display: flex; align-items: center;"> <div style="text-align: center; margin-right: 20px;"> <p>Depth: 0.71 m</p> <p>MH8</p>  </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: right;">0.00</td> <td style="width: 10%;">MH</td> <td style="width: 40%;">Start node, manhole, reference: MH8</td> <td style="width: 10%; text-align: right;">00:00:00</td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> </tr> <tr> <td style="text-align: right;">0.00</td> <td>WL</td> <td>Water level, 0% of the vertical dimension</td> <td style="text-align: right;">00:00:03</td> <td></td> <td style="text-align: center;">1</td> <td></td> </tr> <tr> <td style="text-align: right;">2.80</td> <td>DER</td> <td>Settled deposits, coarse, 10% cross-sectional area loss</td> <td style="text-align: right;">00:00:19</td> <td></td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="text-align: right;">3.40</td> <td>JN</td> <td>Junction at 9 o'clock, 100mm dia</td> <td style="text-align: right;">00:00:23</td> <td></td> <td style="text-align: center;">3</td> <td></td> </tr> <tr> <td style="text-align: right;">9.70</td> <td>LR</td> <td>Line deviates right</td> <td style="text-align: right;">00:00:37</td> <td></td> <td style="text-align: center;">4</td> <td></td> </tr> <tr> <td style="text-align: right;">9.70</td> <td>DES</td> <td>Settled deposits, fine, 5% cross-sectional area loss</td> <td style="text-align: right;">00:00:37</td> <td></td> <td></td> <td style="text-align: center;">3</td> </tr> <tr> <td style="text-align: right;">9.90</td> <td>JN</td> <td>Junction at 9 o'clock, 100mm dia</td> <td style="text-align: right;">00:00:48</td> <td></td> <td style="text-align: center;">5</td> <td></td> </tr> <tr> <td style="text-align: right;">16.90</td> <td>LR</td> <td>Line deviates right</td> <td style="text-align: right;">00:01:04</td> <td></td> <td style="text-align: center;">6</td> <td></td> </tr> <tr> <td style="text-align: right;">17.30</td> <td>MHF</td> <td>Finish node, manhole, reference: MH7</td> <td style="text-align: right;">00:01:15</td> <td></td> <td style="text-align: center;">7</td> <td></td> </tr> </table> <div style="text-align: center; margin-left: 20px;"> <p>MH7</p> <p>Depth: 0.62 m</p>  </div> </div>								0.00	MH	Start node, manhole, reference: MH8	00:00:00				0.00	WL	Water level, 0% of the vertical dimension	00:00:03		1		2.80	DER	Settled deposits, coarse, 10% cross-sectional area loss	00:00:19		2	3	3.40	JN	Junction at 9 o'clock, 100mm dia	00:00:23		3		9.70	LR	Line deviates right	00:00:37		4		9.70	DES	Settled deposits, fine, 5% cross-sectional area loss	00:00:37			3	9.90	JN	Junction at 9 o'clock, 100mm dia	00:00:48		5		16.90	LR	Line deviates right	00:01:04		6		17.30	MHF	Finish node, manhole, reference: MH7	00:01:15		7	
0.00	MH	Start node, manhole, reference: MH8	00:00:00																																																																			
0.00	WL	Water level, 0% of the vertical dimension	00:00:03		1																																																																	
2.80	DER	Settled deposits, coarse, 10% cross-sectional area loss	00:00:19		2	3																																																																
3.40	JN	Junction at 9 o'clock, 100mm dia	00:00:23		3																																																																	
9.70	LR	Line deviates right	00:00:37		4																																																																	
9.70	DES	Settled deposits, fine, 5% cross-sectional area loss	00:00:37			3																																																																
9.90	JN	Junction at 9 o'clock, 100mm dia	00:00:48		5																																																																	
16.90	LR	Line deviates right	00:01:04		6																																																																	
17.30	MHF	Finish node, manhole, reference: MH7	00:01:15		7																																																																	

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	2	2.0	0.2	4.0	3.0

Section Pictures - 11/02/2025 - MH8X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
5	Downstream	MH8X		



1, 00:00:03, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:19, 2.80 m
Settled deposits, coarse, 10% cross-sectional area loss



3, 00:00:23, 3.40 m
Junction at 9 o'clock, 100mm dia



4, 00:00:37, 9.70 m
Line deviates right



5, 00:00:48, 9.90 m
Junction at 9 o'clock, 100mm dia



6, 00:01:04, 16.90 m
Line deviates right

Section Pictures - 11/02/2025 - MH8X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
5	Downstream	MH8X		



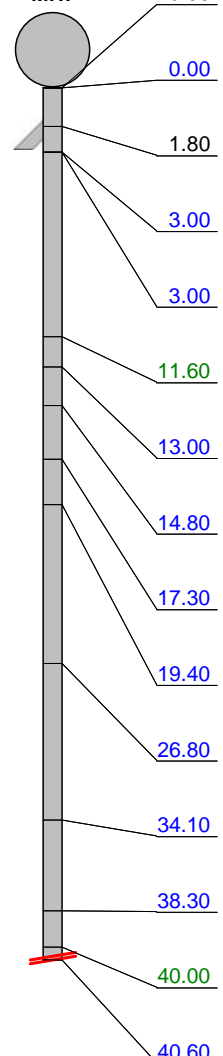
7, 00:01:15, 17.30 m
Finish node, manhole, reference: MH7

Section Inspection - 11/02/2025 - AX

Item No. 6	Insp. No. 1	Date 11/02/25	Time 13:23	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR AX
Operator TN		Vehicle EY13S ON		Camera P542	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	East Grinstead	Inspection Direction:	Upstream	Upstream Node:	A
Road:	Lewes Road	Inspected Length:	40.60 m	Upstream Pipe Depth:	
Location:	Other location	Total Length:	40.60 m	Downstream Node:	MH7
Surface Type:	Various	Joint Length:		Downstream Pipe Depth:	0.620 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

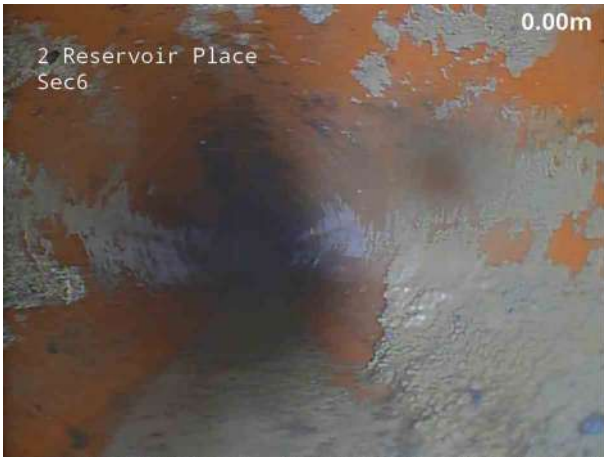
Comments:
Recommendations:

Scale:	1:352	Position [m]	Code	Observation	MPEG	Photo	Grade																																																																																										
<div style="display: flex; align-items: flex-start;"> <div style="width: 20%; text-align: right; padding-right: 10px;"> <p>Depth: 0.62 m</p> <p>MH7</p>  </div> <table border="1" style="width: 80%; border-collapse: collapse;"> <tr> <td style="text-align: right;">0.00</td> <td>MH</td> <td>Start node, manhole, reference: MH7</td> <td>00:00:00</td> <td></td> <td></td> </tr> <tr> <td style="text-align: right;">0.00</td> <td>WL</td> <td>Water level, 5% of the vertical dimension</td> <td>00:00:04</td> <td>1</td> <td></td> </tr> <tr> <td style="text-align: right;">1.80</td> <td>JN</td> <td>Junction at 3 o'clock, 100mm dia</td> <td>00:00:15</td> <td>2</td> <td></td> </tr> <tr> <td style="text-align: right;">3.00</td> <td>REM</td> <td>General remark: Changes to land drain</td> <td>00:00:24</td> <td>3</td> <td></td> </tr> <tr> <td style="text-align: right;">3.00</td> <td>WL</td> <td>Water level, 0% of the vertical dimension</td> <td>00:00:25</td> <td></td> <td></td> </tr> <tr> <td style="text-align: right;">11.60</td> <td>LL</td> <td>Line deviates left</td> <td>00:00:55</td> <td>4</td> <td></td> </tr> <tr> <td style="text-align: right;">13.00</td> <td>WL</td> <td>Water level, 5% of the vertical dimension</td> <td>00:01:11</td> <td>5</td> <td></td> </tr> <tr> <td style="text-align: right;">14.80</td> <td>WL</td> <td>Water level, 10% of the vertical dimension</td> <td>00:01:33</td> <td>6</td> <td></td> </tr> <tr> <td style="text-align: right;">17.30</td> <td>WL</td> <td>Water level, 0% of the vertical dimension</td> <td>00:01:46</td> <td>7</td> <td></td> </tr> <tr> <td style="text-align: right;">19.40</td> <td>WL</td> <td>Water level, 5% of the vertical dimension</td> <td>00:01:58</td> <td>8</td> <td></td> </tr> <tr> <td style="text-align: right;">26.80</td> <td>WL</td> <td>Water level, 10% of the vertical dimension</td> <td>00:02:33</td> <td>9</td> <td></td> </tr> <tr> <td style="text-align: right;">34.10</td> <td>WL</td> <td>Water level, 5% of the vertical dimension</td> <td>00:02:55</td> <td>10</td> <td></td> </tr> <tr> <td style="text-align: right;">38.30</td> <td>WL</td> <td>Water level, 10% of the vertical dimension</td> <td>00:03:14</td> <td>11</td> <td></td> </tr> <tr> <td style="text-align: right;">40.00</td> <td>LL</td> <td>Line deviates left</td> <td>00:03:19</td> <td>12</td> <td></td> </tr> <tr> <td style="text-align: right;">40.60</td> <td>SA</td> <td>Survey abandoned: Unable to continue</td> <td>00:03:24</td> <td>13</td> <td></td> </tr> </table> </div>								0.00	MH	Start node, manhole, reference: MH7	00:00:00			0.00	WL	Water level, 5% of the vertical dimension	00:00:04	1		1.80	JN	Junction at 3 o'clock, 100mm dia	00:00:15	2		3.00	REM	General remark: Changes to land drain	00:00:24	3		3.00	WL	Water level, 0% of the vertical dimension	00:00:25			11.60	LL	Line deviates left	00:00:55	4		13.00	WL	Water level, 5% of the vertical dimension	00:01:11	5		14.80	WL	Water level, 10% of the vertical dimension	00:01:33	6		17.30	WL	Water level, 0% of the vertical dimension	00:01:46	7		19.40	WL	Water level, 5% of the vertical dimension	00:01:58	8		26.80	WL	Water level, 10% of the vertical dimension	00:02:33	9		34.10	WL	Water level, 5% of the vertical dimension	00:02:55	10		38.30	WL	Water level, 10% of the vertical dimension	00:03:14	11		40.00	LL	Line deviates left	00:03:19	12		40.60	SA	Survey abandoned: Unable to continue	00:03:24	13	
0.00	MH	Start node, manhole, reference: MH7	00:00:00																																																																																														
0.00	WL	Water level, 5% of the vertical dimension	00:00:04	1																																																																																													
1.80	JN	Junction at 3 o'clock, 100mm dia	00:00:15	2																																																																																													
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26.80	WL	Water level, 10% of the vertical dimension	00:02:33	9																																																																																													
34.10	WL	Water level, 5% of the vertical dimension	00:02:55	10																																																																																													
38.30	WL	Water level, 10% of the vertical dimension	00:03:14	11																																																																																													
40.00	LL	Line deviates left	00:03:19	12																																																																																													
40.60	SA	Survey abandoned: Unable to continue	00:03:24	13																																																																																													

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

Section Pictures - 11/02/2025 - AX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
6	Upstream	AX		



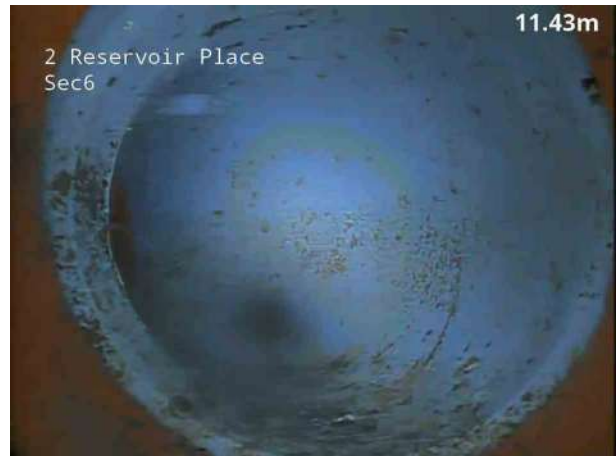
1, 00:00:04, 0.00 m
Water level, 5% of the vertical dimension



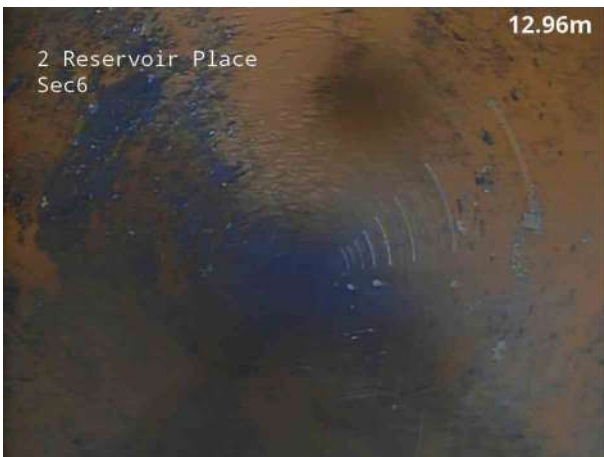
2, 00:00:15, 1.80 m
Junction at 3 o'clock, 100mm dia



3, 00:00:24, 3.00 m
General remark, Changes to land drain



4, 00:00:55, 11.60 m
Line deviates left



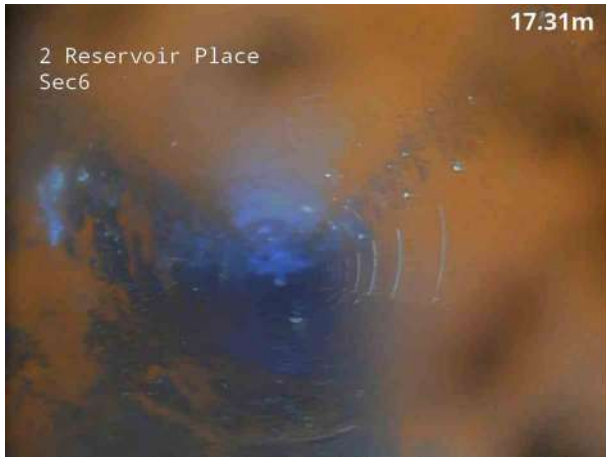
5, 00:01:11, 13.00 m
Water level, 5% of the vertical dimension



6, 00:01:33, 14.80 m
Water level, 10% of the vertical dimension

Section Pictures - 11/02/2025 - AX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
6	Upstream	AX		



7, 00:01:46, 17.30 m
Water level, 0% of the vertical dimension



8, 00:01:58, 19.40 m
Water level, 5% of the vertical dimension



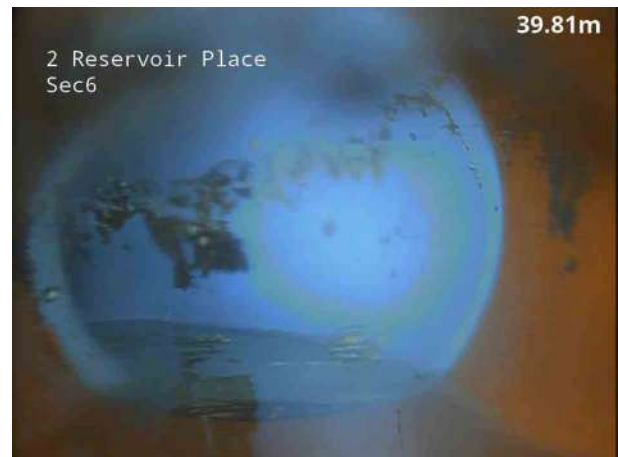
9, 00:02:33, 26.80 m
Water level, 10% of the vertical dimension



10, 00:02:55, 34.10 m
Water level, 5% of the vertical dimension



11, 00:03:14, 38.30 m
Water level, 10% of the vertical dimension



12, 00:03:19, 40.00 m
Line deviates left

Section Pictures - 11/02/2025 - AX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
6	Upstream	AX		



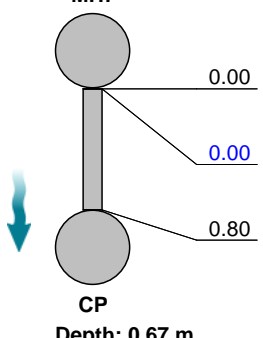
13, 00:03:24, 40.60 m
Survey abandoned, Unable to continue

Section Inspection - 11/02/2025 - MH7X

Item No. 7	Insp. No. 1	Date 11/02/25	Time 13:34	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR MH7X
Operator TN		Vehicle EY13S ON		Camera P542	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	East Grinstead	Inspection Direction:	Downstream	Upstream Node:	MH7
Road:	Lewes Road	Inspected Length:	0.80 m	Upstream Pipe Depth:	0.620 m
Location:	Other location	Total Length:	0.80 m	Downstream Node:	CP
Surface Type:	Various	Joint Length:		Downstream Pipe Depth:	0.670 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade																		
<div style="display: flex; align-items: center;"> <div style="text-align: center; margin-right: 20px;"> <p>Depth: 0.62 m</p> <p>MH7</p>  <p>Depth: 0.67 m</p> <p>CP</p> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center;">0.00</td> <td style="width: 10%; text-align: center;">MH</td> <td style="width: 40%;">Start node, manhole, reference: MH7</td> <td style="width: 10%; text-align: center;">00:00:00</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center; color: blue;">0.00</td> <td style="text-align: center; color: blue;">WL</td> <td style="color: blue;">Water level, 0% of the vertical dimension</td> <td style="text-align: center; color: blue;">00:00:04</td> <td style="text-align: center; color: blue;">1</td> <td></td> </tr> <tr> <td style="text-align: center;">0.80</td> <td style="text-align: center;">CPF</td> <td>Finish node, catchpit, reference: CP</td> <td style="text-align: center;">00:00:12</td> <td style="text-align: center;">2</td> <td></td> </tr> </table> </div>								0.00	MH	Start node, manhole, reference: MH7	00:00:00			0.00	WL	Water level, 0% of the vertical dimension	00:00:04	1		0.80	CPF	Finish node, catchpit, reference: CP	00:00:12	2	
0.00	MH	Start node, manhole, reference: MH7	00:00:00																						
0.00	WL	Water level, 0% of the vertical dimension	00:00:04	1																					
0.80	CPF	Finish node, catchpit, reference: CP	00:00:12	2																					

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

Section Pictures - 11/02/2025 - MH7X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
7	Downstream	MH7X		



1, 00:00:04, 0.00 m
Water level, 0% of the vertical dimension



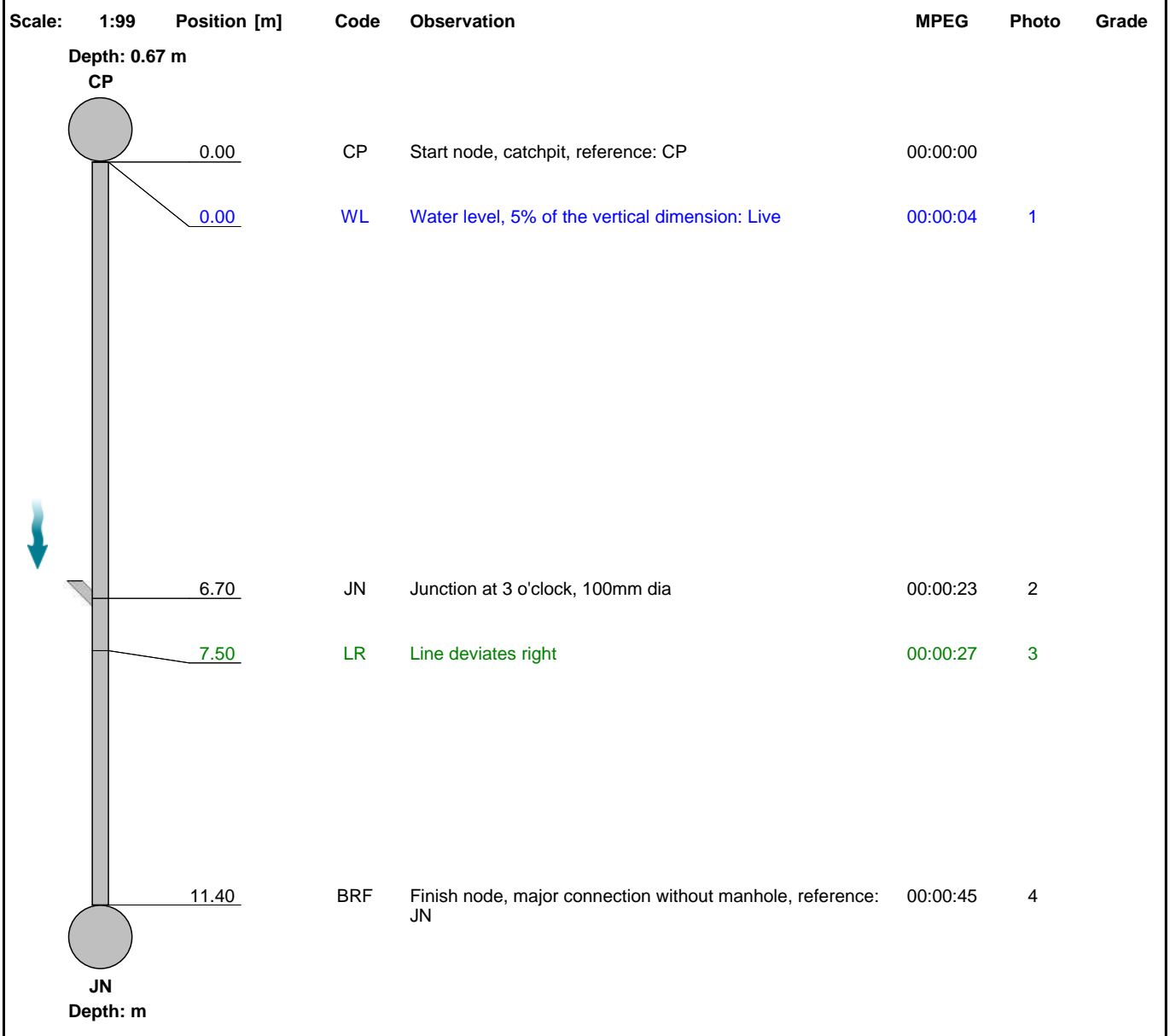
2, 00:00:12, 0.80 m
Finish node, catchpit, reference: CP

Section Inspection - 11/02/2025 - CPX

Item No. 8	Insp. No. 1	Date 11/02/25	Time 13:43	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR CPX
Operator TN		Vehicle EY13S ON		Camera P542	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	East Grinstead	Inspection Direction:	Downstream	Upstream Node:	CP
Road:	Lewes Road	Inspected Length:	11.40 m	Upstream Pipe Depth:	0.670 m
Location:	Other location	Total Length:	11.40 m	Downstream Node:	JN
Surface Type:	Various	Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:



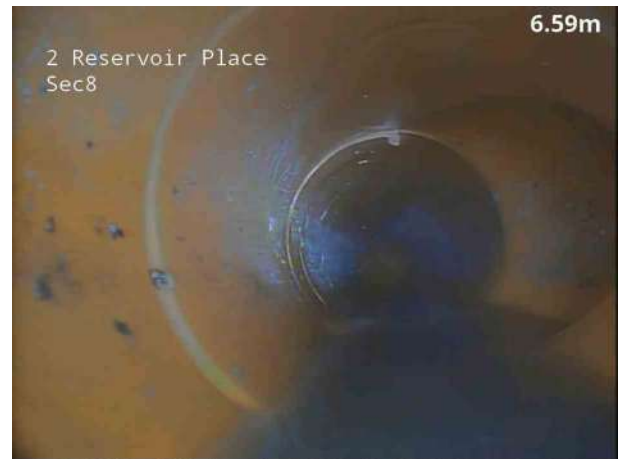
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 11/02/2025 - CPX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
8	Downstream	CPX		



1, 00:00:04, 0.00 m
Water level, 5% of the vertical dimension, Live



2, 00:00:23, 6.70 m
Junction at 3 o'clock, 100mm dia



3, 00:00:27, 7.50 m
Line deviates right



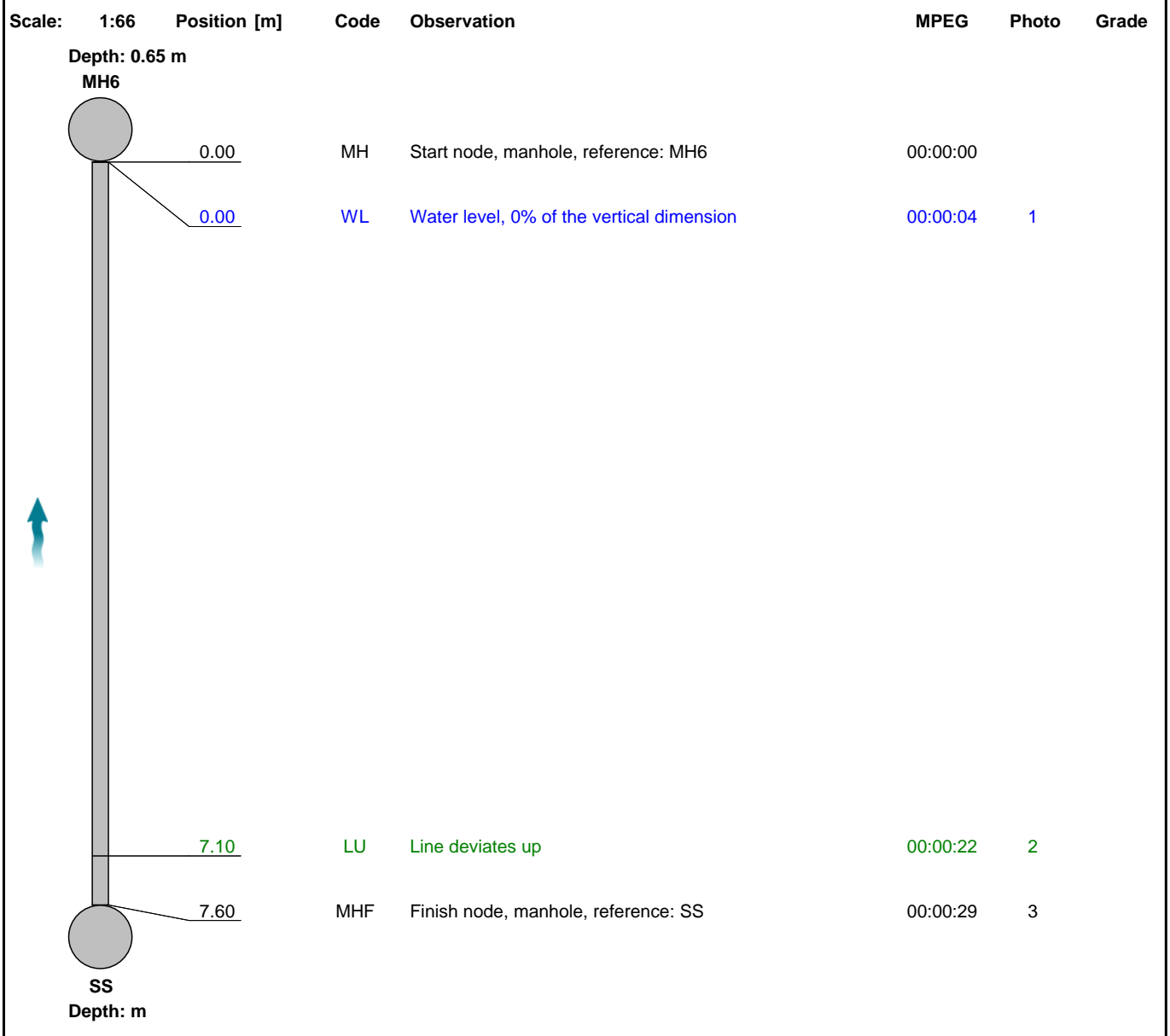
4, 00:00:45, 11.40 m
Finish node, major connection without manhole, reference: JN

Section Inspection - 11/02/2025 - SSX

Item No. 9	Insp. No. 1	Date 11/02/25	Time 13:50	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR SSX
Operator TN		Vehicle EY13S ON		Camera P542	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	East Grinstead	Inspection Direction:	Upstream	Upstream Node:	SS
Road:	Lewes Road	Inspected Length:	7.60 m	Upstream Pipe Depth:	
Location:	Other location	Total Length:	7.60 m	Downstream Node:	MH6
Surface Type:	Various	Joint Length:		Downstream Pipe Depth:	0.650 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:



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

Section Pictures - 11/02/2025 - SSX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
9	Upstream	SSX		



1, 00:00:04, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:22, 7.10 m
Line deviates up



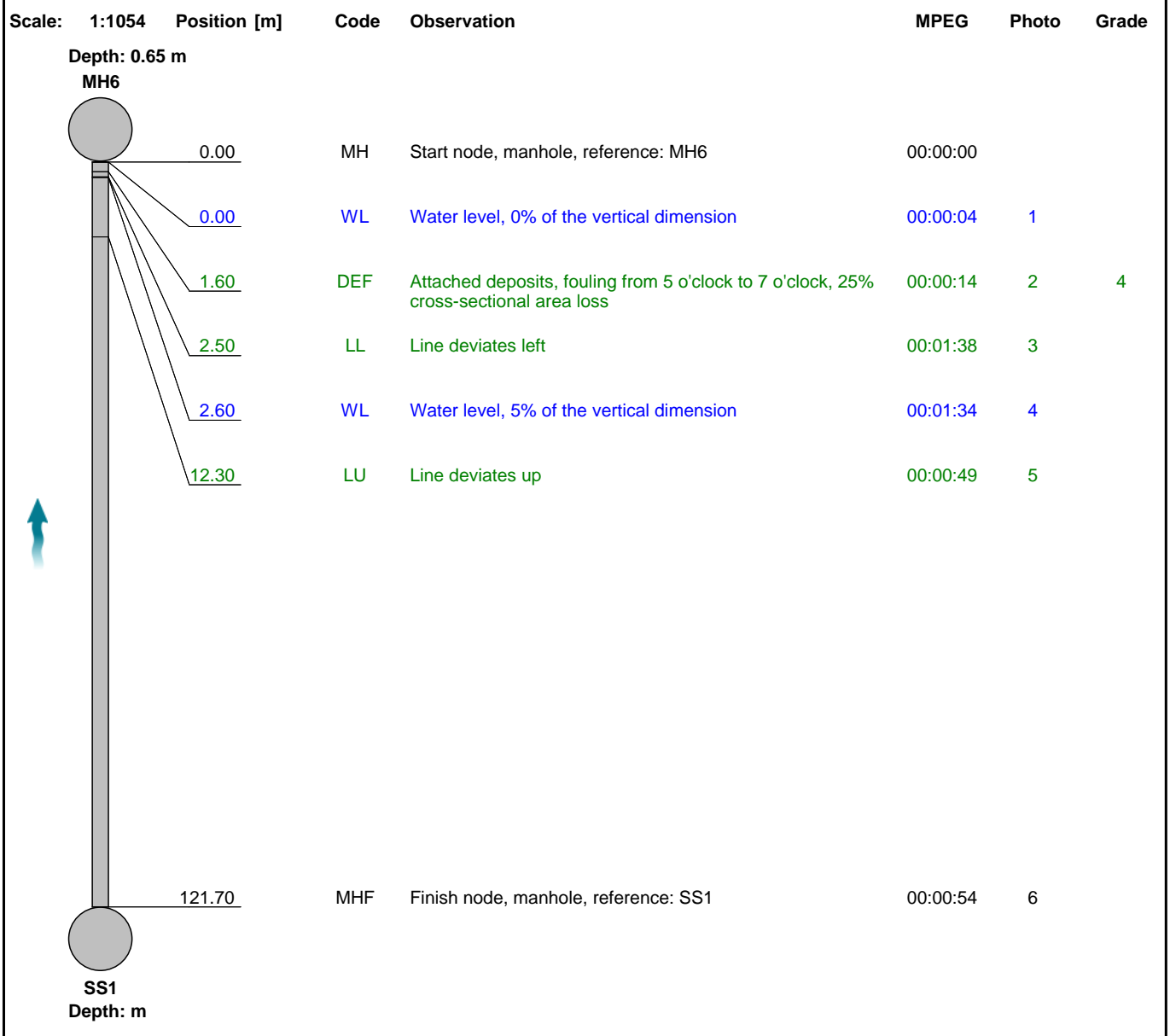
3, 00:00:29, 7.60 m
Finish node, manhole, reference: SS

Section Inspection - 11/02/2025 - SS1X

Item No. 10	Insp. No. 1	Date 11/02/25	Time 13:53	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR SS1X
Operator TN		Vehicle EY13S ON		Camera P542	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	East Grinstead	Inspection Direction:	Upstream	Upstream Node:	SS1
Road:	Lewes Road	Inspected Length:	121.70 m	Upstream Pipe Depth:	
Location:	Other location	Total Length:	121.70 m	Downstream Node:	MH6
Surface Type:	Various	Joint Length:		Downstream Pipe Depth:	0.650 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:



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	1	5.0	0.0	5.0	4.0

Section Pictures - 11/02/2025 - SS1X

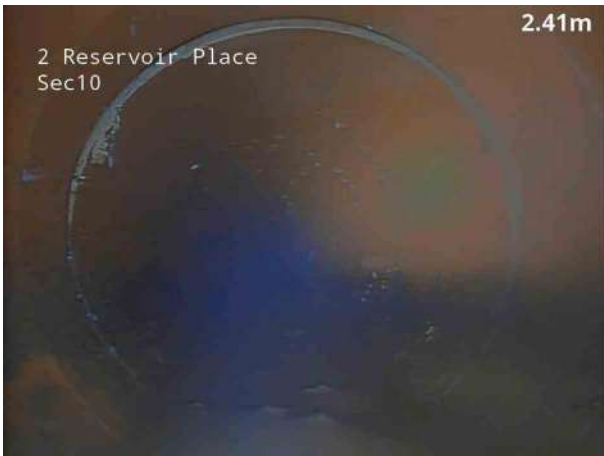
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
10	Upstream	SS1X		



1, 00:00:04, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:14, 1.60 m
Attached deposits, fouling from 5 o'clock to 7 o'clock, 25% cross-sectional area loss



3, 00:01:38, 2.50 m
Line deviates left



4, 00:01:34, 2.60 m
Water level, 5% of the vertical dimension



5, 00:00:49, 12.30 m
Line deviates up



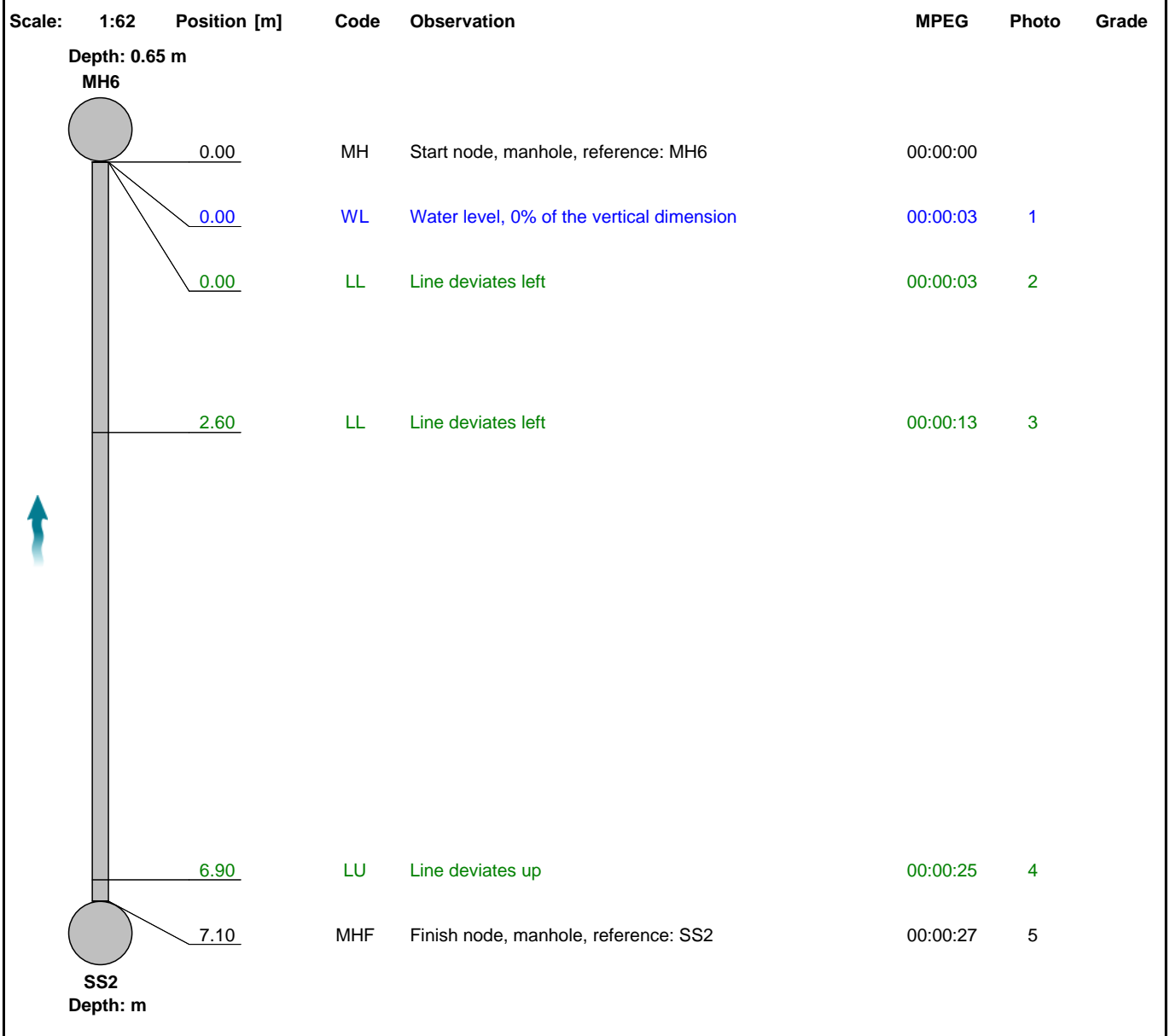
6, 00:00:54, 121.70 m
Finish node, manhole, reference: SS1

Section Inspection - 11/02/2025 - SS2X

Item No. 11	Insp. No. 1	Date 11/02/25	Time 13:55	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR SS2X
Operator TN		Vehicle EY13S ON		Camera P542	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	East Grinstead	Inspection Direction:	Upstream	Upstream Node:	SS2
Road:	Lewes Road	Inspected Length:	7.10 m	Upstream Pipe Depth:	
Location:	Other location	Total Length:	7.10 m	Downstream Node:	MH6
Surface Type:	Various	Joint Length:		Downstream Pipe Depth:	0.650 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:



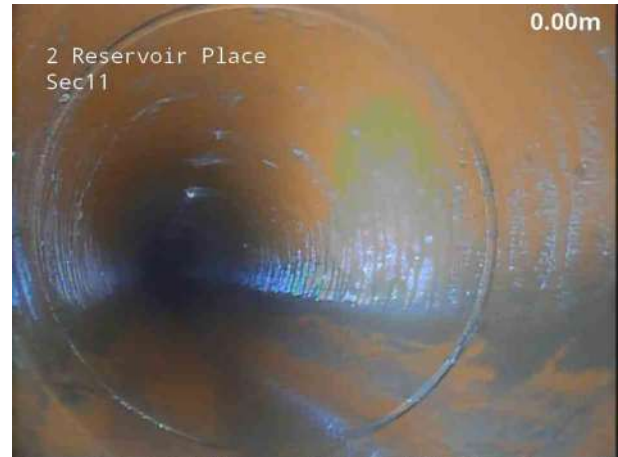
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 11/02/2025 - SS2X

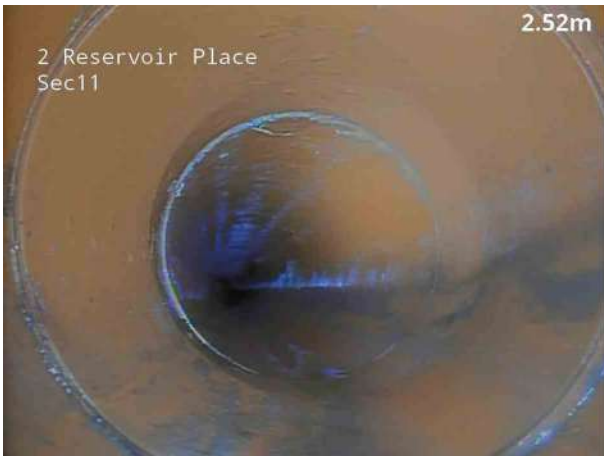
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
11	Upstream	SS2X		



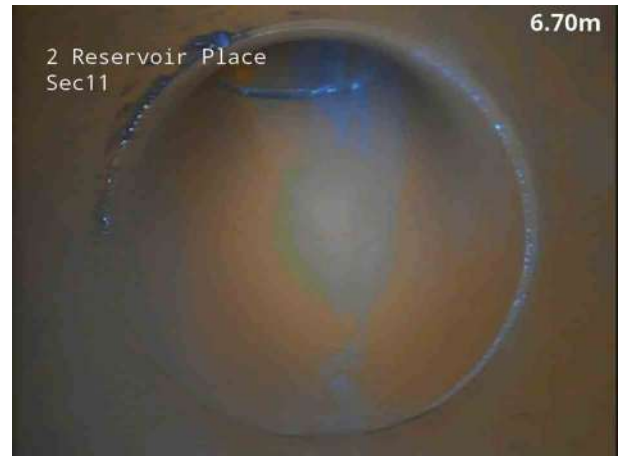
1, 00:00:03, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:03, 0.00 m
Line deviates left



3, 00:00:13, 2.60 m
Line deviates left



4, 00:00:25, 6.90 m
Line deviates up



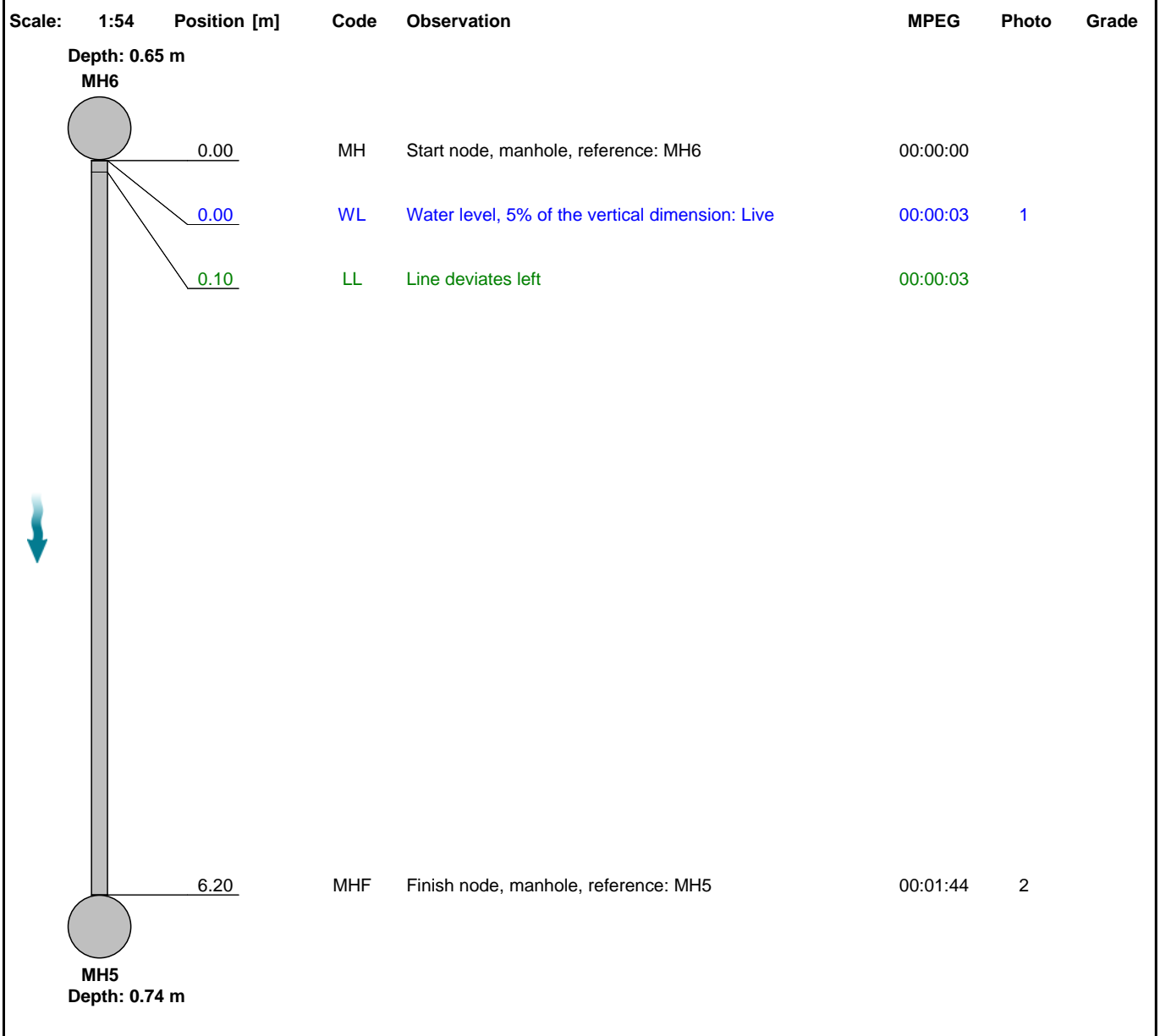
5, 00:00:27, 7.10 m
Finish node, manhole, reference: SS2

Section Inspection - 11/02/2025 - MH6X

Item No. 12	Insp. No. 1	Date 11/02/25	Time 13:57	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR MH6X
Operator TN		Vehicle EY13S ON		Camera P542	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	East Grinstead	Inspection Direction:	Downstream	Upstream Node:	MH6
Road:	Lewes Road	Inspected Length:	6.20 m	Upstream Pipe Depth:	0.650 m
Location:	Other location	Total Length:	6.20 m	Downstream Node:	MH5
Surface Type:	Various	Joint Length:		Downstream Pipe Depth:	0.740 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

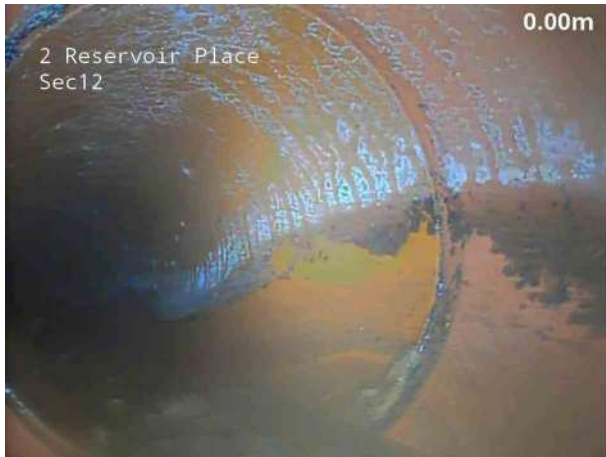
Comments:
Recommendations:



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

Section Pictures - 11/02/2025 - MH6X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
12	Downstream	MH6X		



1, 00:00:03, 0.00 m
Water level, 5% of the vertical dimension, Live



2, 00:01:44, 6.20 m
Finish node, manhole, reference: MH5

Section Inspection - 11/02/2025 - FPX

Item No. 13	Insp. No. 1	Date 11/02/25	Time 14:05	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR FPX
Operator TN		Vehicle EY13S ON		Camera P542	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	East Grinstead	Inspection Direction:	Upstream	Upstream Node:	FP
Road:	Lewes Road	Inspected Length:	10.60 m	Upstream Pipe Depth:	
Location:	Other location	Total Length:	11.10 m	Downstream Node:	MH5
Surface Type:	Various	Joint Length:		Downstream Pipe Depth:	0.740 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:97	Position [m]	Code	Observation	MPEG	Photo	Grade																																																																						
<div style="display: flex; align-items: center;"> <div style="flex: 1;"> </div> <table border="1" style="margin-left: 10px; border-collapse: collapse;"> <tr> <td style="width: 10%;">0.00</td> <td style="width: 5%;">MH</td> <td style="width: 45%;">Start node, manhole, reference: MH5</td> <td style="width: 10%;">00:00:00</td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> </tr> <tr> <td style="color: blue;">0.00</td> <td style="color: blue;">WL</td> <td style="color: blue;">Water level, 0% of the vertical dimension</td> <td style="color: blue;">00:00:06</td> <td></td> <td style="color: blue;">1</td> <td></td> </tr> <tr> <td style="color: green;">0.10</td> <td style="color: green;">LR</td> <td style="color: green;">Line deviates right</td> <td style="color: green;">00:00:06</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="color: green;">0.80</td> <td style="color: green;">S01</td> <td style="color: green;">DEF Attached deposits, fouling from 5 o'clock to 7 o'clock, 5% cross-sectional area loss, start: Scale</td> <td style="color: green;">00:00:11</td> <td></td> <td style="color: green;">2</td> <td></td> </tr> <tr> <td style="color: green;">4.30</td> <td style="color: green;">C01</td> <td style="color: green;">DEF Attached deposits, fouling from 5 o'clock to 7 o'clock, 10% cross-sectional area loss, change: Scale</td> <td style="color: green;">00:00:21</td> <td></td> <td style="color: green;">3</td> <td></td> </tr> <tr> <td style="color: blue;">4.70</td> <td style="color: blue;">WL</td> <td style="color: blue;">Water level, 5% of the vertical dimension</td> <td style="color: blue;">00:00:22</td> <td></td> <td style="color: blue;">4</td> <td></td> </tr> <tr> <td style="color: green;">6.60</td> <td style="color: green;">C01</td> <td style="color: green;">DEF Attached deposits, fouling from 5 o'clock to 7 o'clock, 5% cross-sectional area loss, change</td> <td style="color: green;">00:00:27</td> <td></td> <td style="color: green;">5</td> <td></td> </tr> <tr> <td style="color: green;">10.10</td> <td style="color: green;">F01</td> <td style="color: green;">DEF Attached deposits, fouling from 5 o'clock to 7 o'clock, 5% cross-sectional area loss, finish</td> <td style="color: green;">00:00:35</td> <td></td> <td style="color: green;">6</td> <td style="color: green;">3</td> </tr> <tr> <td style="color: green;">10.30</td> <td style="color: green;">LU</td> <td style="color: green;">Line deviates up</td> <td style="color: green;">00:00:35</td> <td></td> <td style="color: green;">7</td> <td></td> </tr> <tr> <td style="color: black;">10.60</td> <td style="color: black;">MHF</td> <td style="color: black;">Finish node, manhole, reference: FP</td> <td style="color: black;">00:00:45</td> <td></td> <td style="color: black;">8</td> <td></td> </tr> </table> </div>								0.00	MH	Start node, manhole, reference: MH5	00:00:00				0.00	WL	Water level, 0% of the vertical dimension	00:00:06		1		0.10	LR	Line deviates right	00:00:06				0.80	S01	DEF Attached deposits, fouling from 5 o'clock to 7 o'clock, 5% cross-sectional area loss, start: Scale	00:00:11		2		4.30	C01	DEF Attached deposits, fouling from 5 o'clock to 7 o'clock, 10% cross-sectional area loss, change: Scale	00:00:21		3		4.70	WL	Water level, 5% of the vertical dimension	00:00:22		4		6.60	C01	DEF Attached deposits, fouling from 5 o'clock to 7 o'clock, 5% cross-sectional area loss, change	00:00:27		5		10.10	F01	DEF Attached deposits, fouling from 5 o'clock to 7 o'clock, 5% cross-sectional area loss, finish	00:00:35		6	3	10.30	LU	Line deviates up	00:00:35		7		10.60	MHF	Finish node, manhole, reference: FP	00:00:45		8	
0.00	MH	Start node, manhole, reference: MH5	00:00:00																																																																										
0.00	WL	Water level, 0% of the vertical dimension	00:00:06		1																																																																								
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10.60	MHF	Finish node, manhole, reference: FP	00:00:45		8																																																																								

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	1	2.0	1.8	20.0	3.0

Section Pictures - 11/02/2025 - FPX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
13	Upstream	FPX		



1, 00:00:06, 0.00 m
Water level, 0% of the vertical dimension



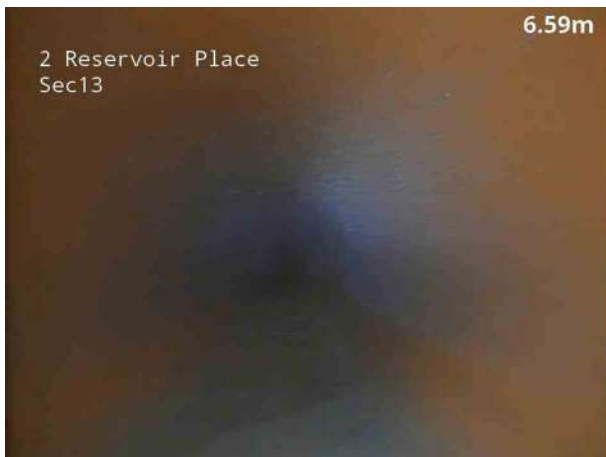
2, 00:00:11, 0.80 m
Attached deposits, fouling from 5 o'clock to 7 o'clock, 5% cross-sectional area loss, start, Scale



3, 00:00:21, 4.30 m
Attached deposits, fouling from 5 o'clock to 7 o'clock, 10% cross-sectional area loss, change, Scale



4, 00:00:22, 4.70 m
Water level, 5% of the vertical dimension



5, 00:00:27, 6.60 m
Attached deposits, fouling from 5 o'clock to 7 o'clock, 5% cross-sectional area loss, change



6, 00:00:35, 10.10 m
Attached deposits, fouling from 5 o'clock to 7 o'clock, 5% cross-sectional area loss, finish

Section Pictures - 11/02/2025 - FPX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
13	Upstream	FPX		



7, 00:00:35, 10.30 m
Line deviates up



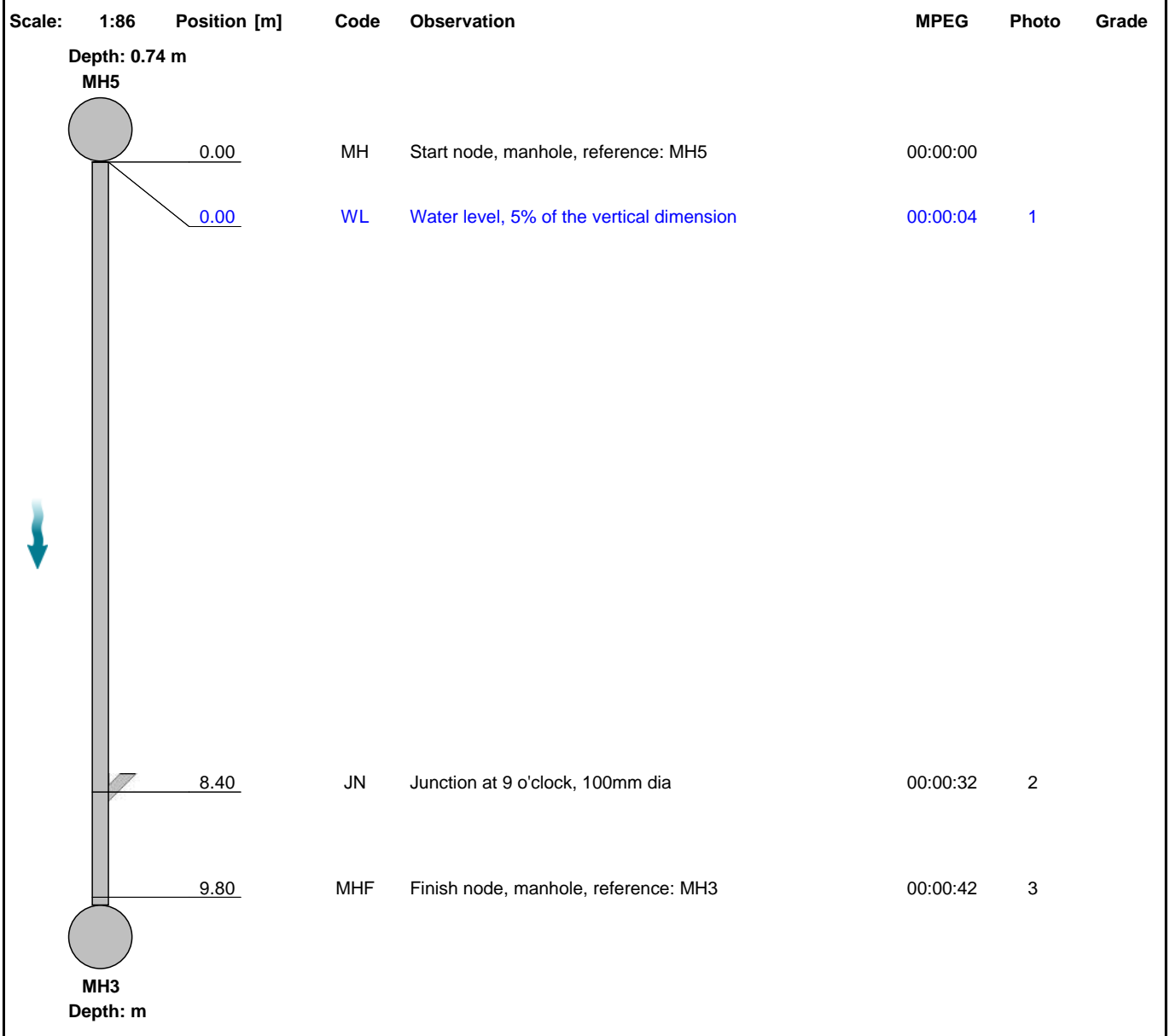
8, 00:00:45, 10.60 m
Finish node, manhole, reference: FP

Section Inspection - 11/02/2025 - MH5X

Item No. 14	Insp. No. 1	Date 11/02/25	Time 14:08	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR MH5X
Operator TN		Vehicle EY13S ON		Camera P542	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	East Grinstead	Inspection Direction:	Downstream	Upstream Node:	MH5
Road:	Lewes Road	Inspected Length:	9.80 m	Upstream Pipe Depth:	0.740 m
Location:	Other location	Total Length:	9.90 m	Downstream Node:	MH3
Surface Type:	Various	Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:



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

Section Pictures - 11/02/2025 - MH5X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
14	Downstream	MH5X		



1, 00:00:04, 0.00 m
Water level, 5% of the vertical dimension



2, 00:00:32, 8.40 m
Junction at 9 o'clock, 100mm dia



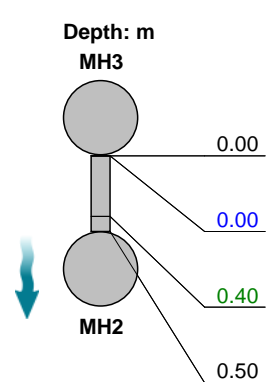
3, 00:00:42, 9.80 m
Finish node, manhole, reference: MH3

Section Inspection - 11/02/2025 - MH3X

Item No. 15	Insp. No. 1	Date 11/02/25	Time 14:08	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR MH3X
Operator TN		Vehicle EY13S ON		Camera P542	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	East Grinstead	Inspection Direction:	Downstream	Upstream Node:	MH3
Road:	Lewes Road	Inspected Length:	0.50 m	Upstream Pipe Depth:	
Location:	Other location	Total Length:	0.50 m	Downstream Node:	MH2
Surface Type:	Various	Joint Length:		Downstream Pipe Depth:	0.710 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade																												
<div style="display: flex; align-items: center;"> <div style="text-align: center; margin-right: 20px;"> <p>Depth: m</p> <p>MH3</p>  <p>MH2</p> <p>Depth: 0.71 m</p> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;">0.00</td> <td style="width: 10%;">MH</td> <td style="width: 40%;">Start node, manhole, reference: MH3</td> <td style="width: 10%;">00:00:00</td> <td></td> <td></td> </tr> <tr> <td></td> <td>0.00</td> <td>WL</td> <td>Water level, 0% of the vertical dimension</td> <td>00:00:03</td> <td>1</td> <td></td> </tr> <tr> <td></td> <td>0.40</td> <td>LR</td> <td>Line deviates right</td> <td>00:00:06</td> <td>2</td> <td></td> </tr> <tr> <td></td> <td>0.50</td> <td>MHF</td> <td>Finish node, manhole, reference: MH2</td> <td>00:00:08</td> <td>3</td> <td></td> </tr> </table> </div>									0.00	MH	Start node, manhole, reference: MH3	00:00:00				0.00	WL	Water level, 0% of the vertical dimension	00:00:03	1			0.40	LR	Line deviates right	00:00:06	2			0.50	MHF	Finish node, manhole, reference: MH2	00:00:08	3	
	0.00	MH	Start node, manhole, reference: MH3	00:00:00																															
	0.00	WL	Water level, 0% of the vertical dimension	00:00:03	1																														
	0.40	LR	Line deviates right	00:00:06	2																														
	0.50	MHF	Finish node, manhole, reference: MH2	00:00:08	3																														

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

Section Pictures - 11/02/2025 - MH3X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
15	Downstream	MH3X		



1, 00:00:03, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:06, 0.40 m
Line deviates right



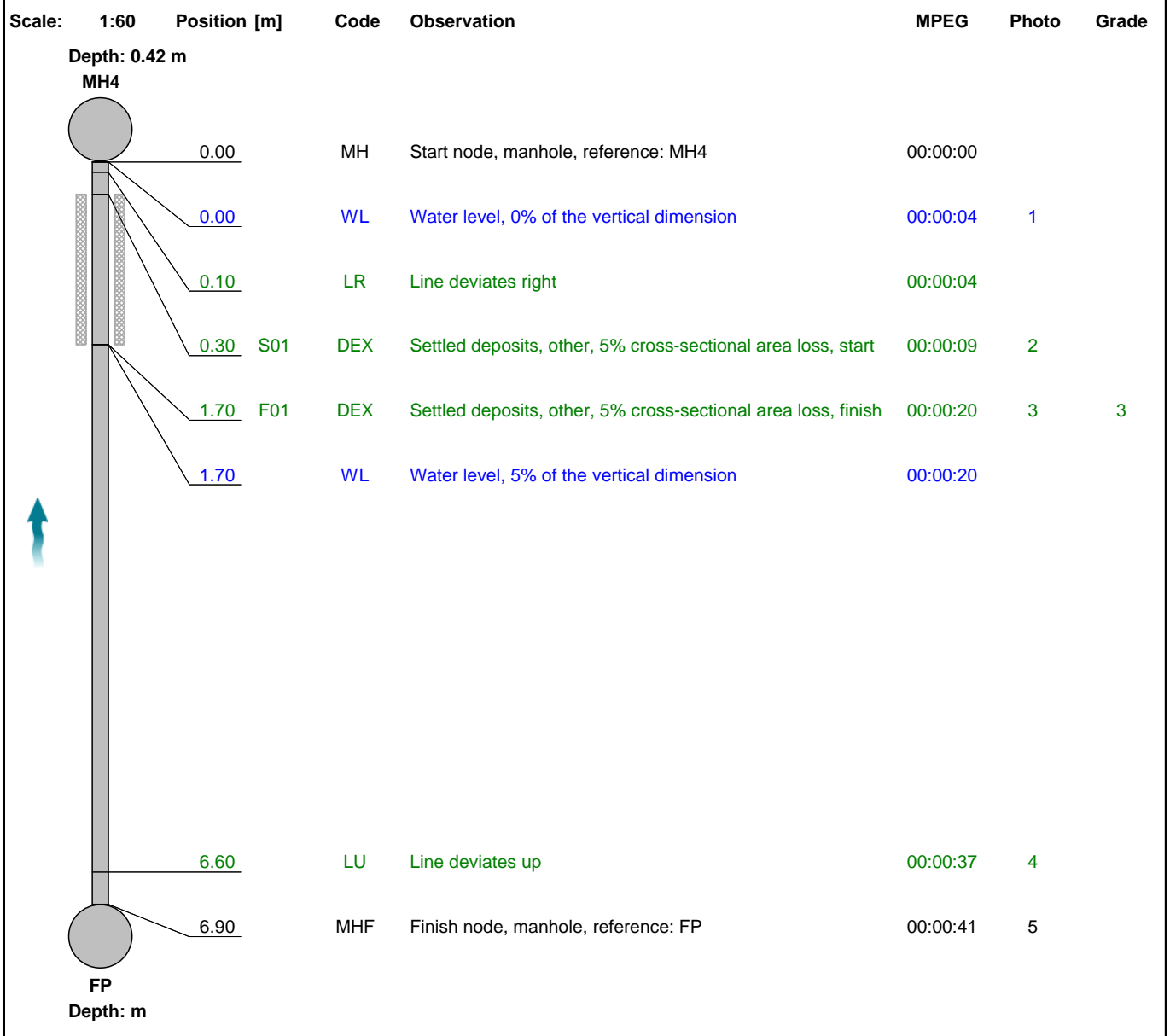
3, 00:00:08, 0.50 m
Finish node, manhole, reference: MH2

Section Inspection - 11/02/2025 - FPX

Item No. 16	Insp. No. 1	Date 11/02/25	Time 14:19	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR FPX
Operator TN		Vehicle EY13S ON		Camera P542	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	East Grinstead	Inspection Direction:	Upstream	Upstream Node:	FP
Road:	Lewes Road	Inspected Length:	6.90 m	Upstream Pipe Depth:	
Location:	Other location	Total Length:	6.90 m	Downstream Node:	MH4
Surface Type:	Various	Joint Length:		Downstream Pipe Depth:	0.420 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:



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	1	2.0	0.6	4.0	3.0

Section Pictures - 11/02/2025 - FPX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
16	Upstream	FPX		



1, 00:00:04, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:09, 0.30 m
Settled deposits, other, 5% cross-sectional area loss, start



3, 00:00:20, 1.70 m
Settled deposits, other, 5% cross-sectional area loss, finish



4, 00:00:37, 6.60 m
Line deviates up



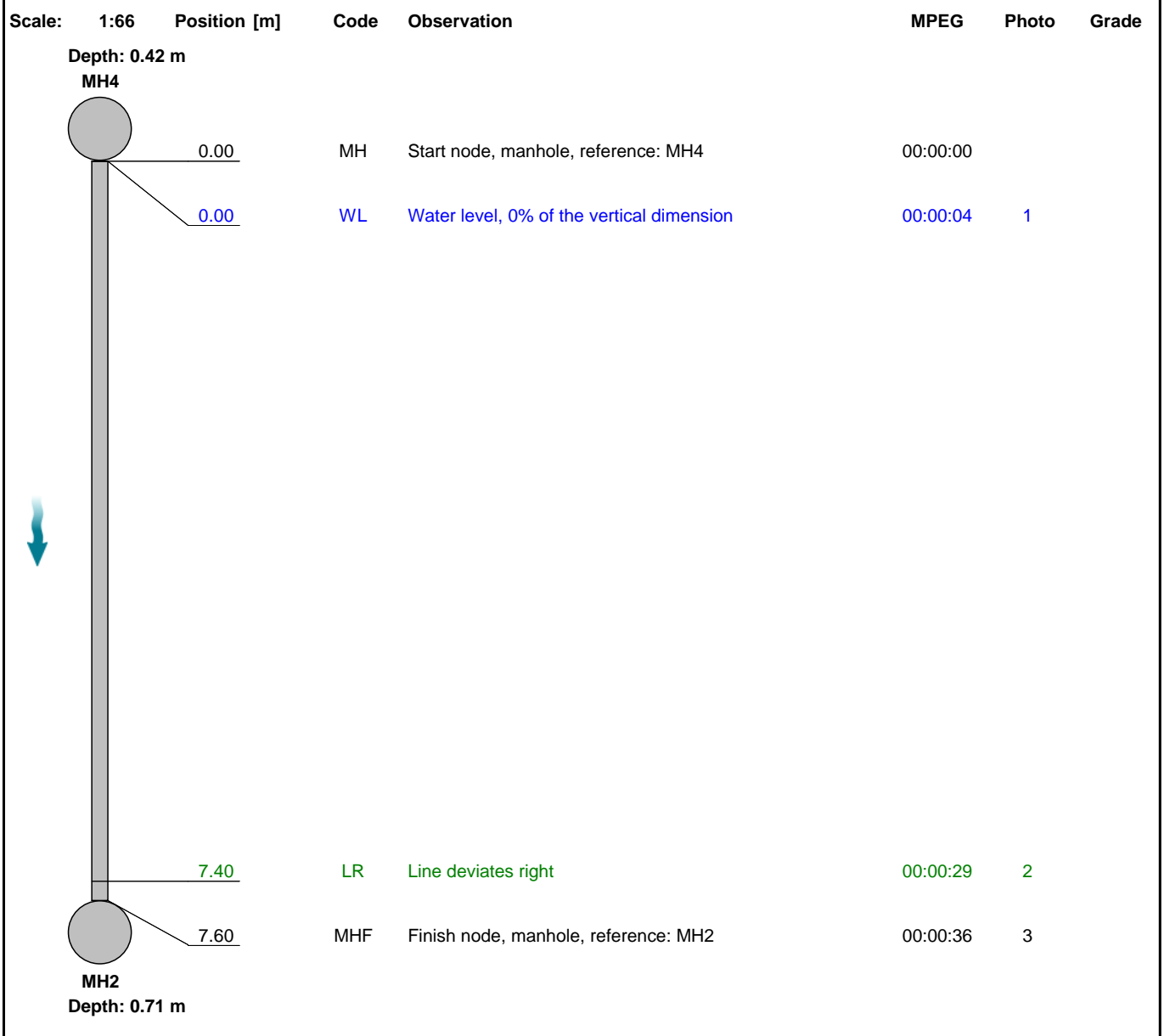
5, 00:00:41, 6.90 m
Finish node, manhole, reference: FP

Section Inspection - 11/02/2025 - MH4X

Item No. 17	Insp. No. 1	Date 11/02/25	Time 14:36	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR MH4X
Operator TN		Vehicle EY13S ON		Camera P542	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	East Grinstead	Inspection Direction:	Downstream	Upstream Node:	MH4
Road:	Lewes Road	Inspected Length:	7.60 m	Upstream Pipe Depth:	0.420 m
Location:	Other location	Total Length:	7.60 m	Downstream Node:	MH2
Surface Type:	Various	Joint Length:		Downstream Pipe Depth:	0.710 m
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:



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

Section Pictures - 11/02/2025 - MH4X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
17	Downstream	MH4X		



1, 00:00:04, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:29, 7.40 m
Line deviates right



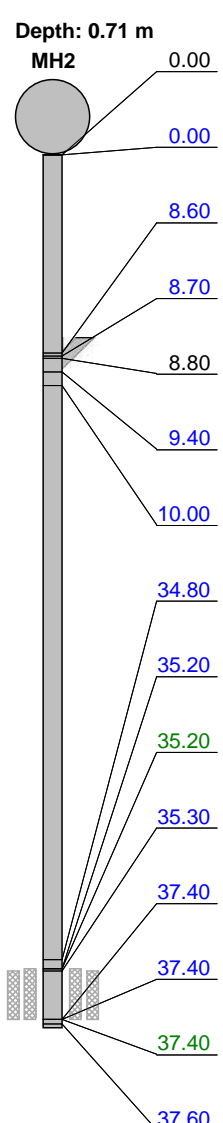
3, 00:00:36, 7.60 m
Finish node, manhole, reference: MH2

Section Inspection - 11/02/2025 - MH2X

Item No. 18	Insp. No. 1	Date 11/02/25	Time 14:36	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR MH2X
Operator TN		Vehicle EY13S ON		Camera P542	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

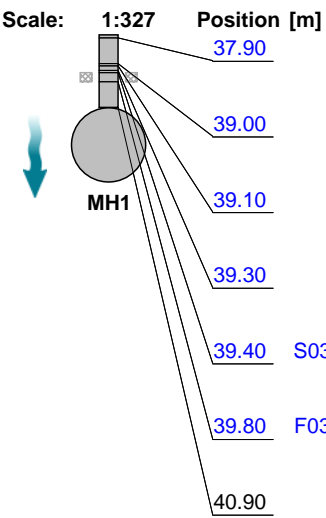
Town or Village:	East Grinstead	Inspection Direction:	Downstream	Upstream Node:	MH2
Road:	Lewes Road	Inspected Length:	40.90 m	Upstream Pipe Depth:	0.710 m
Location:	Other location	Total Length:	40.90 m	Downstream Node:	MH1
Surface Type:	Various	Joint Length:		Downstream Pipe Depth:	2.870 m
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:327	Position [m]	Code	Observation	MPEG	Photo	Grade																																																																																																																								
<div style="display: flex; align-items: center;"> <div style="flex: 1;">  </div> <table border="1" style="margin-left: 10px; border-collapse: collapse;"> <tr> <td style="width: 10%;">Depth: 0.71 m</td> <td style="width: 10%;">MH2</td> <td style="width: 10%;">0.00</td> <td style="width: 5%;">MH</td> <td style="width: 45%;">Start node, manhole, reference: MH2</td> <td style="width: 10%;">00:00:00</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>0.00</td> <td>WL</td> <td>Water level, 0% of the vertical dimension</td> <td>00:00:38</td> <td>1</td> <td></td> </tr> <tr> <td></td> <td></td> <td>8.60</td> <td>WL</td> <td>Water level, 10% of the vertical dimension</td> <td>00:01:10</td> <td>2</td> <td></td> </tr> <tr> <td></td> <td></td> <td>8.70</td> <td>WL</td> <td>Water level, 20% of the vertical dimension</td> <td>00:01:11</td> <td>3</td> <td></td> </tr> <tr> <td></td> <td></td> <td>8.80</td> <td>JN</td> <td>Junction at 9 o'clock, 100mm dia</td> <td>00:01:13</td> <td>4</td> <td></td> </tr> <tr> <td></td> <td></td> <td>9.40</td> <td>WL</td> <td>Water level, 10% of the vertical dimension</td> <td>00:01:26</td> <td>5</td> <td></td> </tr> <tr> <td></td> <td></td> <td>10.00</td> <td>WL</td> <td>Water level, 5% of the vertical dimension: Live</td> <td>00:01:28</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>34.80</td> <td>WL</td> <td>Water level, 10% of the vertical dimension</td> <td>00:02:30</td> <td>6</td> <td></td> </tr> <tr> <td></td> <td></td> <td>35.20</td> <td>WL</td> <td>Water level, 25% of the vertical dimension</td> <td>00:02:33</td> <td>7</td> <td></td> </tr> <tr> <td></td> <td></td> <td>35.20</td> <td>S01</td> <td>DEF Attached deposits, fouling from 3 o'clock to 9 o'clock, 20% cross-sectional area loss, start</td> <td>00:02:36</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>35.30</td> <td>S02</td> <td>CUW Loss of vision, camera under water, start</td> <td>00:02:37</td> <td>8</td> <td></td> </tr> <tr> <td></td> <td></td> <td>37.40</td> <td>WL</td> <td>Water level, 25% of the vertical dimension</td> <td>00:03:03</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>37.40</td> <td>F02</td> <td>CUW Loss of vision, camera under water, finish</td> <td>00:03:06</td> <td>9</td> <td></td> </tr> <tr> <td></td> <td></td> <td>37.40</td> <td>F01</td> <td>DEF Attached deposits, fouling from 3 o'clock to 9 o'clock, 20% cross-sectional area loss, finish</td> <td>00:03:06</td> <td>10</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td>37.60</td> <td>WL</td> <td>Water level, 10% of the vertical dimension</td> <td>00:03:05</td> <td>11</td> <td></td> </tr> </table> </div>								Depth: 0.71 m	MH2	0.00	MH	Start node, manhole, reference: MH2	00:00:00					0.00	WL	Water level, 0% of the vertical dimension	00:00:38	1				8.60	WL	Water level, 10% of the vertical dimension	00:01:10	2				8.70	WL	Water level, 20% of the vertical dimension	00:01:11	3				8.80	JN	Junction at 9 o'clock, 100mm dia	00:01:13	4				9.40	WL	Water level, 10% of the vertical dimension	00:01:26	5				10.00	WL	Water level, 5% of the vertical dimension: Live	00:01:28					34.80	WL	Water level, 10% of the vertical dimension	00:02:30	6				35.20	WL	Water level, 25% of the vertical dimension	00:02:33	7				35.20	S01	DEF Attached deposits, fouling from 3 o'clock to 9 o'clock, 20% cross-sectional area loss, start	00:02:36					35.30	S02	CUW Loss of vision, camera under water, start	00:02:37	8				37.40	WL	Water level, 25% of the vertical dimension	00:03:03					37.40	F02	CUW Loss of vision, camera under water, finish	00:03:06	9				37.40	F01	DEF Attached deposits, fouling from 3 o'clock to 9 o'clock, 20% cross-sectional area loss, finish	00:03:06	10	3			37.60	WL	Water level, 10% of the vertical dimension	00:03:05	11	
Depth: 0.71 m	MH2	0.00	MH	Start node, manhole, reference: MH2	00:00:00																																																																																																																										
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		8.80	JN	Junction at 9 o'clock, 100mm dia	00:01:13	4																																																																																																																									
		9.40	WL	Water level, 10% of the vertical dimension	00:01:26	5																																																																																																																									
		10.00	WL	Water level, 5% of the vertical dimension: Live	00:01:28																																																																																																																										
		34.80	WL	Water level, 10% of the vertical dimension	00:02:30	6																																																																																																																									
		35.20	WL	Water level, 25% of the vertical dimension	00:02:33	7																																																																																																																									
		35.20	S01	DEF Attached deposits, fouling from 3 o'clock to 9 o'clock, 20% cross-sectional area loss, start	00:02:36																																																																																																																										
		35.30	S02	CUW Loss of vision, camera under water, start	00:02:37	8																																																																																																																									
		37.40	WL	Water level, 25% of the vertical dimension	00:03:03																																																																																																																										
		37.40	F02	CUW Loss of vision, camera under water, finish	00:03:06	9																																																																																																																									
		37.40	F01	DEF Attached deposits, fouling from 3 o'clock to 9 o'clock, 20% cross-sectional area loss, finish	00:03:06	10	3																																																																																																																								
		37.60	WL	Water level, 10% of the vertical dimension	00:03:05	11																																																																																																																									

Section Inspection - 11/02/2025 - MH2X

Item No. 18	Insp. No. 1	Date 11/02/25	Time 14:36	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR MH2X
Operator TN		Vehicle EY13S ON		Camera P542	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Scale:	1:327	Position [m]	Code	Observation	MPEG	Photo	Grade	
 <p>↓</p> <p>MH1</p> <p>Depth: 2.87 m</p>		37.90	WL	Water level, 5% of the vertical dimension	00:03:06	12		
		39.00	WL	Water level, 10% of the vertical dimension	00:03:11	13		
		39.10	WL	Water level, 20% of the vertical dimension	00:03:13			
		39.30	WL	Water level, 30% of the vertical dimension	00:03:13	14, 15		
		39.40	S03	CUW	Loss of vision, camera under water, start	00:03:15	16	
		39.80	F03	CUW	Loss of vision, camera under water, finish	00:03:59		
		40.90	MHF		Finish node, manhole, reference: MH1: Small blockage within MH1	00:04:59	17	

Construction Features
Structural Defects
Miscellaneous Features
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	1	2.0	0.1	6.0	3.0

Section Pictures - 11/02/2025 - MH2X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
18	Downstream	MH2X		



1, 00:00:38, 0.00 m
Water level, 0% of the vertical dimension



2, 00:01:10, 8.60 m
Water level, 10% of the vertical dimension



3, 00:01:11, 8.70 m
Water level, 20% of the vertical dimension



4, 00:01:13, 8.80 m
Junction at 9 o'clock, 100mm dia



5, 00:01:26, 9.40 m
Water level, 10% of the vertical dimension



6, 00:02:30, 34.80 m
Water level, 10% of the vertical dimension

Section Pictures - 11/02/2025 - MH2X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
18	Downstream	MH2X		



7, 00:02:33, 35.20 m
Water level, 25% of the vertical dimension



8, 00:02:37, 35.30 m
Loss of vision, camera under water, start



9, 00:03:06, 37.40 m
Loss of vision, camera under water, finish



10, 00:03:06, 37.40 m
Attached deposits, fouling from 3 o'clock to 9 o'clock, 20% cross-sectional area loss, finish



11, 00:03:05, 37.60 m
Water level, 10% of the vertical dimension



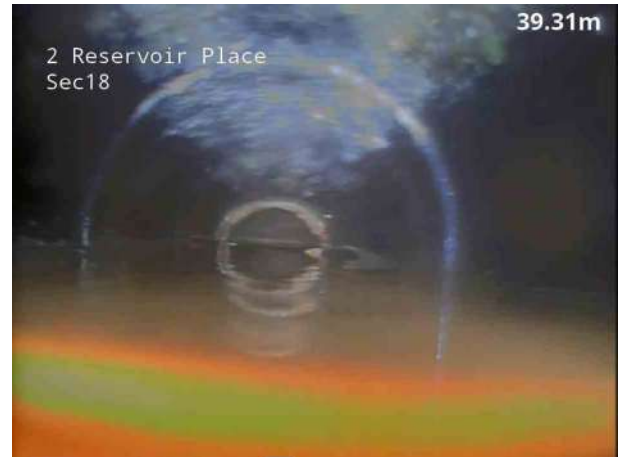
12, 00:03:06, 37.90 m
Water level, 5% of the vertical dimension

Section Pictures - 11/02/2025 - MH2X

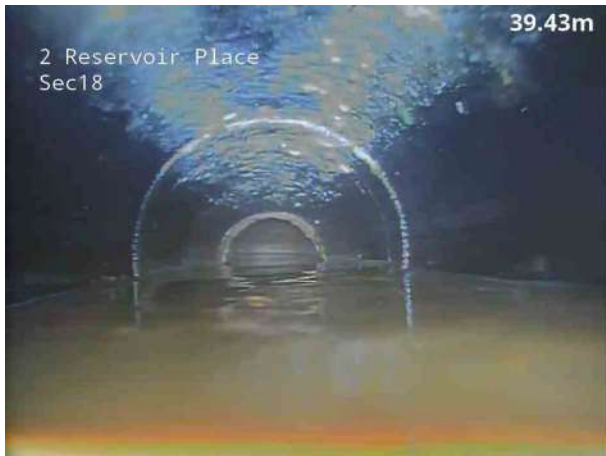
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
18	Downstream	MH2X		



13, 00:03:11, 39.00 m
Water level, 10% of the vertical dimension



14, 00:03:13, 39.30 m
Water level, 30% of the vertical dimension



15, 00:03:13, 39.30 m
Water level, 30% of the vertical dimension



16, 00:03:15, 39.40 m
Loss of vision, camera under water, start



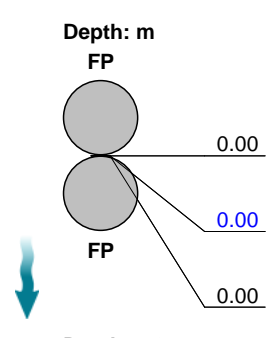
17, 00:04:59, 40.90 m
Finish node, manhole, reference: MH1, Small blockage within
MH1

Section Inspection - 11/02/2025 - FPX

Item No. 19	Insp. No. 1	Date 11/02/25	Time 15:05	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR FPX
Operator TN		Vehicle EY13S ON		Camera P542	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	East Grinstead	Inspection Direction:	Downstream	Upstream Node:	FP
Road:	Lewes Road	Inspected Length:	0.00 m	Upstream Pipe Depth:	2.870 m
Location:	Other location	Total Length:	0.00 m	Downstream Node:	FP
Surface Type:	Various	Joint Length:		Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade																								
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>Depth: m</p>  <p>Depth: 2.87 m</p> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;">0.00</td> <td style="width: 10%;">MH</td> <td style="width: 40%;">Start node, manhole, reference: MH1</td> <td style="width: 10%;">00:00:00</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td></td> <td></td> <td style="color: blue;">0.00</td> <td style="color: blue;">WL</td> <td style="color: blue;">Water level, 0% of the vertical dimension</td> <td style="color: blue;">00:00:05</td> <td style="color: blue;">1</td> <td></td> </tr> <tr> <td></td> <td></td> <td style="color: blue;">0.00</td> <td style="color: blue;">MHF</td> <td style="color: blue;">Finish node, manhole, reference: FP</td> <td style="color: blue;">00:00:09</td> <td style="color: blue;">2</td> <td></td> </tr> </table> </div>										0.00	MH	Start node, manhole, reference: MH1	00:00:00					0.00	WL	Water level, 0% of the vertical dimension	00:00:05	1				0.00	MHF	Finish node, manhole, reference: FP	00:00:09	2	
		0.00	MH	Start node, manhole, reference: MH1	00:00:00																										
		0.00	WL	Water level, 0% of the vertical dimension	00:00:05	1																									
		0.00	MHF	Finish node, manhole, reference: FP	00:00:09	2																									

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

Section Pictures - 11/02/2025 - FPX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
19	Downstream	FPX		



1, 00:00:05, 0.00 m
Water level, 0% of the vertical dimension



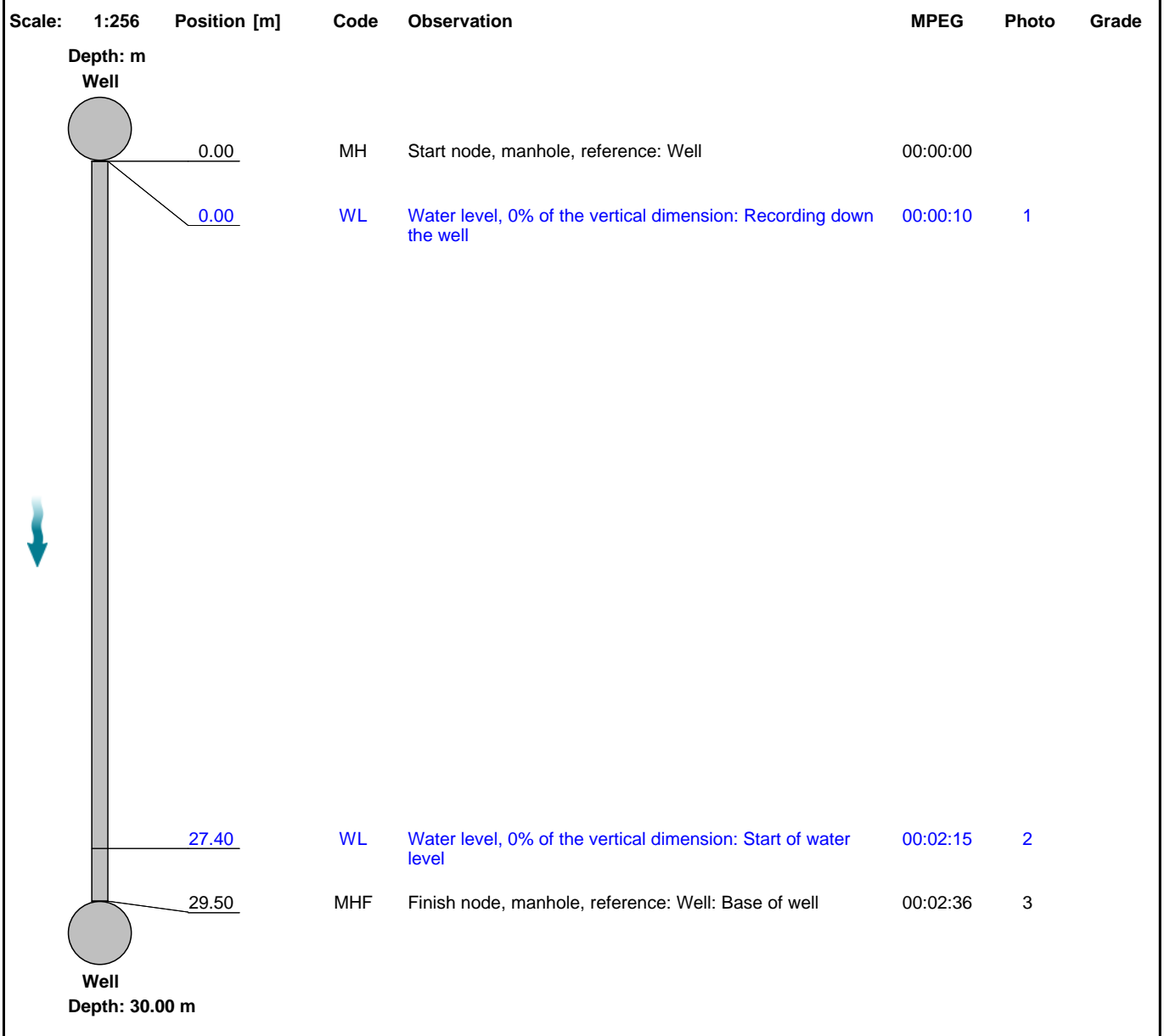
2, 00:00:09, 0.00 m
Finish node, manhole, reference: FP

Section Inspection - 11/02/2025 - WellX

Item No. 20	Insp. No. 1	Date 11/02/25	Time 15:21	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR WELLX
Operator TN		Vehicle EY13S ON		Camera P542	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	East Grinstead	Inspection Direction:	Downstream	Upstream Node:	WELL
Road:	Lewes Road	Inspected Length:	29.50 m	Upstream Pipe Depth:	
Location:	Other location	Total Length:	29.50 m	Downstream Node:	WELL
Surface Type:	Various	Joint Length:		Downstream Pipe Depth:	30.000 m
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:			
Flow Control:	No flow control	Material:	Brick		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

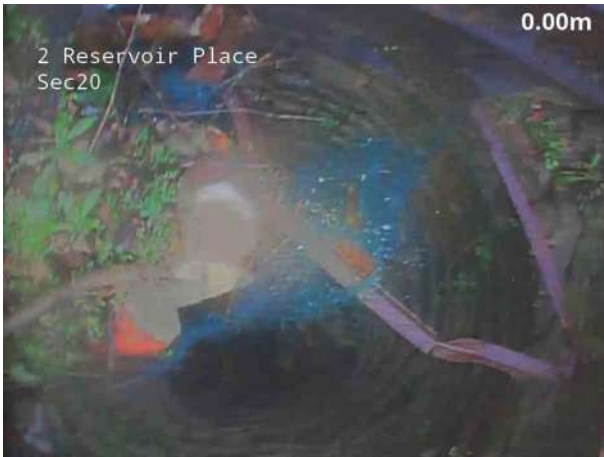
Comments:
Recommendations:



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

Section Pictures - 11/02/2025 - WellX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
20	Downstream	WELLX		



1, 00:00:10, 0.00 m
Water level, 0% of the vertical dimension, Recording down the well



2, 00:02:15, 27.40 m
Water level, 0% of the vertical dimension, Start of water level



3, 00:02:36, 29.50 m
Finish node, manhole, reference: Well, Base of well

Section Inspection - 11/02/2025 - MH1X

Item No. 21	Insp. No. 1	Date 11/02/25	Time 15:03	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned No	PLR MH1X
Operator TN		Vehicle EY13S ON		Camera P542	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	East Grinstead	Inspection Direction:	Downstream	Upstream Node:	MH1
Road:	Lewes Road	Inspected Length:	37.90 m	Upstream Pipe Depth:	2.870 m
Location:	Other location	Total Length:	37.90 m	Downstream Node:	SEWER
Surface Type:	Various	Joint Length:		Downstream Pipe Depth:	
Use:	Combined	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Polyvinyl chloride		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:329	Position [m]	Code	Observation	MPEG	Photo	Grade																																																	
<div style="display: flex; align-items: center;"> <div style="text-align: center; margin-right: 20px;"> <p>Depth: 2.87 m</p> <p>MH1</p> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">0.00</td> <td style="text-align: center;">MH</td> <td>Start node, manhole, reference: MH1: Screen says Sec18</td> <td style="text-align: center;">00:00:00</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">0.00</td> <td style="text-align: center;">WL</td> <td>Water level, 5% of the vertical dimension: Live</td> <td style="text-align: center;">00:00:04</td> <td style="text-align: center;">1</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">37.00</td> <td style="text-align: center;">JDM</td> <td>Joint displaced, medium</td> <td style="text-align: center;">00:03:04</td> <td style="text-align: center;">2</td> <td style="text-align: center;">1 / 3</td> <td></td> </tr> <tr> <td style="text-align: center;">37.40</td> <td style="text-align: center;">MCVC</td> <td>Pipe material changes to vitrified clay at this point</td> <td style="text-align: center;">00:02:44</td> <td style="text-align: center;">3</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">37.50</td> <td style="text-align: center;">LR</td> <td>Line deviates right</td> <td style="text-align: center;">00:02:44</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">37.50</td> <td style="text-align: center;">LD</td> <td>Line deviates down</td> <td style="text-align: center;">00:02:44</td> <td style="text-align: center;">4</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">37.90</td> <td style="text-align: center;">BRF</td> <td>Finish node, major connection without manhole, reference: Sewer</td> <td style="text-align: center;">00:02:53</td> <td style="text-align: center;">5</td> <td></td> <td></td> </tr> </table> </div>								0.00	MH	Start node, manhole, reference: MH1: Screen says Sec18	00:00:00				0.00	WL	Water level, 5% of the vertical dimension: Live	00:00:04	1			37.00	JDM	Joint displaced, medium	00:03:04	2	1 / 3		37.40	MCVC	Pipe material changes to vitrified clay at this point	00:02:44	3			37.50	LR	Line deviates right	00:02:44				37.50	LD	Line deviates down	00:02:44	4			37.90	BRF	Finish node, major connection without manhole, reference: Sewer	00:02:53	5		
0.00	MH	Start node, manhole, reference: MH1: Screen says Sec18	00:00:00																																																					
0.00	WL	Water level, 5% of the vertical dimension: Live	00:00:04	1																																																				
37.00	JDM	Joint displaced, medium	00:03:04	2	1 / 3																																																			
37.40	MCVC	Pipe material changes to vitrified clay at this point	00:02:44	3																																																				
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37.90	BRF	Finish node, major connection without manhole, reference: Sewer	00:02:53	5																																																				

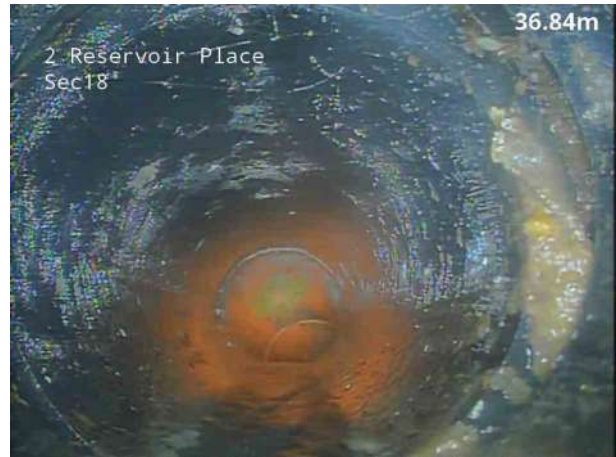
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	1.0	0.0	1.0	1.0	1	2.0	0.1	2.0	3.0

Section Pictures - 11/02/2025 - MH1X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
21	Downstream	MH1X		



1, 00:00:04, 0.00 m
Water level, 5% of the vertical dimension, Live



2, 00:03:04, 37.00 m
Joint displaced, medium



3, 00:02:44, 37.40 m
Pipe material changes to vitrified clay at this point



4, 00:02:44, 37.50 m
Line deviates down

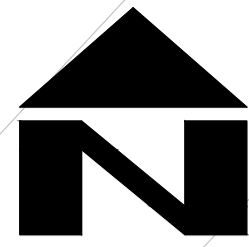


5, 00:02:53, 37.90 m
Finish node, major connection without manhole, reference:
Sewer

Disclaimer

Although every effort has been made to produce a thorough and precise report, Eyes On Drainage Services Ltd cannot be held liable for any discrepancies or omissions. Furthermore Eyes On Drainage Services Ltd cannot be held responsible for any actions taken based on the information supplied within this report.

