



Surface Water Drainage Verification Report

Former Bartons Infant School, North Bersted Bognor
Regis PO22 9BD

Client

Lovell Partnerships

Ref: 11642

Date: November 2025

Consulting Engineers

GTA Civils & Transport Limited

Maple House

192-198 London Road

Burgess Hill

West Sussex, RH15 9RD

Te [REDACTED]

Index

1	Introduction	2
2	Conclusion	3

Schedule of Appendices

A	Proposed As-built Site Drainage Plan & Details Sheets
B	Attenuation Tank
C	Flow Control
D	Permeable Driveways
E	Swale
F	Outfall Headwall
G	CCTV Drainage Survey

Issue	Issue date	Compiled	Checked
First Issue	20 November 2025	JR	MB
Second Issue	29 January 2026	JR	MR

Report by: John Roberts BSc (Hons)

Checked by: Martin Roberts IEng; ACIWEM; MCIHT

1 Introduction

- 1.1 This report has been prepared for Lovell in relation to the site 'Former Bartons Infant School, North Bersted Bognor Regis PO22 9BD'. No responsibility is accepted to any third party for all or part of this study in connection with this or any other development.
- 1.2 GTA Civils & Transport Limited was appointed by Lovell Partnerships to provide a Drainage Verification Report as required by Arun District Council to discharge Planning Condition #24 of the consent, as listed on planning approval reference: **BE/40/22/PL**. This is as follows:

#24 Surface Water Drainage: Verification

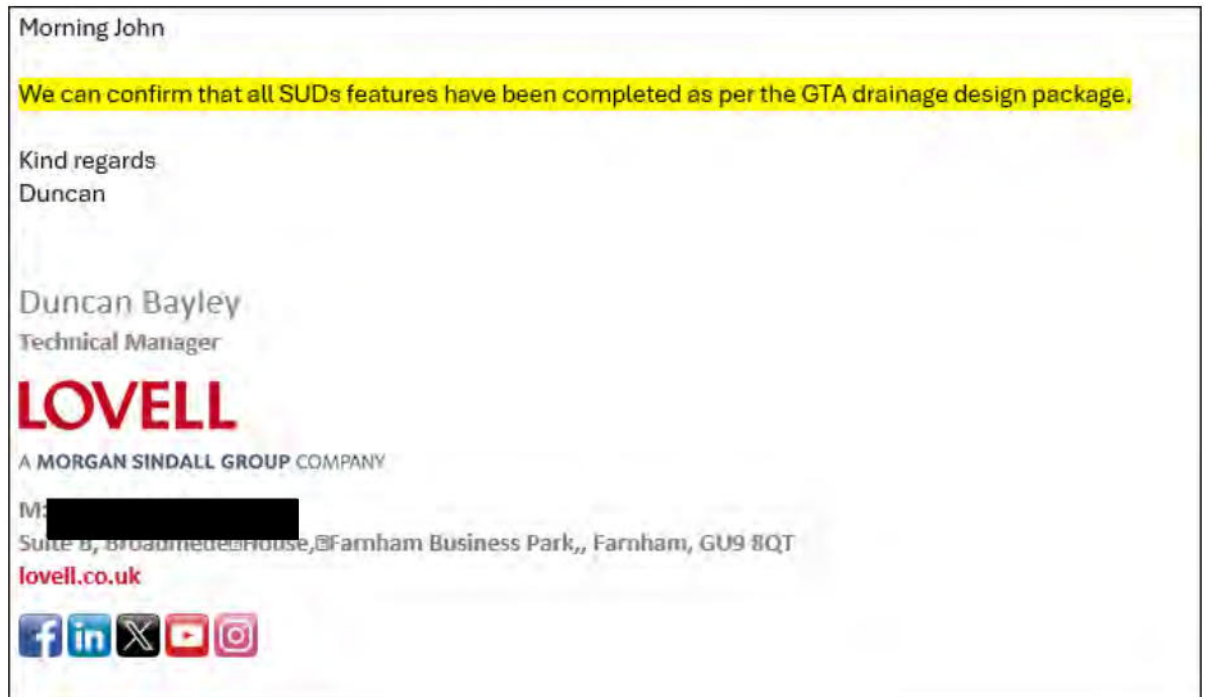
Upon completion of the surface water drainage system, including any SuDS features, and prior to the first occupation of the development; a survey and report from an independent surveyor shall be submitted to and approved in writing by the Local Planning Authority. The survey and report shall demonstrate that the surface water drainage system has been constructed in accordance with the details approved pursuant to condition 1. Where necessary, details of corrective works to be carried out along with a timetable for their completion, shall be included for approval in writing by the Local Planning Authority. Any corrective works required shall be carried out in accordance with the approved timetable and subsequently re-surveyed with the findings submitted to and approved in writing by the Local Planning Authority.

Reason: To ensure the flood risk is adequately addressed, not increased and users remain safe for the lifetime of the development in accordance with NPPF and Policy W SP1, W DM2 and W DM3 in Arun Local Plan.

- 1.3 This report will provide evidence of compliance in accordance with Planning Condition #24 of the approved planning consent.
- 1.4 The drainage described in this report will remain private and maintained by an appointed management company.

2 Conclusion

- 2.1 The developer has confirmed that the proposed SuDS drainage has been installed in accordance with GTA Civils & Transport's drawings. Refer to below extract from email confirmation:



- 2.2 Appendices B to F this report contain installation photos and where appropriate delivery tickets for each of the SuDS features, and in addition the installed surface water outfall headwall to the Aldingbourne Rife. A CCTV Drainage Survey of the surface water drainage system is contained in Appendix G.

- End of Report -

Appendix A – Proposed As-built Site Drainage Plan & Details Sheets



ALL WORKS TO BE IN ACCORDANCE WITH DCG APPENDIX C - DESIGN AND CONSTRUCTION GUIDANCE

ALL PIPEWORK TO BE AIR TESTED AND WILL REQUIRE CCTV SURVEY UPON COMPLETION OF WORKS.

EXISTING DRAINAGE LINE THROUGH PLOT 4 REQUIRES SURVEYING TO INCLUDE DETERMINATION OF ITS EXACT ROUTE. DRAIN THROUGH THE GARDEN TO BE PROTECTED DURING WORKS.

Continuation of existing 150mm SWD unknown from this point. Assumed to continue to the northeast to meet the north boundary.

150mm drain from replacement road gully to connect to the existing SWD in the corner of footpath. Connection level 2.06.

Replacement road gully as part of S278 works to connect to existing 150mm SWD

STORAGE BLANKET OVER TANK
Cover level 3.675 - 3.920
Top of stone 3.535
Bottom of stone over tank 3.335
Depth 0.2m
Area 137m²
Volume 8.22m³ (30% porosity)

ATTENUATION STORAGE TANK
S205 or similar approved.
Cover level 3.675 - 3.920
Top of tank level 3.335
Base level 1.835
Area 137m²
Depth of blocks 1.5m
Volume 195.23m³ (95% porosity)
Impermeable to base only. Top and sides to be left permeable.

Smart Sponge™ installed in road gully to provide treatment for surface water runoff

ExFMH 5907
CL 3.35
IL 3.26

ExFMH 5908
CL 3.62
IL 3.38

ExSWSMH583
CL 3.64
IL 2.79

ExFSMH
Depth 1.81m

SPECIFICATION NOTES

All drainage shall be constructed and commissioned in accordance with BS EN 295 & BS EN752, Building Regulations Doc. H and any particular requirements of the Building Control Officer.

Drainage pipelines shall be in PVC-U below ground as Marley or similar approved, or vitrified clay.
All sewer pipelines to be VC only.

This drawing shall be read in conjunction with all other relevant drainage drawings, architectural drawings and structural drawings.

For manhole details, gully details, bedding etc, refer to gta detail sheets.

All foul water drain runs shall have a fall of 1:40 or steeper, unless noted otherwise.

All cement used for concrete drainage installations shall be sulphate resistant to class 3 of BRE Digest 363. (Grade ST5)

The use of short radius or 90° bends for changes in direction is not permitted, only long or medium radius 45° bends shall be used. All junctions shall be 45°.

All drains shall have granular bed and surround as class 'S' bedding, unless noted otherwise.

All drainage works shall commence from the downstream end first unless agreed otherwise. Outfall level to be checked by contractor prior to any works commencing and any discrepancy identified to engineer prior to laying and drainage.

ABBREVIATIONS

AAV AIR ADMITTANCE VALVE
BL BASE LEVEL
CB CONCRETE BAFFLE
CD CAPED DRAIN
CL COVER LEVEL
DT DISTRIBUTION TANK
ETG EXTERNAL TAP GULLY
FWSFMH EXISTING FOUL SEWER MANHOLE
EXFWD EXISTING FOUL DRAIN
EXSWD EXISTING SURFACE WATER DRAIN
EXSWSMH EXISTING SURFACE WATER SEWER MANHOLE
FIC FINISHED FLOOR LEVEL
FIC FIC
FRP FOUL RODDING POINT
FWD FRENCH DRAIN
G GULLY
IL INVERT LEVEL
KWG KITCHEN WASTE GULLY
PCP POINT OF CONNECTION
PCP SURFACE WATER PLASTIC CATCHPIT
RG ROAD GULLY
RP RODDING POINT
RWP RAINWATER PIPE
SIC SURFACE WATER INSPECTION CHAMBER
SL SUMP LEVEL
SVP SOIL VENT PIPE
SWD SURFACE WATER DRAIN
SWSMH SURFACE WATER SEWER MANHOLE
SWS SURFACE WATER SEWER
VP VENT PIPE
WP WASTE PIPE

DESIGN NOTES

1. STORAGE DESIGN BASED ON 1 IN 100 YR STORM + 45%.
 2. CONTRACTOR TO ESTABLISH LOCATIONS OF ALL EXISTING SERVICES PRIOR TO COMMENCING.
 3. EXISTING TREES TO BE PROTECTED WHERE EXCAVATIONS RUN CLOSE.
 4. APPROVAL TO BE GAINED FROM THE ENVIRONMENT AGENCY FOR CONNECTION TO MAIN WATERCOURSE.*
 5. SECTION 106 APPROVAL TO BE GAINED FROM SOUTHERN WATER FOR INDIRECT CONNECTION TO FOUL SEWER.**
- * OBTAINED 14/11/2024 FLOOD RISK ACTIVITY EXEMPTION EXFRA014472
- ** OBTAINED 04/02/2025 REFERENCE DSA000039591

GENERAL NOTES

1. The location, size, depth and identification of existing services that may be shown or referred to on this drawing have been assessed from non intrusive observations, record drawings or the file. The contractor shall safely carry out intrusive investigations, trial holes or soundings prior to commencing work to satisfy himself that it is safe to proceed and that the assessments are accurate. Any discrepancies shall be notified to gta prior to works commencing.
2. Tender or billing drawings shall not be used for construction or the ordering of materials.
3. Do not scale. All dimensions and levels to be site confirmed.
4. This drawing shall be read in conjunction with all relevant architects, consultants drawings and specifications, together with H&S plan requirements.
5. Copyright : This drawing must not be copied, amended nor reproduced without the prior written agreement of gta.
6. All drawings specifications and recommendations made by gta are subject to Local Authority and other relevant Statutory Authorities approval. Any works or services made abortive due to the client proceeding prior to these approvals is considered wholly at the Clients risk. gta hold no responsibility for resulting abortive works or costs.

KEY

- Existing surface water drain
- Existing foul drain
- Private surface water drain
- Private foul drain
- SWSMH Private surface water sewer manhole
- FMH Private foul manhole, PCC rings
- SIC Plastic inspection chamber, SW 450mm
- PPIC Plastic catchpit chamber, SW 600mm
- G Patio gully
- RG Road gully
- DT Distribution tank
- RP Rodding point
- RWP Rainwater pipe
- FIC Plastic inspection chamber, foul 450mm
- SVP/AAV/VP/CD Soil vent pipe/air admittance valve/waste pipe/capped drain point
- ETG/KWG External tap gully/kitchen waste gully
- FRP Foul rodding point
- CB Concrete baffle
- 70mm wide x100mm deep gravel strip against wall
- Permeable paving area. 250mm thick sub-base 4-20mm size open graded crushed rock with no fines (30% voids).
- *thickness to be reviewed on receipt of CBR test results.

THIS DRAWING HAS BEEN PREPARED WITHOUT AS-BUILT MARK-UPS FROM THE CONTRACTOR AND REPRESENTS FINAL CONSTRUCTION DESIGN INFORMATION ONLY

MH No.	MANHOLE DIAMETER (mm)	MANHOLE TYPE	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH TO SOFFIT (m)	EASTING (m)	NORTHING (m)
SWSMH1	1200	Type B	3.853	2.041	1.587	492513.388	100887.155
SWSMH2	1800	Type C	3.790	1.702	1.263	492566.924	100902.495
SWSMH3	1800	Type C	3.476	1.568	1.083	492585.866	100907.954
SWSMH5	1800	Type C	3.724	1.869	1.330	492550.857	100921.073
SWSMH6	1200	CATCHPIT	3.835	1.835	1.775	492558.538	100904.252
FMH1	1350	Type C	3.870	2.682	1.088	492555.200	100877.061
FMH2	1350	Type C	3.716	2.252	1.314	492549.117	100898.518
FMH3	1350	Type C	3.635	2.105	1.380	492531.064	100893.587
FMH4	1350	Type C	3.539	2.585	0.854	492514.284	100888.730
FMH5	1350	Type C	3.770	2.700	0.970	492528.451	100903.172
FMH6	1350	Type C	3.744	2.383	1.211	492567.696	100904.454

ALL MANHOLE COVERS TO BE D400 DUCTILE IRON WITH IN ACCORDANCE WITH DCG TECHNICAL GUIDANCE NOTES
CLEAR OPENING TO BE 675x675mm FOR TYPE B&CATCHPITS
AND 1220 X 685mm DOUBLE COVER FOR TYPE C MANHOLES.

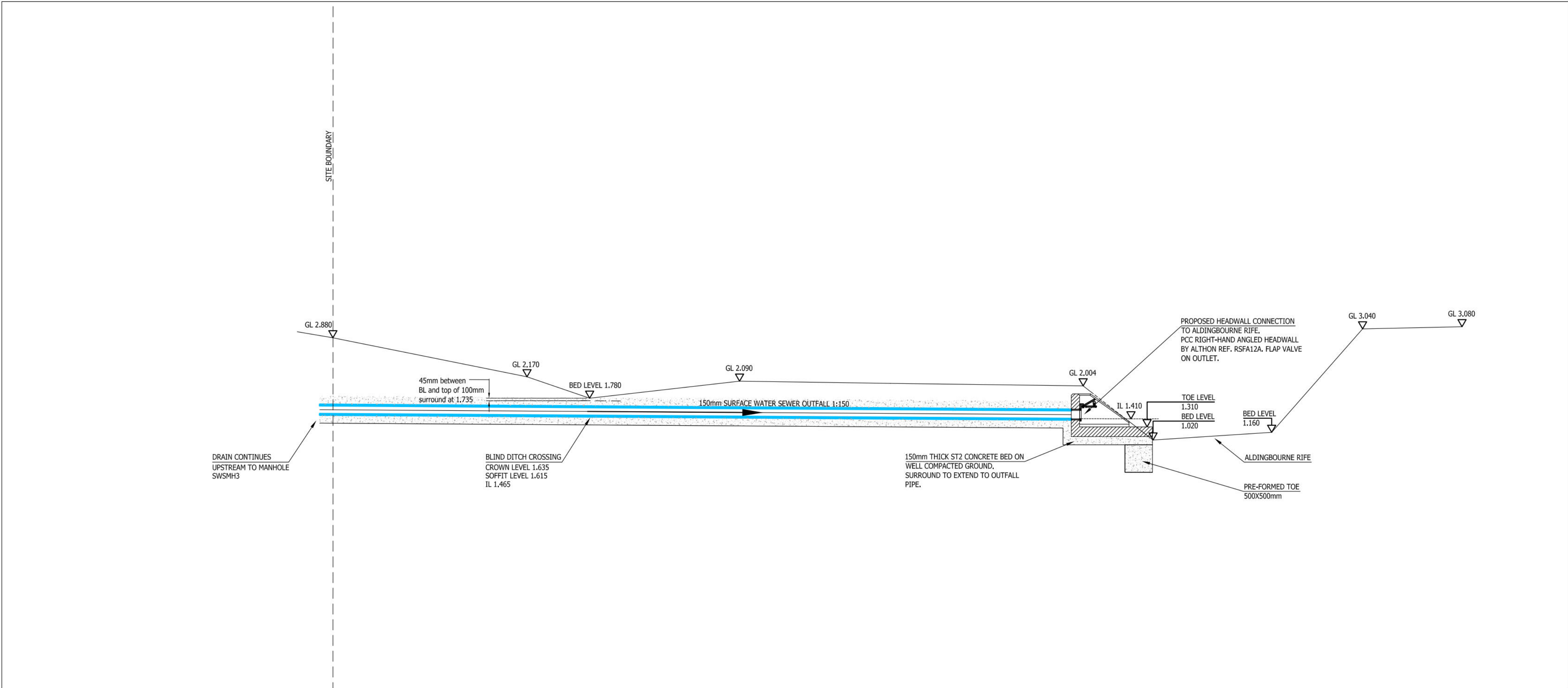
Continuation of sewer downstream. Final connection to Southern Water pump station south of Van Gogh Place.

A1	AS BUILT		05/01/2026	JR	MR
Rev	Amendments		Date	Dsn	Chk
Status			AS BUILT		
Client					
GRAVITY CONSULTING ENGINEERS					
Architect					
BOYLE & SUMMERS					
Project					
SITE 2 FORMER BARTONS INFANT SCHOOL, NORTH BERSTED					
Title					
DRAINAGE LAYOUT					
Date		Scale @ A1		1:200	
OCTOBER 2024					
Clients Ref.			Project Ref.		
			11642		
 Gloucester House, 66a Church Walk, Burgess Hill, West Sussex, RH15 9AS Tel.01444 871444 Web: www.gtacivils.co.uk					
Drawing Number				Rev.	
11642/1601				A1	

- GENERAL NOTES**
1. The location, size, depth and identification of existing services that may be shown or referred to on this drawing have been assessed from non intrusive observations, record drawings or the like. The contractor shall safely carry out intrusive investigations, trial holes or soundings prior to commencing work to satisfy himself that it is safe to proceed and that the assessments are accurate. any discrepancies shall be notified to gta prior to works commencing.
 2. Tender or billing drawings shall not be used for construction or the ordering of materials.
 3. Do not scale. All dimensions and levels to be site confirmed.
 4. This drawing shall be read in conjunction with all relevant architects, consultants drawings and specifications, together with H&S plan requirements.
 5. Copyright : This drawing must not be copied, amended nor reproduced without the prior written agreement of gta.
 6. All drawings specifications and recommendations made by gta are subject to Local Authority and other relevant Statutory Authorities approval. Any works or services made abortive due to the client proceeding prior to these approvals is considered wholly at the Clients risk. gta hold no responsibility for resulting abortive works or costs.

