

Drainage Verification Report

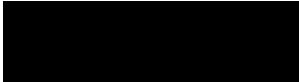
Barnfield House, Arundel Road, Fontwell BN18 0SD

Planning Ref: WA/80/22/PL

Rev: **PI**

Ref: **C2911**

CGS Civils Ltd
Richard Cobden House
Lion Street
Chichester
West Sussex
PO19 1LW



Document Control

Project Number	C2911		
Date	26 th September 2025	Revision	PI
Author	LH	Signature	

Revision History

Date	Revision	Author	Approved
26 th September 2025	PI	LH	CS

I Introduction

- 1.1.1 CGS Civils Ltd has been appointed to undertake a drainage verification report to confirm that the 'as-built' surface water drainage for the above development has been installed as per the agreed plans and that it functions adequately.
- 1.1.2 This report will look at the drainage that has been installed whilst highlighting any deviations from the approved planning drawings. The deviations will be investigated to confirm if they affect how the drainage network will function. This report will be used to clear condition 9 of the planning conditions. The exact wording of this condition is noted below:

Fig I. Planning condition 9

- 9 Immediately following implementation of the approved surface water drainage system and prior to occupation of any part of the development, the developer/applicant shall provide the local planning authority with as-built drawings of the implemented scheme together with a completion report prepared by an independent engineer that confirms that the scheme was built in accordance with the approved drawing/s and is fit for purpose. The scheme shall thereafter be maintained in perpetuity.

Reason: To ensure that the proposed development is satisfactorily drained and in accordance with policies W SP1, W DM1, W DM2 and W DM3 of the Arun Local Plan, and policy VE7 of the Walberton Neighbourhood Development Plan.

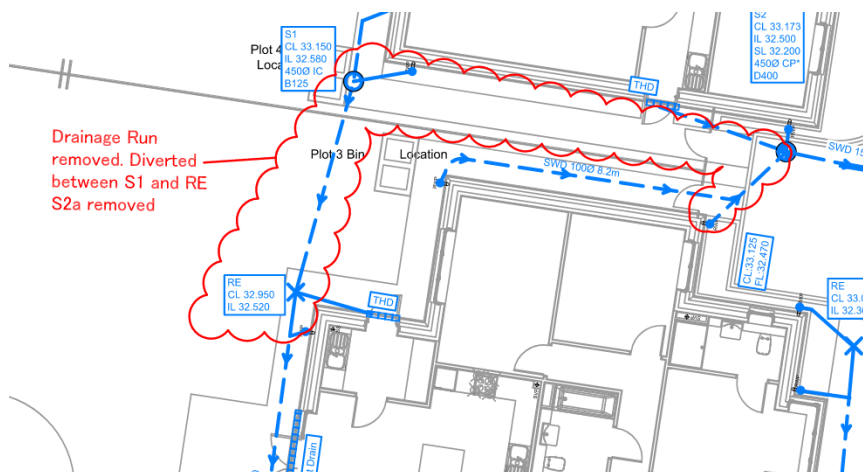
2 Information Verified

- 2.1.1 To undertake a meaningful assessment of the drainage system, it has been necessary to obtain, review and verify the following:
- i. Full CCTV drainage survey of the 'as built' surface water system.
 - ii. Photographs of:
 - Permavoid installation
 - Permeable Paving installation
 - Concrete dam installation
 - Chambers and pipes for Surface water
 - Flow control chamber – S14 & S18

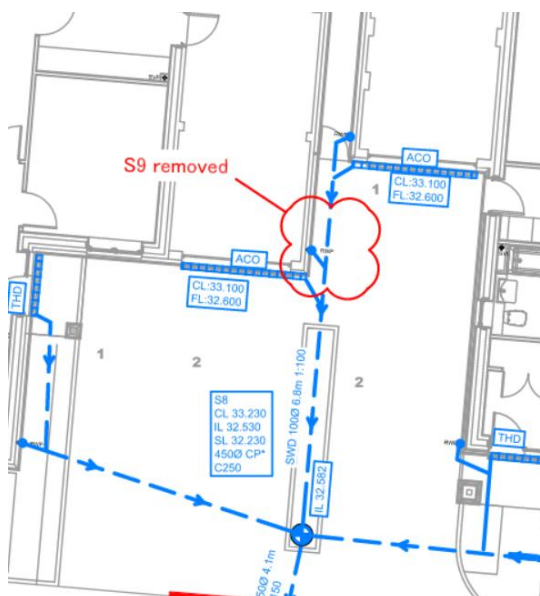
3 CCTV Drainage Survey

- | | |
|-------|--|
| 3.1.1 | An initial drainage CCTV survey was undertaken in June 2025 of the 'as built' surface water drainage system. The CCTV survey confirmed that the majority of the system was generally in good working order however the survey did note some issues within the network. |
| 3.1.2 | The CCTV Drainage survey identified debris within the system and noted some structural damage within the pipework. |
| 3.1.3 | The CCTV Drainage survey also noted that the following chambers had not been installed, and the drainage runs deviate from the approved drainage layout:

- SI - S2a: |



- S9



- 3.1.4 These changes have been highlighted by the survey company, and a copy of the revised plans can be found within **Appendix C**
- 3.1.5 Remedial works were undertaken following on from the recommendations of the initial CCTV survey and a secondary CCTV drainage survey was conducted in September 2025 which confirms that all works were undertaken satisfactorily, and that the system is clear of debris and is structurally sound. A copy of this report can be found in **Appendix A**.

4 Installed Drainage

4.1 The installation of the drainage is well documented, and all of the drainage features have been installed in accordance with the approved designs and as per the manufacturer's specifications. This section will be sub-divided into the following categories:

- Permavoid installation
- Permeable Paving installation
- Concrete dam installation
- Chambers and pipes for Surface water
- Flow control chamber – S14 & S18

4.2 The proposed drainage network utilises Permavoid crates to provide additional storage. A review of the installation photographs confirms that the Permavoid system has been installed correctly using the clips and it is wrapped in a permeable geotextile allowing infiltration into ground as designed.

Fig 2. Installation of permavoids



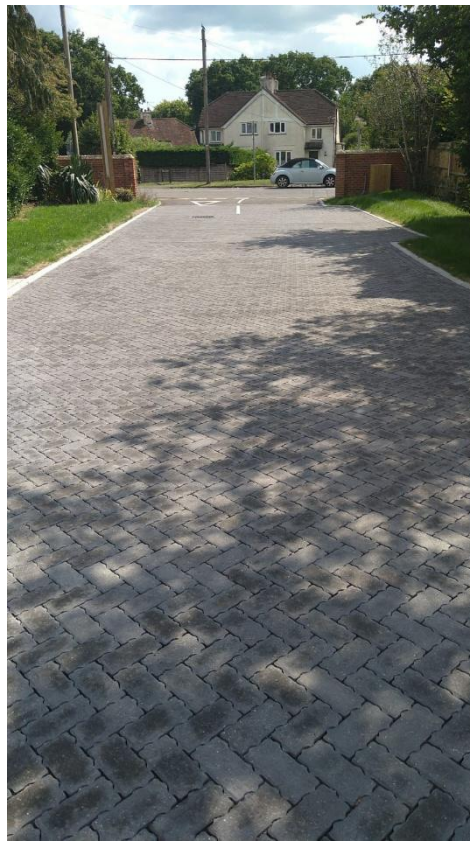
- 4.3 The main SuDS feature on this site is the permeable paved area; the site photographs of the installation of the permeable paved areas confirm the correct installation of a permeable sub-base using the specified aggregate and grading alongside the installation of the correct non-woven geotextile. It is clear that the base course has also been core drilled as per the proposed construction details.

Fig 3. Permeable Parking Areas



4.4 The following photographs are of the as constructed permeable parking areas the day following heavy downpour:

Fig 4. Permeable Parking Areas Cont.



- 4.5 It was proposed that concrete dams were installed within the access road of the site to allow as much storage as possible with the sub-base of the paving. The photographs indicate that this was installed within the access road as per the design.

Fig 5. Concrete Dam



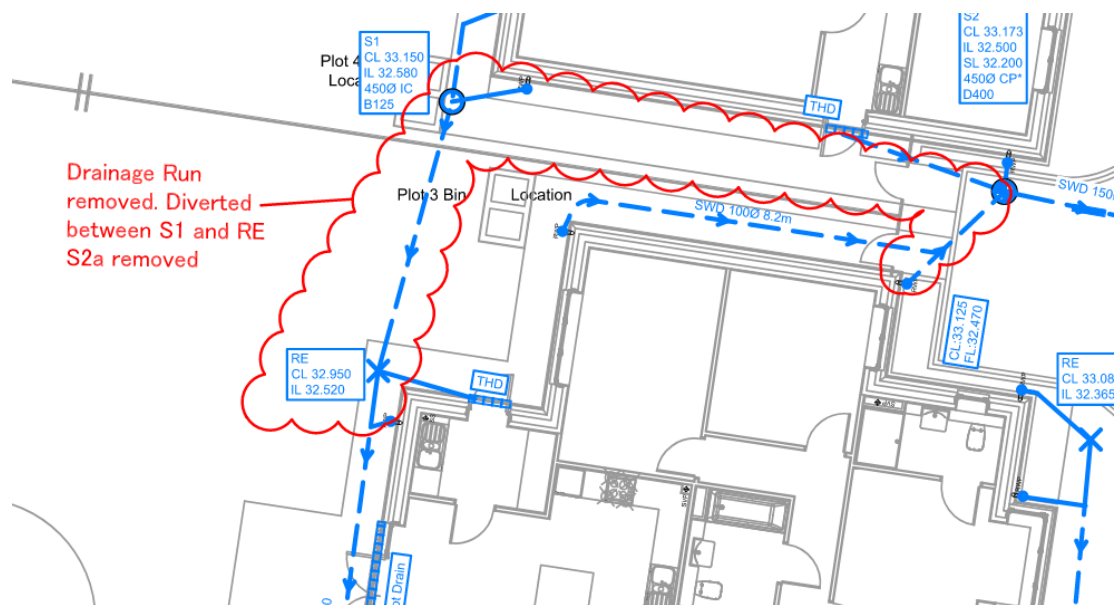
- 4.6 This section will look at the installed chambers on site, in particular, the orifice flow control chambers that are proposed at the gravel trenches. The chambers looked to be installed correctly, and the drainage runs incoming align with what was on the proposed drainage layout.

Fig 6. Surface water inspection chambers



5 Discrepancies

- 5.1 There are a few discrepancies between the approved drainage design and the drainage network that was installed on site. A copy of the annotated plan from the CCTV Surveyors will be supplied within **Appendix B**.
1. Chambers S1, S2a and S9 have not been installed on site with the associated drainage making the same connection downstream apart from S1 which has been diverted into the rodding eye which then discharges into S12. It should be noted that this has no impact on the effectiveness of the drainage network as the changes are minor.



6 Conclusion and Recommendations

- 6.1 A phase I drainage verification report was undertaken for the surface water drainage for the site at Barnfield House in Fontwell.
- 6.2 An 'as built' CCTV survey was completed in June 2025 which identified that the system is in good working order, however, debris was noted within the system in addition to structural damage to some of the pipework.
- 6.3 A secondary CCTV survey was completed in September 2025 which confirms that remedial works were carried out and that the system is now free from debris and is structurally sound.
- 6.4 Some discrepancies between the proposed plans and the final installed drainage were identified; however, these changes will have negligible impact on the effectiveness of the drainage network.
- 6.5 The SuDS features appear to be in good working order, with the permeable areas being dry and free of any standing water following a heavy downpour the night prior. The drainage runs were noted to be clear with no standing water or debris confirming that the network is working as intended.

7 Appendices

7.1 Appendix A:

Second CCTV Drainage Survey Report



Project

Project Name: Amiri Homes, Barnfield House, Fontwell
Project Description: SURFACE WATER SURVEY TO SOAK-A-WAY TANKS
Project Number: 696
Project Status: Complete
Project Date: 11/07/2025
Inspection Standard: MSCC5 Sewers & Drainage GB (SRM5 Scoring)



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Amiri Homes, Barnfield House, Fontwell	696	11/07/2025

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Project Information**Project Name**
Amiri Homes, Barnfield House, Fontwell**Project Number**
696**Project Date**
11/07/2025**Client**

Company: Amiri Construction
Description: Construction Company
Department: Drainage Adoptions
Street: Eagle Point, Little Park Farm Rd
Town or City: Fareham
County: Hampshire
Post Code: PO15 5TD
Phone: [REDACTED]
Email: [REDACTED]

**Contractor**

Company: All Round Plant
Description: Civil Engineering
Contact: Wayne Skinner
Department: Jetting & Cctv
Street: Unit 1, Riverside Industrial Park, Coneger Road
Town or City: Eastleigh, Southampton
County: Hampshire
Post Code: SO50 6JQ
Phone: [REDACTED]
Fax: [REDACTED]
Email: [REDACTED]



Project Information

Project Name	Project Number	Project Date
Amiri Homes, Barnfield House, Fontwell	696	11/07/2025

Project Notes

MANHOLES NOT INSTALLED FOR OPERATIONAL REASONS -
S1
S2a
S9.

DRAIN LAYOUT CHANGES AMMENDED ON DRAWINGS.