7.4 **Appendix D – Proposed Drainage Drawings and Hydraulic Calculations**



Danecourt

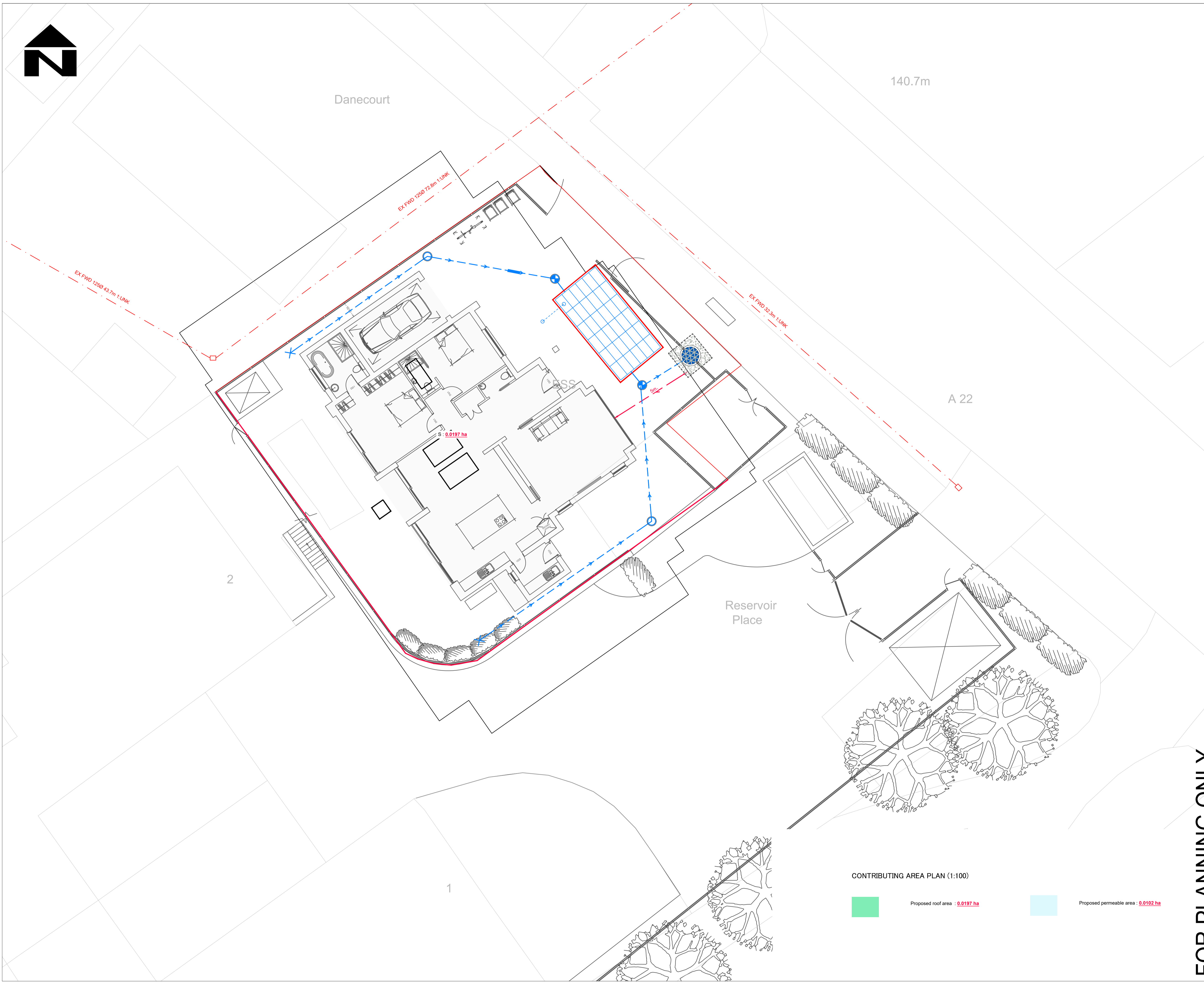
140.7m

A 22

Reservoir Place

2

1



- STANDARD DRAINAGE NOTES
- DO NOT SCALE FROM THIS DRAWING. REFER TO FIGURED DIMENSIONS ONLY. THE CONTRACTOR SHOULD CHECK ALL DIMENSIONS ON SITE.
 - ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS ARE IN METERS UNLESS NOTED OTHERWISE.
 - THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECT AND ENGINEERING DETAILS, DRAWINGS AND SPECIFICATIONS.
 - ANY DISCREPANCIES SHOULD BE REPORTED TO THE ARCHITECT AND/OR ENGINEER IMMEDIATELY, SO THAT CLARIFICATION CAN BE SOUGHT PRIOR TO THE COMMENCEMENT OF WORK.
 - BEFORE COMMENCING CONSTRUCTION THE CONTRACTOR MUST CHECK THE INVERT LEVELS OF EXISTING SEWERS TO WHICH CONNECTIONS ARE MADE. IN ADDITION THE CONTRACTOR MUST LOCATE AND DETERMINE INVERT LEVELS OF THE EXISTING SPURS TO WHICH CONNECTIONS ARE PROPOSED. ANY DISCREPANCIES ARE TO BE NOTIFIED TO THE ENGINEER IMMEDIATELY, PRIOR TO CONSTRUCTION.
 - ALL DRAINAGE WORKS SHOULD COMMENCE AT THE PROPOSED DOWNSTREAM CONNECTION POINT. THE WORKS CONTINUING UPSTREAM FOLLOWING CONFIRMATION OF THE TIE-IN INVERT LEVELS TO THE ENGINEER. CONNECTIONS TO MANHOLES OR LARGER SIZED PIPES ETC. SHOULD BE SOFFIT UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER, IF THIS IS NOT POSSIBLE INFORM THE ENGINEER IMMEDIATELY.
 - COVER LEVELS SHOWN ARE APPROXIMATE. COVERS AND FRAMES SHALL BE SET TO FINISHED GROUND LEVELS AND FALLS.
 - ALL UN-REFERENCED PIPES ARE TO BE 100mm DIA.
 - ALL PIPES TO BE ADOPTED, OR CONNECTING TO ADOPTED SEWERS, TO BE VITRIFIED CLAY TO BS EN 285 AND BS65 (SWS ONLY), OR CONCRETE PIPES TO BE EN 1916 AND BS5911:PART 1.
 - ROAD GULLY OUTLET PIPES ARE TO BE 150mm DIA. WITH CONCRETE SURROUND AND FLEXIBLE JOINTS. ALL GULLIES SHALL BE FITTED WITH GRADE D400 GRATINGS AND FRAMES TO BS EN124, UNLESS OTHERWISE STATED.
 - ALL ADOPTABLE SEWERS SHALL BE CONSTRUCTED TO THE STANDARDS AND SPECS LATEST EDITION IN SEWERS FOR ADOPTION 6th EDITION, WITH A VIEW TO ADOPTION UPON COMPLETION OF WORKS.
 - ALL PRIVATE DRAINAGE TO BE IN ACCORDANCE WITH THE BUILDING REGULATIONS APPROVED DOCUMENT PART-H, AND TO THE SATISFACTION OF THE BUILDING CONTROL INSPECTOR.
 - THE CONTRACTOR IS TO KEEP A RECORD OF ANY VARIATIONS MADE ON SITE, INCLUDING THE RELOCATION OF SEWERS OR DRAINS, SO THAT AN AS CONSTRUCTED DRAWING CAN BE PREPARED UPON COMPLETION OF THE PROJECT.
 - STUB CONNECTIONS TO ADOPTABLE MANHOLES SHALL BE MADE FROM VITRIFIED CLAY AND CONSIST OF TWO ROCKER PIPES LAID AT THE SAME GRADIENT AS THE UP OR DOWNSTREAM PIPE.
 - IF ANY SUB SOIL DRAINAGE SYSTEMS ARE UNCOVERED DURING THE WORKS CONTACT THE ENGINEER FOR INSTRUCTIONS. SUB SOIL DRAINS ARE TO BE DIVERTED AROUND NEW WORKS AND CONNECTED INTO THE SURFACE WATER.
 - NO PRIVATE AREAS ARE TO DRAIN ONTO ADOPTABLE AREAS AND VICE VERSA.
 - ALL EXISTING MANHOLE COVER'S, GULLIES, ETC. ARE TO BE RAISED/LOWERED TO SUIT NEW LEVELS.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM THE LOCATION AND DEPTH OF ALL EXISTING SERVICES AND UTILITIES THAT MAY BE PRESENT.
 - UPON COMPLETION BUT PRIOR TO HANDOVER, CONTRACTOR TO CARRY OUT FULL CCTV SURVEY OF DRAINAGE SYSTEM WHICH IS TO BE REVIEWED BY ENGINEER TO ENSURE SATISFACTORY INSTALLATION.
 - MANHOLE AND CHAMBER COVER GRADES:
 - 'A15' IN ALL LANDSCAPED AREAS AND ON FOOTPATHS
 - 'B125' IN ALL DRIVEWAYS
 - 'C250' IN PRIVATE PARKING AREAS
 - 'D400' IN CARRIAGEWAY/ACCESS ROAD

Prefixed to drawing numbers shall signify the following:-

PL = PLANNING **Shall not be used for contract or construction purposes**

P = PRELIMINARY **Shall not be used for contract or construction purposes**

T = TENDER **Shall not be used for construction purposes**

C = CONSTRUCTION **These are the only drawings that shall be used for construction purposes**

R = RECORD **Record of actual completed work**

P1	28.04.25	UPDATED NEW SITE PLAN	KCK	CS	CS
P-	27.02.25	PRELIMINARY ISSUE	KCK	CS	CS
REV	DATE	DESCRIPTION	BY	CHK	APP

cgscivils
Consulting Civil Engineers

CLIENT: SCOTT WELLER

ARCHITECT: RB DESIGN

JOB TITLE: 2 RESERVOIR PLACE, ASHURST RH19 3TB

DRAWING TITLE: PROPOSED CONTRIBUTING AREA

DRAWN: KCK	ENGINEER: TZ	CHECKED: CS	APPROVED: CS
DATE: FEBRUARY 2025	SCALE @ A1: 1:100		
JOB No: C3547	STATUS: P	DRAWING No: 201	REV: P1

CONTRIBUTING AREA PLAN (1:100)

Proposed roof area : 0.0197 ha

Proposed permeable area : 0.0102 ha

FOR PLANNING ONLY



Danecourt

140.7m

POROUS ACCESS ROAD (PP1)
Permeable paved surface with porous sub-base discharging to ground.

Comprising:

- 80mm Permeable Blocks Paving
- 40mm Laying Course
- Geotextile (permeable)
- 300mm voided Sub Base
- Geotextile (permeable)

Paving designed to a Critical 1 in 100 + 45%CC event
Designed to assumed infiltration rate of 2.00x10⁻³m/s

Proposed new drainage connections to be agreed with Southern Water under Section 106 agreement.
CONTRACTOR to confirm the existing sewer IL prior works commencing on site.



WARNING

DRAINAGE LEGEND

EXISTING FEATURES

- Ex FWD - Existing foul water sewer/drain and manhole
- Ex SWD - Existing foul water sewer/drain and manhole as taken from the CCTV Survey.
- Ex FWD - Existing surface water sewer/drain and manhole as taken from the CCTV Survey.
- Existing foul/surface water sewer/drain and manhole to be abandoned

Existing foul/surface water sewer/drain and manhole as taken from Eyes on Drainage CCTV Survey dated 14/02/2025.

PROPOSED FEATURES

- FWD - Foul Drainage
- SWD - Surface Water Drainage
- Pipe crossing (thickening denotes pipe above)
- Rainwater pipe
- Storm water access chamber (3000)
- Storm water inspection chamber (4500)
- Storm water catchpit chamber (4500)
- Storm water rodding eye
- Extent of self-draining permeable paving with porous sub-base
- Soil stack (type TBC by architect& engineer)
- Foul water access chamber (3000)
- Foul water inspection chamber (4500)
- 00.000* - Finished floor level (Assumed - TBC by the Architect)

1000 4.5m 1:100
Z BED

ABBREVIATIONS

- MH - MANHOLE
- IC - INSPECTION CHAMBER
- AC - ACCESS CHAMBER
- CP - CATCHPIT
- BC - BRAKE CHAMBER
- RE - RODDING EYE
- IL - INVERT LEVEL
- SL - SUMP LEVEL
- RA - RESTRICTED ACCESS COVER
- CL - COVER LEVEL
- TL - TOP OF CELLULAR SA
- BL - BASE OF CELLULAR SA
- FL - FORMATION LEVEL

Proposed surface level. Proposed levels assumed and to be designed by others.

STANDARD DRAINAGE NOTES

- DO NOT SCALE FROM THIS DRAWING. REFER TO FIGURED DIMENSIONS ONLY. THE CONTRACTOR SHOULD CHECK ALL DIMENSIONS ON SITE.
- ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS ARE IN METERS UNLESS NOTED OTHERWISE.
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- ALL PIPES TO BE ADOPTED, OR CONNECTING TO ADOPTED SEWERS, TO BE VITRIFIED CLAY TO BS EN 285 AND BS65 (SWS ONLY), OR CONCRETE PIPES TO BE EN 1916 AND BS5911-PART 1.
- ROAD GULLY OUTLET PIPES ARE TO BE 150mm DIA, WITH CONCRETE SURROUND AND FLEXIBLE JOINTS. ALL GULLIES SHALL BE FITTED WITH GRADE D400 GRATINGS AND FRAMES TO BS EN124, UNLESS OTHERWISE STATED.
- ALL ADOPTABLE SEWERS SHALL BE CONSTRUCTED TO THE STANDARDS AND FULL CCTV SURVEY OF DRAINAGE SYSTEMS FOR ADOPTION 6th EDITION, WITH A VIEW TO ADOPTION UPON COMPLETION OF WORKS.
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- MANHOLE AND CHAMBER COVER GRADES:

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P1	28.04.25	UPDATED NEW SITE PLAN	KCK	CS	CS
P-	27.02.25	PRELIMINARY ISSUE	KCK	CS	CS
REV	DATE	DESCRIPTION	BY	CHK	APP

Consulting Civil Engineers

CLIENT	SCOTT WELLER				
ARCHITECT	RB DESIGN				
JOB TITLE	2 RESERVOIR PLACE, ASHURST RH19 3TB				
DRAWING TITLE	PROPOSED DRAINAGE STRATEGY				
DRAWN	KCK	ENGINEER	TZ	CHECKED	CS
DATE	FEBRUARY 2025		SCALE @ A1	1:100	
JOB No.	C3547	STATUS	P	DRAWING No.	101
REV.					P1

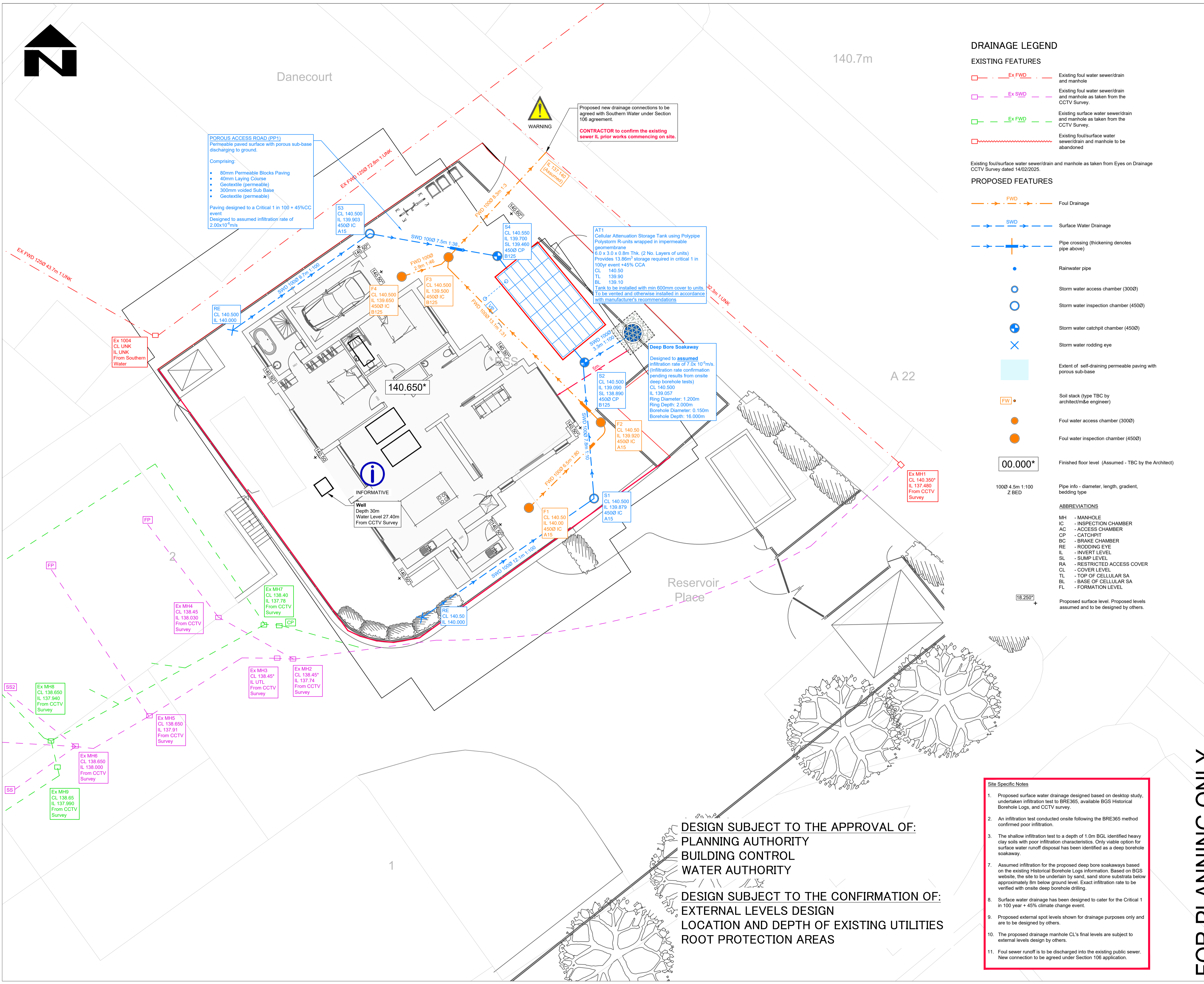
FOR PLANNING ONLY

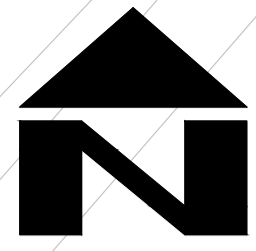
DESIGN SUBJECT TO THE APPROVAL OF:
PLANNING AUTHORITY
BUILDING CONTROL
WATER AUTHORITY

DESIGN SUBJECT TO THE CONFIRMATION OF:
EXTERNAL LEVELS DESIGN
LOCATION AND DEPTH OF EXISTING UTILITIES
ROOT PROTECTION AREAS

Site Specific Notes

- Proposed surface water drainage designed based on desktop study, undertaken infiltration test to BRE365, available BGS Historical Borehole Logs, and CCTV survey.
- An infiltration test conducted onsite following the BRE365 method confirmed poor infiltration.
- The shallow infiltration test to a depth of 1.0m BGL identified heavy clay soils with poor infiltration characteristics. Only viable option for surface water runoff disposal has been identified as a deep borehole soakaway.
- Assumed infiltration for the proposed deep bore soakaways based on the existing Historical Borehole Logs information. Based on BGS website, the site to be underlain by sand, sand stone substrata below approximately 8m below ground level. Exact infiltration rate to be verified with onsite deep borehole drilling.
- Surface water drainage has been designed to cater for the Critical 1 in 100 year + 45% climate change event.
- Proposed external spot levels shown for drainage purposes only and are to be designed by others.
- The proposed drainage manhole CL's final levels are subject to external levels design by others.
- Foul sewer runoff is to be discharged into the existing public sewer. New connection to be agreed under Section 106 application.