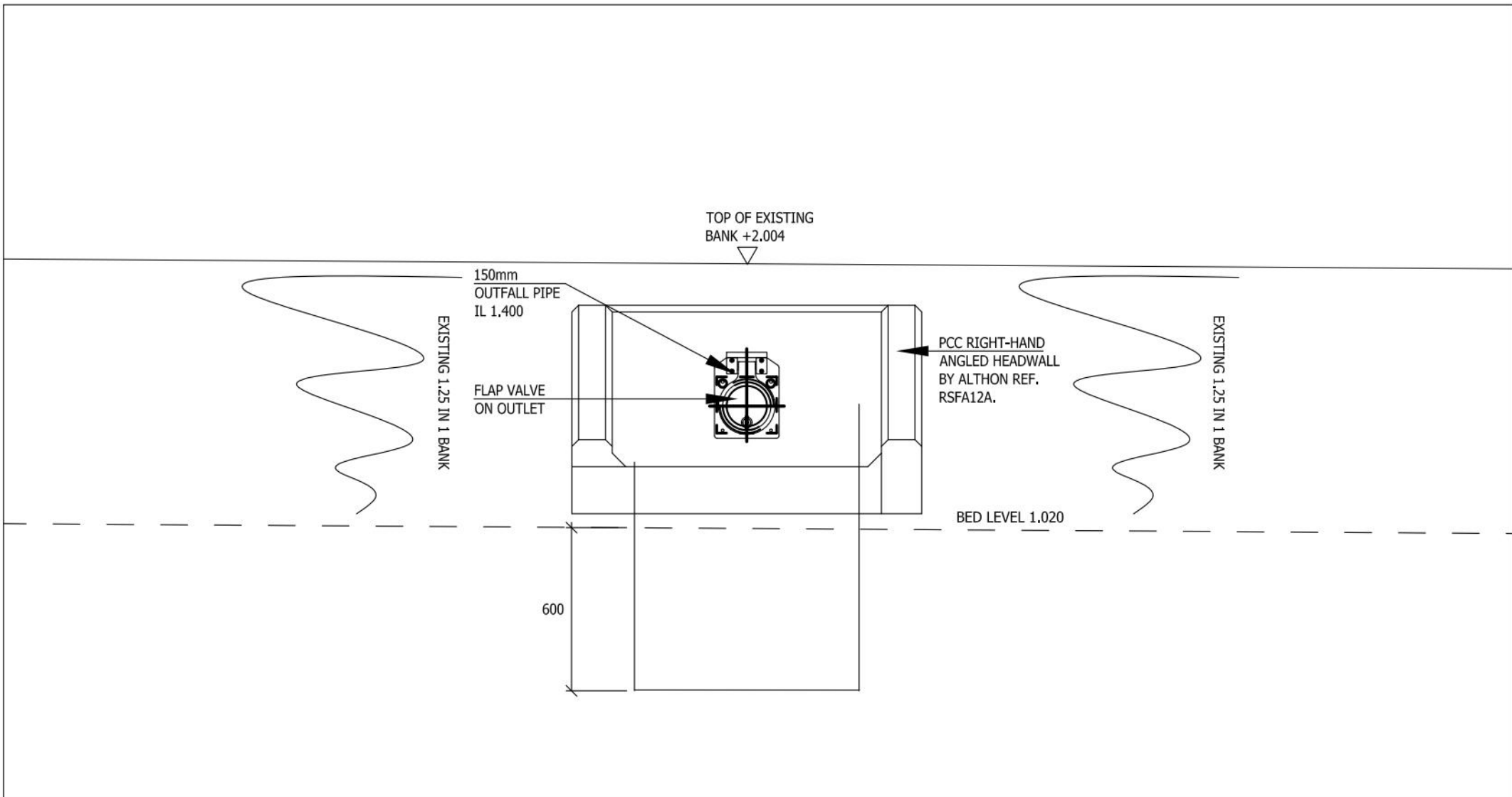
ABBREVIATIONS

BL	BED LEVEL
CL	COVER LEVEL
GL	GROUND LEVEL
IL	INVERT LEVEL
PCC	PRE CAST CONCRETE

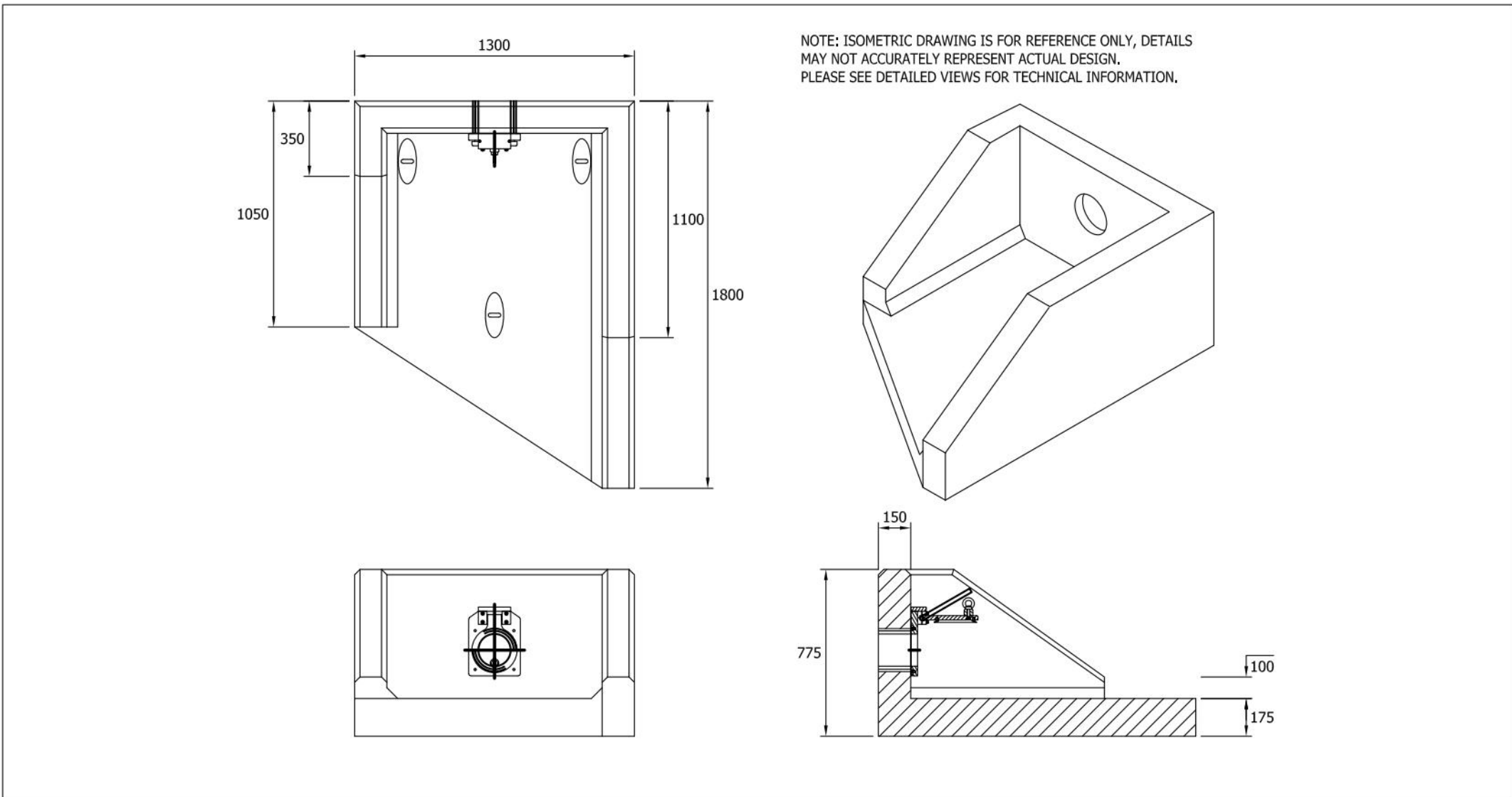


LONG SECTION THROUGH PROPOSED SURFACE WATER SEWER OUTFALL FROM CHAMBER SWMH11 TO CONNECTION TO ALDINGBOURNE RIFE (1:50)

THIS DRAWING HAS BEEN PREPARED WITHOUT AS-BUILT MARK-UPS FROM THE CONTRACTOR AND REPRESENTS FINAL CONSTRUCTION DESIGN INFORMATION ONLY

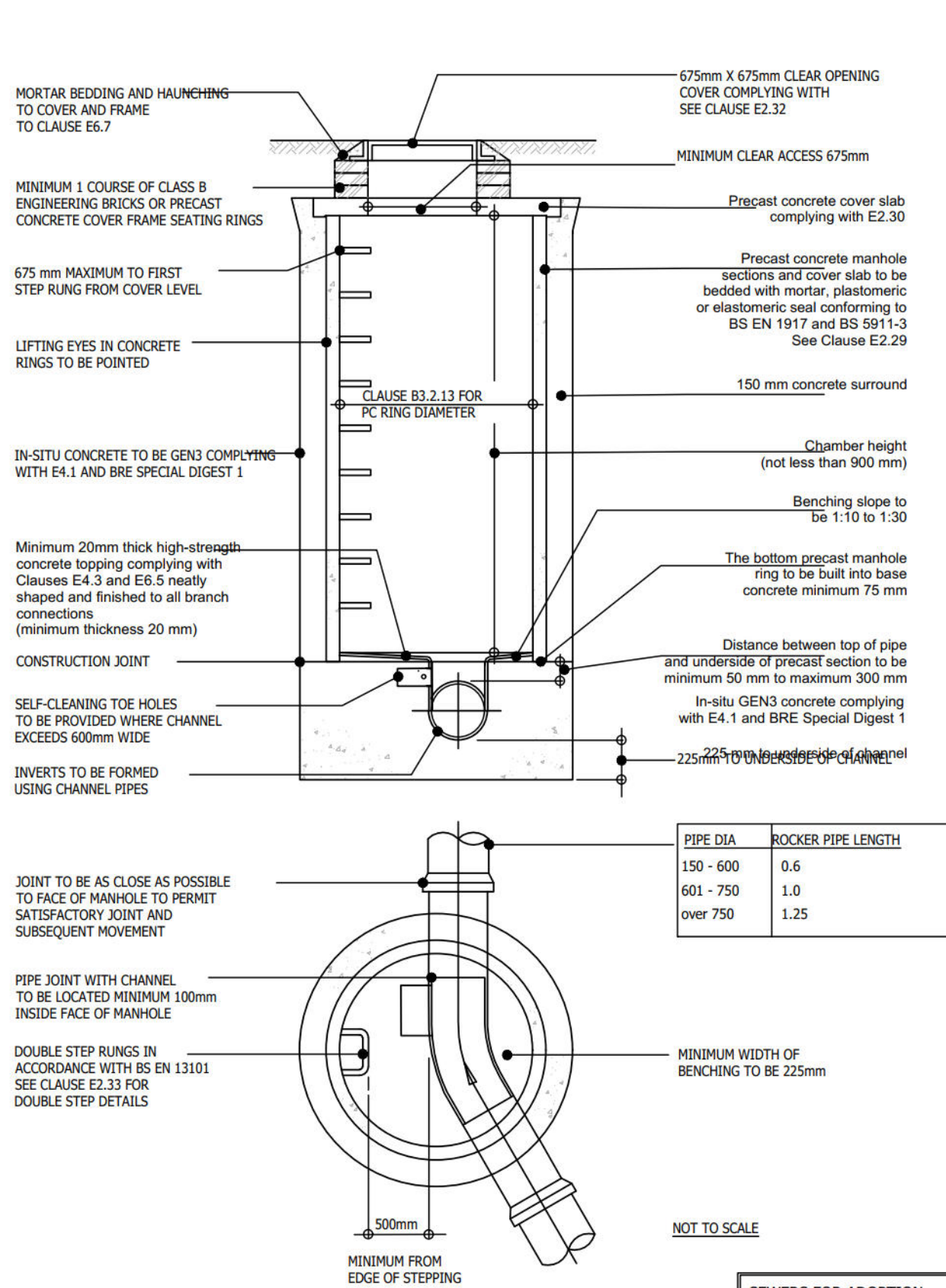


CROSS SECTION THROUGH ALDINGBOURNE RIFE FACING PROPOSED HEADWALL (1:20)



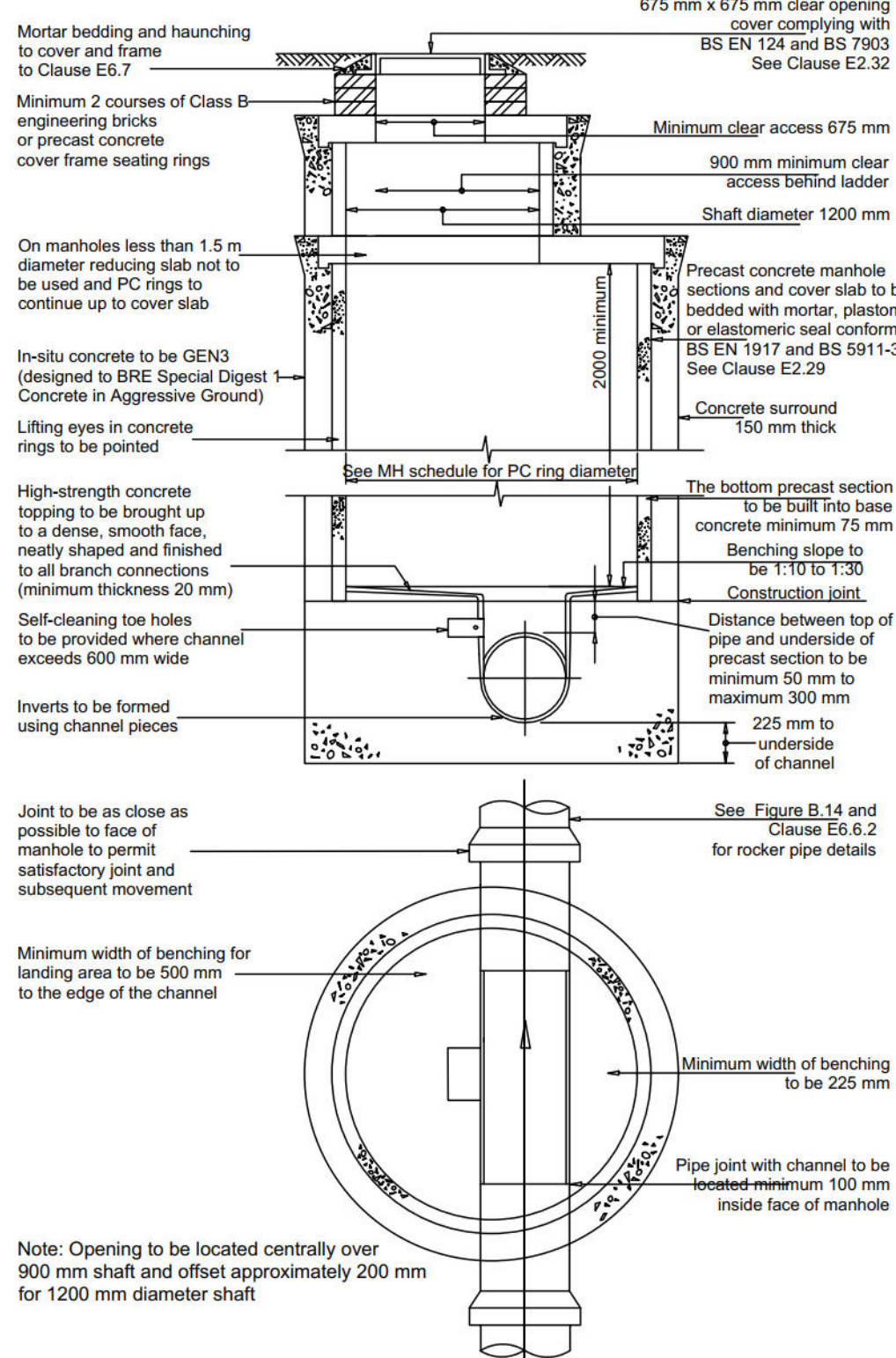
PCC RIGHT-HAND ANGLED HEADWALL BY ALTHON REF. RSFA12A (1:25)

A1	AS BUILT ISSUE	05/01/2026	JR	MR	
Rev	Amendments	Date	Dsn	Chk	
Status		AS BUILT			
Client GRAVITY CONSULTING ENGINEERS					
Architect BOYLE AND SUMMERS					
Project SITE 2 FORMER BARTONS INFANT SCHOOL, NORTH BERSTED					
Title SURFACE WATER SEWER OUTFALL SECTIONS					
Date OCTOBER 2024		Scale @ A1 AS SHOWN			
Clients Ref.		Project Ref. 11642			
 Civils & Transport Gloucester House, 66a Church Walk, Burgess Hill, West Sussex, RH15 9AS Tel 01444 871444 Web: www.gtacivils.co.uk					
Drawing Number 11642/1103			Rev. A1		

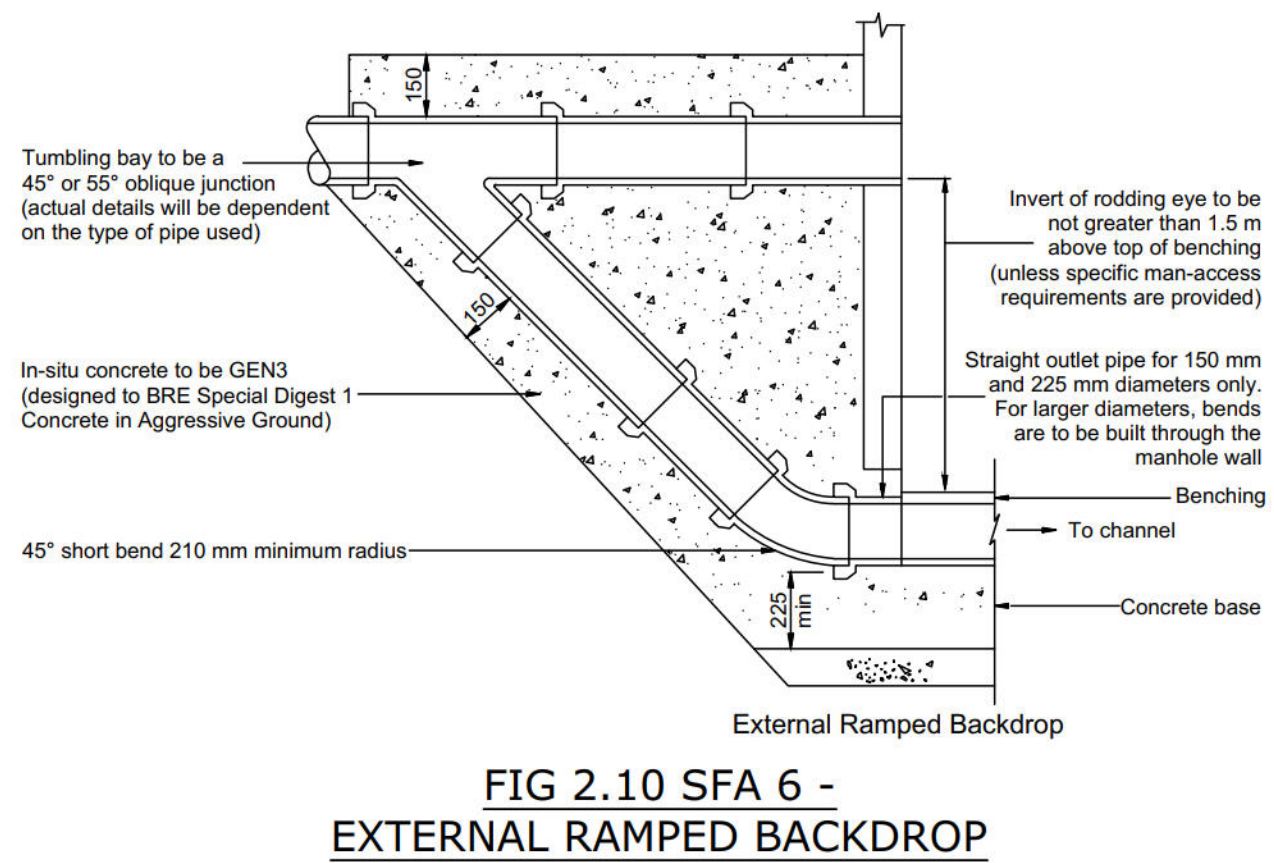


**FIG B10 TO SSG APPENDIX C
MANHOLE TYPE B
DEPTH FROM COVER LEVEL
TO SOFFIT 1.5M TO 3M
(NTS)**

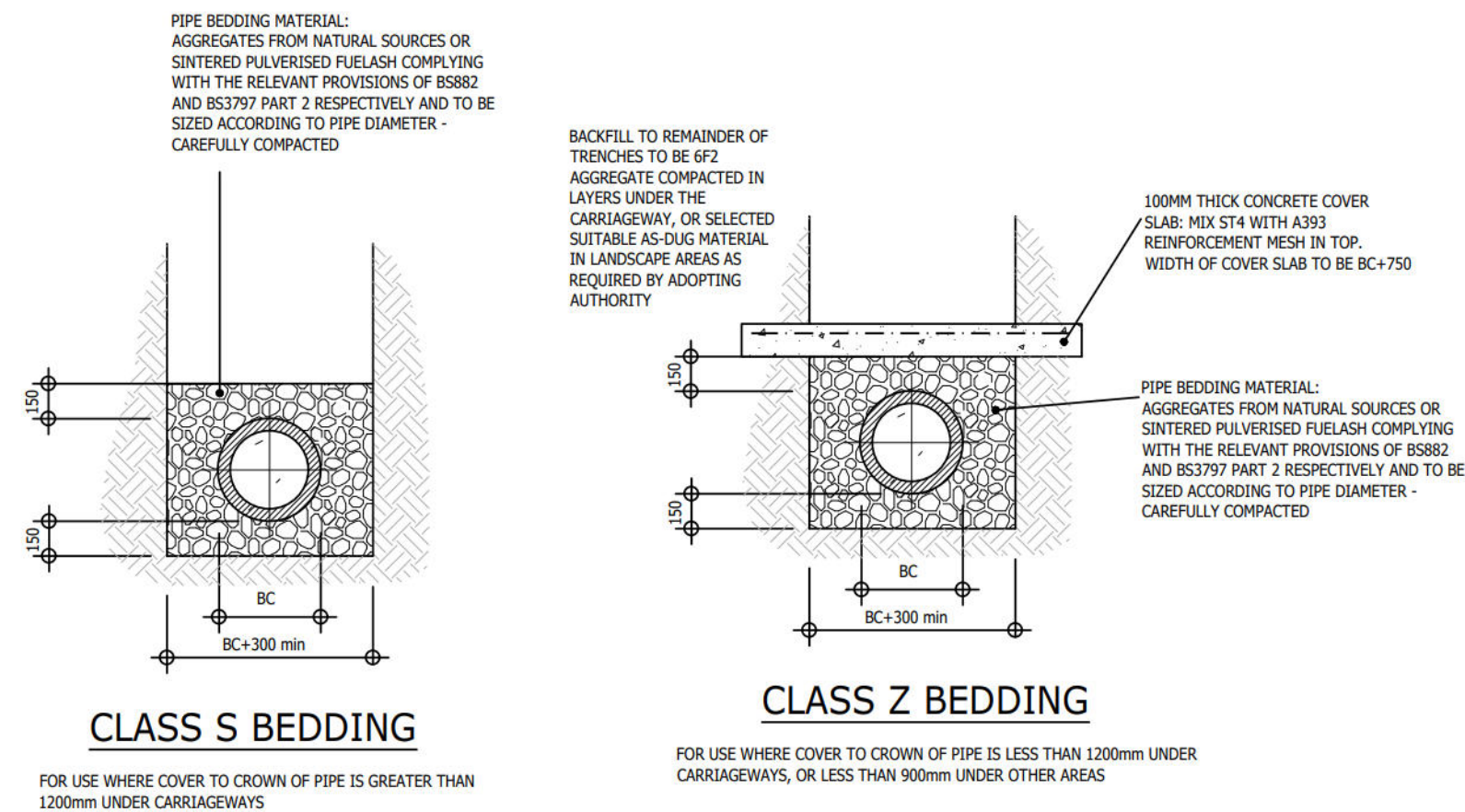
**FIGURE B5
TYPICAL MANHOLE DETAIL - TYPE A1
Depth from cover level to soffit of pipe 3 m to 6 m
Not to scale**