Section Profile

Project Name
Amiri Homes, Barnfield House, Fontwell

Project Number
696

Project Date
11/07/2025

Circular, 100 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
1	PLOT 4	S3	16/07/2025	ARUNDEL ROAD	Polyvinyl chloride	8.55 m	8.55 m
2	S3	DT TANK1	16/07/2025	ARUNDEL ROAD	Polyvinyl chloride	4.20 m	4.20 m
3	S2	DT TANK2	16/07/2025	ARUNDEL ROAD	Polyvinyl chloride	8.15 m	8.15 m
4	S11	DT TANK3	16/07/2025	ARUNDEL ROAD	Polyvinyl chloride	4.85 m	4.85 m
5	PLOT4 REAR	S12	16/07/2025	ARUNDEL ROAD	Polyvinyl chloride	28.90 m	28.90 m
6	S12	S11	16/07/2025	ARUNDEL ROAD	Polyvinyl chloride	14.25 m	14.25 m
7	S6	DT TANK4	16/07/2025	ARUNDEL ROAD	Polyvinyl chloride	14.70 m	14.70 m
8	S10	DT TANK5	16/07/2025	ARUNDEL ROAD	Polyvinyl chloride	3.35 m	3.35 m
9	S8	DT TANK6	16/07/2025	ARUNDEL ROAD	Polyvinyl chloride	5.00 m	5.00 m
10	S7	DT TANK7	16/07/2025	ARUNDEL ROAD	Polyvinyl chloride	6.46 m	6.46 m
12	PLOT7 REAR	S5	16/07/2025	ARUNDEL ROAD	Polyvinyl chloride	13.55 m	13.55 m
13	S4	S6	16/07/2025	ARUNDEL ROAD	Polyvinyl chloride	15.55 m	15.55 m
14	PLOT 8	S10	16/07/2025	ARUNDEL ROAD	Polyvinyl chloride	29.15 m	29.15 m
15	S17	DT TANK8	16/07/2025	ARUNDEL ROAD	Polyvinyl chloride	4.35 m	4.35 m
16	S16	DT TANK9	16/07/2025	ARUNDEL ROAD	Polyvinyl chloride	3.65 m	3.65 m
17	S15	S16	16/07/2025	ARUNDEL ROAD	Polyvinyl chloride	6.55 m	6.55 m
18	PLOT2 REAR	S19	16/07/2025	ARUNDEL ROAD	Other material	11.00 m	11.00 m
19	S19	S19a	16/07/2025	ARUNDEL ROAD	Other material	8.15 m	8.15 m
20	S19a	S18	16/07/2025	ARUNDEL ROAD	Other material	12.70 m	12.70 m
21	S18	S17	16/07/2025	ARUNDEL ROAD	Polyvinyl chloride	8.88 m	8.88 m
25	S20	S21	16/07/2025	ARUNDEL ROAD	Polyvinyl chloride	16.60 m	16.60 m
26	PLOT 10	S21	16/07/2025	ARUNDEL ROAD	Polyvinyl chloride	12.40 m	12.40 m
27	S21	DT TANK11	16/07/2025	ARUNDEL ROAD	Polyvinyl chloride	4.15 m	4.15 m

Total: 23 Inspections x Circular 100 mm = 245.09 m Total Length and 245.09 m Inspected Length

Circular, 150 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
11	S5	S4	16/07/2025	ARUNDEL ROAD	Polyvinyl chloride	25.90 m	25.90 m
22	S14	DT TANK10	16/07/2025	ARUNDEL ROAD	Polyvinyl chloride	2.50 m	2.50 m
23	S13	S14	16/07/2025	ARUNDEL ROAD	Other material	17.25 m	17.25 m
24	PLOT8 REAR	S13	16/07/2025	ARUNDEL ROAD	Other material	6.35 m	6.35 m

Total: 4 Inspections x Circular 150 mm = 52.00 m Total Length and 52.00 m Inspected Length

Total: 27 Inspections = 297.09 m Total Length and 297.09 m Inspected Length

Section Inspection - 16/07/2025 - PLOT 4X

Item No. 1	Insp. No. 1	Date 16/07/25	Time 8:24	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR PLOT 4X
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Upstream	Upstream Node:	PLOT 4
Road:	Arundel Road	Inspected Length:	8.55 m	Upstream Pipe Depth:	
Location:		Total Length:	8.55 m	Downstream Node:	S3
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:		Material:	Polyvinyl chloride		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:74	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S3 0.00 CP Start node, catchpit, reference: S3 2.60 JN Junction at 3 o'clock, 100mm dia, from RWP 8.10 JN Junction at 9 o'clock, 100mm dia, from RWP 8.55 REF Finish node, rodding eye, reference: PLOT 4 PLOT 4 Depth: m							

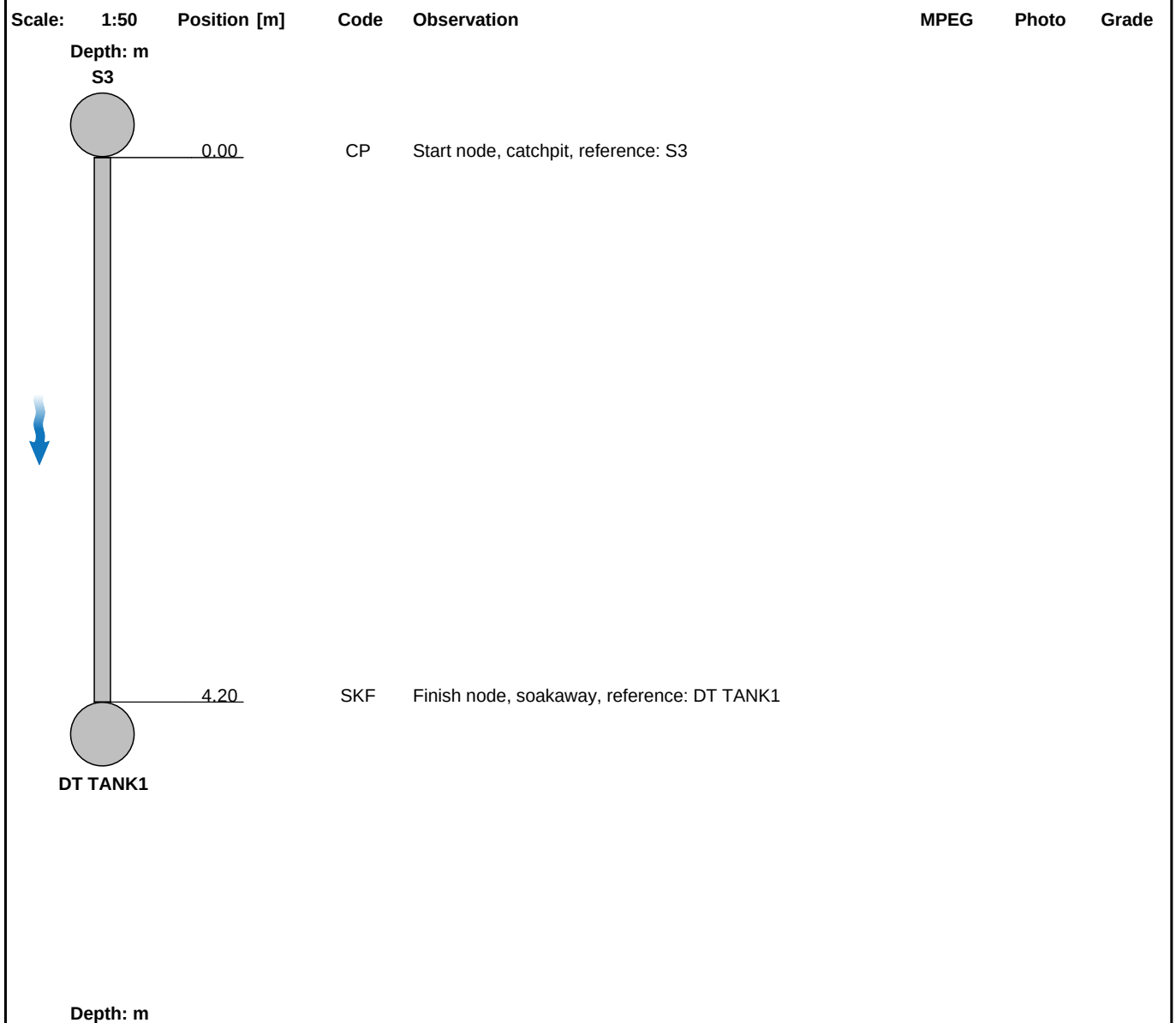
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Structural Defects					Service & Operational Observations				
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Section Inspection - 16/07/2025 - S3X

Item No. 2	Insp. No. 1	Date 16/07/25	Time 8:29	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR S3X
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Downstream	Upstream Node:	S3
Road:	Arundel Road	Inspected Length:	4.20 m	Upstream Pipe Depth:	
Location:		Total Length:	4.20 m	Downstream Node:	DT TANK1
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:		Material:	Polyvinyl chloride		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	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
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Section Inspection - 16/07/2025 - S2X

Item No. 3	Insp. No. 1	Date 16/07/25	Time 8:34	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR S2X
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Downstream	Upstream Node:	S2
Road:	Arundel Road	Inspected Length:	8.15 m	Upstream Pipe Depth:	
Location:		Total Length:	8.15 m	Downstream Node:	DT TANK2
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:		Material:	Polyvinyl chloride		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:71	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S2 0.00 CP Start node, catchpit, reference: S2 1.55 JN Junction at 12 o'clock, 100mm dia, from RWP 8.15 SKF Finish node, soakaway, reference: DT TANK2 DT TANK2 Depth: m							

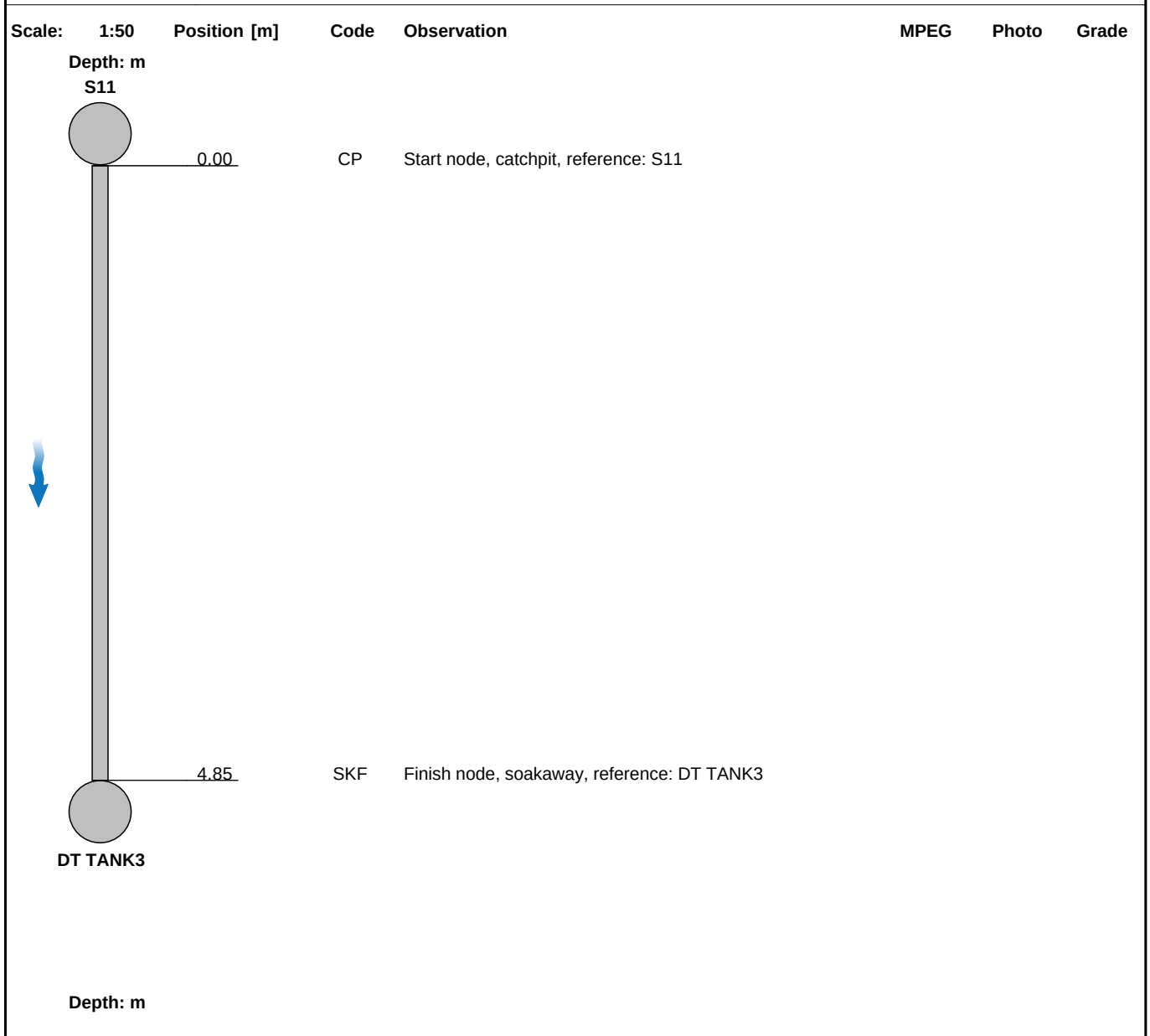
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Structural Defects					Service & Operational Observations				
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Section Inspection - 16/07/2025 - S11X

Item No. 4	Insp. No. 1	Date 16/07/25	Time 8:36	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR S11X
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Downstream	Upstream Node:	S11
Road:	Arundel Road	Inspected Length:	4.85 m	Upstream Pipe Depth:	
Location:		Total Length:	4.85 m	Downstream Node:	DT TANK3
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:		Material:	Polyvinyl chloride		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	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
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Recommendations:

Section Inspection - 16/07/2025 - S12X

Item No. 6	Insp. No. 1	Date 16/07/25	Time 8:42	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR S12X
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Downstream	Upstream Node:	S12
Road:	Arundel Road	Inspected Length:	14.25 m	Upstream Pipe Depth:	
Location:		Total Length:	14.25 m	Downstream Node:	S11
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:		Material:	Polyvinyl chloride		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale: 1:123	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S12						
	0.00	IC	Start node, inspection chamber, reference: S12			
	3.95	JN	Junction at 9 o'clock, 100mm dia			
	10.75	JN	Junction at 9 o'clock, 100mm dia			
	14.25	CPF	Finish node, catchpit, reference: S11			
Depth: m S11						