Danecourt

140.7m

140.650*

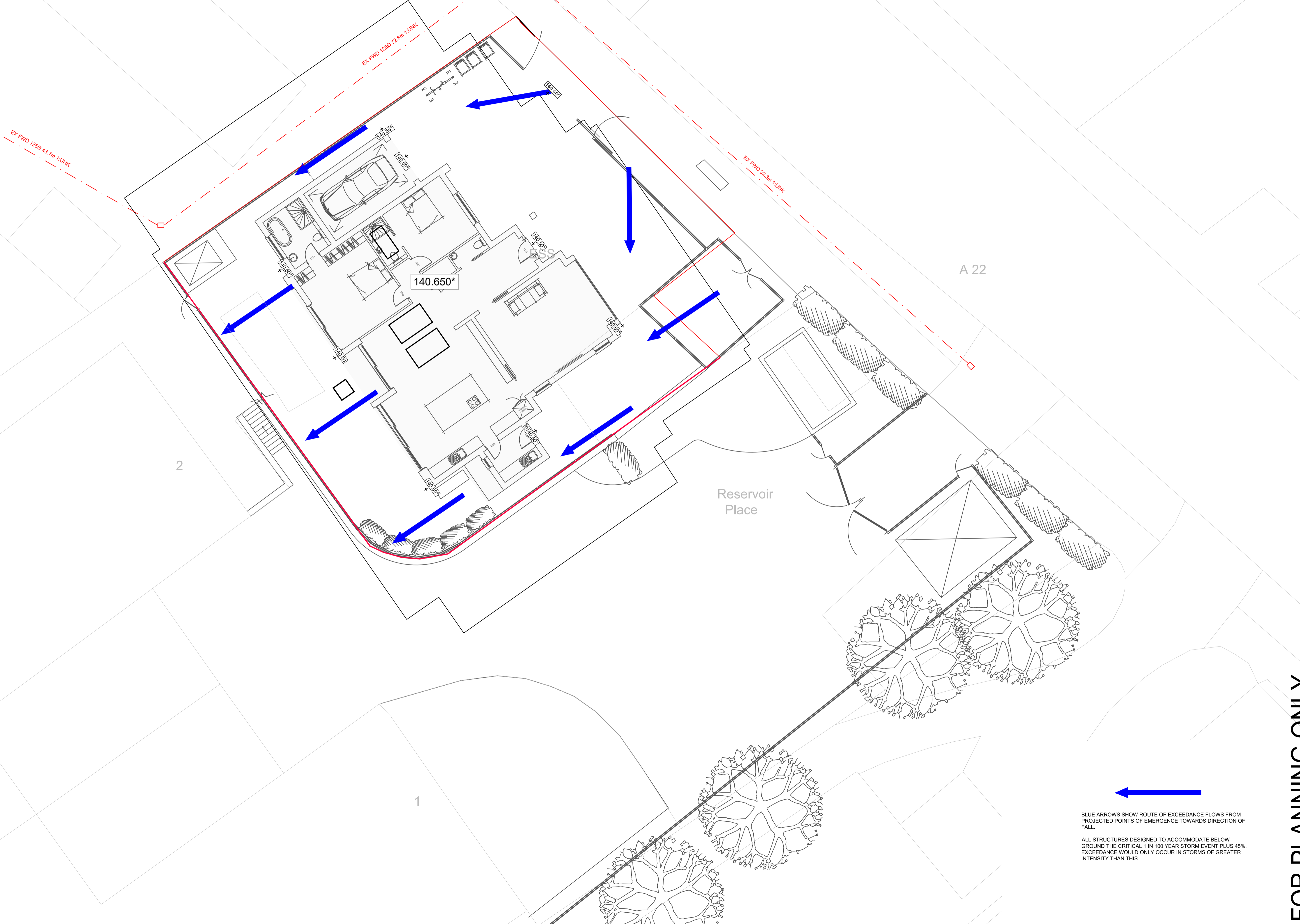
A 22

Reservoir Place

2

1

- STANDARD DRAINAGE NOTES
- DO NOT SCALE FROM THIS DRAWING. REFER TO FIGURED DIMENSIONS ONLY. THE CONTRACTOR SHOULD CHECK ALL DIMENSIONS ON SITE.
 - ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS ARE IN METERS UNLESS NOTED OTHERWISE.
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P	27.02.25	PRELIMINARY ISSUE	KCK	CS	CS
REV	DATE	DESCRIPTION	BY	CHK	APP

cgs civils Consulting Civil Engineers					
CLIENT	SCOTT WELLER				
ARCHITECT	RB DESIGN				
JOB TITLE	2 RESERVOIR PLACE, ASHURST RH19 3TB				
DRAWING TITLE	EXCEEDANCE FLOWS				
DRAWN	KCK	ENGINEER	TZ	CHECKED	CS
DATE	FEBRUARY 2025		SCALE @ A1	1:100	
JOB No.	C3547	STATUS	P	DRAWING No.	301
REV.					P1

BLUE ARROWS SHOW ROUTE OF EXCEEDANCE FLOWS FROM PROJECTED POINTS OF EMERGENCE TOWARDS DIRECTION OF FALL.

ALL STRUCTURES DESIGNED TO ACCOMMODATE BELOW GROUND THE CRITICAL 1 IN 100 YEAR STORM EVENT PLUS 45% EXCEEDANCE WOULD ONLY OCCUR IN STORMS OF GREATER INTENSITY THAN THIS.

FOR PLANNING ONLY

FIGURE B 23
TYPICAL INSPECTION CHAMBER DETAIL - TYPE E

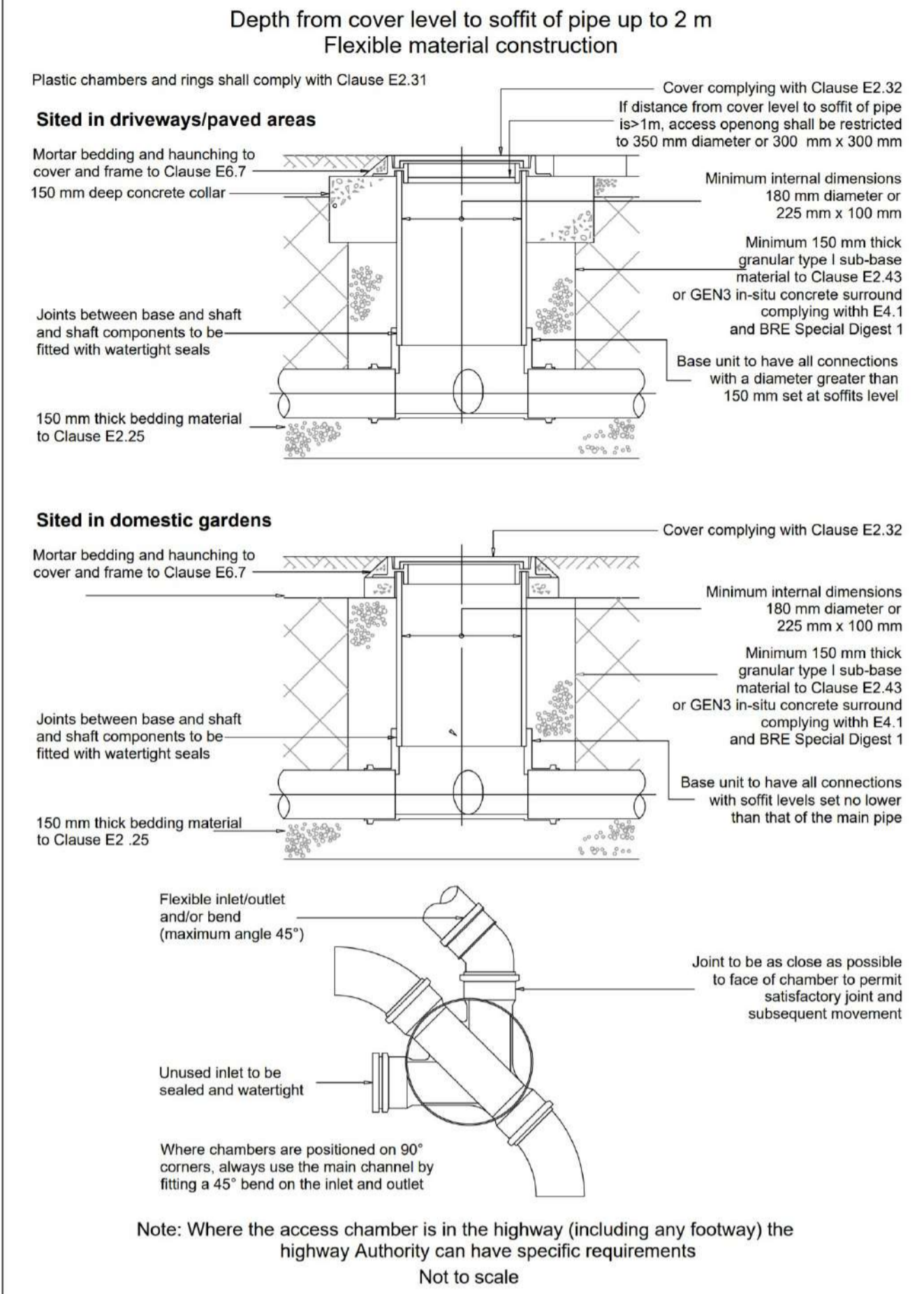


FIGURE B 22
TYPICAL BASE LAYOUTS FOR TYPE D CHAMBERS

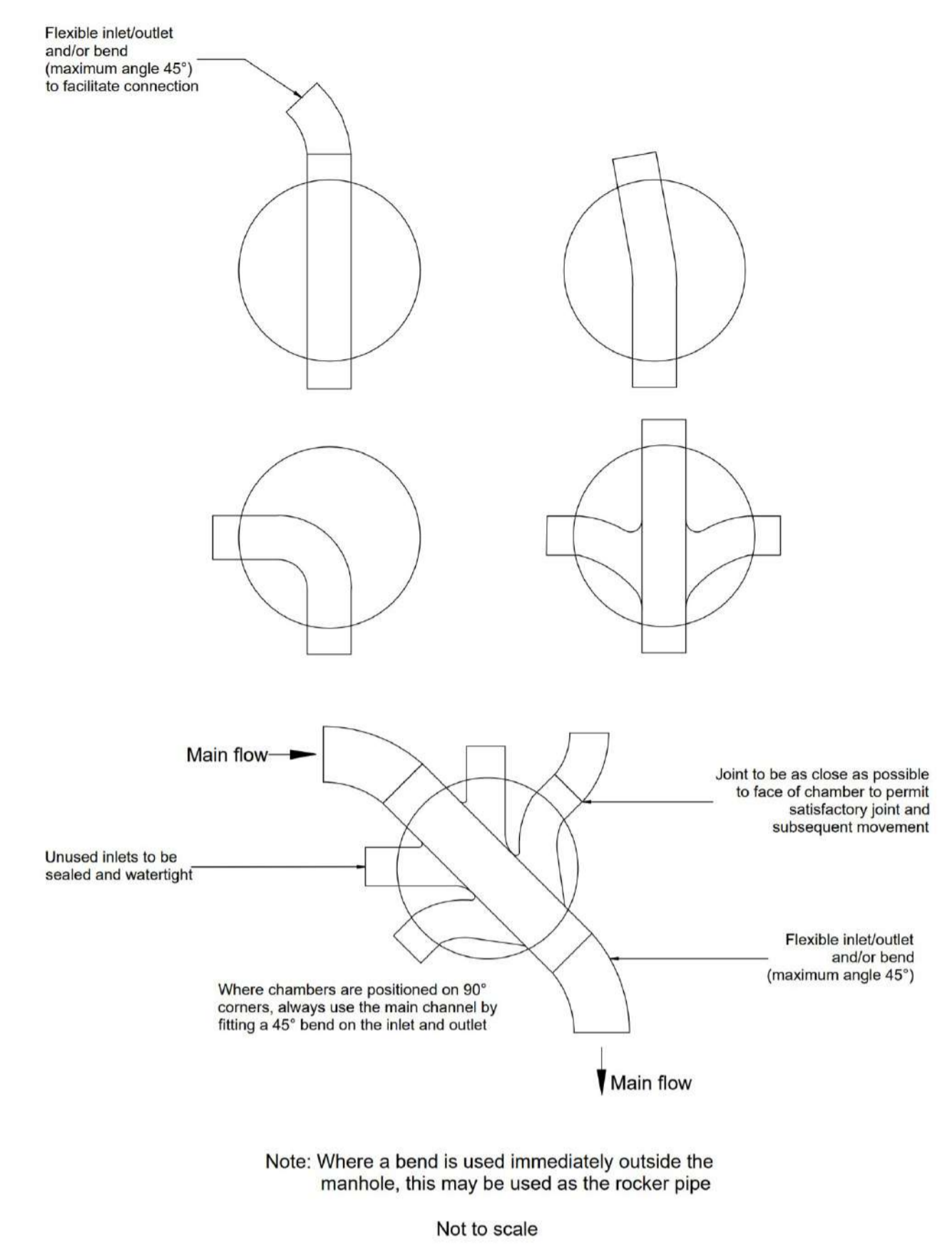
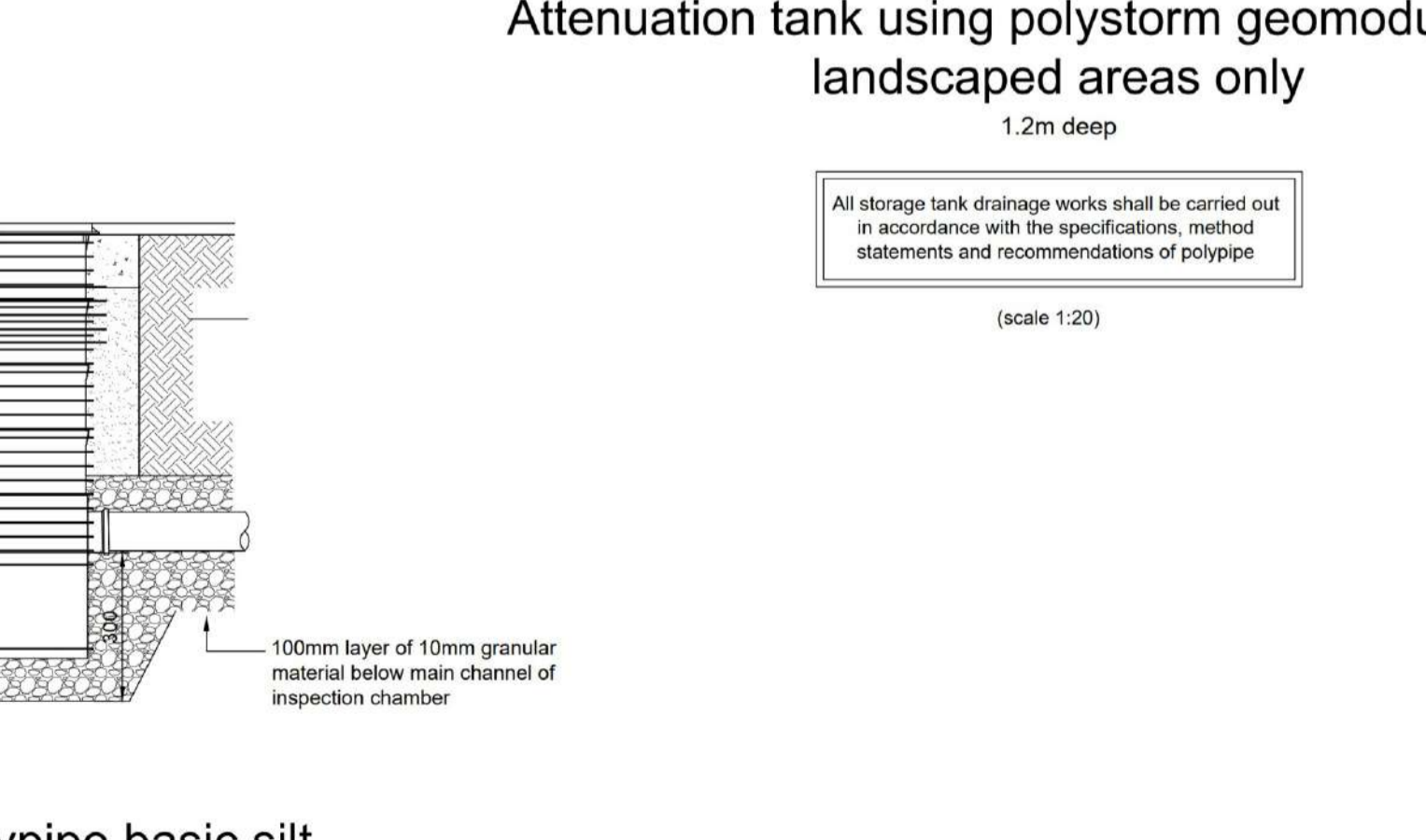
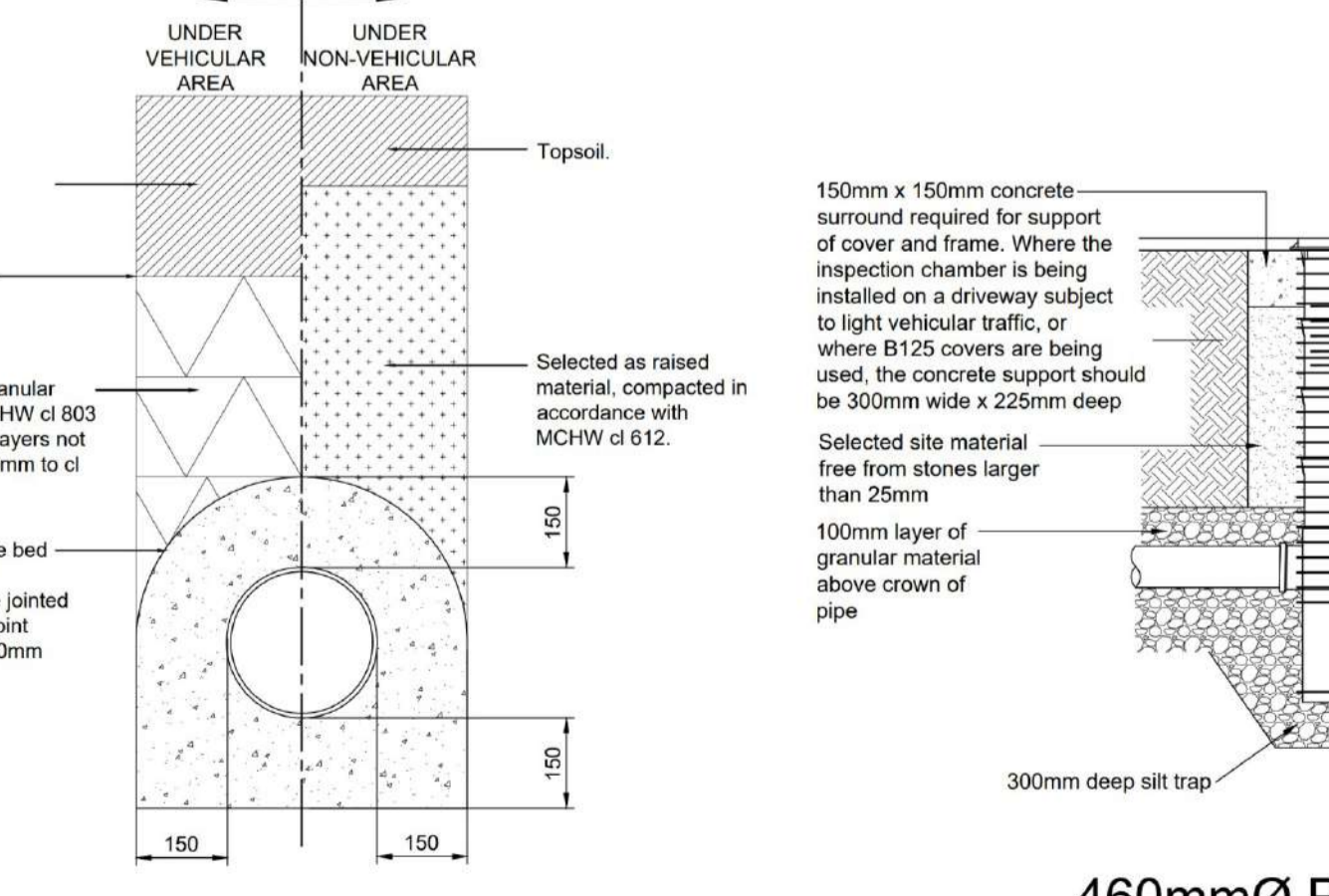
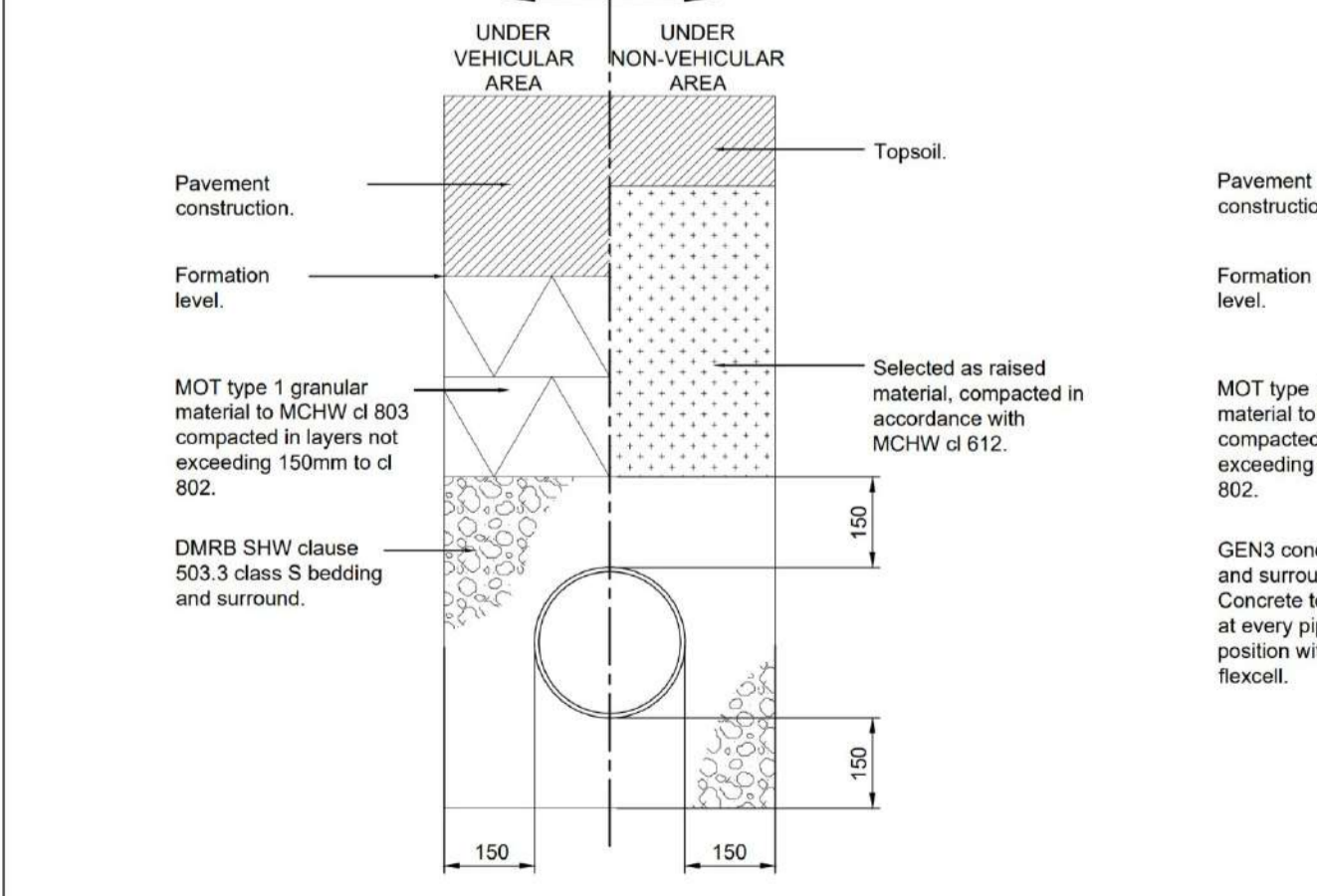
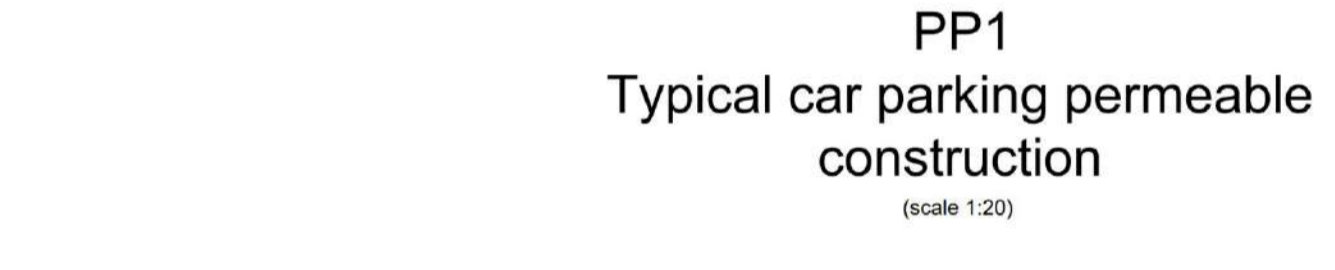
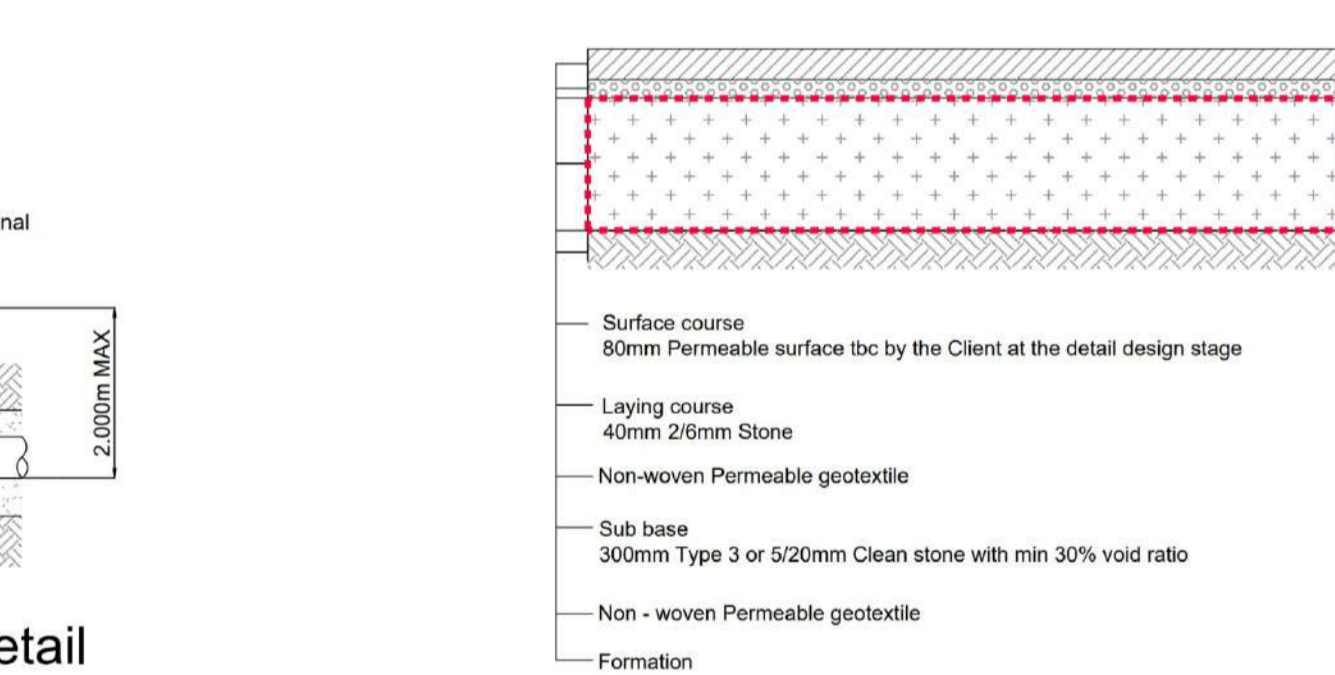
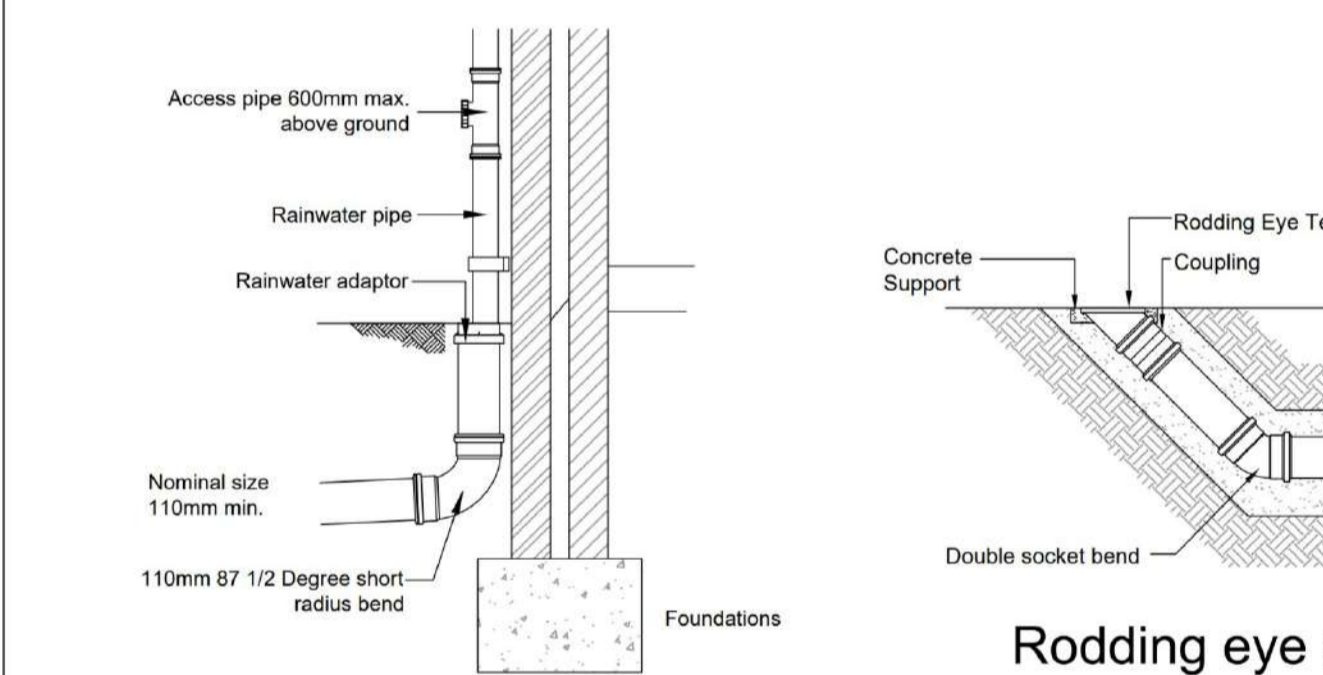
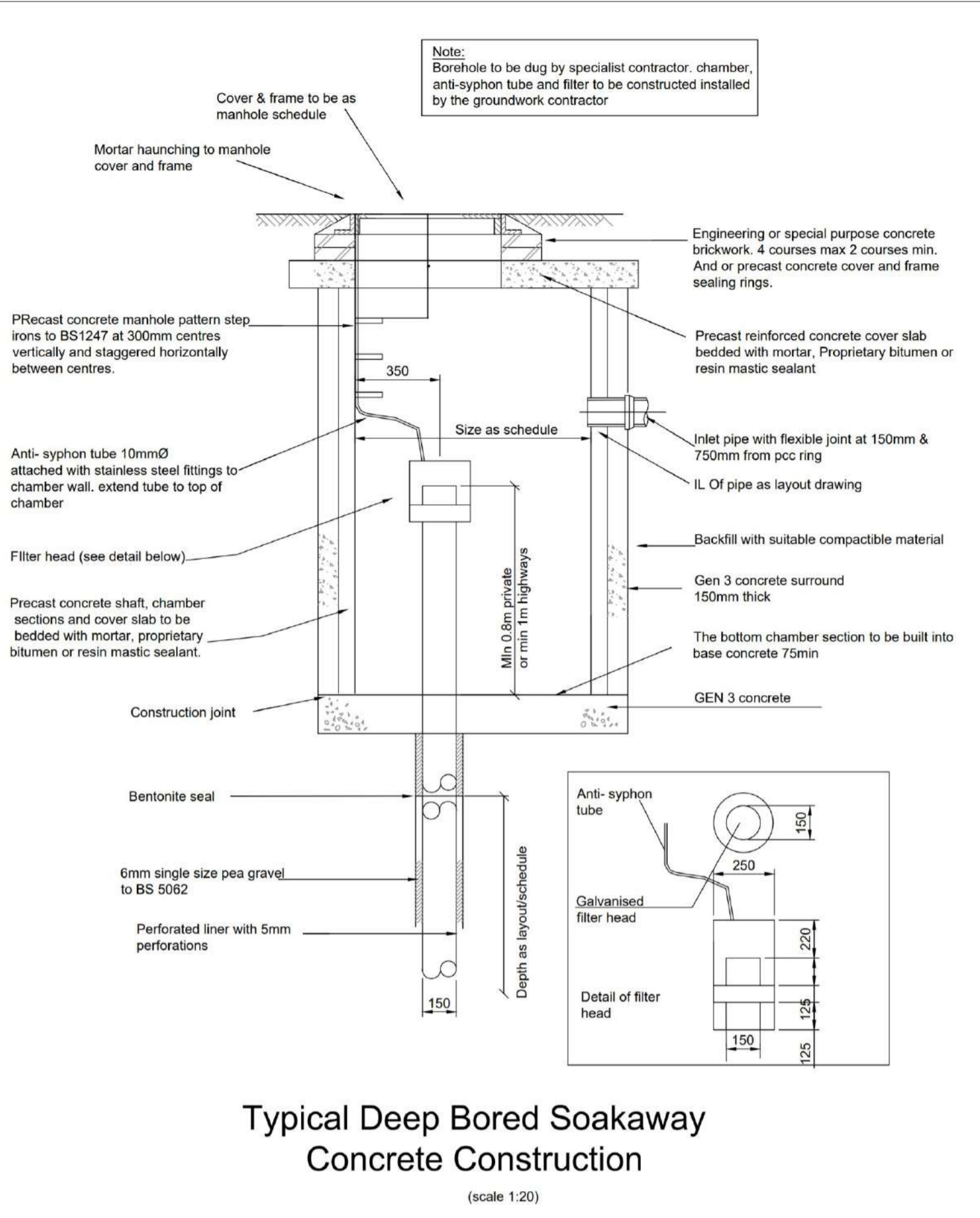
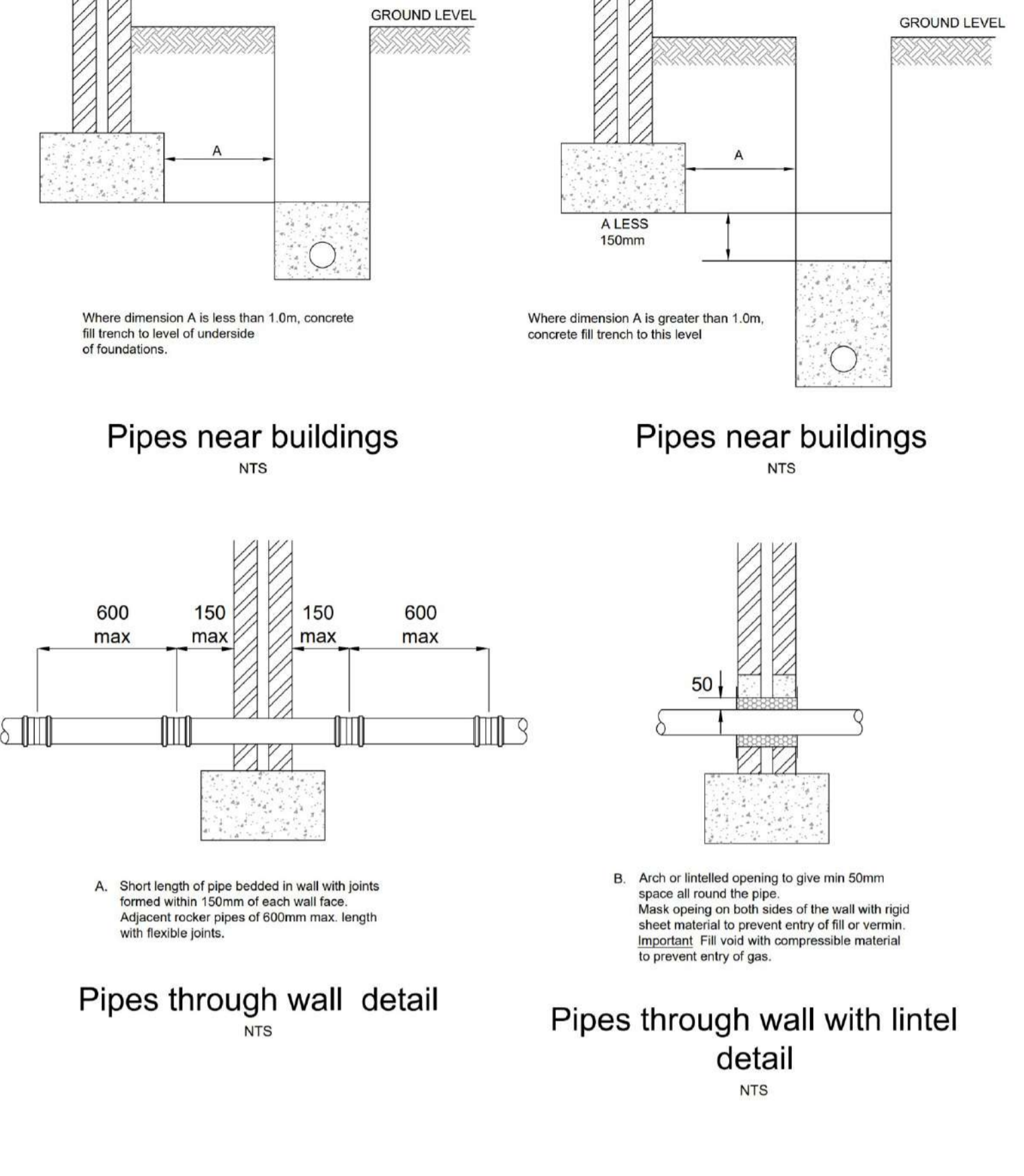