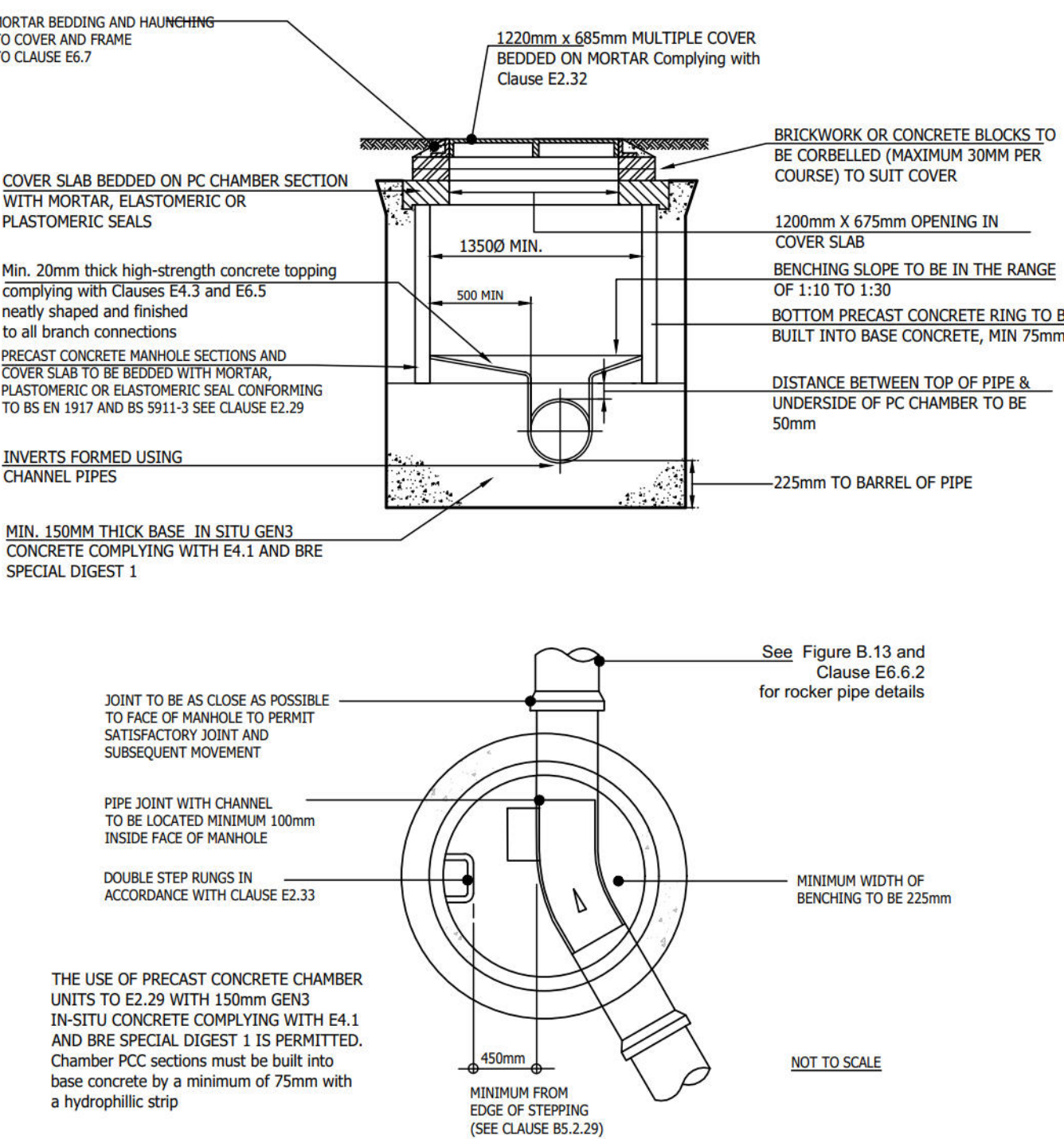
**FIG B5 TO SSG APPENDIX C
MANHOLE TYPE A1
DEPTH FROM COVER LEVEL
TO SOFFIT 3M TO 6M
(NTS)**



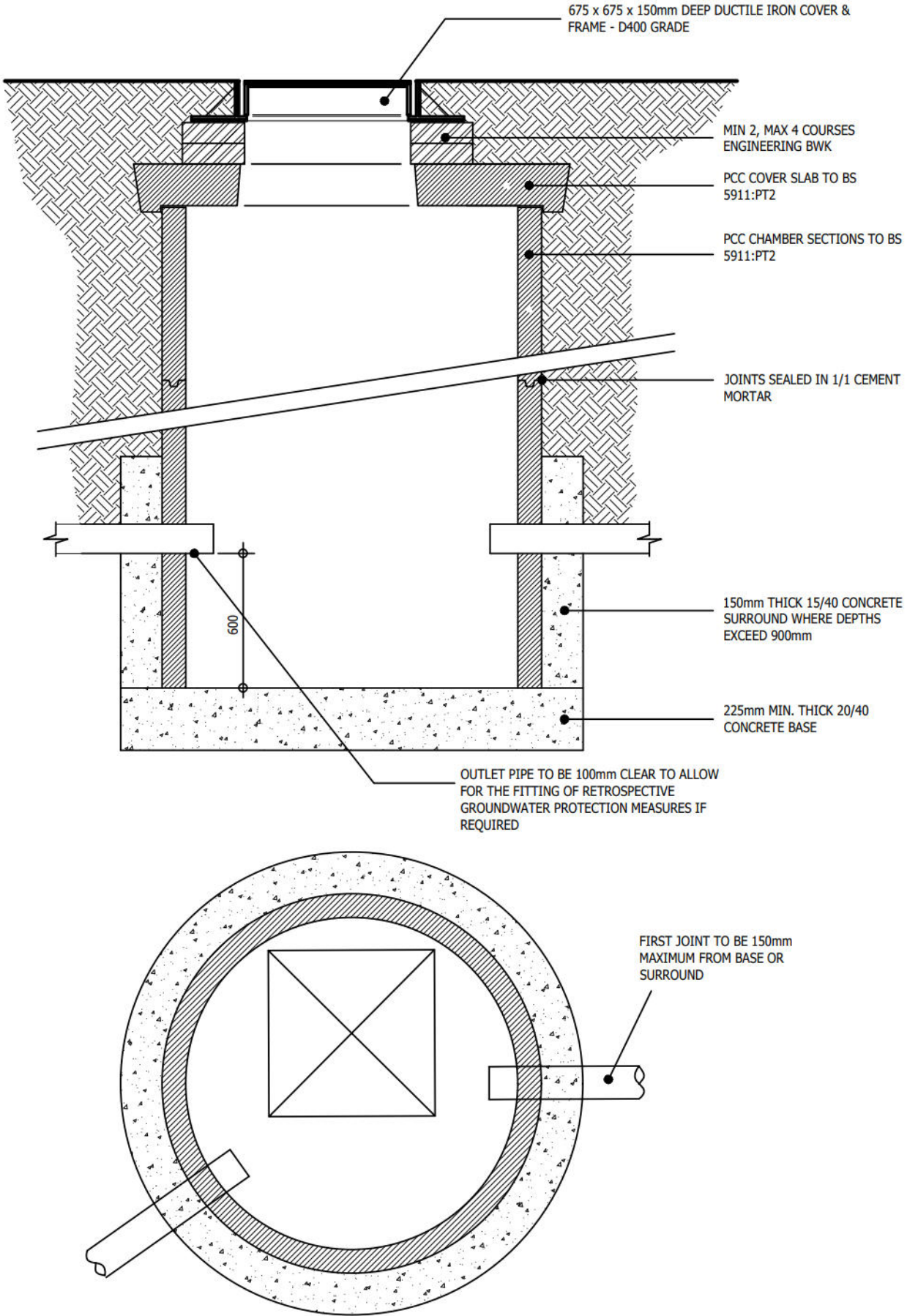
**FIG 2.10 SFA 6 -
EXTERNAL RAMPED BACKDROP**



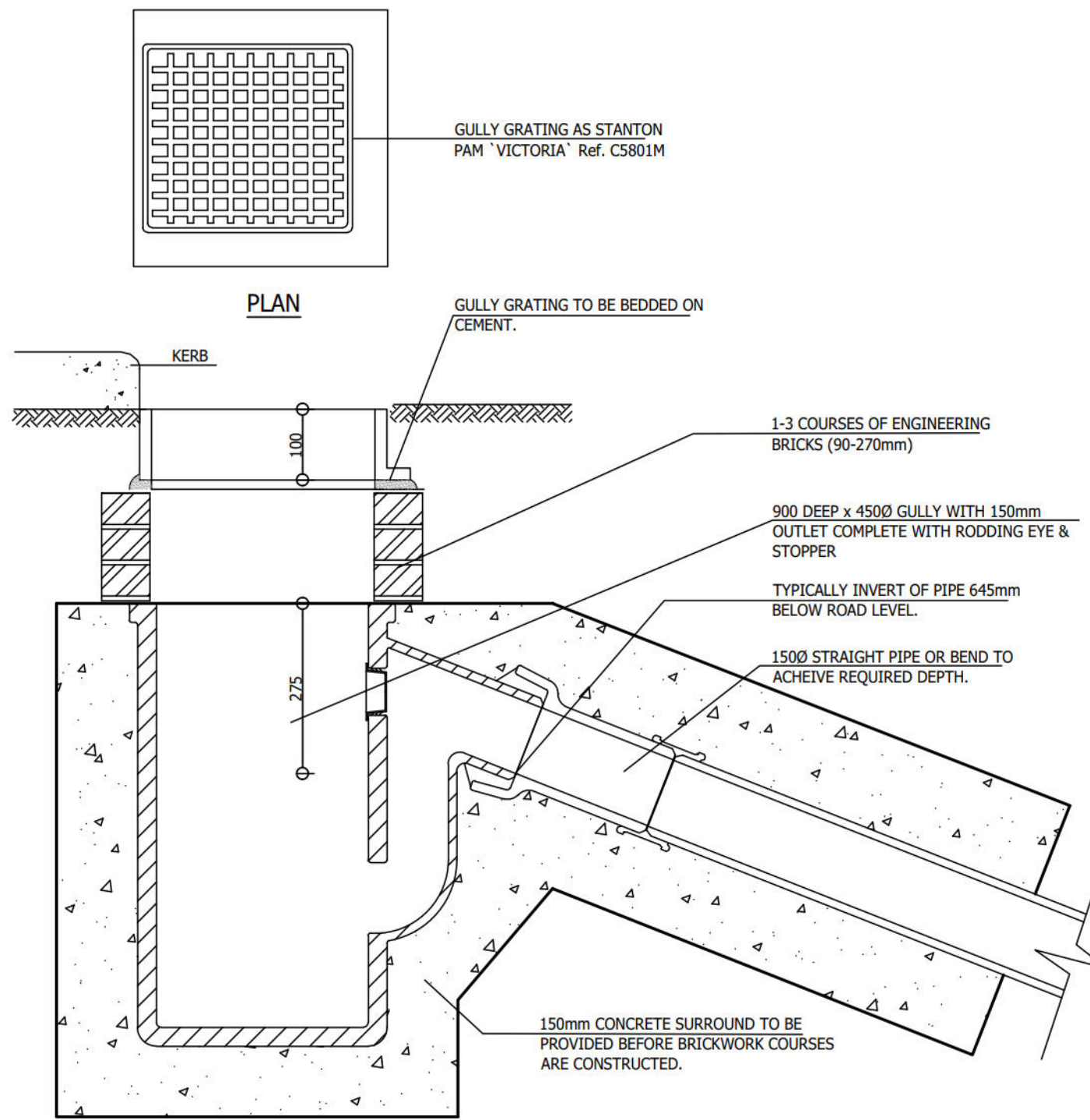
PIPE BEDDING DETAILS



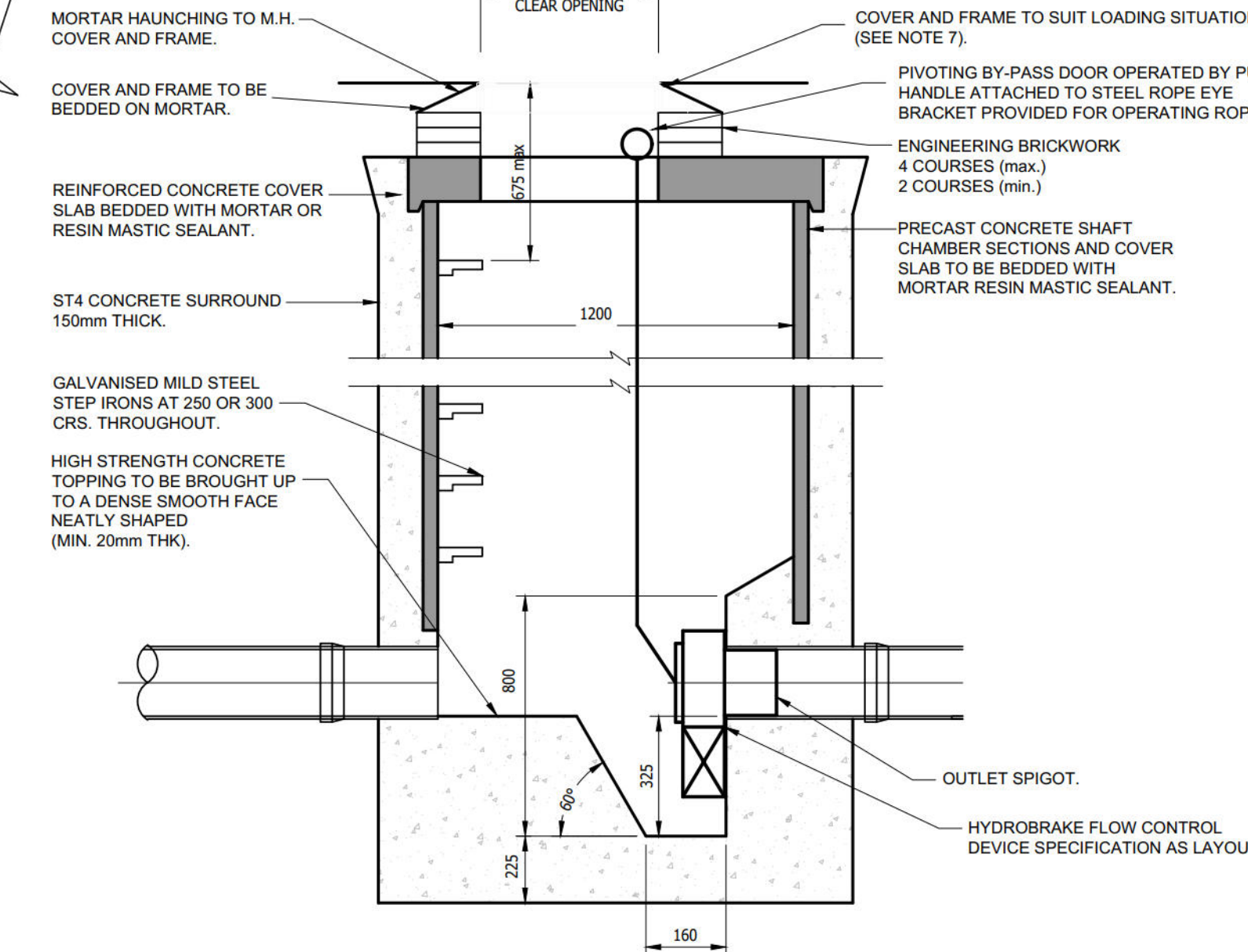
**FIG B15 TO SSG APPENDIX C
MANHOLE TYPE C
DEPTH FROM COVER LEVEL
TO SOFFIT LESS THAN 1.5M
(NTS)**



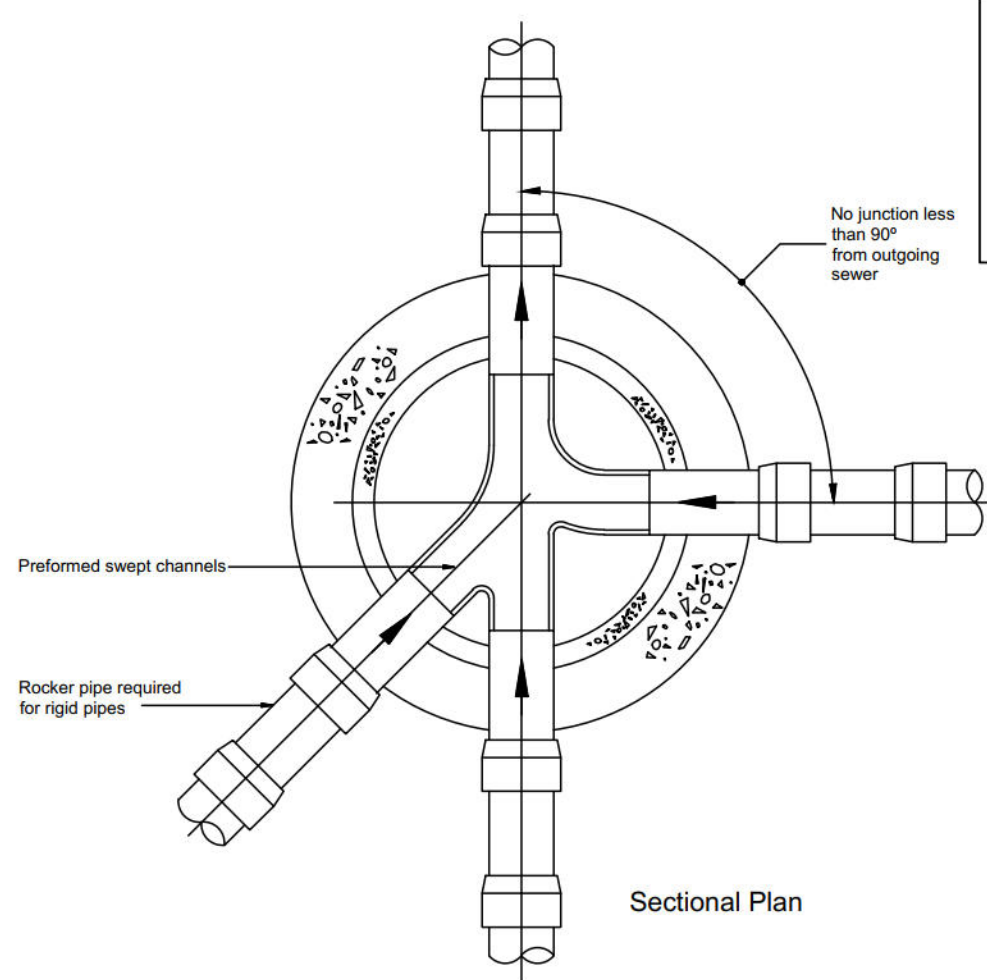
**TYPICAL PRECAST CONCRETE
CATCHPIT (1:20 typical)**



ROAD GULLY



HYDRO-BRAKE FLOW CONTROL CHAMBER



Rigid pipes built into manhole should have a flexible joint as close as feasible to the external face of the structure and the length of the next rocker pipe should be as shown.

Nominal diameter (mm)	Maximum effective length (m)
150 - 600	0.6
601 - 750	1.00
over 750	1.25

All pipes entering the bottom of the manhole to have soffits level.

**FIG 2.9 SFA 6 -
TYPICAL ARRANGEMENT OF PIPE JUNCTIONS WITHIN
MANHOLES (NTS)**

NOTE:
Submission is in accordance with Code for Adoption plus Icosa Water addendums. All clauses noted in this drawing are with reference to WaterUK Code For Adoption Appendix C. Also refer to WSCC Highway Construction details

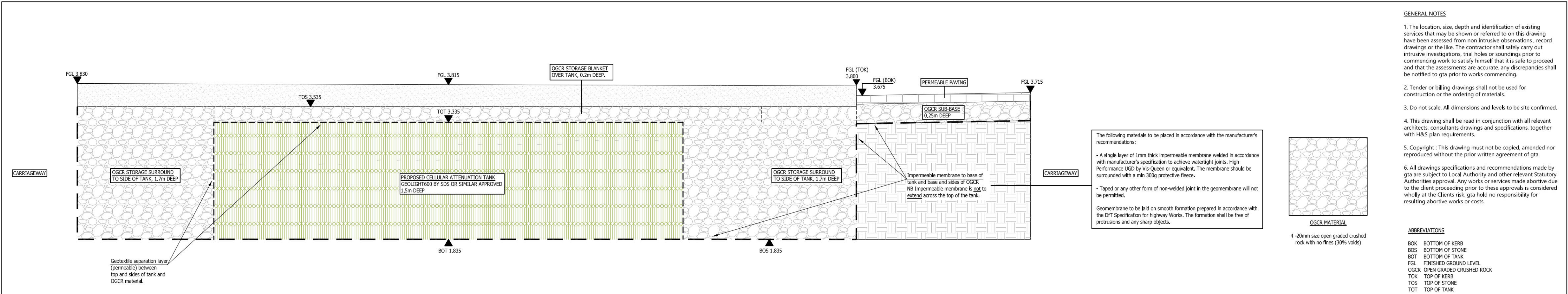
NO WORKS TO COMMENCE UNTIL SECTION 104 AGREEMENT IS SIGNED BY ALL PARTIES.