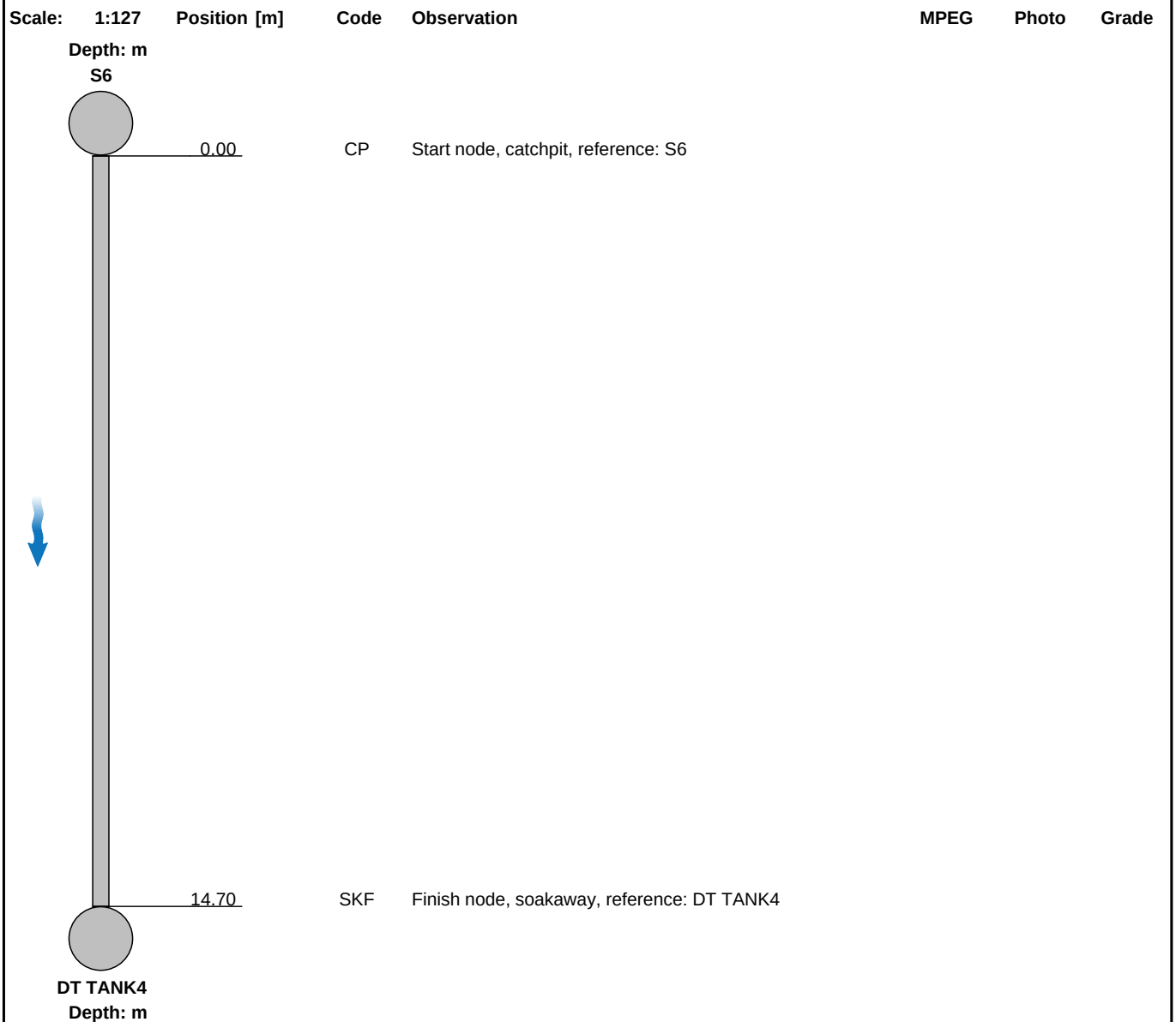
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
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Section Inspection - 16/07/2025 - S6X

Item No. 7	Insp. No. 1	Date 16/07/25	Time 8:43	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR S6X
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Downstream	Upstream Node:	S6
Road:	Arundel Road	Inspected Length:	14.70 m	Upstream Pipe Depth:	
Location:		Total Length:	14.70 m	Downstream Node:	DT TANK4
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:		Material:	Polyvinyl chloride		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:



Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
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Section Inspection - 16/07/2025 - S10X

Item No. 8	Insp. No. 1	Date 16/07/25	Time 8:44	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR S10X
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Downstream	Upstream Node:	S10
Road:	Arundel Road	Inspected Length:	3.35 m	Upstream Pipe Depth:	
Location:		Total Length:	3.35 m	Downstream Node:	DT TANK5
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:		Material:	Polyvinyl chloride		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S10 0.00 CP Start node, catchpit, reference: S10 3.35 SKF Finish node, soakaway, reference: DT TANK5 DT TANK5 Depth: m							

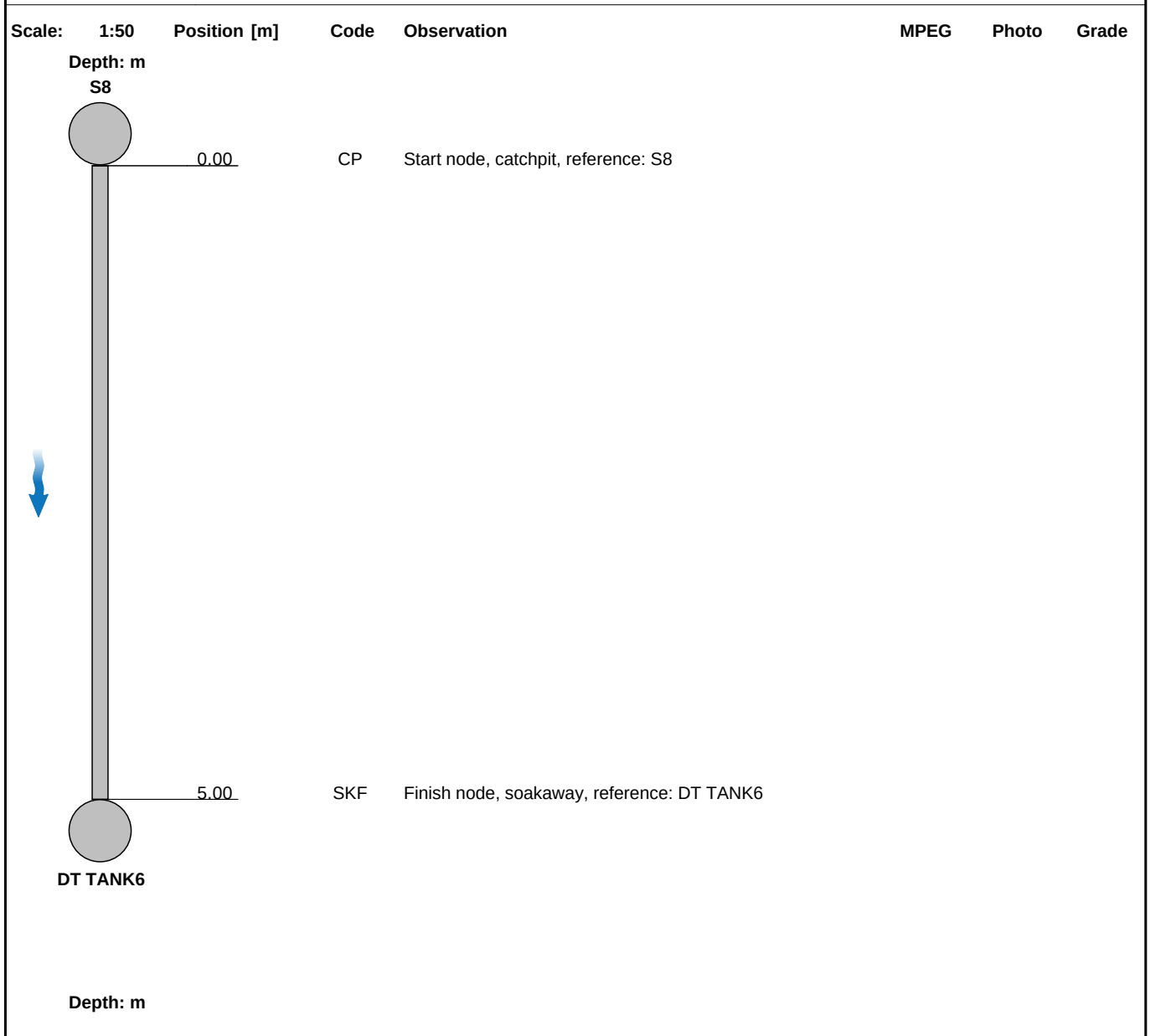
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
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Section Inspection - 16/07/2025 - S8X

Item No. 9	Insp. No. 1	Date 16/07/25	Time 8:52	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR S8X
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Downstream	Upstream Node:	S8
Road:	Arundel Road	Inspected Length:	5.00 m	Upstream Pipe Depth:	
Location:		Total Length:	5.00 m	Downstream Node:	DT TANK6
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:		Material:	Polyvinyl chloride		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	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 Inspection - 16/07/2025 - S7X

Item No. 10	Insp. No. 1	Date 16/07/25	Time 8:55	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR S7X
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Downstream	Upstream Node:	S7
Road:	Arundel Road	Inspected Length:	6.46 m	Upstream Pipe Depth:	
Location:		Total Length:	6.46 m	Downstream Node:	DT TANK7
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:		Material:	Polyvinyl chloride		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:56	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S7 0.00 CP Start node, catchpit, reference: S7 6.46 SKF Finish node, soakaway, reference: DT TANK7 DT TANK7 Depth: m							

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

Section Inspection - 16/07/2025 - S5X

Item No. 11	Insp. No. 1	Date 16/07/25	Time 8:56	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR S5X
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Upstream	Upstream Node:	S5
Road:	Arundel Road	Inspected Length:	25.90 m	Upstream Pipe Depth:	
Location:		Total Length:	25.90 m	Downstream Node:	S4
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:		Material:	Polyvinyl chloride		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale: 1:224	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S4 0.00 0.25 6.80 12.80 17.10 22.05 25.90 S5 Depth: m						
		IC	Start node, inspection chamber, reference: S4			
		JN	Junction at 3 o'clock, 100mm dia, from RWP			
		JN	Junction at 3 o'clock, 100mm dia, from RWP			
		JN	Junction at 3 o'clock, 100mm dia, from RWP			
		JN	Junction at 3 o'clock, 100mm dia, from RWP			
		JN	Junction at 3 o'clock, 100mm dia, from RWP			
		ICF	Finish node, inspection chamber, reference: S5			

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 Inspection - 16/07/2025 - PLOT7 REARX

Item No. 12	Insp. No. 1	Date 16/07/25	Time 8:58	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR PLOT7 REARX
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Upstream	Upstream Node:	PLOT7 REAR
Road:	Arundel Road	Inspected Length:	13.55 m	Upstream Pipe Depth:	
Location:		Total Length:	13.55 m	Downstream Node:	S5
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:		Material:	Polyvinyl chloride		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale: 1:117	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S5 0.00 IC Start node, inspection chamber, reference: S5						
3.25 JN Junction at 3 o'clock, 100mm dia, from RWP						
11.15 JN Junction at 3 o'clock, 100mm dia, from RWP						
13.35 JN Junction at 3 o'clock, 100mm dia, from RWP						
13.55 REF Finish node, rodding eye, reference: PLOT7 REAR						
PLOT7 REAR Depth: m						

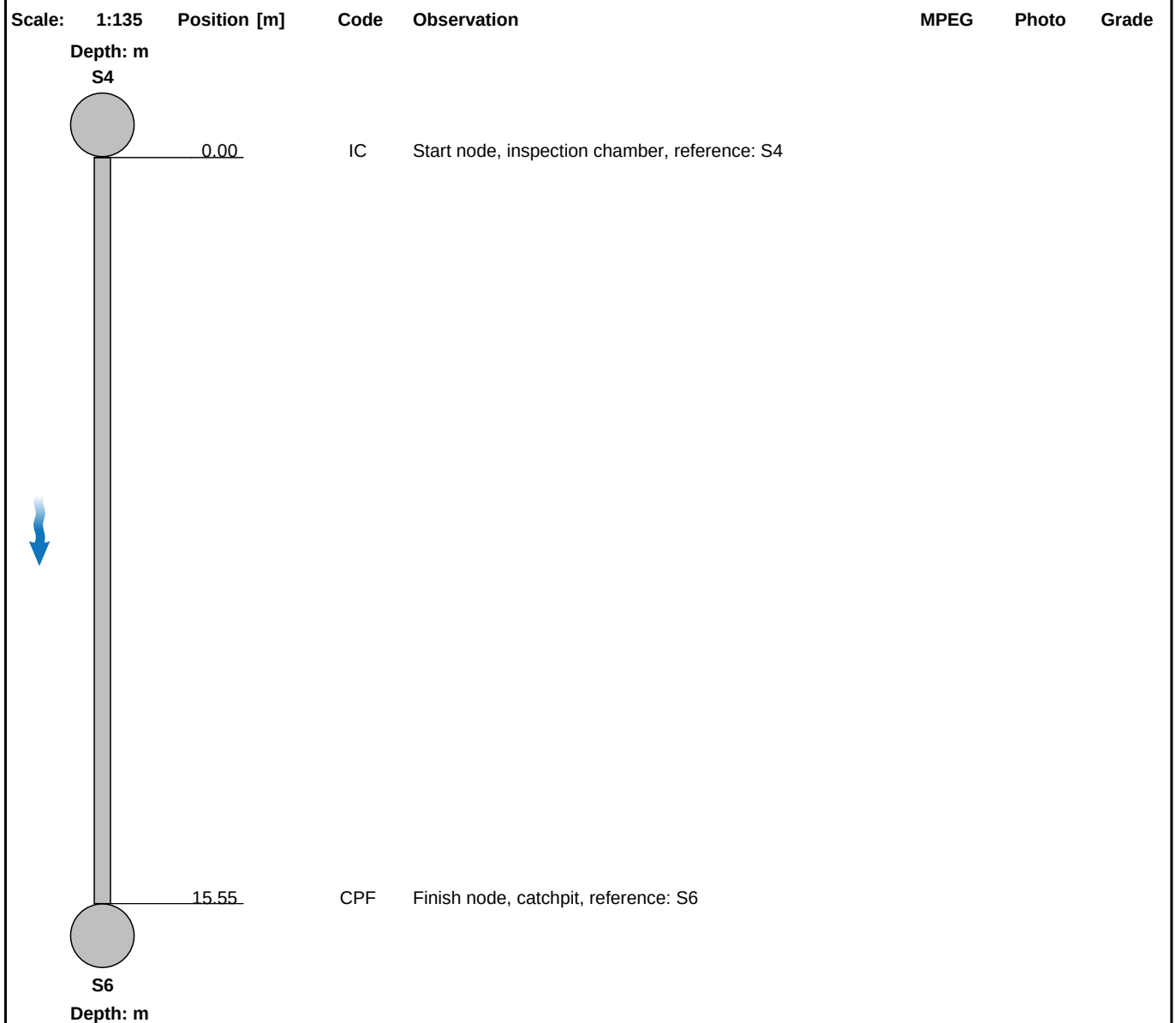
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 16/07/2025 - S4X