FIGURE B 21
TYPICAL BASE LAYOUTS FOR TYPE D CHAMBERS



APPROVED
ChrisSlade 27/02/2025 16:30

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P-	27.02.25	PRELIMINARY ISSUE	KCK	CS
REV	DATE	DESCRIPTION	BY	CHK/APP

cgscivils
Consulting Civil Engineers

CLIENT: SCOTT WELLER

ARCHITECT: RB DESIGN

JOB TITLE: 2 RESERVOIR PLACE, ASHURST RH19 3TB

DRAWING TITLE: PROPOSED TYPICAL CONSTRUCTION DETAILS

DRAWN: KCK	ENGINEER: TZ	CHECKED: CS	APPROVED: CS
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DATE: FEBRUARY 2025

SCALE: AS SHOWN

JOB No: C3547	STATUS: P	DRAWING No: 501	REV: P-
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Design Settings

Rainfall Methodology	FEH-22	Maximum Time of Concentration (mins)	30.00	Preferred Cover Depth (m)	1.200
Return Period (years)	2	Maximum Rainfall (mm/hr)	75.0	Include Intermediate Ground	✓
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00	Enforce best practice design rules	✓
CV	1.000	Connection Type	Level Soffits		
Time of Entry (mins)	4.00	Minimum Backdrop Height (m)	0.200		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
DBSA			140.500	1200	410.861	336.031	1.443
S1		4.00	140.500	450	409.123	326.820	0.621
S2	0.010	4.00	140.500	450	408.053	334.278	1.410
S3		4.00	140.500	450	396.122	342.178	0.597
PP1	0.010	4.00	140.500	450	404.740	338.242	0.420
ATT			140.500	450	406.779	337.847	1.400
S4	0.010	4.00	140.500	450	403.799	340.469	0.800

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
2.000	S1	S2	7.534	0.600	139.879	139.090	0.789	9.5	100	4.05	55.2
1.000	S3	S4	7.865	0.600	139.903	139.700	0.203	38.7	100	4.11	55.2
1.003	S2	DBSA	3.310	0.600	139.090	139.057	0.033	100.0	100	4.24	55.2
1.001	S4	ATT	3.969	0.600	139.700	139.500	0.200	19.8	100	4.14	55.2

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
2.000	2.516	19.8	0.0	0.521	1.310	0.000	0.0	0	0.000
1.000	1.242	9.8	0.0	0.497	0.700	0.000	0.0	0	0.000
1.003	0.769	6.0	4.0	1.310	1.343	0.020	0.0	59	0.819
1.001	1.741	13.7	2.0	0.700	0.900	0.010	0.0	26	1.251

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.002	ATT	S2	1.000	0.600	139.100	139.090	0.010	100.0	100	4.17	55.2








Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.002	0.769	6.0	2.0	1.300	1.310	0.010	0.0	39	0.689

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
2.000	7.534	9.5	100	Circular	140.500	139.879	0.521	140.500	139.090	1.310
1.000	7.865	38.7	100	Circular	140.500	139.903	0.497	140.500	139.700	0.700
1.003	3.310	100.0	100	Circular	140.500	139.090	1.310	140.500	139.057	1.343
1.001	3.969	19.8	100	Circular	140.500	139.700	0.700	140.500	139.500	0.900
1.002	1.000	100.0	100	Circular	140.500	139.100	1.300	140.500	139.090	1.310

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
2.000	S1	450	Manhole	Adoptable	S2	450	Manhole	Adoptable
1.000	S3	450	Manhole	Adoptable	S4	450	Manhole	Adoptable
1.003	S2	450	Manhole	Adoptable	DBSA	1200	Manhole	Adoptable
1.001	S4	450	Manhole	Adoptable	ATT	450	Manhole	Adoptable
1.002	ATT	450	Manhole	Adoptable	S2	450	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
DBSA	410.861	336.031	140.500	1.443	1200		1	1.003	139.057	100
S1	409.123	326.820	140.500	0.621	450		0	2.000	139.879	100
S2	408.053	334.278	140.500	1.410	450		1 2 0	2.000 1.002 1.003	139.090 139.090 139.090	100 100 100
S3	396.122	342.178	140.500	0.597	450		0	1.000	139.903	100
PP1	404.740	338.242	140.500	0.420	450					
ATT	406.779	337.847	140.500	1.400	450		1 0	1.001 1.002	139.500 139.100	100 100
S4	403.799	340.469	140.500	0.800	450		1 0	1.000 1.001	139.700 139.700	100 100

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Normal	Additional Storage (m ³ /ha)	0.0
Summer CV	1.000	Skip Steady State	x	Check Discharge Rate(s)	x
Winter CV	1.000	Drain Down Time (mins)	240	Check Discharge Volume	x

Storm Durations

15	30	60	120	180	240	360	480	600	720	960	1440
----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	------

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)	Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
10	0	0	0	100	0	0	0
30	0	0	0	100	45	0	0
30	40	0	0				

Node DBSA Deep Bore Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.25200	Porosity	1.00	Diameter (m)	1.200	Borehole Depth (m)	16.000
Side Inf Coefficient (m/hr)	0.25200	Invert Level (m)	138.500	Depth (m)	2.000	Inf Depth (m)	8.000
Safety Factor	2.0	Time to half empty (mins)	121	Borehole Diameter (m)	0.150	Number Required	1

Node PP1 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.00720	Porosity	0.30	Width (m)	10.000	Depth (m)	0.300
Side Inf Coefficient (m/hr)	0.00720	Invert Level (m)	140.080	Length (m)	10.000	Inf Depth (m)	
Safety Factor	2.0	Time to half empty (mins)	293	Slope (1:X)	9999.0		

Node ATT Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Pit Width (m)	3.000	Inf Depth (m)	
Side Inf Coefficient (m/hr)	0.00000	Invert Level (m)	139.100	Pit Length (m)	6.000	Number Required	1
Safety Factor	2.0	Time to half empty (mins)		Depth (m)	0.800		

Results for 10 year Critical Storm Duration. Lowest mass balance: 97.09%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
480 minute summer	DBSA	480	139.393	0.336	0.4	1.6762	0.0000	OK
15 minute summer	S1	1	139.879	0.000	0.0	0.0000	0.0000	OK
480 minute summer	S2	480	139.393	0.303	0.6	0.0482	0.0000	SURCHARGED
15 minute summer	S3	1	139.903	0.000	0.0	0.0000	0.0000	OK
480 minute summer	PP1	328	140.189	0.109	0.6	3.2737	0.0000	OK
480 minute summer	ATT	480	139.393	0.293	0.9	5.0578	0.0000	SURCHARGED
15 minute summer	S4	10	139.741	0.041	4.1	0.0065	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
480 minute summer	DBSA	Infiltration		0.1			
15 minute summer	S1	2.000	S2	0.0	0.000	0.000	0.0295
480 minute summer	S2	1.003	DBSA	0.4	0.418	0.062	0.0259
15 minute summer	S3	1.000	S4	0.0	0.000	0.000	0.0119
480 minute summer	PP1	Infiltration		0.1			
480 minute summer	ATT	1.002	S2	-0.3	0.242	-0.048	0.0078
15 minute summer	S4	1.001	ATT	4.1	1.433	0.300	0.0114

Results for 30 year Critical Storm Duration. Lowest mass balance: 97.09%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
720 minute summer	DBSA	720	139.510	0.453	0.2	1.9410	0.0000	OK
15 minute summer	S1	1	139.879	0.000	0.0	0.0000	0.0000	OK
720 minute summer	S2	720	139.510	0.420	0.6	0.0668	0.0000	SURCHARGED
15 minute summer	S3	1	139.903	0.000	0.0	0.0000	0.0000	OK
600 minute summer	PP1	420	140.222	0.142	0.7	4.2564	0.0000	OK
720 minute summer	ATT	720	139.510	0.410	0.9	7.0785	0.0000	SURCHARGED
15 minute summer	S4	10	139.749	0.049	5.4	0.0077	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
720 minute summer	DBSA	Infiltration		0.1			
15 minute summer	S1	2.000	S2	0.0	0.000	0.000	0.0295
720 minute summer	S2	1.003	DBSA	0.2	0.349	0.041	0.0259
15 minute summer	S3	1.000	S4	0.0	0.000	0.000	0.0148
600 minute summer	PP1	Infiltration		0.1			
720 minute summer	ATT	1.002	S2	-0.3	0.219	-0.048	0.0078
15 minute summer	S4	1.001	ATT	5.4	1.529	0.395	0.0140

Results for 30 year +40% CC Critical Storm Duration. Lowest mass balance: 97.09%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	DBSA	960	139.728	0.671	0.3	2.4334	0.0000	OK
15 minute summer	S1	1	139.879	0.000	0.0	0.0000	0.0000	OK
960 minute summer	S2	960	139.728	0.638	0.7	0.1014	0.0000	SURCHARGED
15 minute summer	S3	1	139.903	0.000	0.0	0.0000	0.0000	OK
360 minute winter	PP1	344	140.293	0.213	0.9	6.4008	0.0000	OK
960 minute summer	ATT	960	139.728	0.628	1.1	10.8350	0.0000	SURCHARGED
15 minute summer	S4	10	139.761	0.061	7.6	0.0097	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
960 minute summer	DBSA	Infiltration		0.1			
15 minute summer	S1	2.000	S2	0.0	0.000	0.000	0.0295
960 minute summer	S2	1.003	DBSA	0.3	0.349	0.045	0.0259
15 minute summer	S3	1.000	S4	0.0	0.000	0.000	0.0196
360 minute winter	PP1	Infiltration		0.1			
960 minute summer	ATT	1.002	S2	-0.4	0.219	-0.059	0.0078
15 minute summer	S4	1.001	ATT	7.6	1.644	0.556	0.0183

Results for 100 year Critical Storm Duration. Lowest mass balance: 97.09%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
960 minute summer	DBSA	960	139.677	0.620	0.2	2.3192	0.0000	OK
15 minute summer	S1	1	139.879	0.000	0.0	0.0000	0.0000	OK
960 minute summer	S2	960	139.677	0.587	0.6	0.0934	0.0000	SURCHARGED
15 minute summer	S3	1	139.903	0.000	0.0	0.0000	0.0000	OK
960 minute summer	PP1	645	140.264	0.184	0.6	5.5340	0.0000	OK
960 minute summer	ATT	960	139.677	0.577	0.9	9.9642	0.0000	SURCHARGED
15 minute summer	S4	10	139.756	0.056	6.8	0.0090	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
960 minute summer	DBSA	Infiltration		0.1			
15 minute summer	S1	2.000	S2	0.0	0.000	0.000	0.0295
960 minute summer	S2	1.003	DBSA	0.2	0.349	0.041	0.0259
15 minute summer	S3	1.000	S4	0.0	0.000	0.000	0.0179
960 minute summer	PP1	Infiltration		0.1			
960 minute summer	ATT	1.002	S2	-0.3	0.219	-0.048	0.0078
15 minute summer	S4	1.001	ATT	6.8	1.607	0.497	0.0168

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 97.09%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
1440 minute winter	DBSA	1380	140.256	1.199	0.2	3.6274	0.0000	OK
1440 minute winter	S1	1380	140.256	0.377	0.1	0.0599	0.0000	FLOOD RISK
1440 minute winter	S2	1380	140.256	1.166	0.4	0.1854	0.0000	FLOOD RISK
1440 minute winter	S3	1380	140.256	0.353	0.1	0.0561	0.0000	FLOOD RISK
480 minute winter	PP1	456	140.375	0.295	1.0	8.8781	0.0000	OK
1440 minute winter	ATT	1380	140.256	1.156	0.6	13.8723	0.0000	FLOOD RISK
1440 minute winter	S4	1380	140.256	0.556	0.4	0.0884	0.0000	FLOOD RISK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)
1440 minute winter	DBSA	Infiltration		0.1			
1440 minute winter	S1	2.000	S2	-0.1	-0.008	-0.003	0.0589
1440 minute winter	S2	1.003	DBSA	0.2	0.349	0.040	0.0259
1440 minute winter	S3	1.000	S4	-0.1	-0.010	-0.005	0.0615
480 minute winter	PP1	Infiltration		0.1			
1440 minute winter	ATT	1.002	S2	-0.2	0.219	-0.027	0.0078
1440 minute winter	S4	1.001	ATT	0.4	0.759	0.029	0.0311

7.5 **Appendix E – Maintenance Schedule**

Maintenance Schedule

2 Reservoir Place, Ashurst

For

Scott Weller

Rev - P

Reference **C3547**

Date **27th February 2025**

Revision	Date of Issue	Comments	Prepared By	Checked By
P	27/02/2025	Initial Issue	KCK	CS

Contents

1	MAINTENANCE.....	3
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1 Maintenance

1.1 Introduction

- 1.1.1 During construction, the Contractor will be responsible for maintaining the drainage and SuDS (Sustainable Drainage Systems). The occupier will take on the responsibility of these duties as laid out in this report.
- 1.1.2 The maintenance schedule for the proposed development will be split down into two separate categories; SuDS features and regular private drainage.