GENERAL NOTES

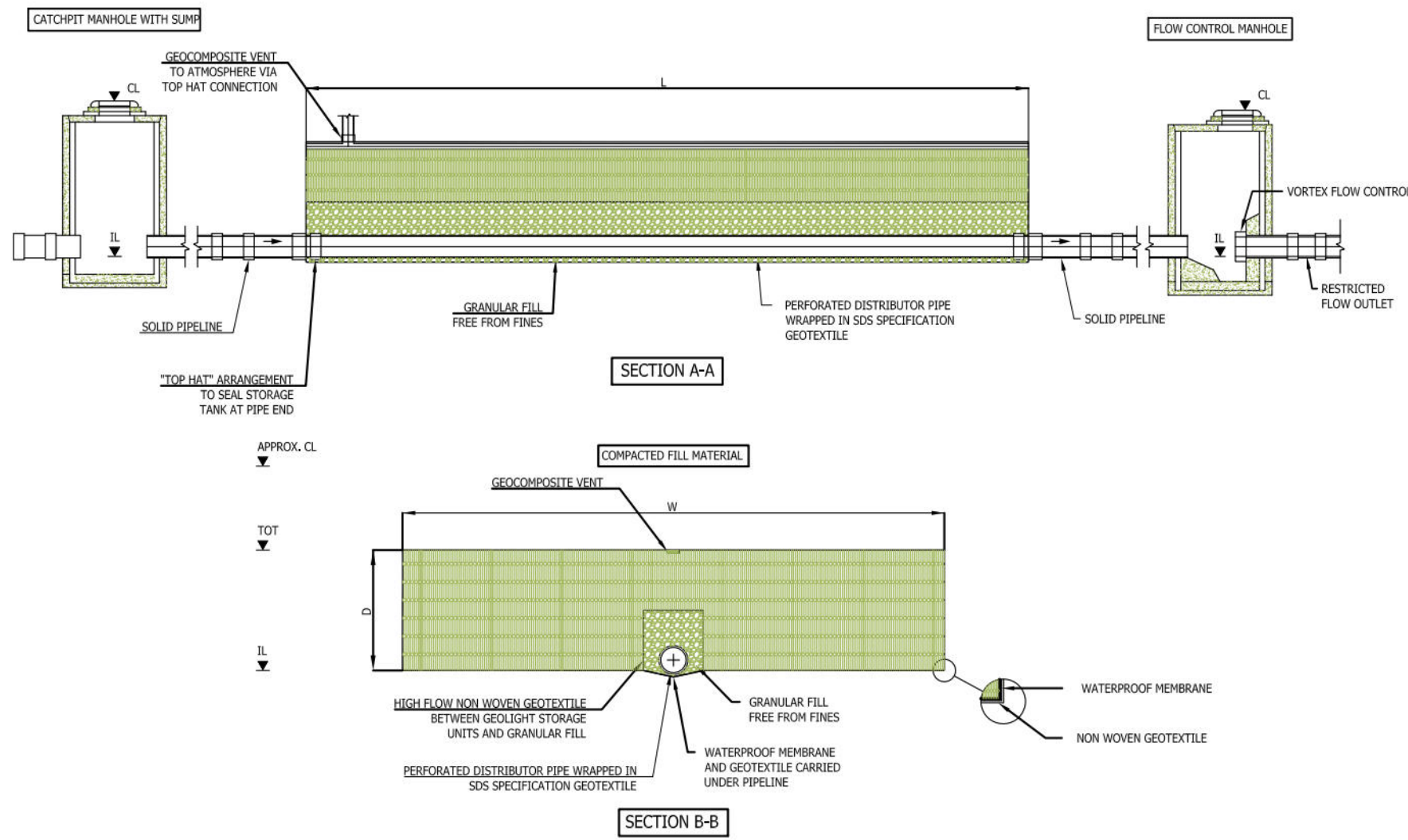
- The location, size, depth and identification of existing services that may be shown or referred to on this drawing have been assessed from non intrusive observations, record drawings or the like. The contractor shall safely carry out intrusive investigations, trial holes or soundings prior to commencing work to satisfy himself that it is safe to proceed and that the assessments are accurate. any discrepancies shall be notified to gta prior to works commencing.
- Tender or billing drawings shall not be used for construction or the ordering of materials.
- Do not scale. All dimensions and levels to be site confirmed.
- This drawing shall be read in conjunction with all relevant architects, consultants drawings and specifications, together with H&S plan requirements.
- Copyright: This drawing must not be copied, amended nor reproduced without the prior written agreement of gta.
- All drawings specifications and recommendations made by gta are subject to Local Authority and other relevant Statutory Authorities approval. Any works or services made abortive due to the client proceeding prior to these approvals is considered wholly at the Clients risk. gta hold no responsibility for resulting abortive works or costs.

THIS DRAWING HAS BEEN PREPARED WITHOUT AS-BUILT MARK-UPS FROM THE CONTRACTOR AND REPRESENTS FINAL CONSTRUCTION DESIGN INFORMATION ONLY

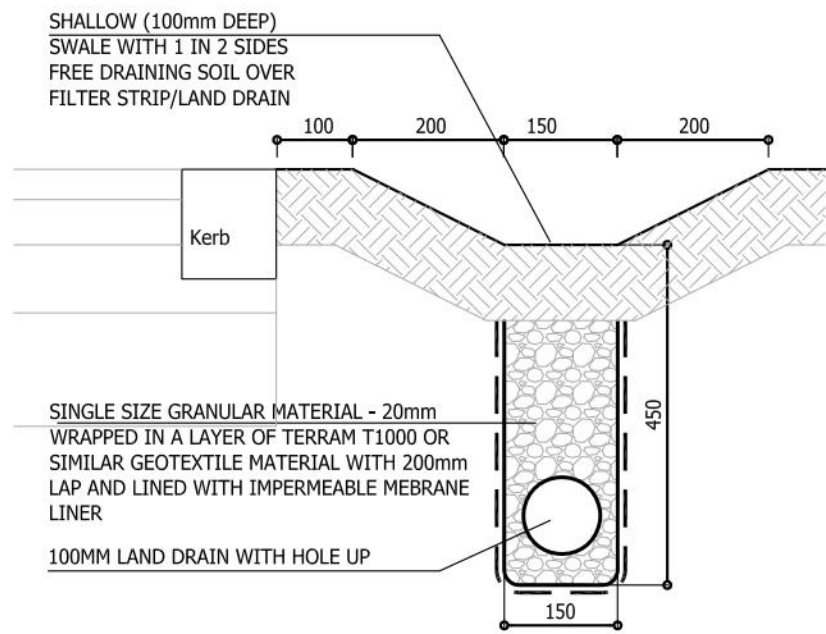
A1	AS BUILT ISSUE	05/01/2026	JR	MR
Rev	Amendments	Date	Dsn	Chk
Status	AS BUILT			
Client	GRAVITY CONSULTING ENGINEERS			
Architect	BOYLE & SUMMERS			
Project	SITE 2 FORMER BARTONS INFANT SCHOOL, NORTH BERSTED			
Title	MAIN DRAINAGE DETAILS SHEET 1 OF 2			
Date	OCTOBER 2024	Scale @ A1	NTS	
Clients Ref.		Project Ref.	11642	
Gloucester House, 66a Church Walk, Burgess Hill, West Sussex, RH15 9AS Tel:01444 871444 Web: www.gtacivils.co.uk				
Drawing Number	11642/1501			Rev.
				A1



SECTION THROUGH COMPOSITE STORAGE - 1:25



ATTENUATION TANK DETAIL SDS



SWALE WITH FILTER STRIP & LAND DRAIN UNDER

GENERAL NOTES

1. The location, size, depth and identification of existing services that may be shown or referred to on this drawing have been assessed from non intrusive observations , record drawings or the like. The contractor shall safely carry out intrusive investigations, trial holes or soundings prior to commencing work to satisfy himself that it is safe to proceed and that the assessments are accurate. any discrepancies shall be notified to gta prior to works commencing.
2. Tender or billing drawings shall not be used for construction or the ordering of materials.
3. Do not scale. All dimensions and levels to be site confirmed.
4. This drawing shall be read in conjunction with all relevant architects, consultants drawings and specifications, together with H&S plan requirements.
5. Copyright : This drawing must not be copied, amended nor reproduced without the prior written agreement of gta.
6. All drawings specifications and recommendations made by gta are subject to Local Authority and other relevant Statutory Authorities approval. Any works or services made abortive due to the client proceeding prior to these approvals is considered wholly at the Clients risk. gta hold no responsibility for resulting abortive works or costs.

ABBREVIATIONS

- BOK BOTTOM OF KERB
BOS BOTTOM OF STONE
BOT BOTTOM OF TANK
FGL FINISHED GROUND LEVEL
OGCR OPEN GRADED CRUSHED ROCK
TOK TOP OF KERB
TOS TOP OF STONE
TOT TOP OF TANK

THIS DRAWING HAS BEEN PREPARED WITHOUT AS-BUILT MARK-UPS FROM THE CONTRACTOR AND REPRESENTS FINAL CONSTRUCTION DESIGN INFORMATION ONLY

A1	AS BUILT ISSUE	05.01.2026	JR	MR
Rev	Amendments	Date	Dsn	Chk
Status		AS BUILT		
Client		GRAVITY CONSULTING ENGINEERS		
Architect		BOYLES & SUMMERS		
Project		SITE 2 FORMER BARTONS INFANT SCHOOL, NORTH BERSTED		
Title		MAIN DRAINAGE DETAILS SHEET 2 OF 2		
Date		Scale @ A1		
OCTOBER 2024				
Clients Ref.		Project Ref.		
		11642		
 Civils & Transport Glooucester House, 66a Church Walk, Burgess Hill, West Sussex, RH15 9AS Tel:01444 871444 Web: www.gtacivils.co.uk				
Drawing Number		11642/1502		Rev.
				A1

Appendix B - Attenuation Tank



Ryan Thomas
Parchow Groundworks

ATTENUATION TANK 17/02/2025, 13:08

North Bersted 469

Monday 17 February 2025

Prepared For Lovell

6 Issues Identified



START OF ATTENUATION TANK EXCAVATION

Assigned To Lovell



ATTENUATION TANK EXCAVATED AND BLINDED WITH 20MM SHINGLE

Assigned To Lovell



CRATES INSTALLED ON MEMBRANES

Assigned To Lovell



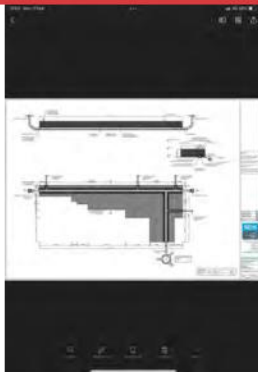
MEMBRANE WRAPPED AROUND TANK

Assigned To Lovell



SIGN OFF SHEET FOR ATTENUATION TANK

Assigned To Lovell



ATTENUATION TANK DRAWING

Assigned To Lovell







SDS Ltd Sign off QA Sheet

ATTENUATION TANK	ATT:		DATE:	17/02/25
SITE:	Former Bartons Infant School		TANK VOLUME:	205.125m ³
LOCATION:	North Bersted		DIMENSIONS:	Various
DRAINAGE:	ATTENUATION		JOB NO:	1156-24

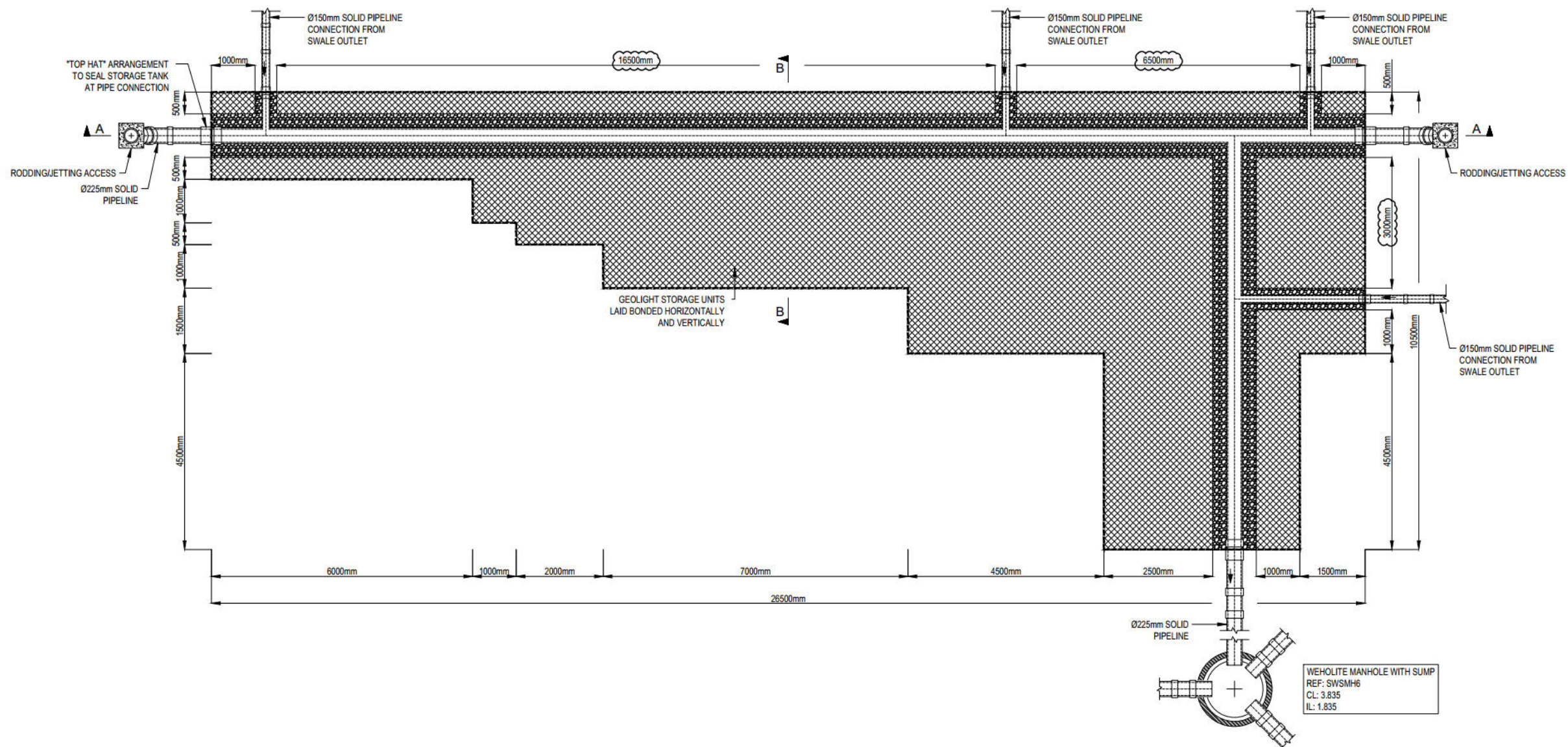
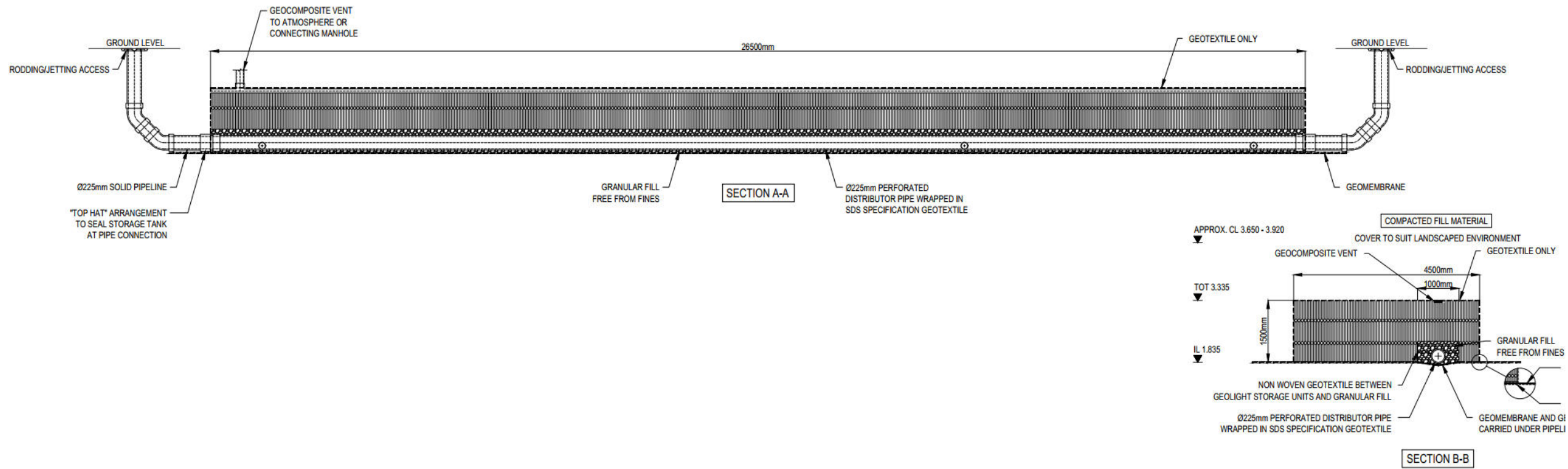
SECTION 1 AND 7 TO BE SIGNED BY CLIENTS ENGINEER

CHECK	DATE	COMMENT	SDS	
1. SETTING OUT and FORMATION	17/02/25	Engineer to sign and date prior to laying of materials	Sw	
2. TANK BASE		Installed as per manufacturers recommendations	Sw	
3. EXTERNAL PROTECTIVE COVERINGS:		Installed as per manufacturers recommendations	Sw	
a. Base of Tank		Installed as per manufacturers recommendations	Sw	
b. Vertical sides		Installed as per manufacturers recommendations	Sw	
c. Top of tank		Installed as per manufacturers recommendations	Sw	
4. WELDED GEOMEMBRANE		Installed as per manufacturers recommendations	Sw	
a. Welded joint		Installed as per manufacturers recommendations	Sw	
b. Base of Tank		Installed as per manufacturers recommendations	Sw	
c. Vertical sides		Installed as per manufacturers recommendations	Sw	
d. Top of Tank		Installed as per manufacturers recommendations	Sw	
5. GEOLIGHT UNITS		Installed as per manufacturers recommendations	Sw	
6. GEOTEXTILE PIPE TRENCH		Installed as per manufacturers recommendations	Sw	
7. PIPEWORK: mm		Installed as per manufacturers recommendations	Sw	
a. Invert levels		Engineer to sign and date prior to laying of materials	N/A	
b. position		Engineer to sign and date prior to laying of materials	N/A	
c. diameter		Engineer to sign and date prior to laying of materials	N/A	
d. penetrations sealed		Installed as per manufacturers recommendations	Sw	
8. VENT SYSTEM		Installed as per manufacturers recommendations	Sw	
9. BACKFILLING				

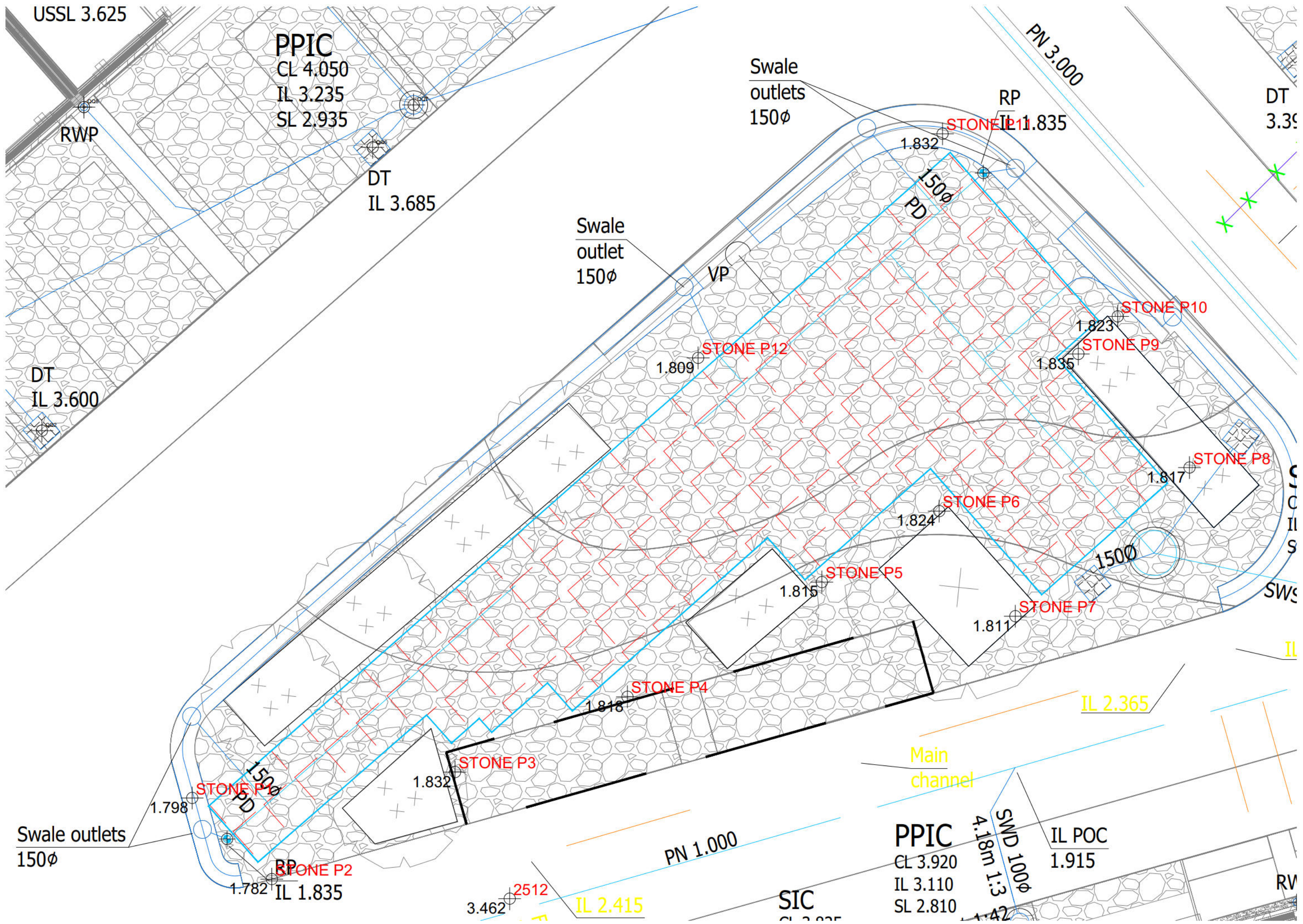
PLEASE NOTE: Only back fill around pipe after the connection between tank and manhole is complete so that the pipe is not compromised in any way with an open end. Failure to comply may result in the pipe being damaged. It may be necessary to put stone over pipe when filling pipe trench but make sure enough pipe is protruding so that stone is not directly on open end. SDS will not accept responsibility.

In signing this document, you are in agreement that the above work meets your specifications. Please note that changes to any project elements after sign-off may be subject to additional charges.