Item No. 13	Insp. No. 1	Date 16/07/25	Time 8:59	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR S4X
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Downstream	Upstream Node:	S4
Road:	Arundel Road	Inspected Length:	15.55 m	Upstream Pipe Depth:	
Location:		Total Length:	15.55 m	Downstream Node:	S6
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:		Material:	Polyvinyl chloride		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	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 Inspection - 16/07/2025 - PLOT 8X

Item No. 14	Insp. No. 1	Date 16/07/25	Time 9:01	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR PLOT 8X
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Downstream	Upstream Node:	PLOT 8
Road:	Arundel Road	Inspected Length:	29.15 m	Upstream Pipe Depth:	
Location:		Total Length:	29.15 m	Downstream Node:	S10
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:		Material:	Polyvinyl chloride		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale: 1:252	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m PLOT 8 S10 Depth: m						
	0.00	RE	Start node, rodding eye, reference: PLOT 8: FRONT GARDEN			
	1.25	JN	Junction at 3 o'clock, 100mm dia, from RWP			
	5.20	JN	Junction at 11 o'clock, 100mm dia, from RWP			
	11.60	JN	Junction at 9 o'clock, 100mm dia, from RWP			
	16.30	JN	Junction at 9 o'clock, 100mm dia			
	21.75	JN	Junction at 9 o'clock, 100mm dia, from RWP			
	29.15	CPF	Finish node, catchpit, reference: S10			

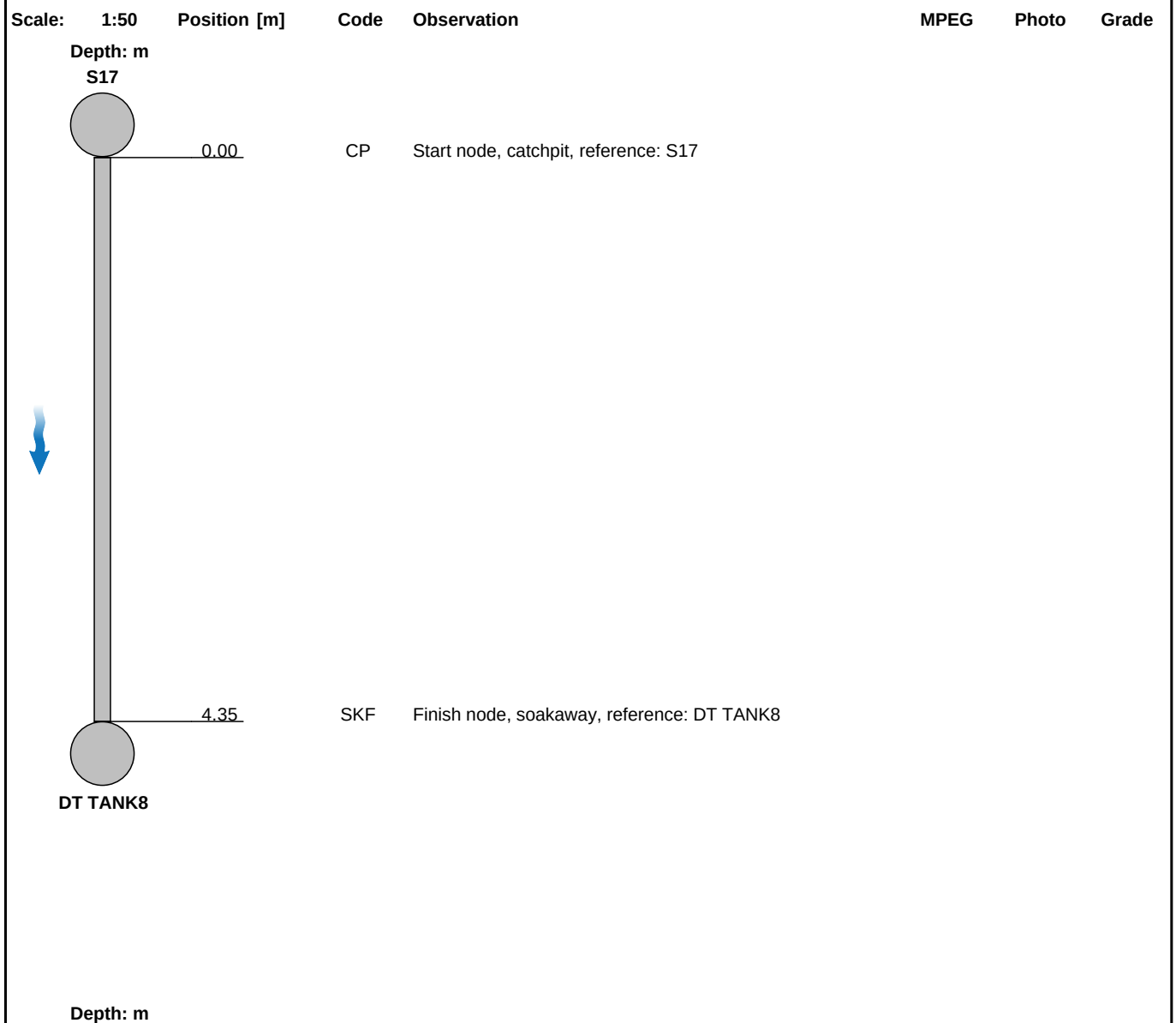
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 16/07/2025 - S17X

Item No. 15	Insp. No. 1	Date 16/07/25	Time 9:03	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR S17X
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Downstream	Upstream Node:	S17
Road:	Arundel Road	Inspected Length:	4.35 m	Upstream Pipe Depth:	
Location:		Total Length:	4.35 m	Downstream Node:	DT TANK8
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:		Material:	Polyvinyl chloride		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:



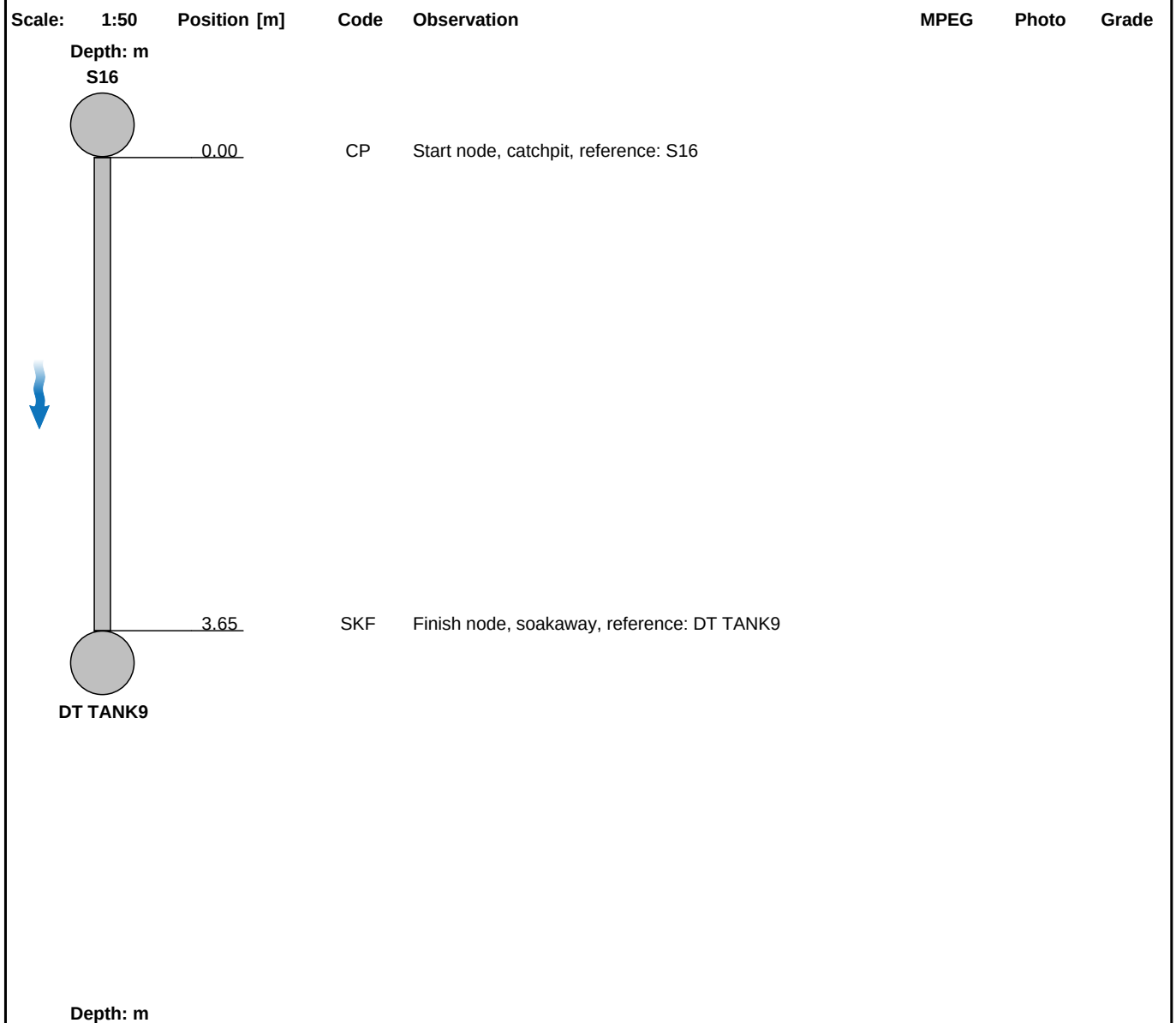
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 16/07/2025 - S16X

Item No. 16	Insp. No. 1	Date 16/07/25	Time 9:04	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR S16X
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Downstream	Upstream Node:	S16
Road:	Arundel Road	Inspected Length:	3.65 m	Upstream Pipe Depth:	
Location:		Total Length:	3.65 m	Downstream Node:	DT TANK9
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:		Material:	Polyvinyl chloride		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:



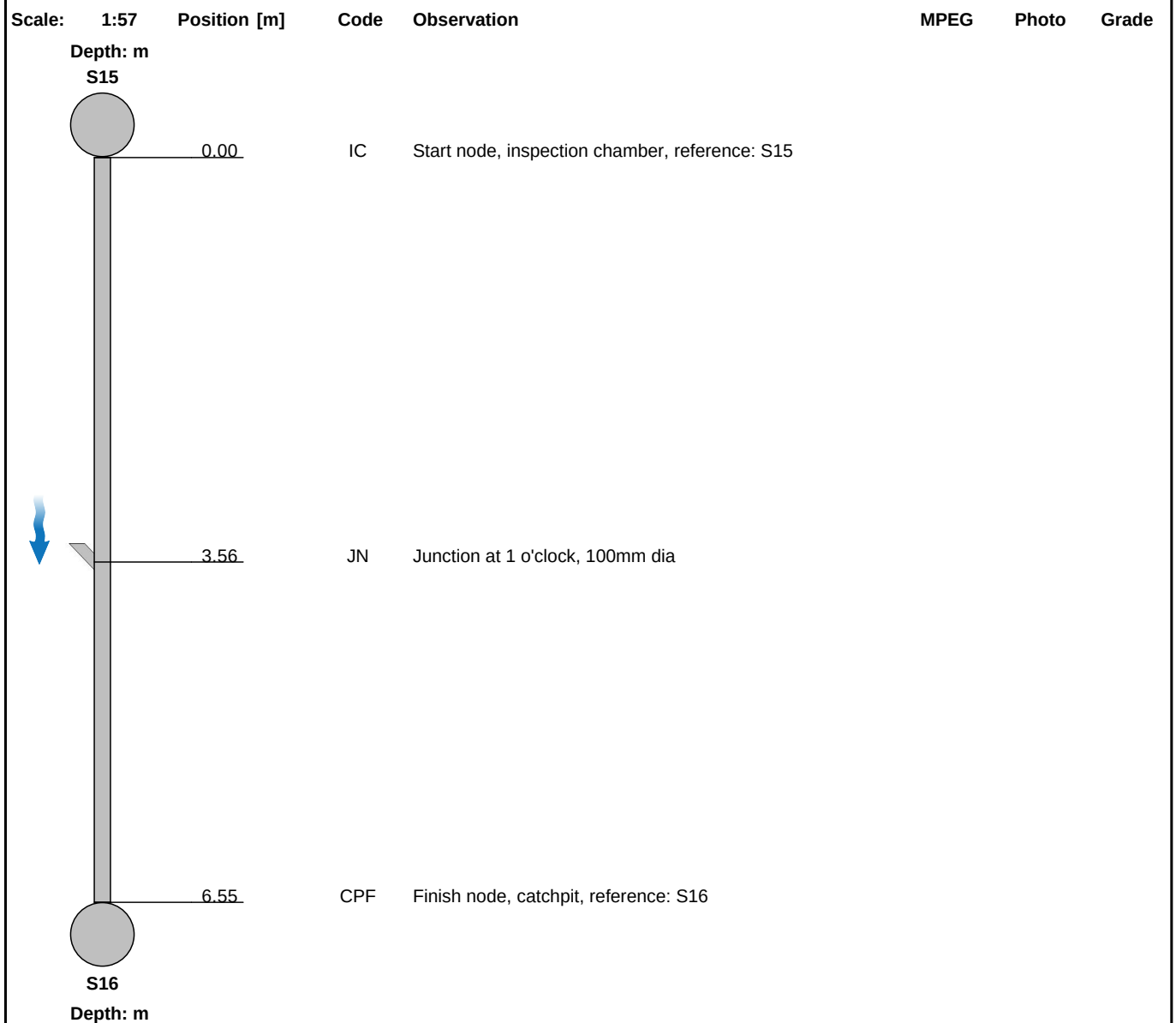
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 16/07/2025 - S15X