1.2 SuDS at 2 Reservoir Place, Ashurst

- 1.2.1 As listed above, in section 5.1.2, the SuDS features used on site will be **Attenuation Tank, Deep Bore Soakaway and Permeable Paving**.
- 1.2.2 The SuDS features have been designed for easy maintenance and comprise:
- Regular Day-to-Day care – litter collection, regular gardening to control vegetation growth and checking inlets where water enters the SuDS features
 - Occasional tasks – checking the SuDS features and removing any silt that builds up in the SuDS feature
 - Remedial work – repairing damage where necessary

1.3 SuDS Drainage Maintenance Specification

1.3.1 Attenuation Tank

In order to maintain the functioning of the attenuation tank, the following maintenance requirements should be adhered to:

Operation and maintenance requirements for soakaway		
Maintenance Schedule	Required Action	Typical Frequency
Regular Maintenance	Inspect and identify any areas that are not operating correctly. If required, take remedial action	Monthly for 3 months, then annually
	Remove debris from the catchment surface (where it may cause risks to performance)	Monthly
	For systems where rainfall infiltrates into the tank from above, check surface of filter for blockage by sediment, algae, or other matter; remove and replace surface infiltration medium as necessary.	Annually
	Remove sediment from per-treatment structures and/or internal forebays	Annually, or as required
Remedial Actions	Repair/rehabilitate inlets, outlet, overflows and vents	As required
Monitoring	Inspect/check all inlets, outlets, vents, and overflows to ensure that they are in good condition and operating as designed	Annually
	Survey inside of tank for sediment build-up and remove if necessary	Every 5 years or as required

1.3.2 Permeable Paving

In order to maintain the functioning of the permeable paving, the following maintenance requirements should be adhered to:

Table 21.3 Operation and maintenance requirements for permeable paving		
Maintenance Schedule	Required Action	Typical Frequency
Regular Maintenance	Brushing and vacuuming (standard cosmetic sweep over whole surface)	Once a year, after autumn leaf fall, or reduced frequency as required, based on site-specific observations of clogging or manufacturer's recommendations – pay particular attention to areas where water runs onto pervious surface from adjacent impermeable areas as this area is most likely to collect the most sediment
Occasional maintenance	Stabilise and mow contributing and adjacent areas	As required
	Removal of weeds or management using glyphosate applied directly into the weeds by an applicator rather than spraying	As required – once per year on less frequently used pavements
Remedial Actions	Remediate any landscaping which, through vegetation maintenance or soil slip, has been raised to within 50mm of level of the paving	As required
	Remedial work to any depressions, rutting and cracked or broken blocks considered detrimental to the structural performance or a hazard to users, and replace lost jointing material	As required
	Rehabilitation of surface and upper substructure by remedial sweeping	Every 10 to 15 years or as required (if infiltration performance is reduced due to significant clogging)
Monitoring	Initial inspection	Monthly for three months after installation
	Inspect for evidence of poor operation and/or weed growth – if required take remedial action	Three-monthly, 48h after large storms in first six months
	Inspect silt accumulation rate and establish appropriate brushing frequencies	Annually
	Monitor inspection chambers	Annually

1.4 General Drainage Maintenance Specification

1.4.1 Inlet Structures and Inspection Chambers

- Inlet structures such as rainwater downpipes, road gullies and channel drains should be free from obstruction at all times to allow free flow through the SuDS
- Inspection Chambers and Rodding Eyes are used on bends or where pipes come together. They allow access and cleaning to the system if necessary.

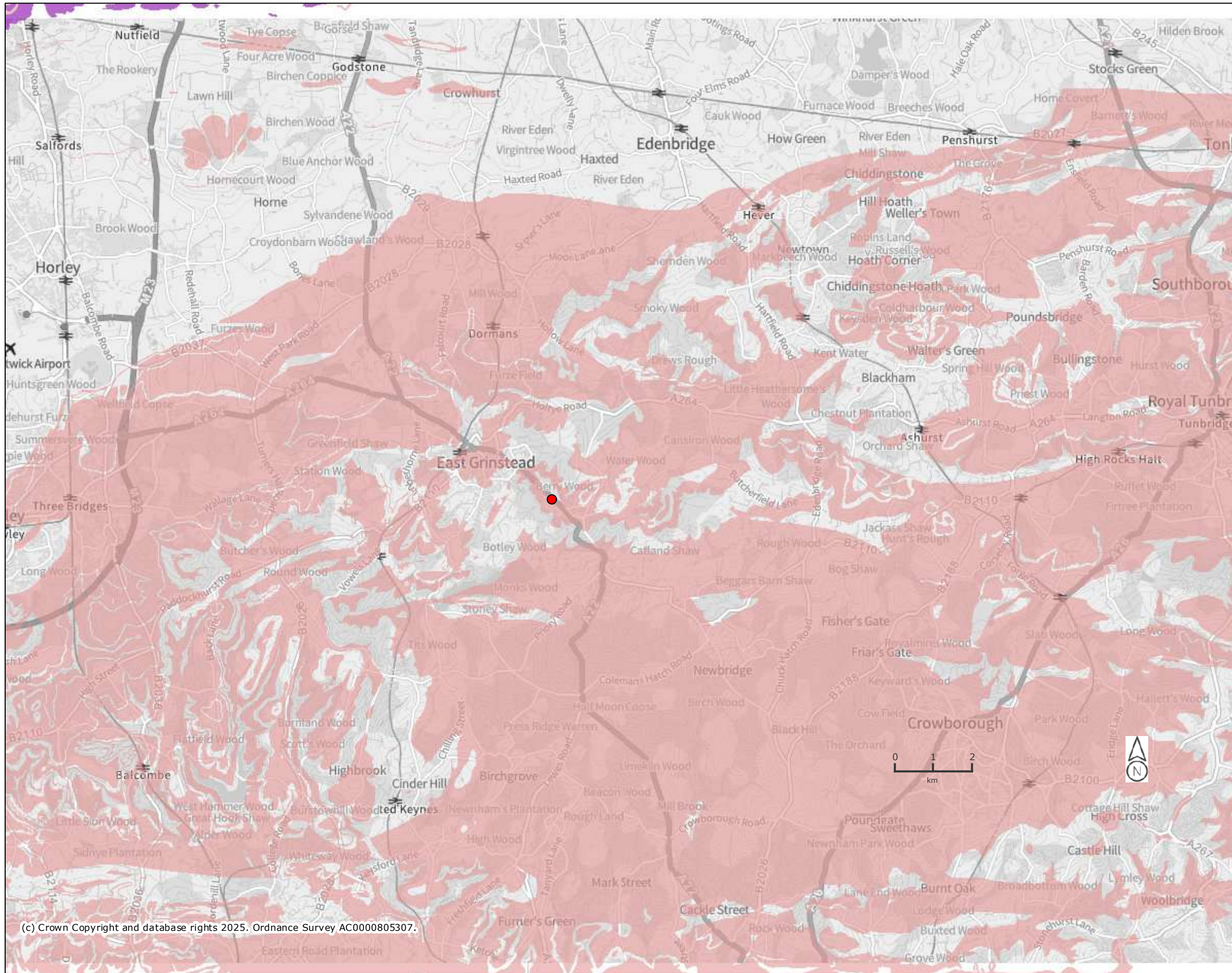
Inlet Structures and Inspection Chambers	
Regular Maintenance	Frequency
Inlet Structures Inspect rainwater downpipes, channel drains and road gullies, removing obstructions and silt as necessary. Check that there is no physical damage. Trim vegetation 1m min surround to structures and keep area free from silt and debris	Monthly
Inspection Chambers and below ground control chambers. Remove cover and inspect, ensuring that the water is flowing freely and that the exit route for water is unobstructed. Remove debris and silt. Undertake inspection after leaf fall in Autumn	Annually
Occasional Maintenance Check topsoil levels are 20mm above edges of chambers to avoid mower damage.	As necessary
Remedial Work Repair physical damage if necessary	As required

1.4.2 Below ground drainage pipes

- Below ground drainage pipes convey water to the SuDS system. They should always be free from obstruction to allow free flow.

Below Ground Drainage Pipes	
Regular Maintenance	Frequency
Inspect and identify any areas that are not operating correctly. If required, take remedial action.	Monthly for 3 months then annually
Remove debris from the catchment surface (where it may cause risks to performance)	Monthly
Remove sediment from pre-treatment inlet structures and inspection chambers.	Annually or as required
Maintain vegetation to designed limits within the vicinity of below ground drainage pipes and tanks.	Monthly or as required
Remedial Work	
Repair physical damage if necessary	As required
Monitoring	
Inspect all inlets, outlets and vents to ensure that they are in good conditions and operating as designed.	Annually
Survey inside of pipe runs for sediment build up and remove if necessary.	Every 5 years or as required

7.6 **Appendix F – EA Magic Maps**



Legend
Aquifer Designation
Map (Bedrock)
(England)

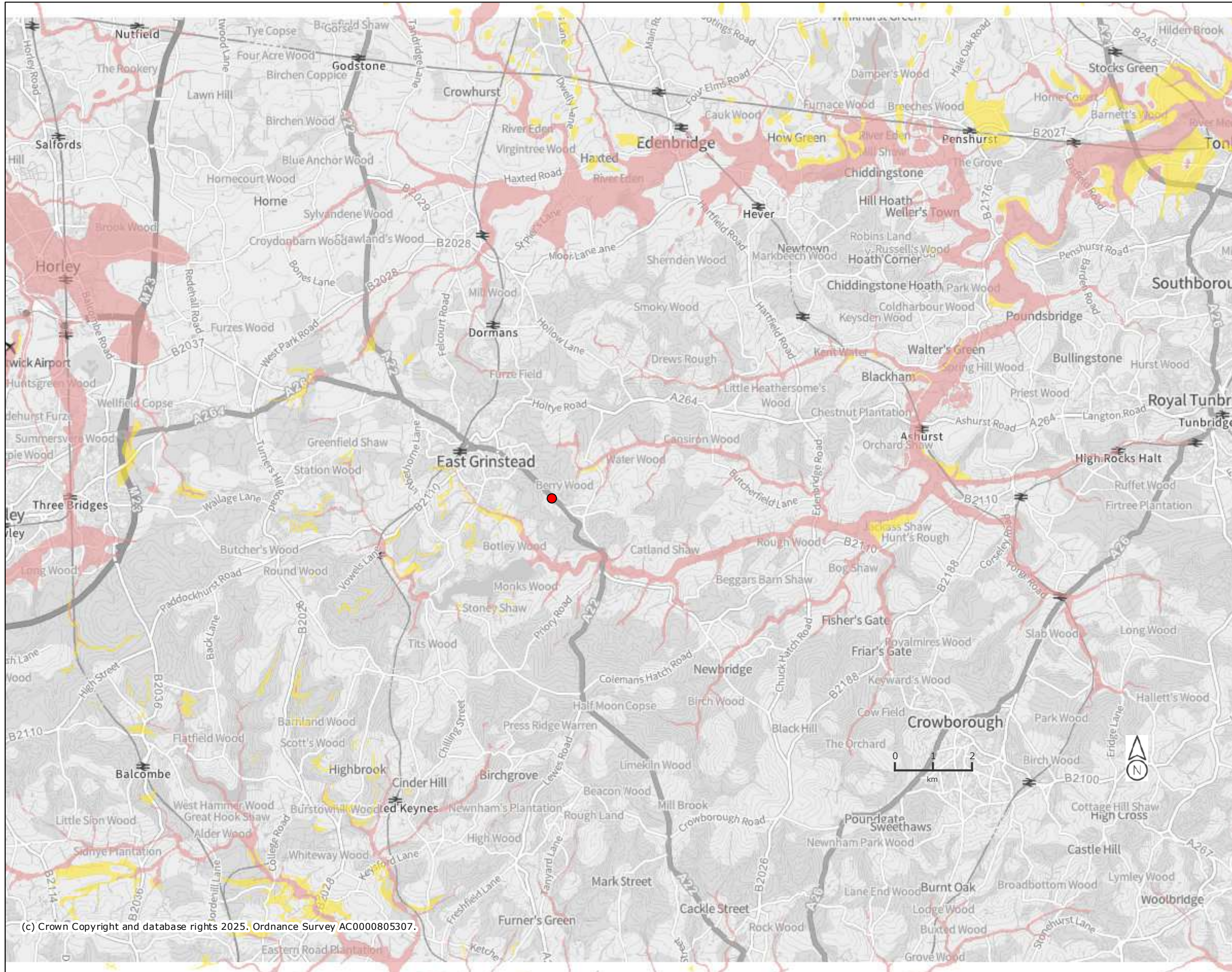
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- Secondary A
- Secondary B
- Secondary (undifferentiated)
- Unproductive

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 ymax = 149400



Map produced by MAGiC on 31 January, 2025.
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Aquifer Designation Map (Superficial Drift) (England)



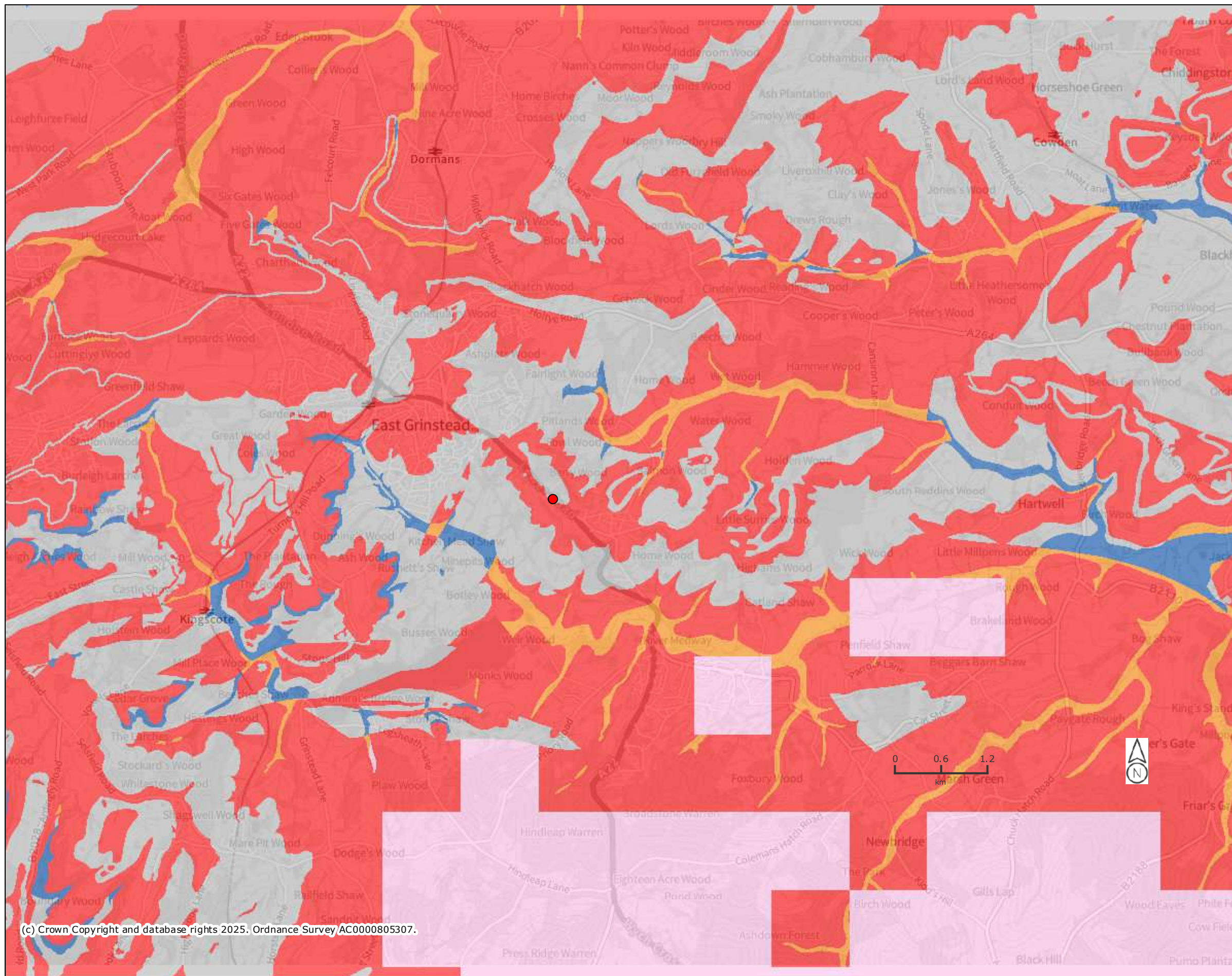
Legend Aquifer Designation Map (Superficial Drift) (England)

- Principal
- Secondary A
- Secondary B
- Secondary (undifferentiated)
- Unknown (lakes+landslip)
- Unproductive









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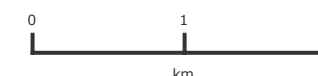
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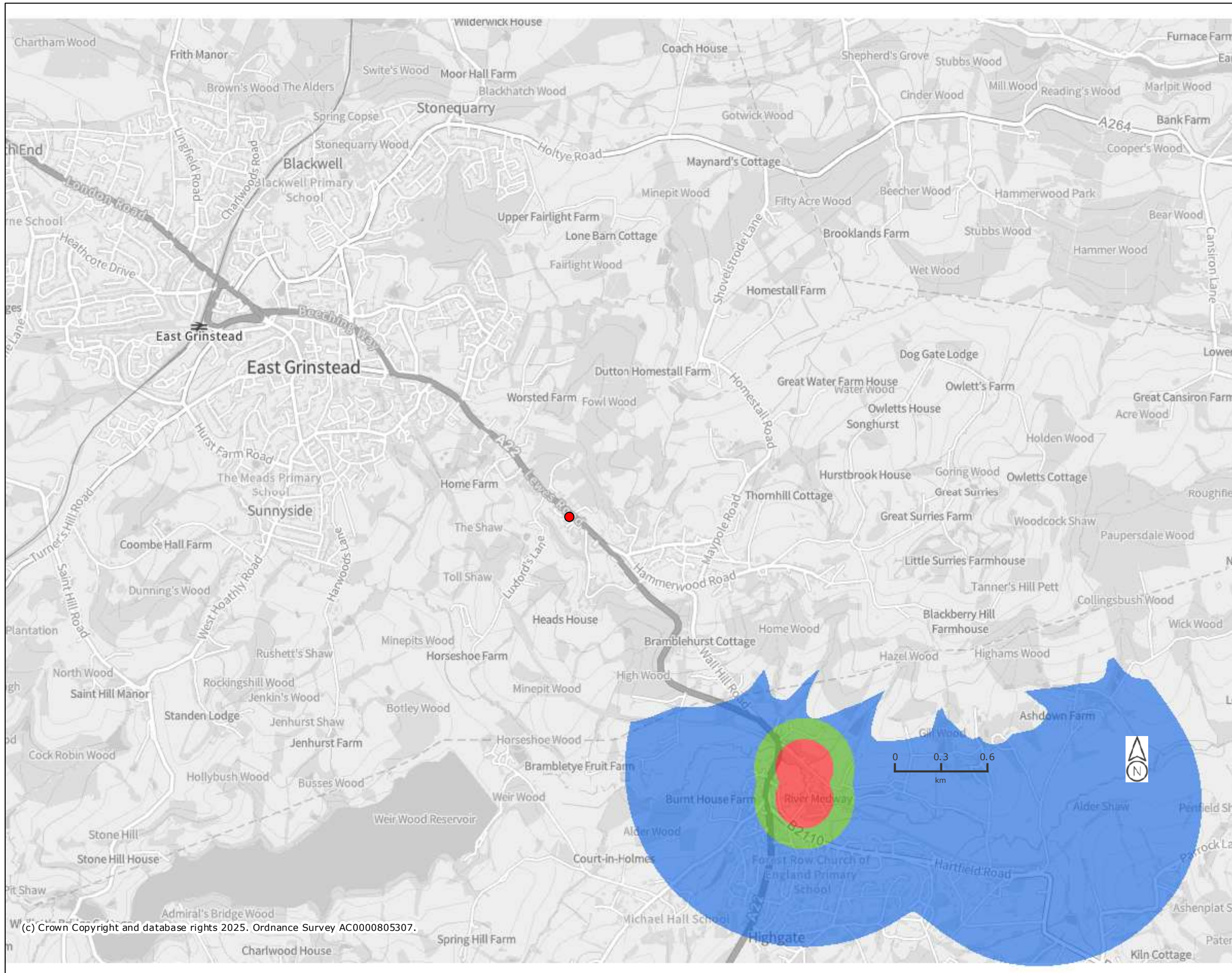
Legend
Groundwater Vulnerability Map (England)

-  Local Information
-  Soluble Rock Risk
-  High
-  Medium - High
-  Medium
-  Medium - Low
-  Low
-  Unproductive

Projection = OSGB36
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 ymax = 143200



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Legend

Source Protection Zones merged (England)

- Zone I - Inner Protection Zone
- Zone I - Subsurface Activity
- Zone II - Outer Protection Zone
- Zone II - Subsurface Activity
- Zone III - Total Catchment
- Zone III - Subsurface Activity
- Zone of Special Interest



Projection = OSGB36
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