SUB CONTRACTOR	SUSTAINABLE DRAINAGE SYSTEMS LTD	Signed	
		Printed	STUART WEBB
MAIN CONTRACTOR		Signed	
		Printed	A Thomas



REFERENCE DRAWINGS:		
Drawing Number	Revision	Dra
11642/1601	T8	DRJ



USSL 3.625

PPIC
CL 4.050
IL 3.235
SL 2.935

RWP

DT
IL 3.685

Swale
outlets
150ø

RP

PN 3.000

DT
3.39

DT
IL 3.600

Swale
outlet
150ø

VP

STONE P12

STONE P11

STONE P10

STONE P9

STONE P8

STONE P6

STONE P5

STONE P7

STONE P4

STONE P3

STONE P1

STONE P2

Swale outlets
150ø

Main
channel

PPIC
CL 3.920
IL 3.110
SL 2.810

IL POC
1.915

SND 100ø
4.18m 1:3

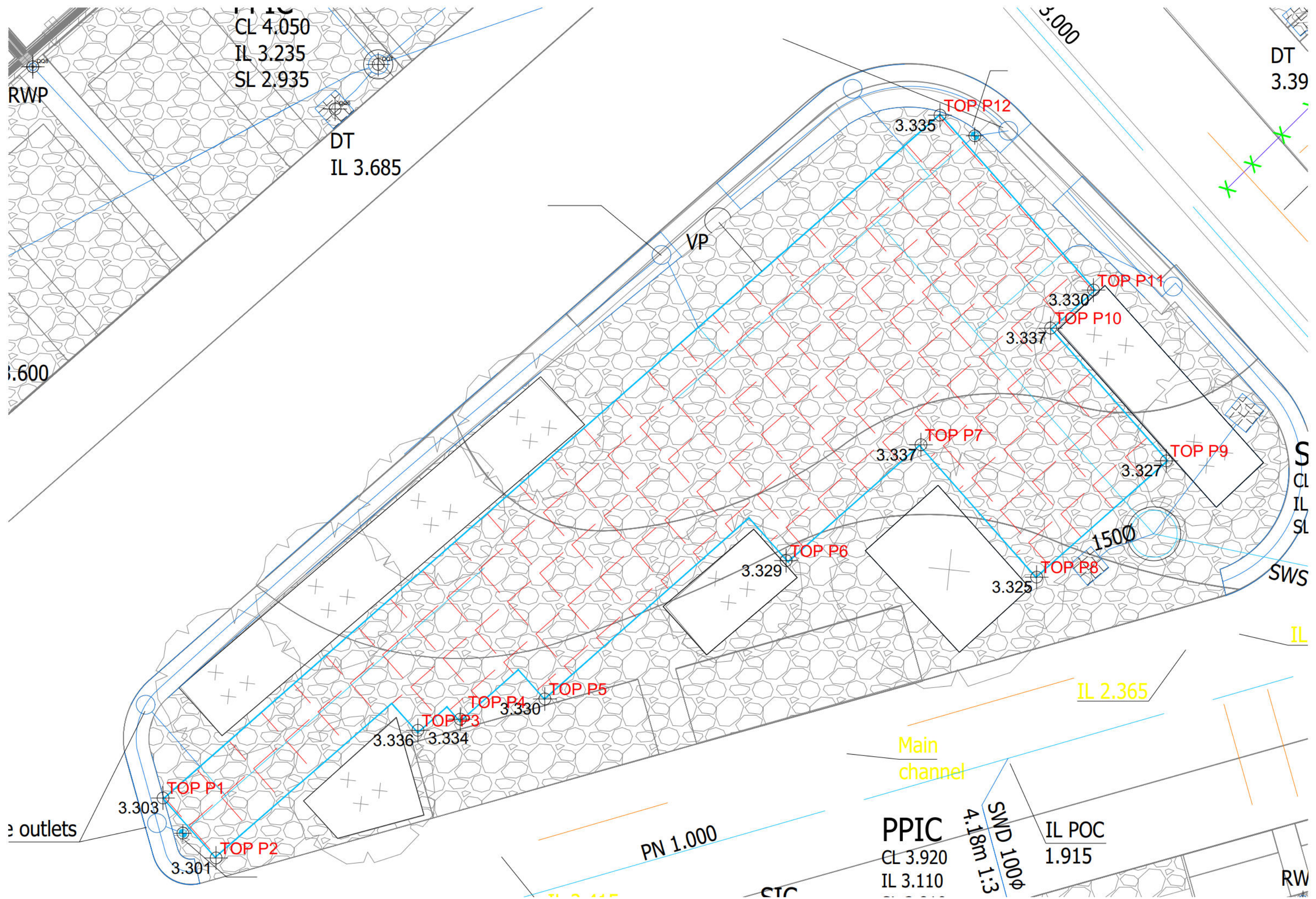
PN 1.000

SIC

IL 2.415

2512
3.462

RV



Appendix C – Flow Control



North Bersted

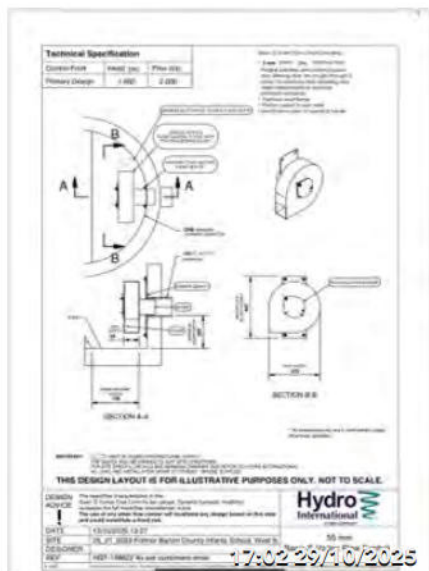
hydro break, flow control.

Thursday, 30 October 2025

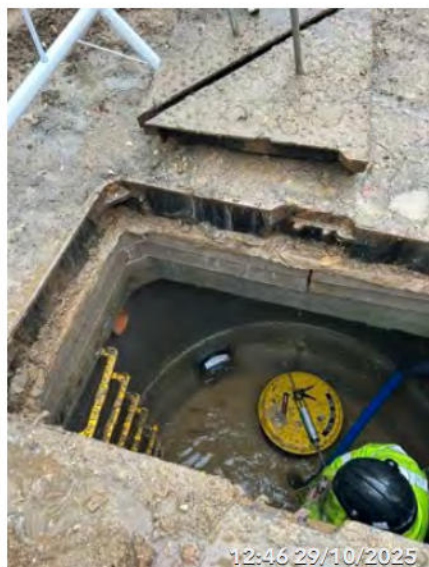
Prepared For Lovells



Hydro Break, Flow Control
Assigned To Lovells
SWSMH3
Storm manhole housing the hydro break.



Hydro Break, Flow Control
Assigned To Lovells
Technical specifications, for hydro break.



Hydro Break, Flow Control
Assigned To Lovells
Photo of the hydro break fitted to storm manhole
over .150mm out let pipe.



Hydro Break, Flow Control

Assigned To Lovells

Photo of the hydro break fitted to storm manhole over .150mm out let pipe.



Jim Mansbridge
Parchow



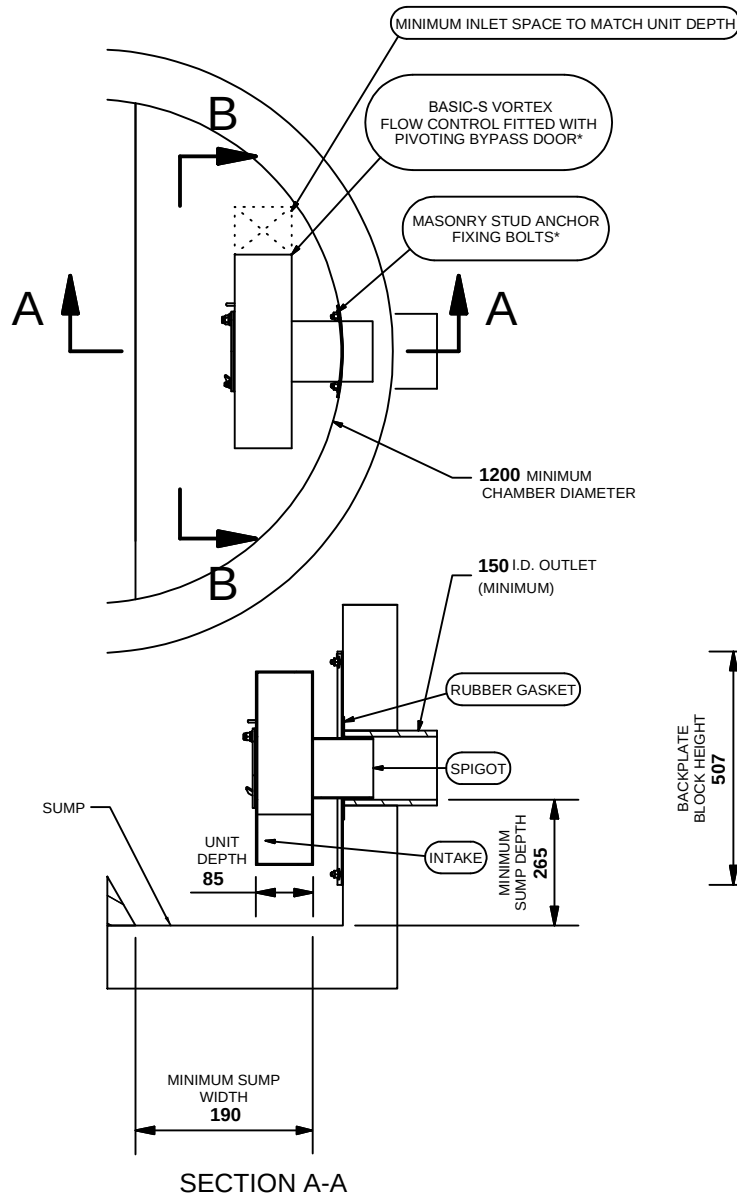


Technical Specification

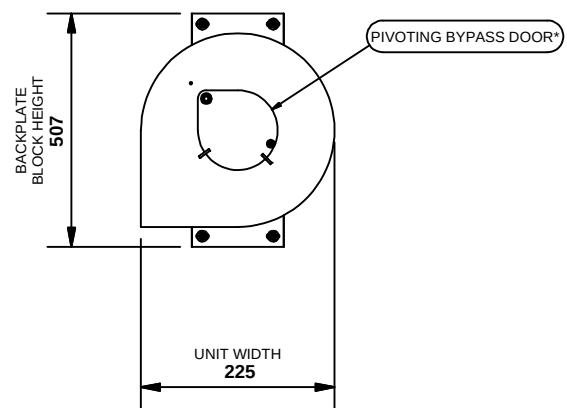
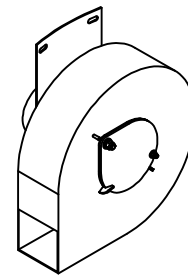
Control Point	Head (m)	Flow (l/s)
Primary Design	1.900	2.000

Basic-S Vortex Flow Control including:

- 3 mm grade 304L stainless steel
- Integral stainless steel pivoting bypass door allowing clear line of sight through to outlet, c/w stainless steel operating rope
- Bead blasted finish to maximise corrosion resistance
- Stainless steel fixings
- Rubber gasket to seal outlet
- Identification plate on operating handle



SECTION A-A



SECTION B-B

* All measurements are in millimetres unless otherwise specified

IMPORTANT:  LIMIT OF HYDRO INTERNATIONAL SUPPLY
THE DEVICE WILL BE HANDED TO SUIT SITE CONDITIONS
FOR SITE SPECIFIC DETAILS AND MINIMUM CHAMBER SIZE REFER TO HYDRO INTERNATIONAL
ALL CIVIL AND INSTALLATION WORK BY OTHERS * WHERE SUPPLIED

THIS DESIGN LAYOUT IS FOR ILLUSTRATIVE PURPOSES ONLY. NOT TO SCALE.

DESIGN ADVICE



The head/flow characteristics of this Basic-S Vortex Flow Controls are unique. Dynamic hydraulic modeling evaluates the full head/flow characteristic curve.
The use of any other flow control will invalidate any design based on this data and could constitute a flood risk.

Hydro
International
A CRH COMPANY

55 mm

Basic-S Vortex Flow Control

DATE	13/10/2025 13:27
SITE	25_21_0323 Former Barton County Infants School, West Si
DESIGNER	
REF	HQT-198822 As per customers email

Appendix D – Permeable Driveways



Ryan Thomas
Parchow Groundwork's

DRIVEWAYS 25/09/2025, 19:14

north bersted

Thursday, 25 September 2025

Prepared For Lovell Homes

4 Issues Identified



EXCAVATING FOR THE DT, CONNECTION TO STORM LINE AND GEOTEXTILE

Assigned To Lovell Homes



INSTALLING DT

Assigned To Lovell Homes



30/70 STONE ADDED TO BOTTOM LAYER

Assigned To Lovell Home



2/20 STONE TO MIDDLE LAYER











Appendix E – Swale



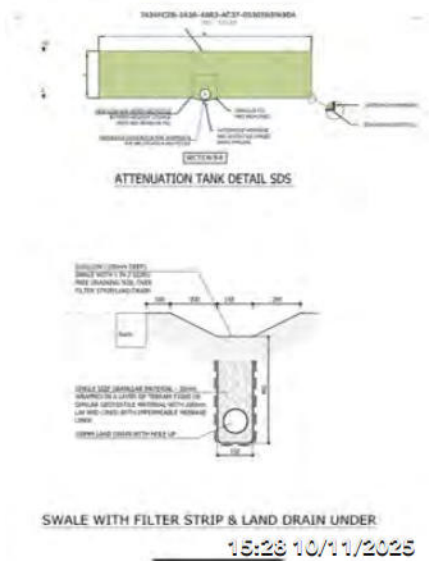
North Bersted
swale

Monday, 10 November 2025

Prepared For Lovells



Swale On The outside of The Attenuation Tank
Assigned To Lovells
Drawing ref:11642 1601 C6 , showing the layout of
the land drain and the swale.



Swale On The outside of The Attenuation Tank
Assigned To Lovells
Swale with land drain fitted as drawing detail,
ref:11642 1502 C1



Swale On The outside of The Attenuation Tank
Assigned To Lovells
Membrane laid out to the kerb, shingle fill.



Swale On The outside of The Attenuation Tank
Assigned To Lovells
Membrane laid out to the kerb, shingle fill.
.100mm land drain wrapped in terram,



Swale On The outside of The Attenuation Tank
Assigned To Lovells
Membrane laid out to the kerb, shingle fill.
.100mm land drain wrapped in terram,



Swale On The outside of The Attenuation Tank
Assigned To Lovells
Membrane laid out to the kerb, shingle fill.
.100mm land drain wrapped in terram,



Swale Outside Of The Attenuation Tank
Assigned To Lovells
Back fill over the wraparound.
Level with stone.



Swale Outside Of The Attenuation Tank
Assigned To Lovells
Back fill over the wraparound.
Level with stone.



Jim Mansbridge
Parchow

























Appendix F – Headwall Outfall



Ryan Thomas
Parchow Groundwork's

HEADWALL 07/10/2025, 16:41

north bersted 469

Tuesday, 7 October 2025

Prepared For Lovell Home

5 Issues Identified



150MM DRAINPIPE LAID TO HEAD WALL

Assigned To Lovell Home



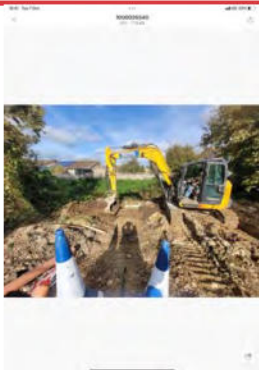
500MM CONCRETE TOE INSTALLED

Assigned To Lovell Home



HEADWALL PLACED ON CONCRETE BEDDING

Assigned To Lovell Home



PIPE CONNECTED INTO HEADWALL WITH 600MM ROCKER AND SURROUNDED IN CONCRETE

Assigned To Lovell Home



HEADWALL COMPLETE AND THE STREAM CLEANED OUT

Assigned To Lovell Home











Appendix G – CCTV Drainage Survey

ALL HOURS PLUMBING

All Hours Plumbing Ltd
70 Widley Road, Stamshaw
Portsmouth, Hants
Tel: [REDACTED]

Project-Information

Project Name:
469

Contract Number:

Contact:
Parchow Groundworks

Date:
06/11/25

Client: **Parchow Groundworks**
Contact:
Position:
Road: **Widley Farm, New Down Lane**
Town: **Purbrook**
Post Code: **PO7 5SE**
County: **Hampshire**
Telephone:

Contractor: **All Hours Plumbing Ltd**
Contact: **Steve Guest**
Position: **Owner**
Road: **70 Widley Road, Stamshaw**
Town: **Portsmouth**
County: **Hampshire**
Telephone: [REDACTED]
Fax: [REDACTED]
E-Mail: [REDACTED]

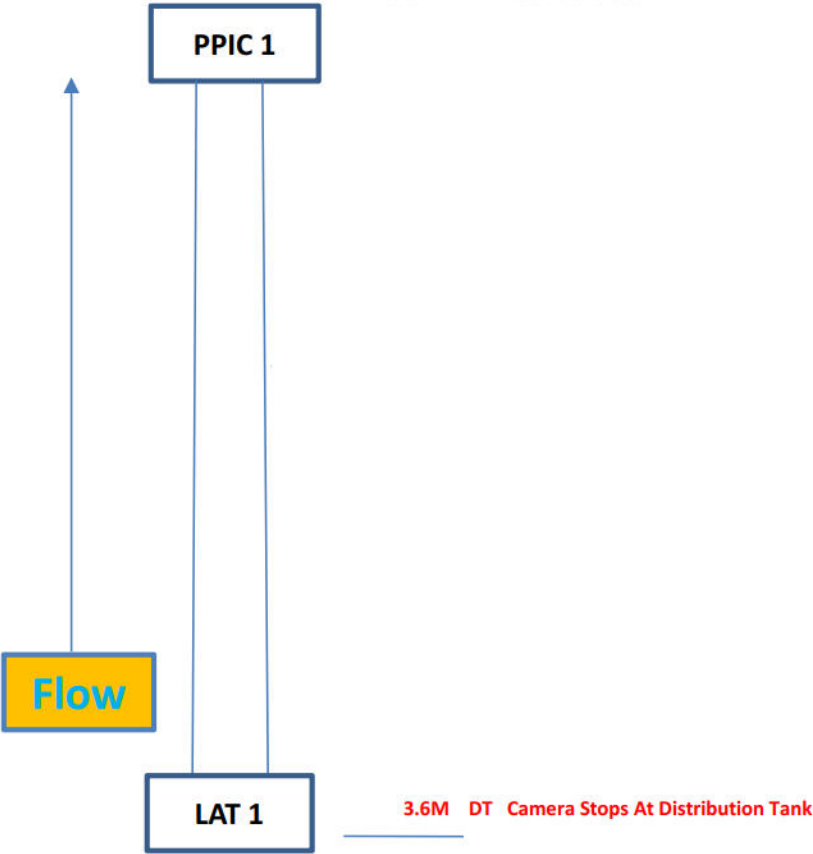
Site: **469**
Engineer:
Position:
Road:
Town: **North Bersted**
County: **West Sussex**
Telephone:

Inspection Report

Date: 06/11/25	Job No:	Weather: Dry	Operator: Mick	Section Number 2	PLR:
Present:	Vehicle: WM69 YNA	Camera: Camera 1	Preset:	Cleaned: Yes	Grade:
Site; 469 Place: North Berstad		Division: District: S.W Tape No: 1		Start MH: PPIC 1 End MH: LAT 1 Total Length:	
Purpose: Use: Catchment:	Structural Defects STORM P1 Schedule	Size/Shape: Circular dia 100mm Material: PLASTIC Lining: Category:			

Position Code Observation

0.0M ST Start Of Survey
0.0M WL Water Level 0 %

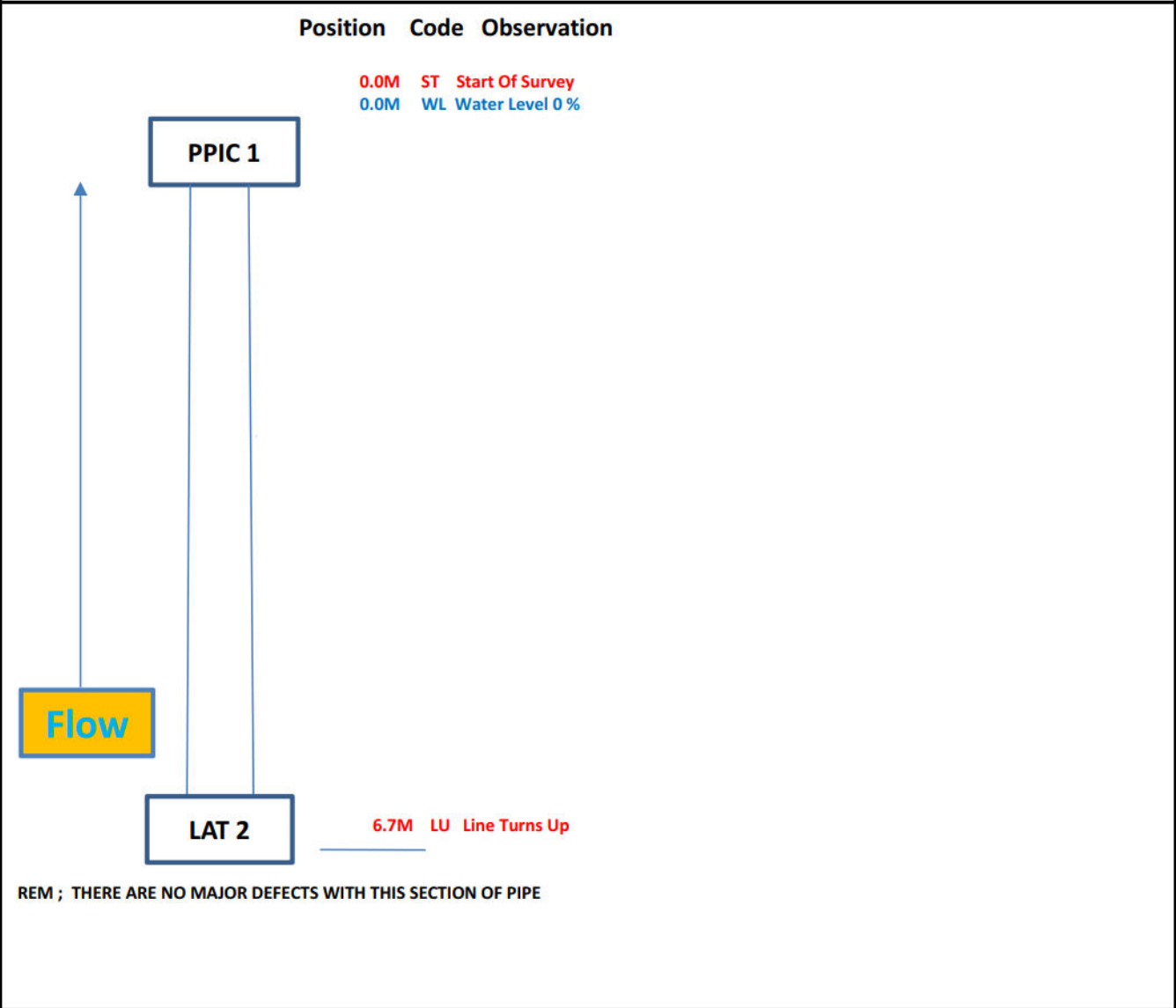


REM ; THERE ARE NO MAJOR DEFECTS WITH THIS SECTION OF PIPE

Structural Defects	Constructional Features
Service Defects	Miscellaneous Features