Item No. 17	Insp. No. 1	Date 16/07/25	Time 9:05	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR S15X
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Downstream	Upstream Node:	S15
Road:	Arundel Road	Inspected Length:	6.55 m	Upstream Pipe Depth:	
Location:		Total Length:	6.55 m	Downstream Node:	S16
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:		Material:	Polyvinyl chloride		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:



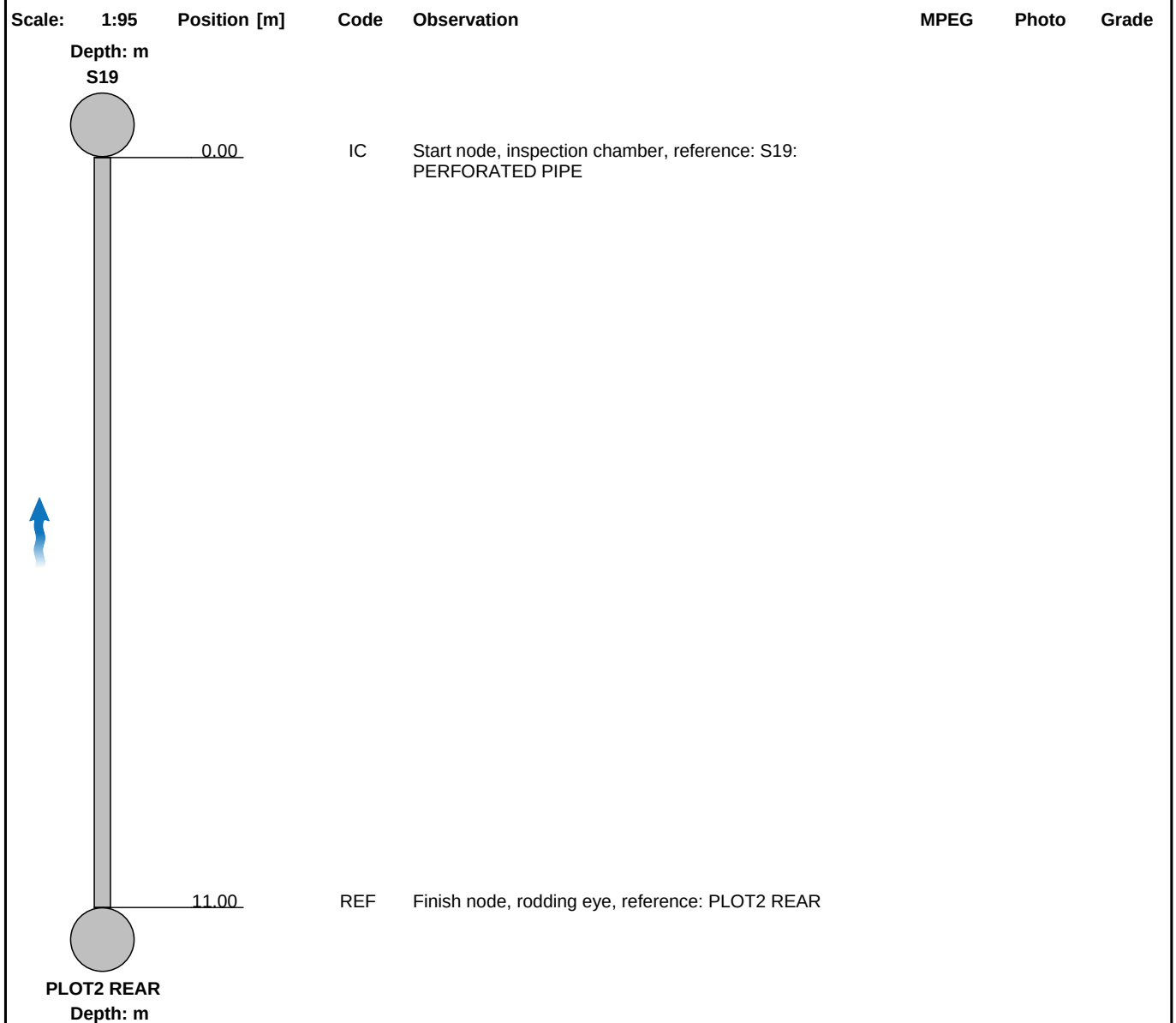
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 16/07/2025 - PLOT2 REARX

Item No. 18	Insp. No. 1	Date 16/07/25	Time 9:06	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR PLOT2 REARX
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Upstream	Upstream Node:	PLOT2 REAR
Road:	Arundel Road	Inspected Length:	11.00 m	Upstream Pipe Depth:	
Location:		Total Length:	11.00 m	Downstream Node:	S19
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:		Material:	Other material		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	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 Inspection - 16/07/2025 - S19X

Item No. 19	Insp. No. 1	Date 16/07/25	Time 9:09	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR S19X
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Downstream	Upstream Node:	S19
Road:	Arundel Road	Inspected Length:	8.15 m	Upstream Pipe Depth:	
Location:		Total Length:	8.15 m	Downstream Node:	S19A
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:		Material:	Other material		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:71	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S19 0.00 IC Start node, inspection chamber, reference: S19: PERFORATED PIPE 8.15 CPF Finish node, catchpit, reference: S19a S19a Depth: m							

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

Section Inspection - 16/07/2025 - S19aX

Item No. 20	Insp. No. 1	Date 16/07/25	Time 9:10	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR S19AX
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Downstream	Upstream Node:	S19A
Road:	Arundel Road	Inspected Length:	12.70 m	Upstream Pipe Depth:	
Location:		Total Length:	12.70 m	Downstream Node:	S18
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:		Material:	Other material		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:110	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S19a 0.00 CP Start node, catchpit, reference: S19a: PERFORATED PIPE 5.55 JN Junction at 9 o'clock, 100mm dia, from RWP 5.60 MCPVC Pipe material changes to polyvinyl chloride at this point 12.70 CPF Finish node, catchpit, reference: S18 Depth: m S18							

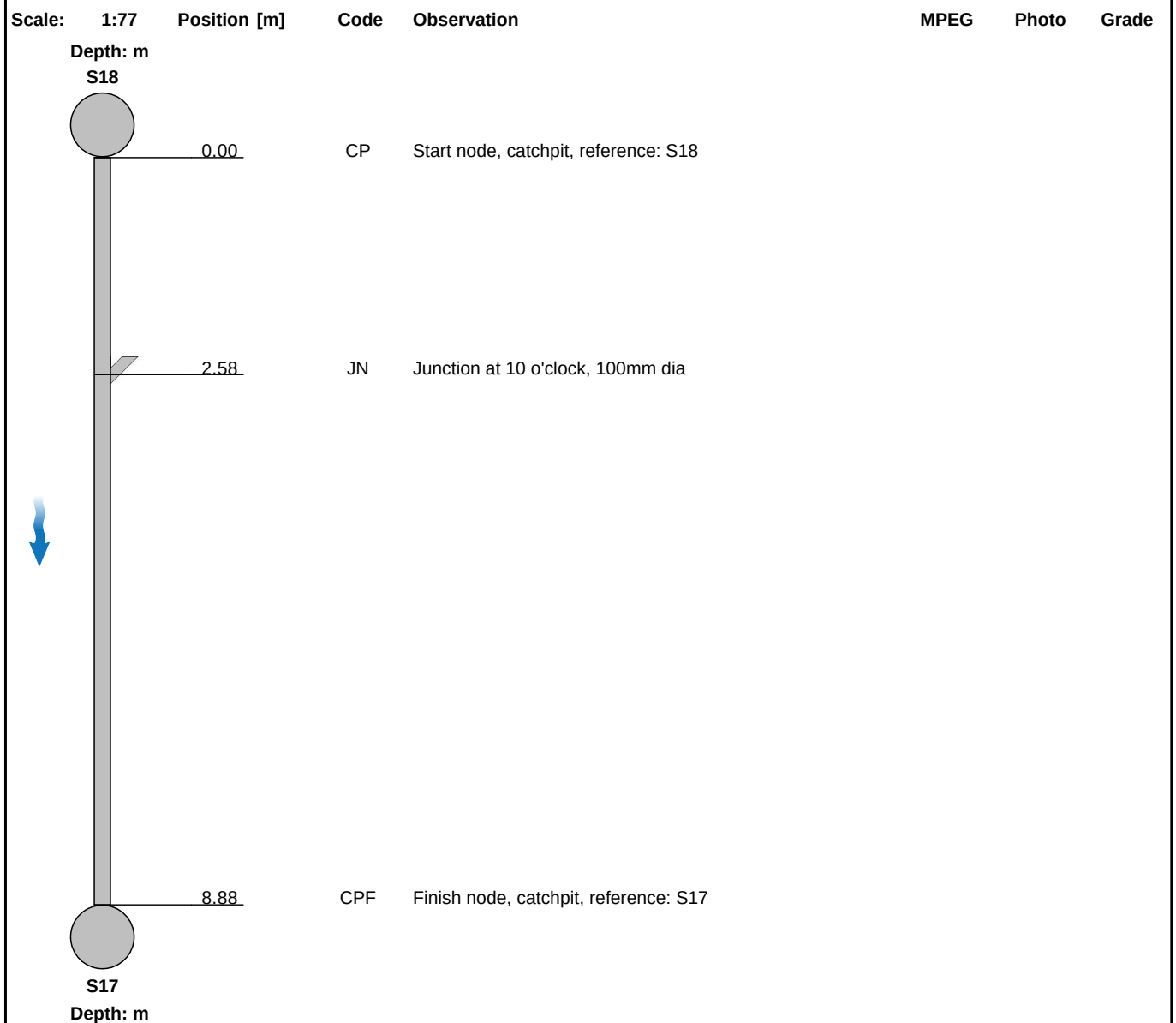
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 16/07/2025 - S18X

Item No. 21	Insp. No. 1	Date 16/07/25	Time 9:13	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR S18X
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Downstream	Upstream Node:	S18
Road:	Arundel Road	Inspected Length:	8.88 m	Upstream Pipe Depth:	
Location:		Total Length:	8.88 m	Downstream Node:	S17
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:		Material:	Polyvinyl chloride		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:



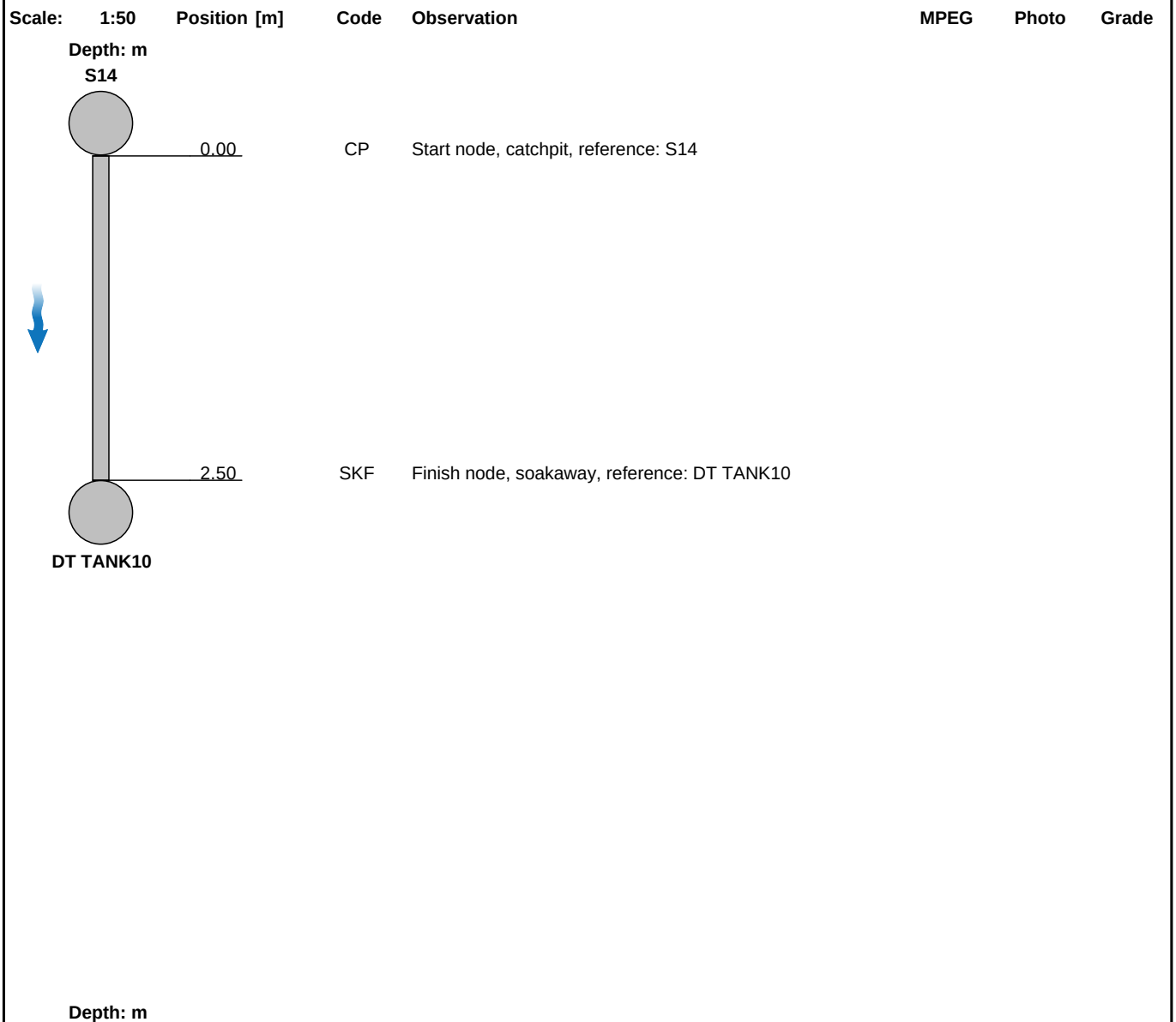
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 16/07/2025 - S14X

Item No. 22	Insp. No. 1	Date 16/07/25	Time 9:14	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR S14X
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Downstream	Upstream Node:	S14
Road:	Arundel Road	Inspected Length:	2.50 m	Upstream Pipe Depth:	
Location:		Total Length:	2.50 m	Downstream Node:	DT TANK10
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:		Material:	Polyvinyl chloride		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:



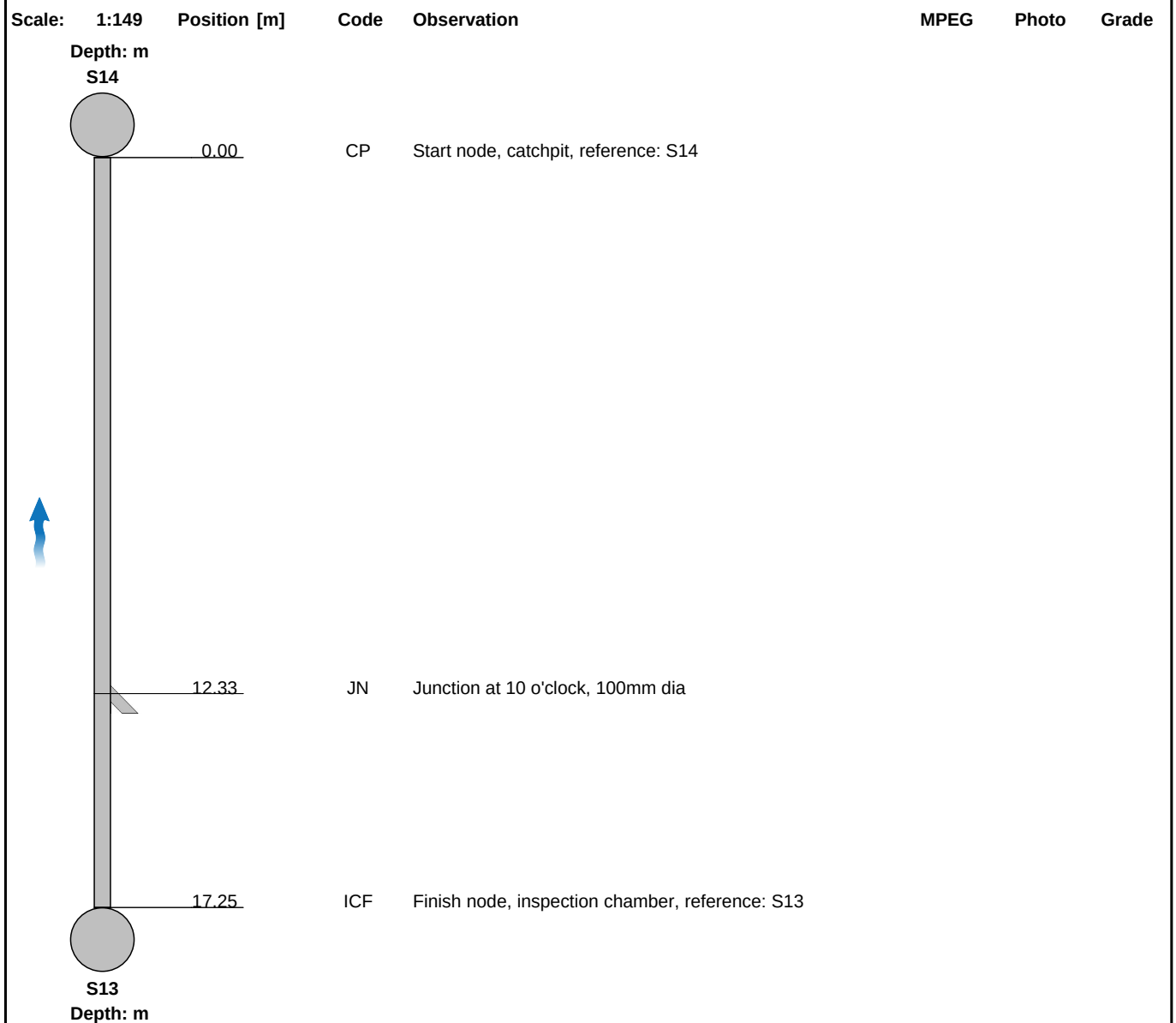
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 16/07/2025 - S13X

Item No. 23	Insp. No. 1	Date 16/07/25	Time 9:15	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR S13X
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Upstream	Upstream Node:	S13
Road:	Arundel Road	Inspected Length:	17.25 m	Upstream Pipe Depth:	
Location:		Total Length:	17.25 m	Downstream Node:	S14
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:		Material:	Other material		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	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 Inspection - 16/07/2025 - PLOT8 REARX

Item No. 24	Insp. No. 1	Date 16/07/25	Time 9:16	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR PLOT8 REARX
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Upstream	Upstream Node:	PLOT8 REAR
Road:	Arundel Road	Inspected Length:	6.35 m	Upstream Pipe Depth:	
Location:		Total Length:	6.35 m	Downstream Node:	S13
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:		Material:	Other material		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:55	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S13 0.00 IC Start node, inspection chamber, reference: S13: PERFORATED PIPE							
6.35 REF Finish node, rodding eye, reference: PLOT8 REAR							
PLOT8 REAR Depth: m							

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

Section Inspection - 16/07/2025 - S20X

Item No. 25	Insp. No. 1	Date 16/07/25	Time 9:17	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR S20X
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Downstream	Upstream Node:	S20
Road:	Arundel Road	Inspected Length:	16.60 m	Upstream Pipe Depth:	
Location:		Total Length:	16.60 m	Downstream Node:	S21
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:		Material:	Polyvinyl chloride		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:144	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S20 0.00 IC Start node, inspection chamber, reference: S20 4.70 JN Junction at 12 o'clock, 100mm dia, from RWP 13.10 JN Junction at 12 o'clock, 100mm dia, from RWP 16.60 CPF Finish node, catchpit, reference: S21 S21 Depth: m							

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

Section Inspection - 16/07/2025 - PLOT 10X

Item No. 26	Insp. No. 1	Date 16/07/25	Time 9:18	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR PLOT 10X
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Upstream	Upstream Node:	PLOT 10
Road:	Arundel Road	Inspected Length:	12.40 m	Upstream Pipe Depth:	
Location:		Total Length:	12.40 m	Downstream Node:	S21
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:		Material:	Polyvinyl chloride		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	Lining Material:	No Lining		

Comments:
Recommendations:

Scale:	1:107	Position [m]	Code	Observation	MPEG	Photo	Grade
		0.00	CP	Start node, catchpit, reference: S21			
		4.25	JN	Junction at 9 o'clock, 100mm dia, from RWP			
		5.50	JN	Junction at 9 o'clock, 100mm dia, from RWP			
		11.60	JN	Junction at 9 o'clock, 100mm dia, from RWP			
		12.00	JN	Junction at 9 o'clock, 100mm dia, from RWP			
		12.40	REF	Finish node, rodding eye, reference: PLOT 10			

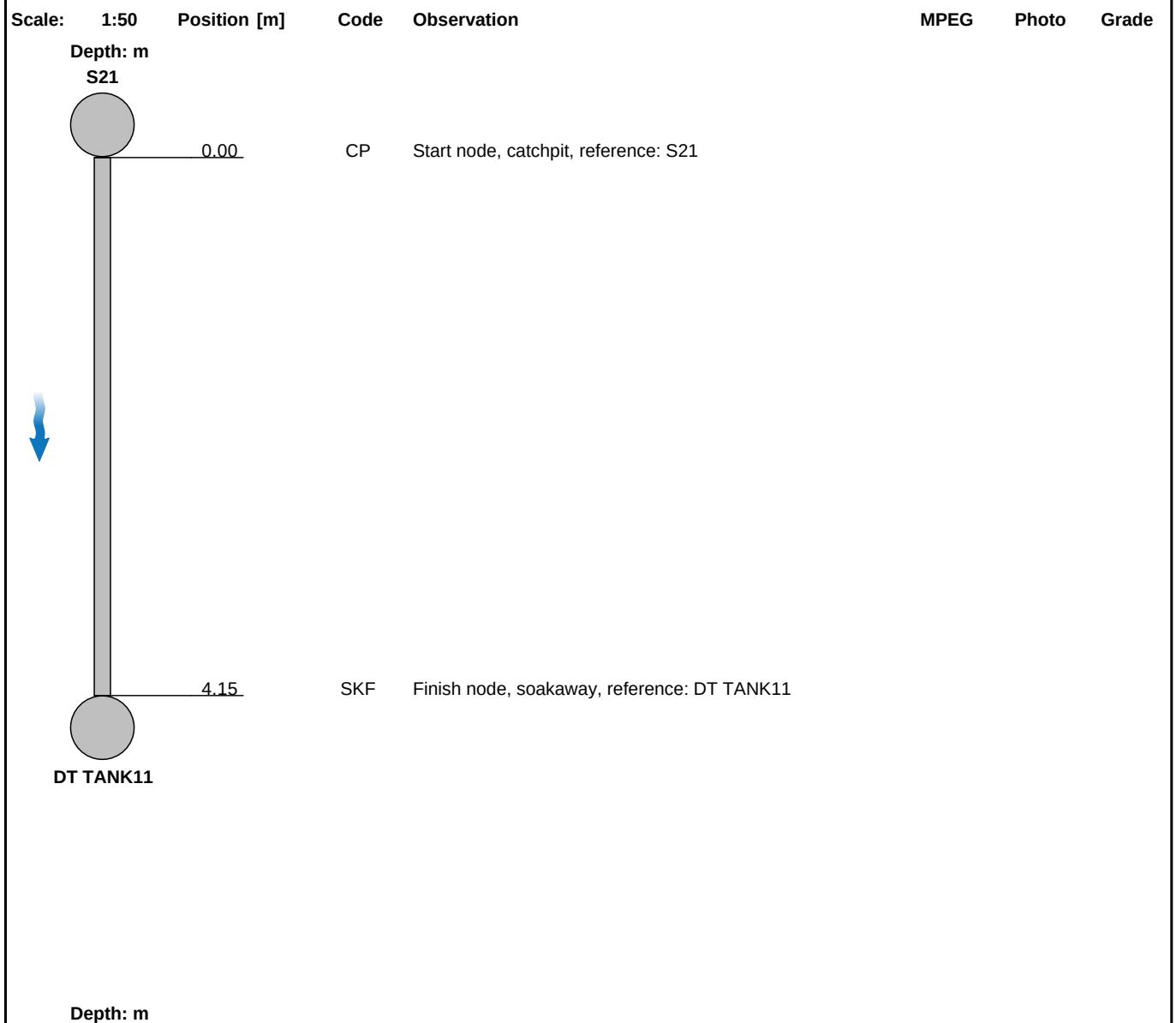
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 16/07/2025 - S21X