Inspection Report

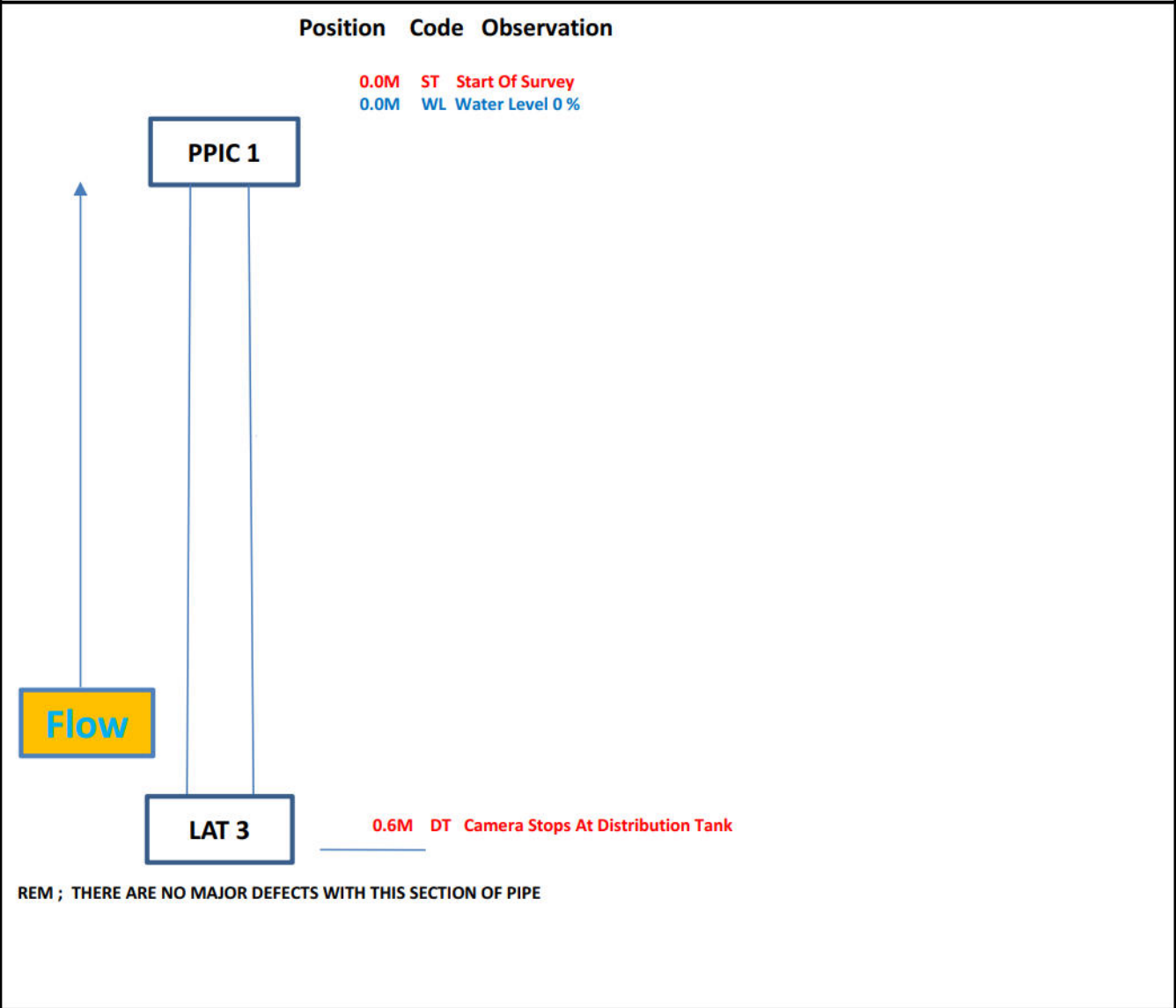
Date: 06/11/25	Job No:	Weather: Dry	Operator: Mick	Section Number 3	PLR:
Present:	Vehicle: WM69 YNA	Camera: Camera 1	Preset:	Cleaned: Yes	Grade:
Site: 469 Place: North Berstad		Division: District: S.W Tape No: 1		Start MH: PPIC 1 End MH: LAT 2 Total Length:	
Purpose: Structural Defects Use: STORM Catchment: P1 Schedule		Size/Shape: Circular dia 100mm Material: PLASTIC Lining: Category:			



Structural Defects	Constructional Features
Service Defects	Miscellaneous Features

Inspection Report

Date: 06/11/25	Job No:	Weather: Dry	Operator: Mick	Section Number 4	PLR:
Present:	Vehicle: WM69 YNA	Camera: Camera 1	Preset:	Cleaned: Yes	Grade:
Site: 469 Place: North Berstad		Division: District: S.W Tape No: 1		Start MH: PPIC 1 End MH: LAT 3 Total Length:	
Purpose: Structural Defects Use: STORM Catchment: P1 Schedule		Size/Shape: Circular dia 100mm Material: PLASTIC Lining: Category:			



Structural Defects	Constructional Features
Service Defects	Miscellaneous Features

Inspection Report

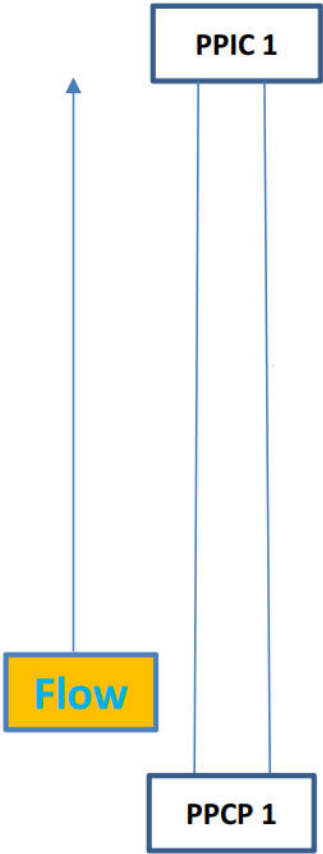
Date: 06/11/25	Job No:	Weather: Dry	Operator: Mick	Section Number 5	PLR:
Present:	Vehicle: WM69 YNA	Camera: Camera 1	Preset:	Cleaned: Yes	Grade:
Site; 469 Place: North Berstad		Division: District: S.W Tape No: 1		Start MH: PPIC 1 End MH: PPCP 1 Total Length:	
Purpose: Use: Catchment:	Structural Defects STORM P1 Schedule	Size/Shape: Circular dia 100mm Material: PLASTIC Lining: Category:			

Position Code Observation

0.0M ST Start Of Survey
0.0M WL Water Level 0 %

2.2M JN Line Drops In From The Right

9.5M MH Camera Enters Manhole PPCP 1



REM ; THERE ARE NO MAJOR DEFECTS WITH THIS SECTION OF PIPE

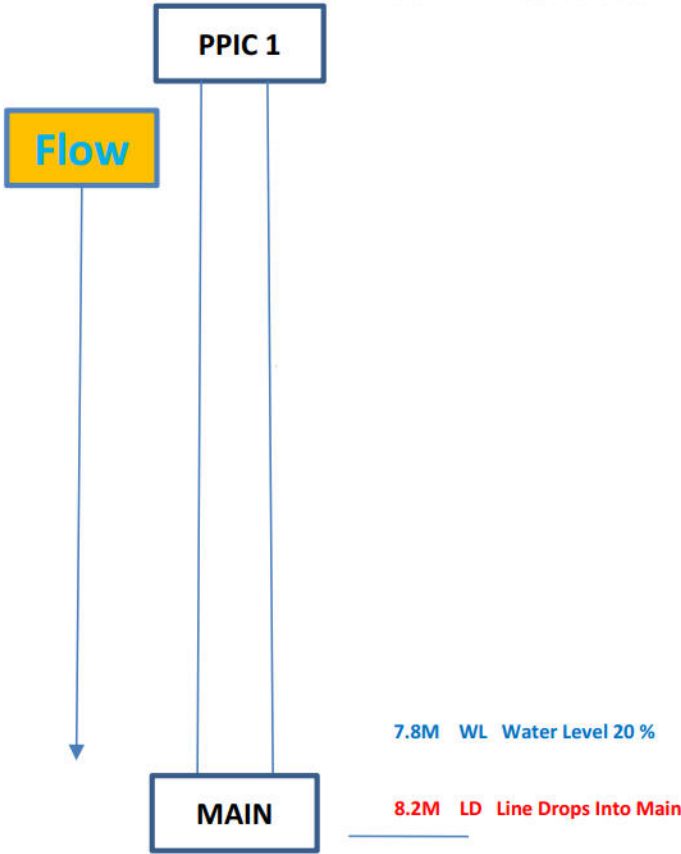
Structural Defects	Constructional Features
Service Defects	Miscellaneous Features

Inspection Report

Date: 06/11/25	Job No:	Weather: Dry	Operator: Mick	Section Number 6	PLR:
Present:	Vehicle: WM69 YNA	Camera: Camera 1	Preset:	Cleaned: Yes	Grade:
Site; 469 Place: North Berstad		Division: District: S.W Tape No: 1		Start MH: PPIC 1 End MH: MAIN Total Length:	
Purpose: Use: Catchment:	Structural Defects STORM P1 Schedule	Size/Shape: Circular dia 100mm Material: PLASTIC Lining: Category:			

Position Code Observation

0.0M ST Start Of Survey
0.0M WL Water Level 0 %



REM ; THE MAIN LINE NEEDS CLEANING FURTHER DOWN

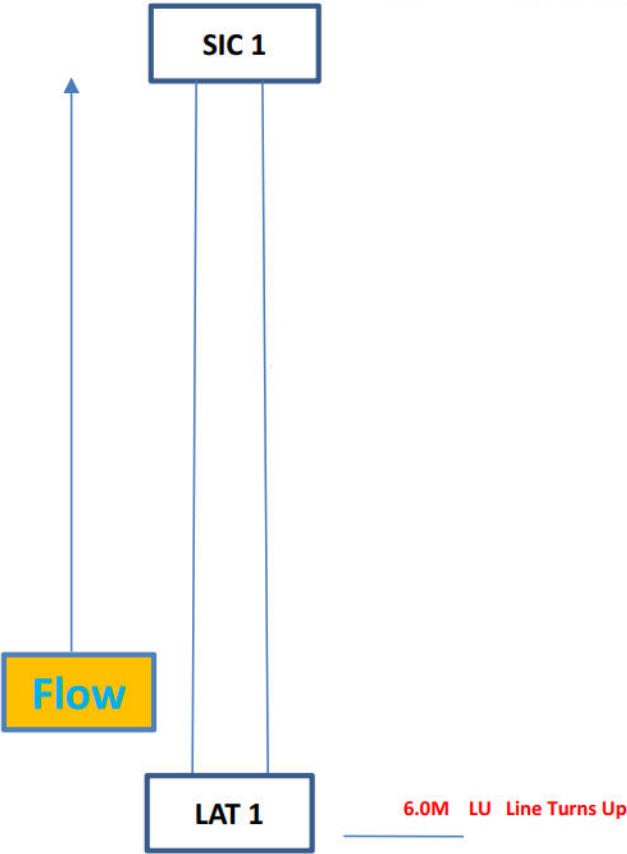
Structural Defects	Constructional Features
Service Defects	Miscellaneous Features

Inspection Report

Date: 06/11/25	Job No:	Weather: Dry	Operator: Mick	Section Number 7	PLR:
Present:	Vehicle: WM69 YNA	Camera: Camera 1	Preset:	Cleaned: Yes	Grade:
Site; 469 Place: North Berstad		Division: District: S.W Tape No: 1		Start MH: SIC 1 End MH: LAT 1 Total Length:	
Purpose: Use: Catchment:	Structural Defects STORM P1 Schedule	Size/Shape: Circular dia 100mm Material: PLASTIC Lining: Category:			

Position Code Observation

0.0M ST Start Of Survey
0.0M WL Water Level 0 %



REM ; THERE ARE NO MAJOR DEFECTS WITH THIS SECTION OF PIPE

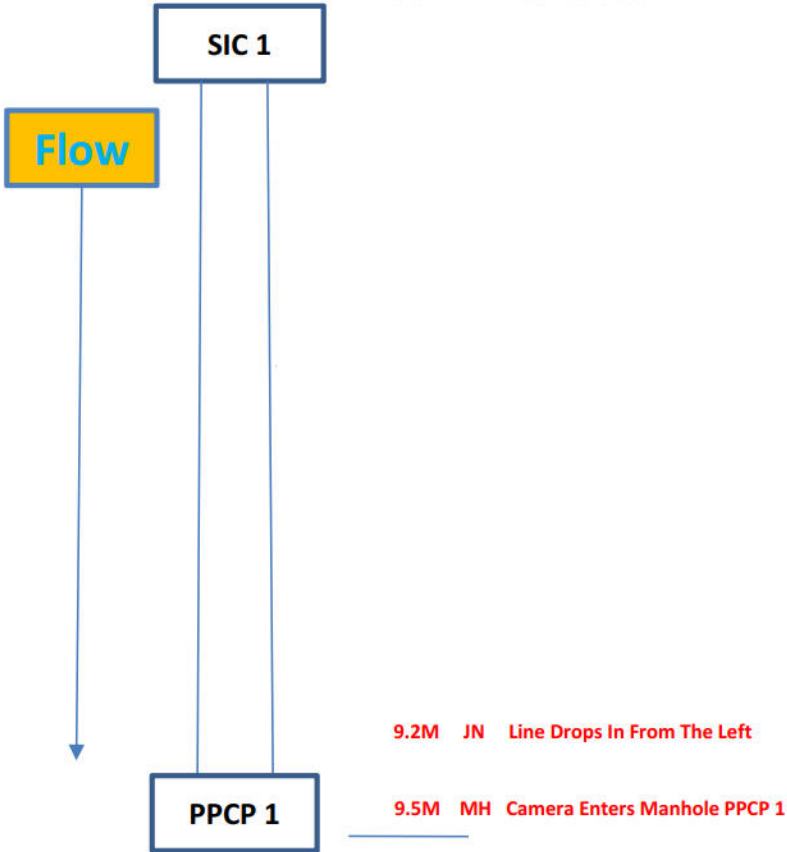
Structural Defects	Constructional Features
Service Defects	Miscellaneous Features

Inspection Report

Date: 06/11/25	Job No:	Weather: Dry	Operator: Mick	Section Number 8	PLR:
Present:	Vehicle: WM69 YNA	Camera: Camera 1	Preset:	Cleaned: Yes	Grade:
Site; 469 Place: North Berstad		Division: District: S.W Tape No: 1		Start MH: SIC 1 End MH: PPCP 1 Total Length:	
Purpose: Use: Catchment:	Structural Defects STORM P1 Schedule	Size/Shape: Circular dia 100mm Material: PLASTIC Lining: Category:			

Position Code Observation

0.0M ST Start Of Survey
0.0M WL Water Level 0 %



REM ; THE MAIN LINE NEEDS CLEANING FURTHER DOWN

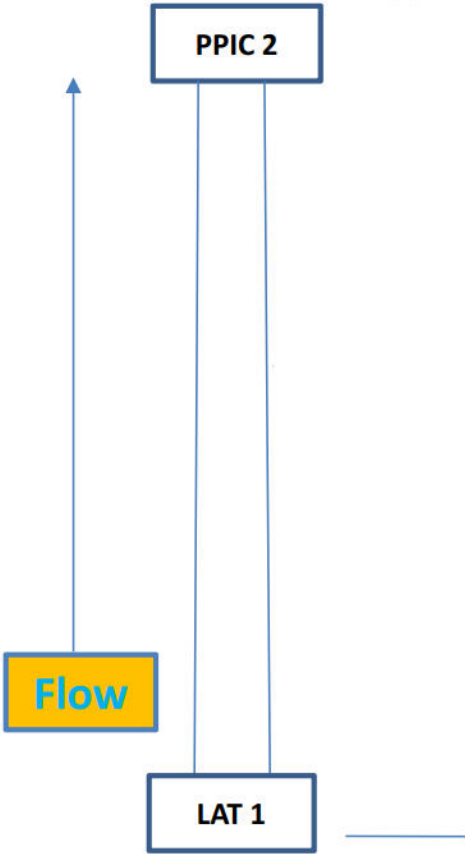
Structural Defects	Constructional Features
Service Defects	Miscellaneous Features

Inspection Report

Date: 06/11/25	Job No:	Weather: Dry	Operator: Mick	Section Number 9	PLR:
Present:	Vehicle: WM69 YNA	Camera: Camera 1	Preset:	Cleaned: Yes	Grade:
Site: 469 Place: North Berstad		Division: District: S.W Tape No: 1		Start MH: PPIC 2 End MH: LAT 1 Total Length:	
Purpose: Structural Defects Use: STORM Catchment: P1 Schedule		Size/Shape: Circular dia 100mm Material: PLASTIC Lining: Category:			

Position Code Observation

0.0M ST Start Of Survey
0.0M WL Water Level 0 %



REM ; THERE ARE NO MAJOR DEFECTS WITH THIS SECTION OF PIPE

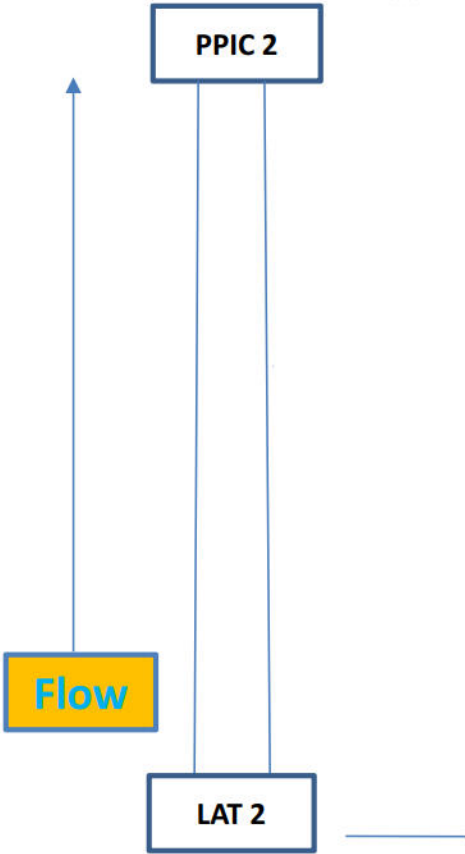
Structural Defects	Constructional Features
Service Defects	Miscellaneous Features

Inspection Report

Date: 06/11/25	Job No:	Weather: Dry	Operator: Mick	Section Number 10	PLR:
Present:	Vehicle: WM69 YNA	Camera: Camera 1	Preset:	Cleaned: Yes	Grade:
Site: 469 Place: North Berstad		Division: District: S.W Tape No: 1		Start MH: PPIC 2 End MH: LAT 2 Total Length:	
Purpose: Structural Defects Use: STORM Catchment: P1 Schedule		Size/Shape: Circular dia 100mm Material: PLASTIC Lining: Category:			