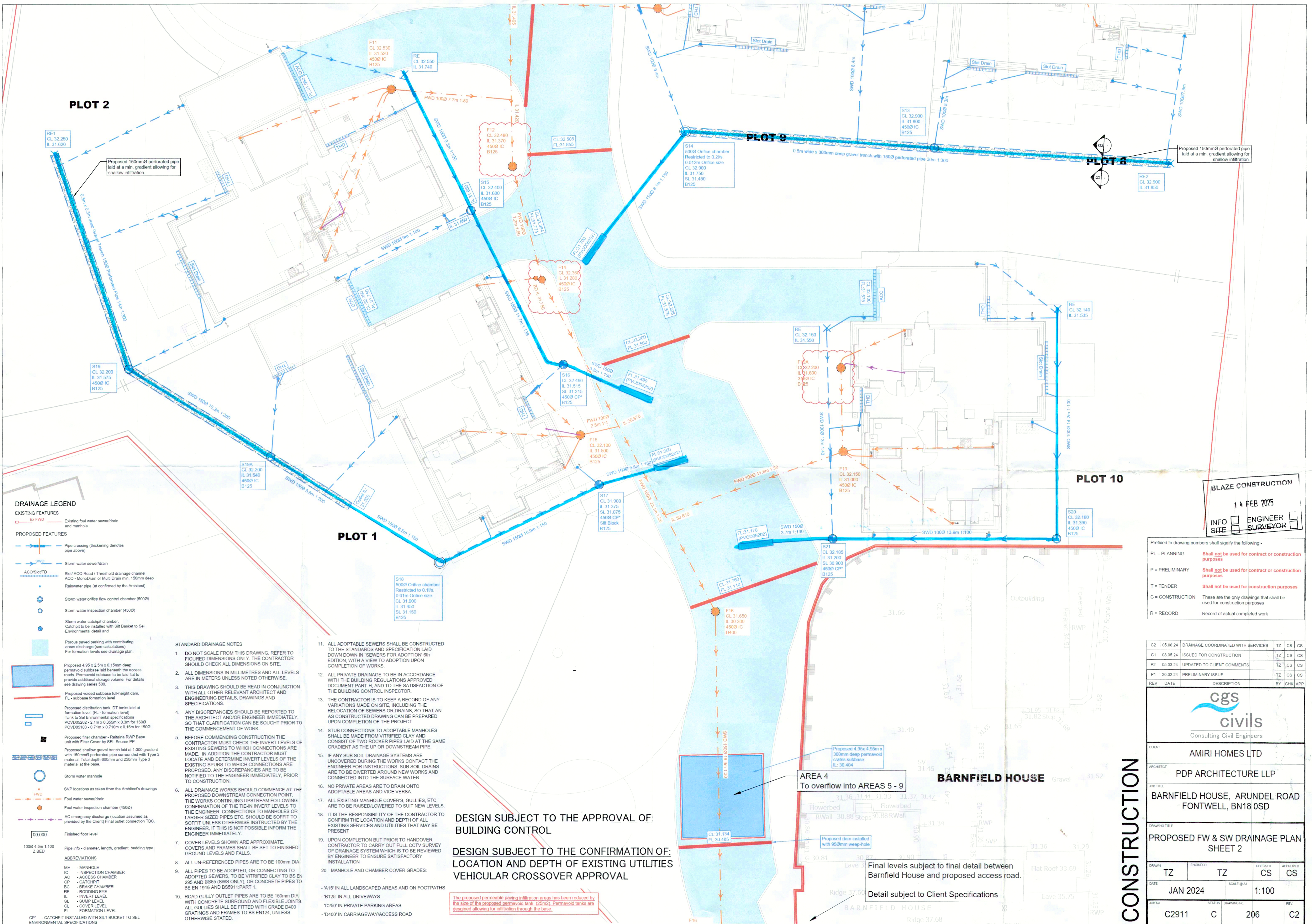
Item No. 27	Insp. No. 1	Date 16/07/25	Time 9:22	Client's Job Ref BARNFIELD HOUSE	Weather Not Specified	Pre Cleaned Yes	PLR S21X
Operator WAYNE		Vehicle GF68 XZA		Camera Push Rod	Preset Length Not Specified	Legal Status Not Specified	Alternative ID Not Specified

Town or Village:	Fontwell	Inspection Direction:	Downstream	Upstream Node:	S21
Road:	Arundel Road	Inspected Length:	4.15 m	Upstream Pipe Depth:	
Location:		Total Length:	4.15 m	Downstream Node:	DT TANK11
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:		Material:	Polyvinyl chloride		
Year Constructed:	2025	Lining Type:	No Lining		
Inspection Purpose:	Post completion condition survey	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



DRAINAGE LEGEND

EXISTING FEATURES

- Ex FWD - Existing foul water sewer/drain and manhole

PROPOSED FEATURES

- SWD - Storm water sewer/drain
- ACO/Slot/TD - Slot ACO Road / Threshold drainage channel ACO - MonoDrain or Multi Drain min. 150mm deep Rainwater pipe (as confirmed by the Architect)
- Storm water office flow control chamber (5000)
- Storm water inspection chamber (4500)
- Storm water catchpit chamber. Catchpit to be installed with Silt Basket to Silt Environmental detail and
- Porous paved parking with contributing areas discharge (see calculations). For formation levels see drainage plan.
- Proposed 4.95 x 2.5m x 0.15m deep permeable subbase laid beneath the access roads. Permeable subbase to be laid flat to provide additional storage volume. For details see drawing series 500.
- Proposed voided subbase full-height dam. FL - subbase formation level
- Proposed distribution tank, DT tanks laid at formation level. (FL - formation level). Tank to Silt Environmental specifications. POVD05202 - 2.1m x 0.35m x 0.3m for 1500 POVD05103 - 0.71m x 0.71m x 0.15m for 1500
- Proposed filter chamber - Rainwater RWP Base unit with Filter Cover by SEL Source PP
- Proposed shallow gravel trench laid at 1:300 gradient with 150mmØ perforated pipe surrounded with Type 3 material. Total depth 600mm and 250mm Type 3 material at the base.
- Storm water manhole
- SVP locations as taken from the Architect's drawings
- FWD - Foul water sewer/drain
- Foul water inspection chamber (4500)
- AC emergency discharge (location assumed as provided by the Client) Final outlet connection TBC.
- Finished floor level
- 1000 4.5m 1:100 Z BED
- Abbreviations: MH - MANHOLE, IC - INSPECTION CHAMBER, AC - ACCESS CHAMBER, CP - CATCHPIT, BC - BRICK CHAMBER, RE - RODDING EYE, IL - INVERT LEVEL, SL - SUMP LEVEL, CL - COVER LEVEL, FL - FORMATION LEVEL
- CP - CATCHPIT INSTALLED WITH SILT BUCKET TO SEL ENVIRONMENTAL SPECIFICATIONS

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 TO 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 295 AND BS65 (SWS ONLY), OR CONCRETE PIPES TO BE EN 1016 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 SPECIFICATION LAID DOWN DOWN IN SEWERS FOR ADOPTION 8th 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 WORK.
- NO PRIVATE AREAS ARE TO DRAIN INTO ADOPTABLE AREAS AND VICE VERSA.
- ALL EXISTING MANHOLE COVERS, 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:

DESIGN SUBJECT TO THE APPROVAL OF: BUILDING CONTROL

DESIGN SUBJECT TO THE CONFIRMATION OF: LOCATION AND DEPTH OF EXISTING UTILITIES VEHICULAR CROSSOVER APPROVAL

The proposed permeable paving infiltration areas has been reduced by the size of the proposed permeable tank. (25m2). Permeable tanks are designed allowing for infiltration through the base.

- 'A15' IN ALL LANDSCAPED AREAS AND ON FOOTPATHS
- 'B125' IN ALL DRIVEWAYS
- 'C250' IN PRIVATE PARKING AREAS
- 'D400' IN CARRIAGEWAY/ACCESS ROAD

AREA 4
To overflow into AREAS 5 - 9

Proposed 4.95x 4.95m x 300mm deep permeable crates subbase. IL 30.404

Proposed dam installed with 950mm weep-hole

Final levels subject to final detail between Barnfield House and proposed access road.

Detail subject to Client Specifications

CONSTRUCTION

BLAZE CONSTRUCTION

14 FEB 2025

INFO ☐ SITE ☐ ENGINEER ☐ SURVEYOR ☐

Prefix to drawing numbers shall signify the following:-

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

R = RECORD Record of actual completed work

C2	05.06.24	DRAINAGE COORDINATED WITH SERVICES	TZ	CS	CS
C1	08.05.24	ISSUED FOR CONSTRUCTION	TZ	CS	CS
P2	05.03.24	UPDATED TO CLIENT COMMENTS	TZ	CS	CS
P1	20.02.24	PRELIMINARY ISSUE	TZ	CS	CS
REV	DATE	DESCRIPTION	BY	CHK	APP

cgs
civils
Consulting Civil Engineers

CLIENT: **AMIRI HOMES LTD**

ARCHITECT: **PDP ARCHITECTURE LLP**

JOB TITLE: **BARNFIELD HOUSE, ARUNDEL ROAD FONTWELL, BN18 OSD**

DRAWING TITLE: **PROPOSED FW & SW DRAINAGE PLAN SHEET 2**

DRAWN: TZ	ENGINEER: TZ	CHECKED: CS	APPROVED: CS
DATE: JAN 2024	SCALE: @ A1	1:100	
JOB NO: C2911	STATUS: C	DRAWING NO: 206	REV: C2

DESIGN SUBJECT TO THE APPROVAL OF:
BUILDING CONTROL

DESIGN SUBJECT TO THE CONFIRMATION OF:
LOCATION AND DEPTH OF EXISTING UTILITIES
VEHICULAR CROSSOVER APPROVAL

- STANDARD DRAINAGE NOTES
- DO NOT SCALE FROM THIS DRAWING. REFER TO FIGURED DIMENSIONS ONLY. THE CONTRACTOR SHOULD CHECK ALL DIMENSIONS ON SITE.
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 - 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 TO 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 BS85 (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 SPECIFICATION LAID DOWN 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 COVERS, 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
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BLAZE CONSTRUCTION

14 FEB 2025

INFO ☐ ENGINEER ☐
SITE ☐ SURVEYOR ☐

Prefix to drawing numbers shall signify the following:-

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C1	08.05.24	ISSUED FOR CONSTRUCTION	TZ	CS	CS
P2	05.03.24	UPDATED TO CLIENT COMMENTS	TZ	CS	CS
P1	20.02.24	PRELIMINARY ISSUE	TZ	CS	CS
REV	DATE	DESCRIPTION	BY	CHK	APP

cgs civils
Consulting Civil Engineers

CLIENT: AMIRI HOMES LTD

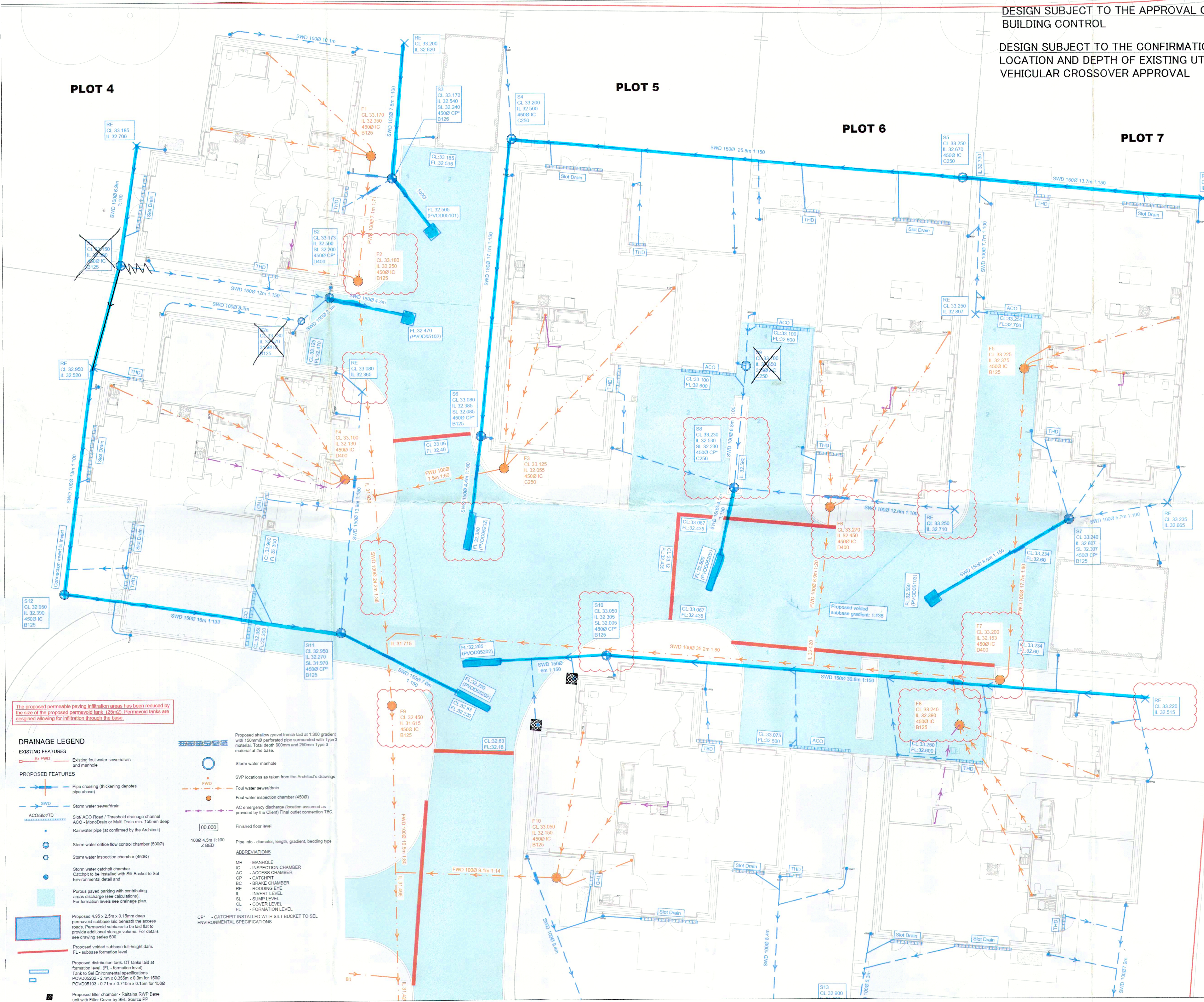
ARCHITECT: PDP ARCHITECTURE LLP

JOB TITLE: BARNFIELD HOUSE, ARUNDEL ROAD FONTWELL, BN18 0SD

DRAWING TITLE: PROPOSED FW & SW DRAINAGE PLAN SHEET 1

DRAWN: TZ	ENGINEER: TZ	CHECKED: CS	APPROVED: CS
DATE: JAN 2024	SCALE: @ A1	1:100	
JOB No: C2911	STATUS: C	DRAWING No: 205	REV: C2

CONSTRUCTION



DRAINAGE LEGEND

EXISTING FEATURES

- Existing foul water sewer/drain and manhole
- Existing storm water sewer/drain
- Existing storm water catchpit chamber
- Existing storm water inspection chamber (4500)
- Existing storm water orifice flow control chamber (5000)
- Existing storm water catchpit chamber
- Existing storm water inspection chamber (4500)
- Existing storm water catchpit chamber
- Existing storm water inspection chamber (4500)
- Existing storm water catchpit chamber
- Existing storm water inspection chamber (4500)

PROPOSED FEATURES

- Pipe crossing (thickening denotes pipe above)
- Storm water sewer/drain
- Storm water orifice flow control chamber (5000)
- Storm water catchpit chamber
- Storm water inspection chamber (4500)
- Storm water catchpit chamber
- Storm water inspection chamber (4500)
- Storm water catchpit chamber
- Storm water inspection chamber (4500)
- Storm water catchpit chamber
- Storm water inspection chamber (4500)

ABBREVIATIONS

- MH - MANHOLE
- IC - INSPECTION CHAMBER
- AC - ACCESS CHAMBER
- CP - CATCHPIT
- BC - BRAKE CHAMBER
- RE - RISING EYE
- IL - INVERT LEVEL
 SL - SUMP LEVEL | CL - COVER LEVEL | FL - FORMATION LEVEL |

CP - CATCHPIT INSTALLED WITH SILT BUCKET TO SEL ENVIRONMENTAL SPECIFICATIONS

Proposed shallow gravel trench laid at 1:300 gradient with 150mmØ perforated pipe surrounded with Type 3 material. Total depth 600mm and 250mm Type 3 material at the base.