Position Code Observation

0.0M ST Start Of Survey
0.0M WL Water Level 0 %

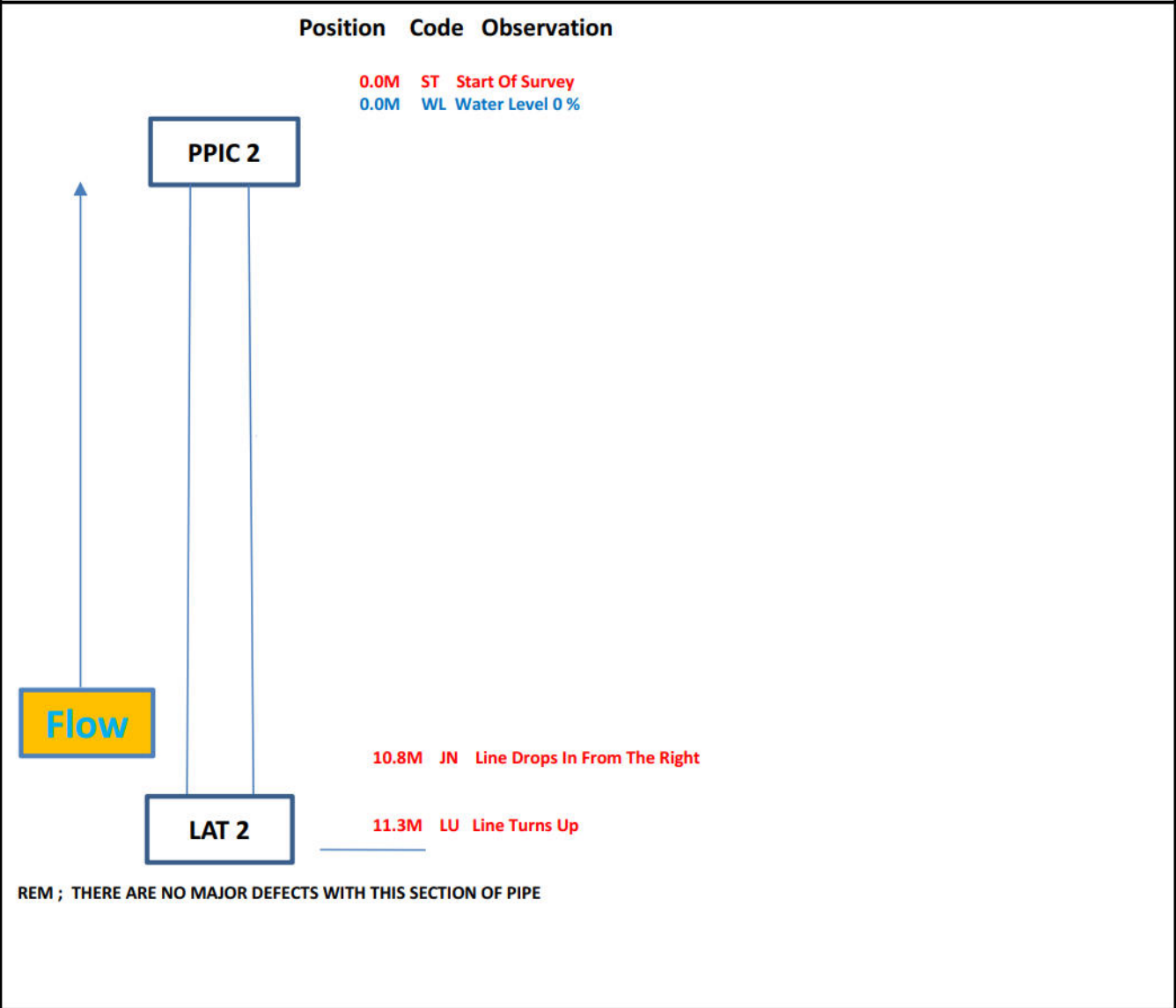


REM ; THERE ARE NO MAJOR DEFECTS WITH THIS SECTION OF PIPE

Structural Defects	Constructional Features
Service Defects	Miscellaneous Features

Inspection Report

Date: 06/11/25	Job No:	Weather: Dry	Operator: Mick	Section Number 11	PLR:
Present:	Vehicle: WM69 YNA	Camera: Camera 1	Preset:	Cleaned: Yes	Grade:
Site: 469 Place: North Berstad		Division: District: S.W Tape No: 1		Start MH: PPIC 2 End MH: LAT 3 Total Length:	
Purpose: Structural Defects Use: STORM Catchment: P1 Schedule		Size/Shape: Circular dia 100mm Material: PLASTIC Lining: Category:			



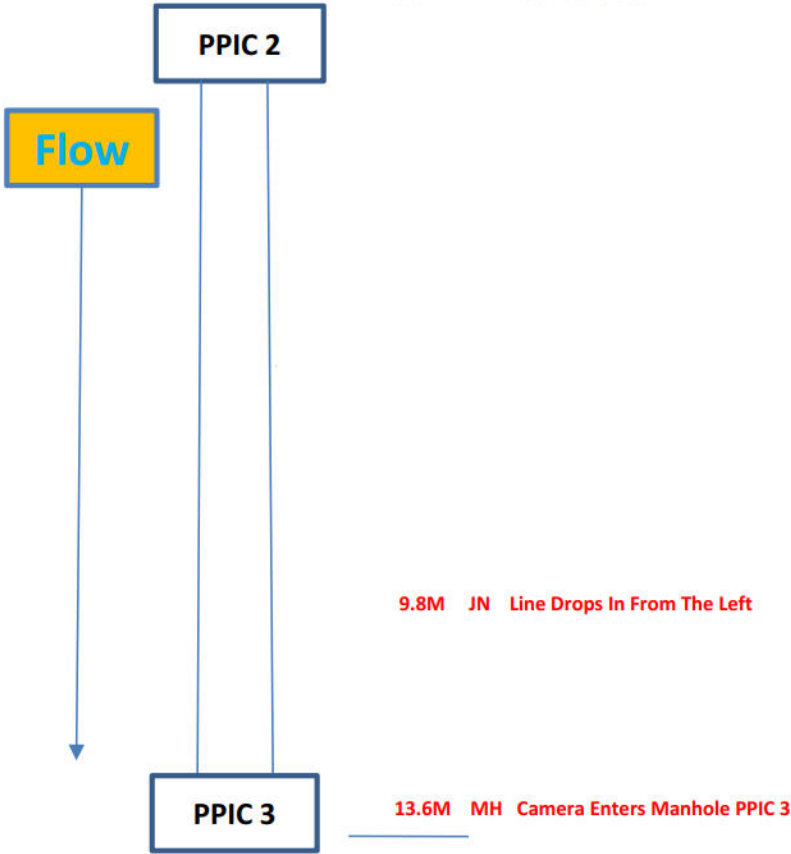
Structural Defects	Constructional Features
Service Defects	Miscellaneous Features

Inspection Report

Date: 06/11/25	Job No:	Weather: Dry	Operator: Mick	Section Number 12	PLR:
Present:	Vehicle: WM69 YNA	Camera: Camera 1	Preset:	Cleaned: Yes	Grade:
Site; 469 Place: North Berstad		Division: District: S.W Tape No: 1		Start MH: PPIC 2 End MH: PPIC 3 Total Length:	
Purpose: Use: Catchment:	Structural Defects STORM P1 Schedule	Size/Shape: Circular dia 100mm Material: PLASTIC Lining: Category:			

Position Code Observation

0.0M ST Start Of Survey
0.0M WL Water Level 0 %

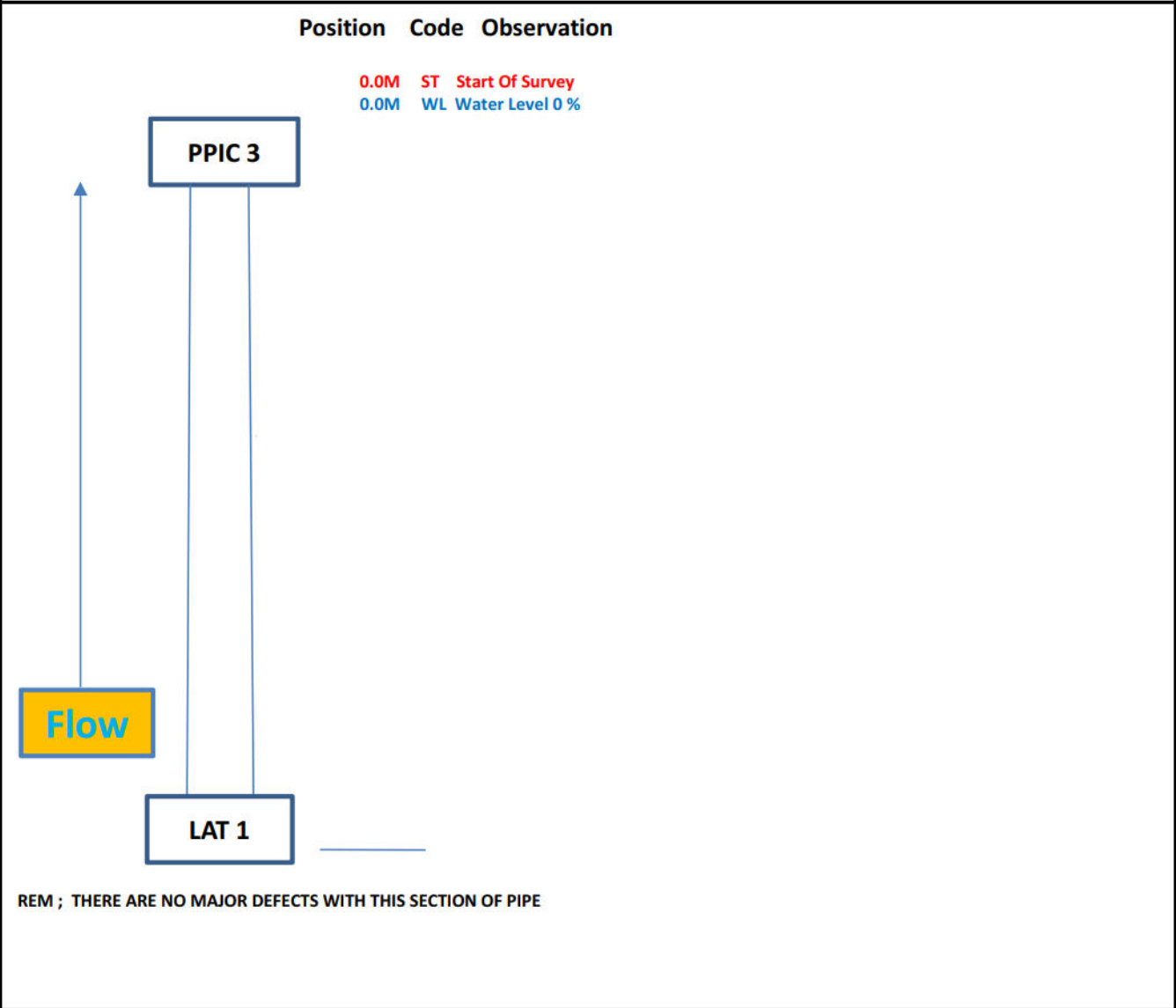


REM ; THERE ARE NO MAJOR DEFECTS WITH THIS SECTION OF PIPE

Structural Defects	Constructional Features
Service Defects	Miscellaneous Features

Inspection Report

Date: 06/11/25	Job No:	Weather: Dry	Operator: Mick	Section Number 13	PLR:
Present:	Vehicle: WM69 YNA	Camera: Camera 1	Preset:	Cleaned: Yes	Grade:
Site: 469 Place: North Berstad		Division: District: S.W Tape No: 1		Start MH: PPIC 3 End MH: LAT 1 Total Length:	
Purpose: Structural Defects Use: STORM Catchment: P1 Schedule		Size/Shape: Circular dia 100mm Material: PLASTIC Lining: Category:			



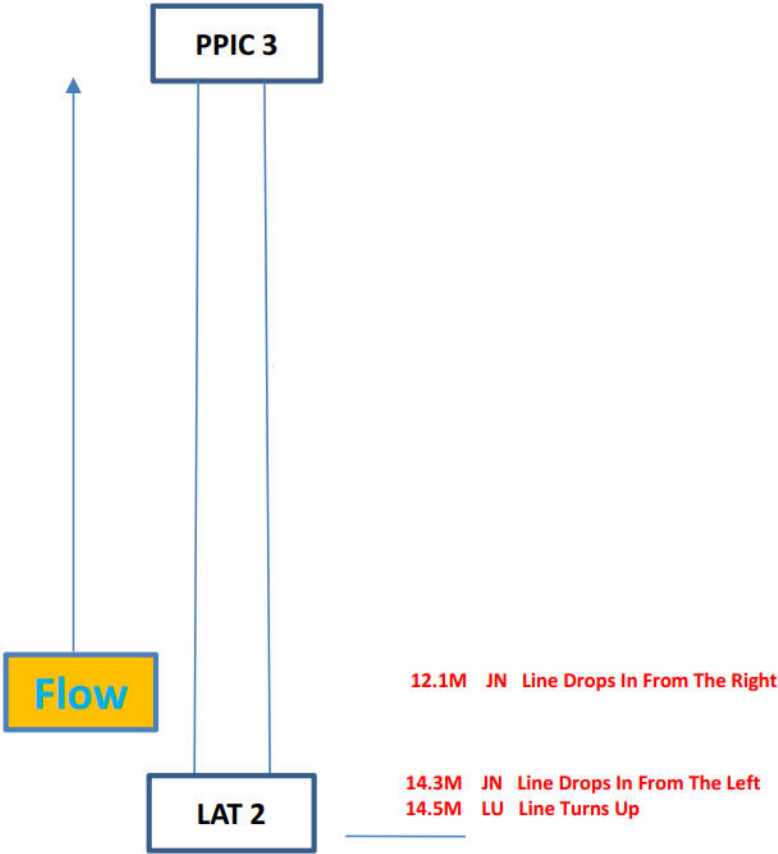
Structural Defects	Constructional Features
Service Defects	Miscellaneous Features

Inspection Report

Date: 06/11/25	Job No:	Weather: Dry	Operator: Mick	Section Number 14	PLR:
Present:	Vehicle: WM69 YNA	Camera: Camera 1	Preset:	Cleaned: Yes	Grade:
Site; 469 Place: North Berstad		Division: District: S.W Tape No: 1		Start MH: PPIC 3 End MH: LAT 2 Total Length:	
Purpose: Use: Catchment:	Structural Defects STORM P1 Schedule	Size/Shape: Circular dia 100mm Material: PLASTIC Lining: Category:			

Position Code Observation

0.0M ST Start Of Survey
0.0M WL Water Level 0 %

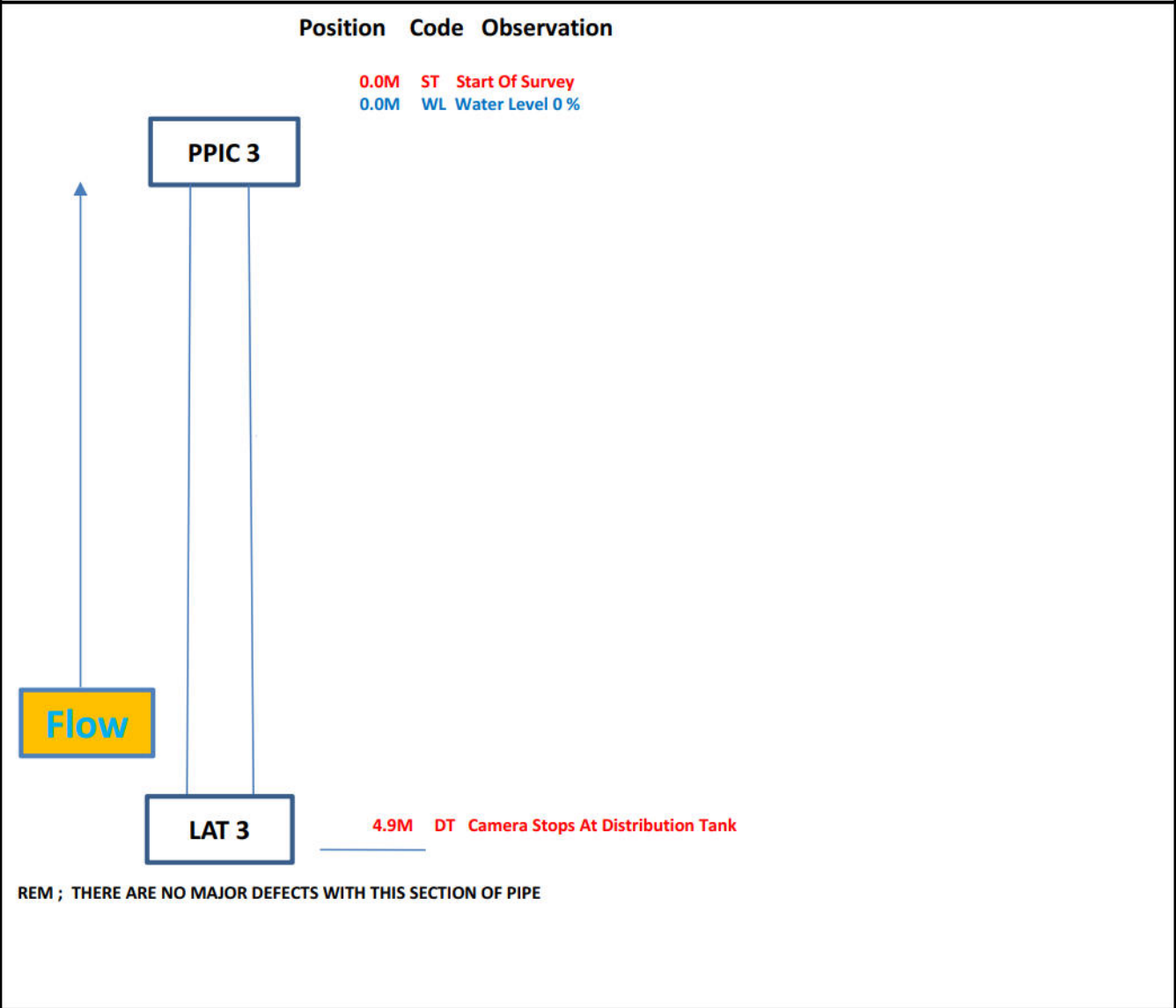


REM ; THERE ARE NO MAJOR DEFECTS WITH THIS SECTION OF PIPE

Structural Defects	Constructional Features
Service Defects	Miscellaneous Features

Inspection Report

Date: 06/11/25	Job No:	Weather: Dry	Operator: Mick	Section Number 15	PLR:
Present:	Vehicle: WM69 YNA	Camera: Camera 1	Preset:	Cleaned: Yes	Grade:
Site: 469 Place: North Berstad		Division: District: S.W Tape No: 1		Start MH: PPIC 3 End MH: LAT 3 Total Length:	
Purpose: Structural Defects Use: STORM Catchment: P1 Schedule		Size/Shape: Circular dia 100mm Material: PLASTIC Lining: Category:			



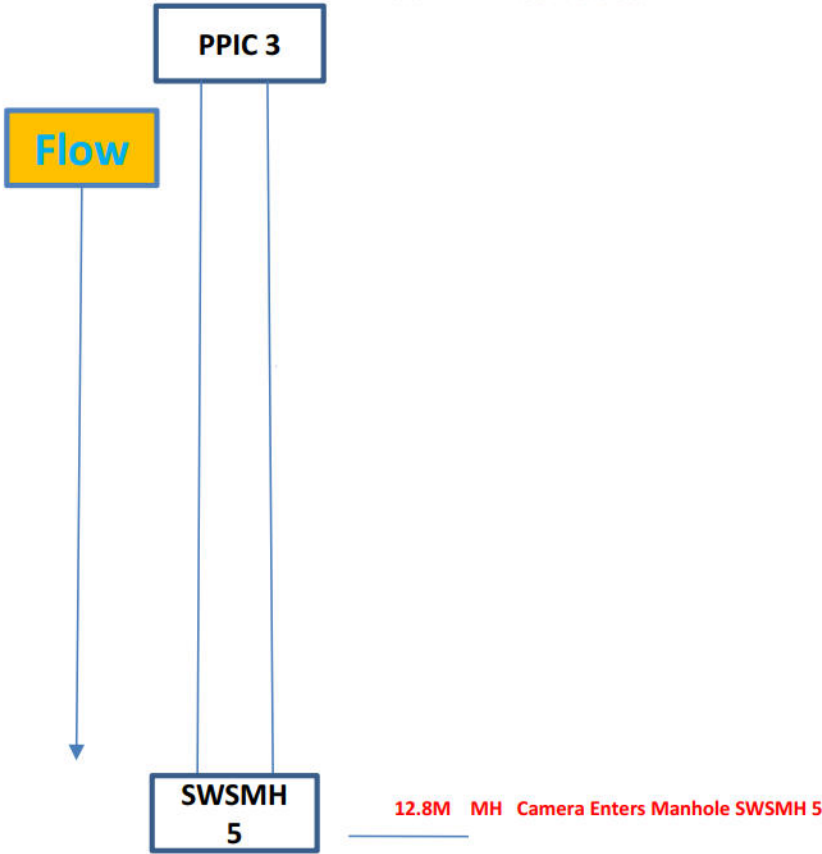
Structural Defects	Constructional Features
Service Defects	Miscellaneous Features

Inspection Report

Date: 06/11/25	Job No:	Weather: Dry	Operator: Mick	Section Number 16	PLR:
Present:	Vehicle: WM69 YNA	Camera: Camera 1	Preset:	Cleaned: Yes	Grade:
Site; 469 Place: North Berstad		Division: District: S.W Tape No: 1		Start MH: PPIC 3 End MH: SWSMH 5 Total Length:	
Purpose: Use: Catchment:	Structural Defects STORM P1 Schedule	Size/Shape: Circular dia 100mm Material: PLASTIC Lining: Category:			

Position Code Observation

0.0M ST Start Of Survey
0.0M WL Water Level 0 %



REM ; THERE ARE NO MAJOR DEFECTS WITH THIS SECTION OF PIPE

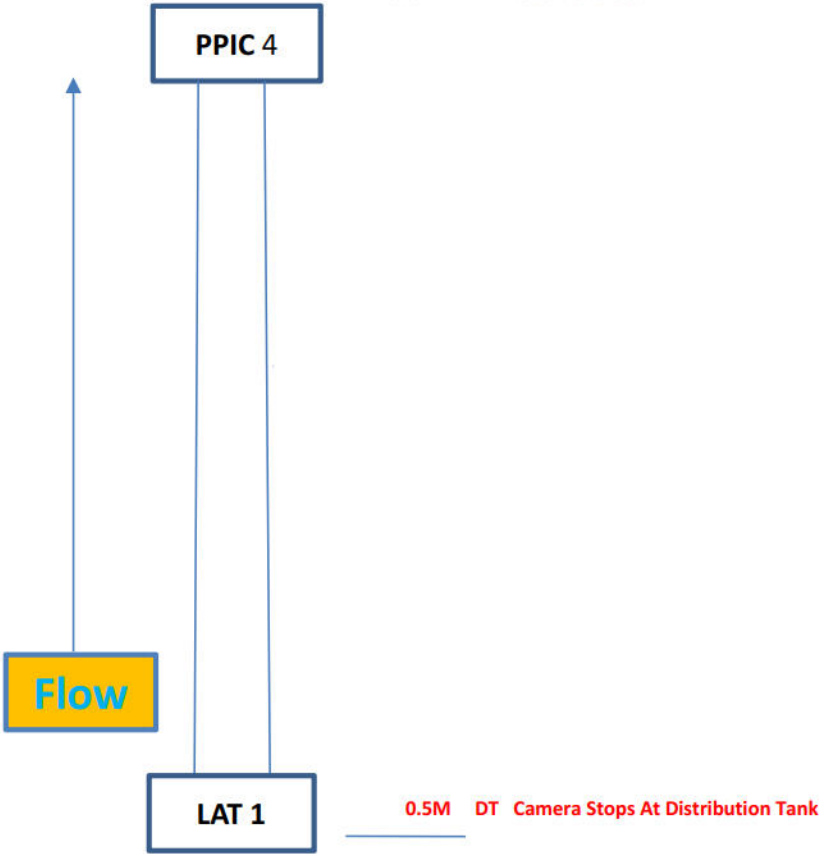
Structural Defects	Constructional Features
Service Defects	Miscellaneous Features