Storm water manhole

SVP locations as taken from the Architect's drawings

Foul water sewer/drain

Foul water inspection chamber (4500)

AC emergency discharge (location assumed as provided by the Client) Final outlet connection TBC.

Finished floor level

Pipe info - diameter, length, gradient, bedding type

1000 4.5m 1:100 Z BED

Proposed 4.95 x 2.5m x 0.15m deep permeable subbase laid beneath the access roads. Permeable subbase to be laid flat to provide additional storage volume. For details see drawing series 500.

Proposed voided subbase full-height dam.

FL - subbase formation level

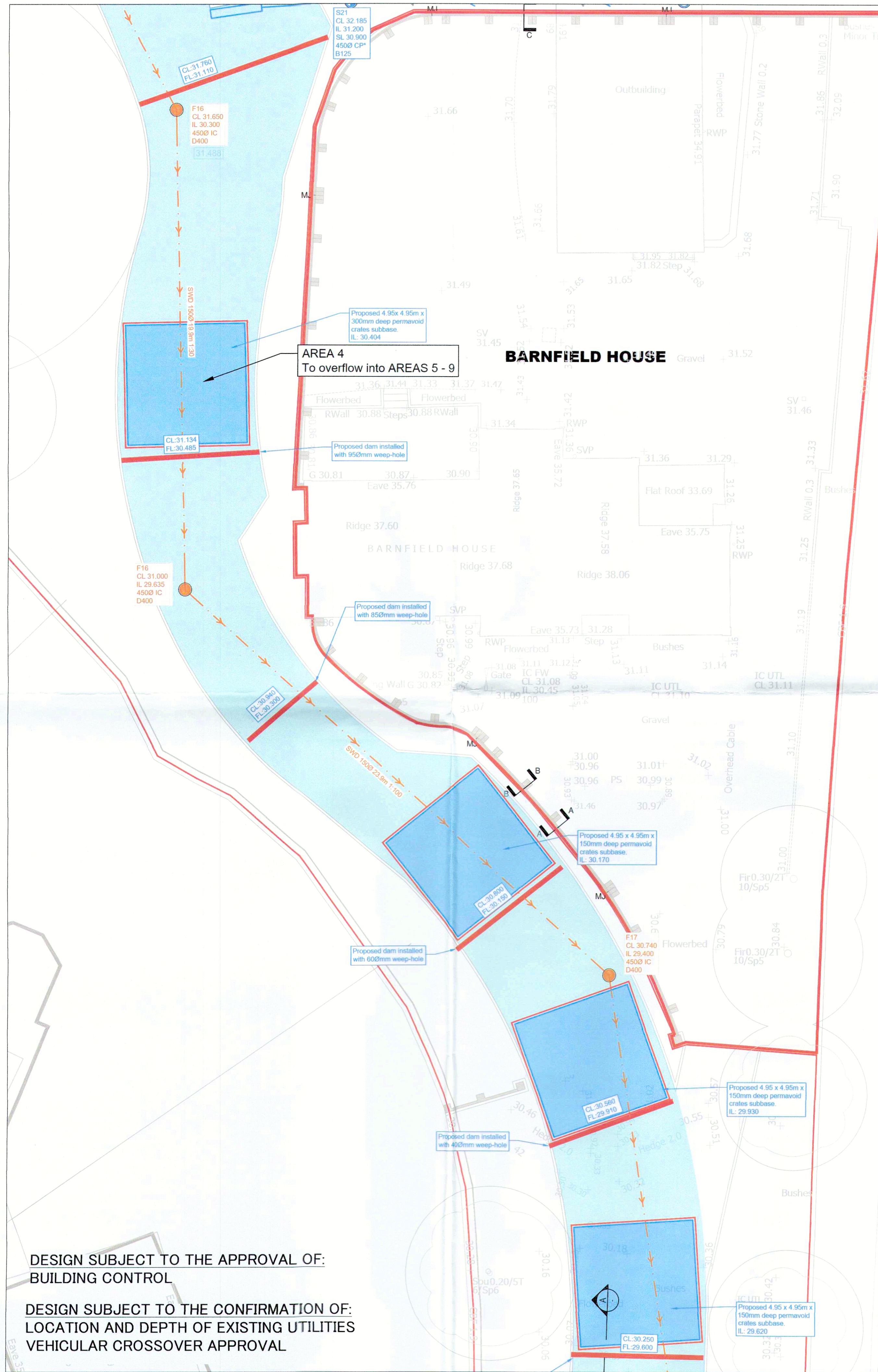
Proposed distribution tank. OT tanks laid at formation level. (FL - formation level)

Tank to Sel Environmental specifications

PVD050103 - 0.71m x 0.35m x 0.3m for 1500

PVD050103 - 0.71m x 0.35m x 0.3m for 1500

Proposed flow chamber - Rainfall RWP Base unit with Filter Cover by SEL Source PP



DRAINAGE LEGEND

EXISTING FEATURES

Ex FWD

Existing foul water sewer/drain and manhole

Proposed Features

Pipe crossing (thickening denotes pipe above)

Storm water sewer/drain

ACO/Slot/DT

Slot/ACO Road / Threshold drainage channel

ACO - MonoDrain or Multi Drain min. 150mm deep

Rainwater pipe (at confirmed by the Architect)

Storm water office flow control chamber (5000)

Storm water inspection chamber (4500)

Storm water catchpit chamber, Catchpit to be installed with Silt Basket to Sel Environmental detail and

Porous paved parking with contributing area discharge (see calculations). For formation levels see drainage plan.

Proposed voided subbase full-height dam, FL - subbase formation level

Proposed distribution tank, DT tanks laid at formation level (FL - formation level)

Tank to Sel Environmental specifications

POVD05022 - 2.1m x 0.355m x 0.3m for 1500

POVD05103 - 0.71m x 0.710m x 0.15m for 1500

Proposed filter chamber - Rainline RWP Base unit with Filter Cover by SEL Source PP

Proposed shallow gravel trench laid at 1:300 gradient with 150mmØ perforated pipe surrounded with Type 3 material. Total depth 600mm and 250mm Type 3 material at the base.

Storm water manhole

SVP locations as taken from the Architect's drawings

FWD

Foul water sewer/drain

Foul water inspection chamber (4500)

AC emergency discharge (location assumed as provided by the Client) Final outlet connection TBC.

Finished floor level

Pipe info - diameter, length, gradient, bedding type

00.000

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

FL - COVER LEVEL

FL - FORMATION LEVEL

CP - CATCHPIT INSTALLED WITH SILT BUCKET TO SEL ENVIRONMENTAL SPECIFICATIONS

Prefix to drawing numbers shall signify the following:-

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Shall not be used for construction purposes

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Record of actual completed work

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C1	08.05.24	ISSUED FOR CONSTRUCTION	TZ	CS	CS
P2	05.03.24	UPDATED TO CLIENT COMMENTS	TZ	CS	CS
P1	20.02.24	PRELIMINARY ISSUE	TZ	CS	CS



Consulting Civil Engineers

AMIRI HOMES LTD

PDP ARCHITECTURE LLP

BARNFIELD HOUSE, ARUNDEL ROAD
FONTWELL, BN18 0SD

PROPOSED FW & SW DRAINAGE PLAN
SHEET 3

DRAWN	ENGINEER	CHECKED	APPROVED
TZ	TZ	CS	CS

DATE: JAN 2024

SCALE: 1:100

FOR NO.	STATUS	DRAWING NO.	REV.
C2911	C	207	C2

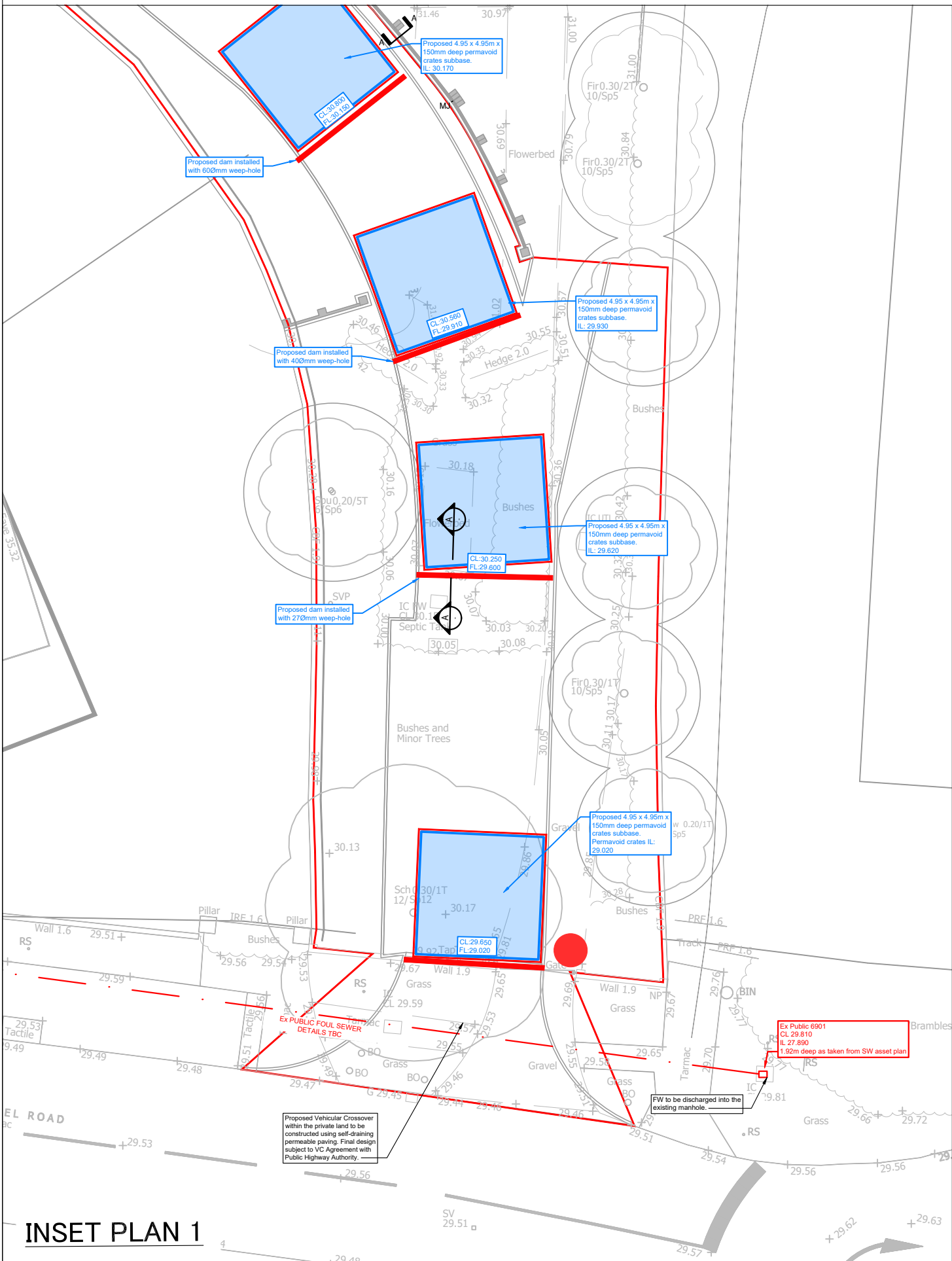
DESIGN SUBJECT TO THE APPROVAL OF:
BUILDING CONTROL

DESIGN SUBJECT TO THE CONFIRMATION OF:
LOCATION AND DEPTH OF EXISTING UTILITIES
VEHICULAR CROSSOVER APPROVAL

The proposed permeable paving infiltration areas has been reduced by the size of the proposed permeable tank (25m2). Permeable tanks are designed allowing for infiltration through the base.

7.2 **Appendix B:**

As built mark-up:



SEE INSET PLAN 1
FOR CONTINUATION

SEE INSET PLAN 1
FOR CONTINUATION

R1	19.09.25	RECORD OF AS-BUILT	LH	CS	CS
REV	DATE	DESCRIPTION	BY	CHK	APP
cgs civils Consulting Civil Engineers					
CLIENT AMIRI HOMES LTD					
ARCHITECT PDP ARCHITECTURE LLP					
JOB TITLE BARNFIELD HOUSE, ARUNDEL ROAD FONTWELL, BN18 0SD					
DRAWING TITLE AS BUILT DRAINAGE					
DRAWN	LH	ENGINEER	C SLADE	CHECKED	CS
DATE	SEP 2025	SCALE @ A1	1:200	APPROVED	CS
JOB No.	C2911	STATUS	R	DRAWING No.	600
		REV.	R1		

RECORD