Inspection Report

Date: 06/11/25	Job No:	Weather: Dry	Operator: Mick	Section Number 17	PLR:
Present:	Vehicle: WM69 YNA	Camera: Camera 1	Preset:	Cleaned: Yes	Grade:
Site; 469 Place: North Berstad		Division: District: S.W Tape No: 1		Start MH: PPIC 4 End MH: LAT 1 Total Length:	
Purpose: Use: Catchment:	Structural Defects STORM P1 Schedule	Size/Shape: Circular dia 100mm Material: PLASTIC Lining: Category:			

Position Code Observation

0.0M ST Start Of Survey
0.0M WL Water Level 0 %

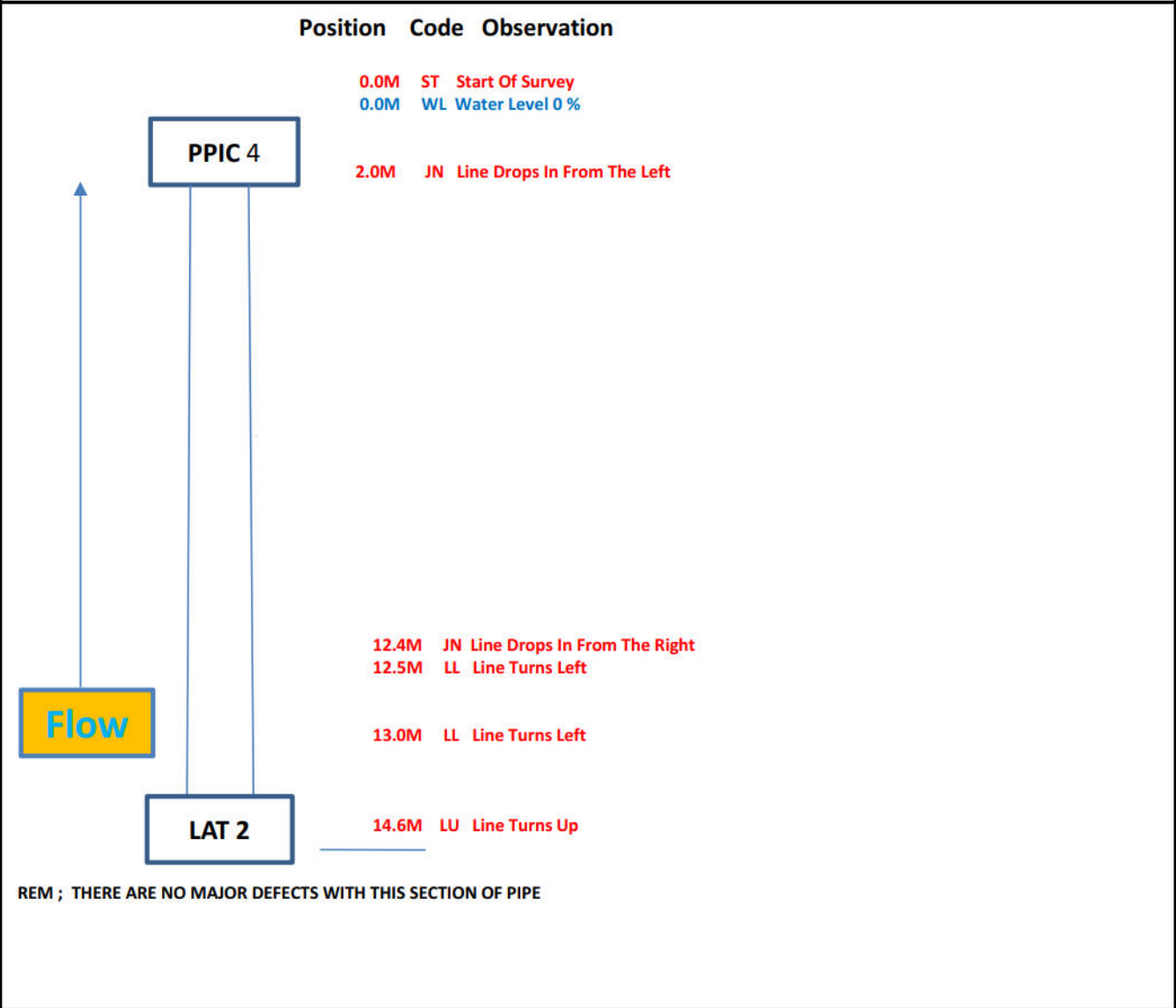


REM ; THERE ARE NO MAJOR DEFECTS WITH THIS SECTION OF PIPE

Structural Defects	Constructional Features
Service Defects	Miscellaneous Features

Inspection Report

Date: 06/11/25	Job No:	Weather: Dry	Operator: Mick	Section Number 18	PLR:
Present:	Vehicle: WM69 YNA	Camera: Camera 1	Preset:	Cleaned: Yes	Grade:
Site: 469 Place: North Berstad		Division: District: S.W Tape No: 1		Start MH: PPIC 4 End MH: LAT 2 Total Length:	
Purpose: Structural Defects Use: STORM Catchment: P1 Schedule		Size/Shape: Circular dia 100mm Material: PLASTIC Lining: Category:			



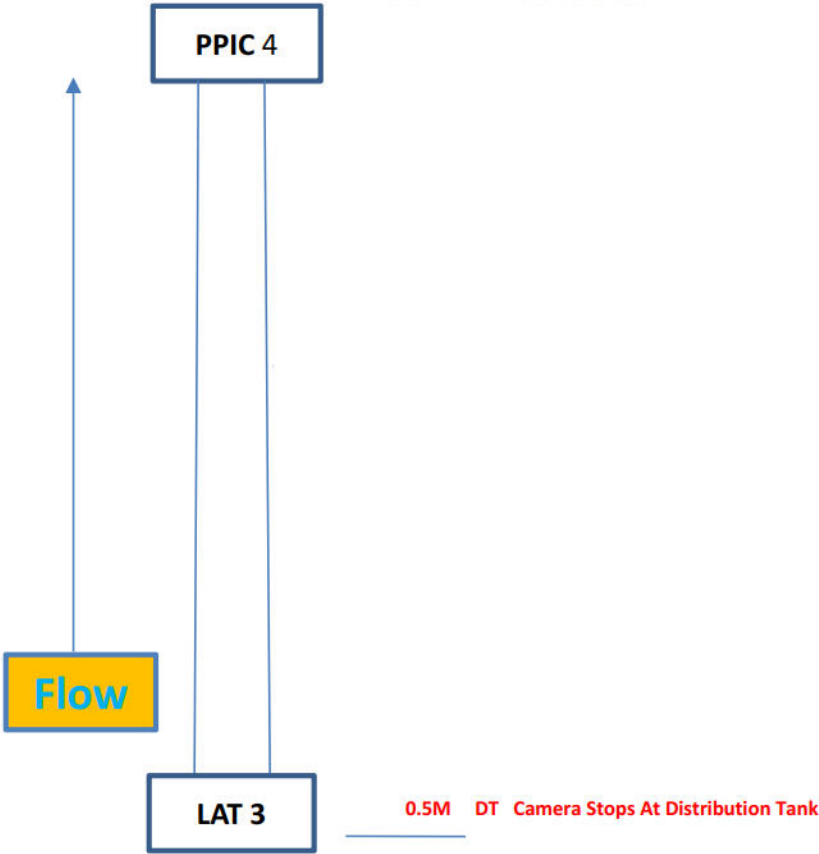
Structural Defects	Constructional Features
Service Defects	Miscellaneous Features

Inspection Report

Date: 06/11/25	Job No:	Weather: Dry	Operator: Mick	Section Number 19	PLR:
Present:	Vehicle: WM69 YNA	Camera: Camera 1	Preset:	Cleaned: Yes	Grade:
Site; 469 Place: North Berstad		Division: District: S.W Tape No: 1		Start MH: PPIC 4 End MH: LAT 3 Total Length:	
Purpose: Use: Catchment:	Structural Defects STORM P1 Schedule	Size/Shape: Circular dia 100mm Material: PLASTIC Lining: Category:			

Position Code Observation

0.0M ST Start Of Survey
0.0M WL Water Level 0 %



REM ; THERE ARE NO MAJOR DEFECTS WITH THIS SECTION OF PIPE

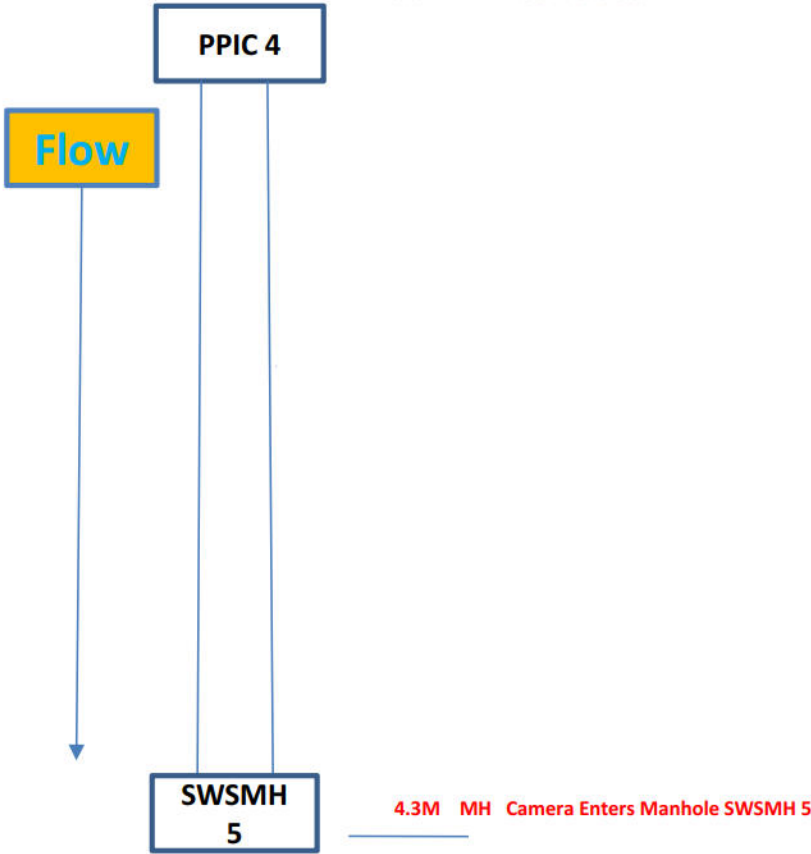
Structural Defects	Constructional Features
Service Defects	Miscellaneous Features

Inspection Report

Date: 06/11/25	Job No:	Weather: Dry	Operator: Mick	Section Number 20	PLR:
Present:	Vehicle: WM69 YNA	Camera: Camera 1	Preset:	Cleaned: Yes	Grade:
Site; 469 Place: North Berstad		Division: District: S.W Tape No: 1		Start MH: PPIC 4 End MH: SWSMH 5 Total Length:	
Purpose: Use: Catchment:	Structural Defects STORM P1 Schedule	Size/Shape: Circular dia 100mm Material: PLASTIC Lining: Category:			

Position Code Observation

0.0M ST Start Of Survey
0.0M WL Water Level 0 %

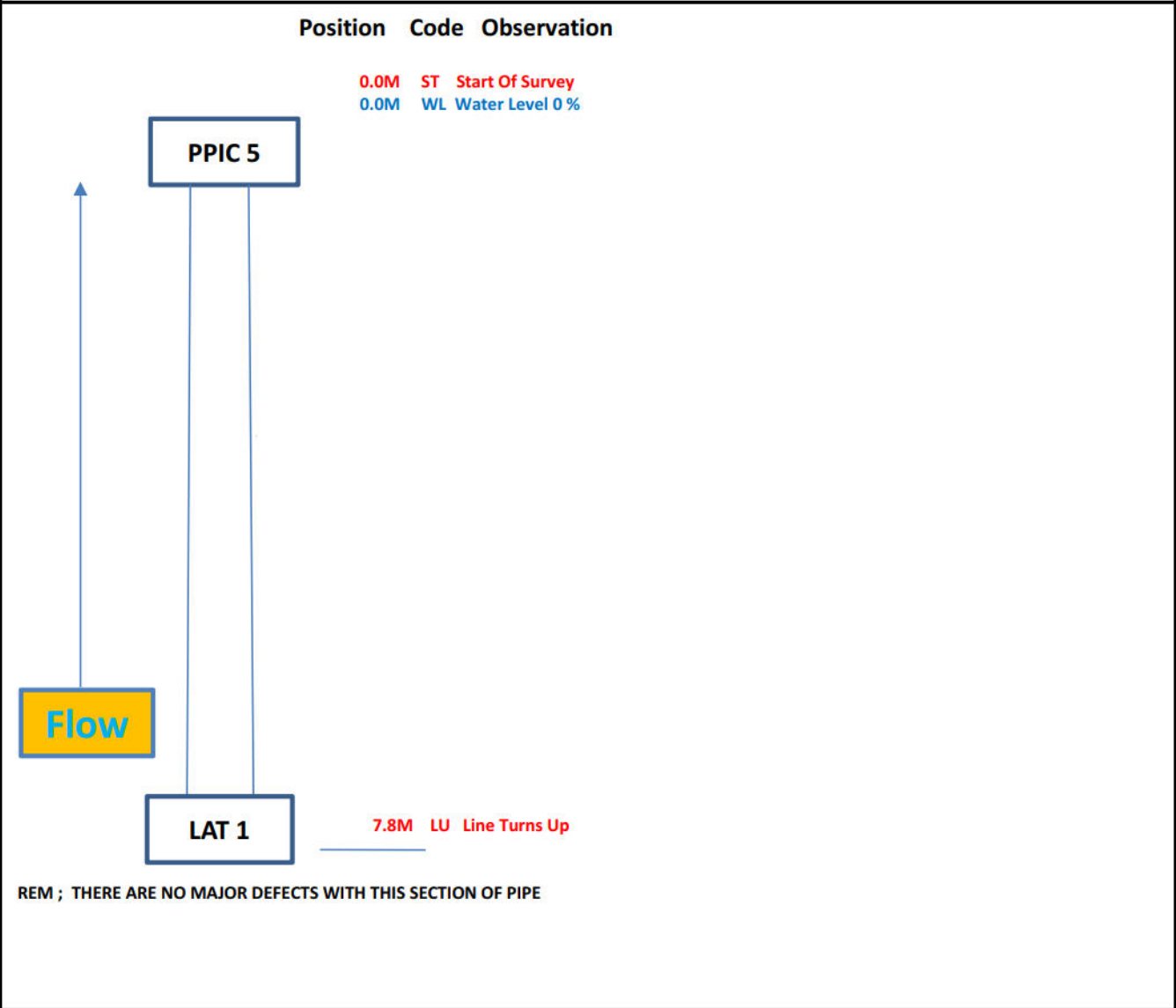


REM ; THERE ARE NO MAJOR DEFECTS WITH THIS SECTION OF PIPE

Structural Defects	Constructional Features
Service Defects	Miscellaneous Features

Inspection Report

Date: 06/11/25	Job No:	Weather: Dry	Operator: Mick	Section Number 21	PLR:
Present:	Vehicle: WM69 YNA	Camera: Camera 1	Preset:	Cleaned: Yes	Grade:
Site: 469 Place: North Berstad		Division: District: S.W Tape No: 1		Start MH: PPIC 5 End MH: LAT 1 Total Length:	
Purpose: Structural Defects Use: STORM Catchment: P1 Schedule		Size/Shape: Circular dia 100mm Material: PLASTIC Lining: Category:			



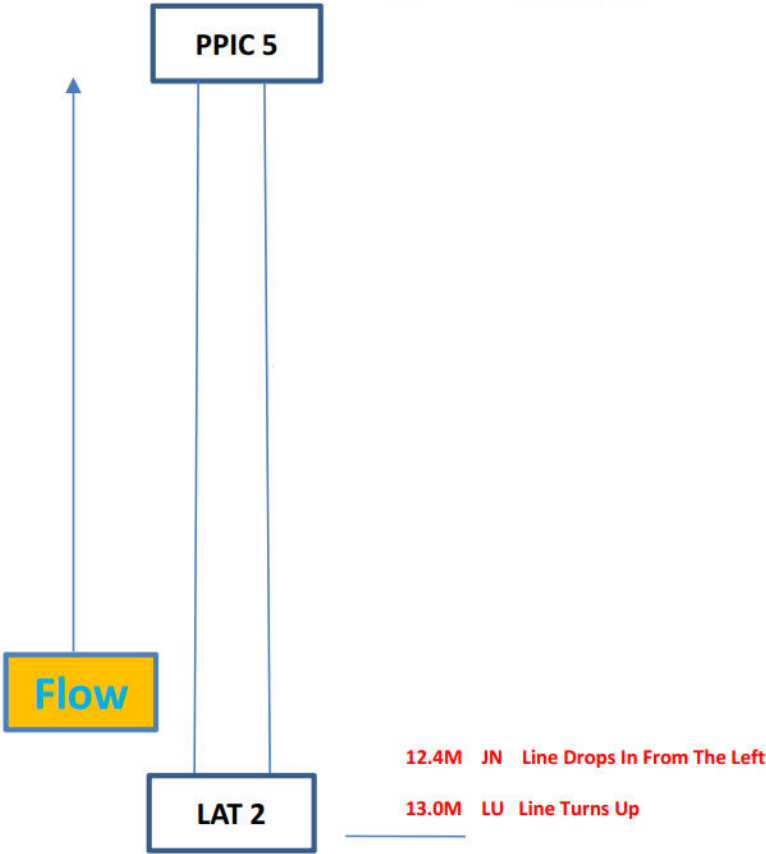
Structural Defects	Constructional Features
Service Defects	Miscellaneous Features

Inspection Report

Date: 06/11/25	Job No:	Weather: Dry	Operator: Mick	Section Number 22	PLR:
Present:	Vehicle: WM69 YNA	Camera: Camera 1	Preset:	Cleaned: Yes	Grade:
Site; 469 Place: North Berstad		Division: District: S.W Tape No: 1		Start MH: PPIC 5 End MH: LAT 2 Total Length:	
Purpose: Use: Catchment:	Structural Defects STORM P1 Schedule	Size/Shape: Circular dia 100mm Material: PLASTIC Lining: Category:			

Position Code Observation

0.0M ST Start Of Survey
0.0M WL Water Level 0 %



REM ; THERE ARE NO MAJOR DEFECTS WITH THIS SECTION OF PIPE

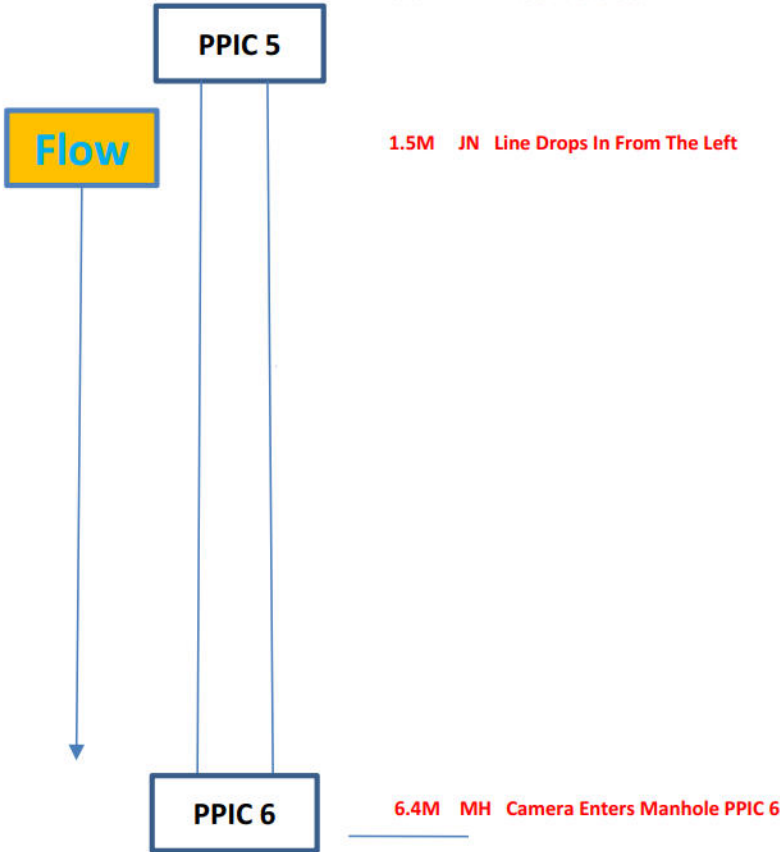
Structural Defects	Constructional Features
Service Defects	Miscellaneous Features

Inspection Report

Date: 06/11/25	Job No:	Weather: Dry	Operator: Mick	Section Number 23	PLR:
Present:	Vehicle: WM69 YNA	Camera: Camera 1	Preset:	Cleaned: Yes	Grade:
Site; 469 Place: North Berstad		Division: District: S.W Tape No: 1		Start MH: PPIC 5 End MH: PPIC 6 Total Length:	
Purpose: Use: Catchment:	Structural Defects STORM P1 Schedule	Size/Shape: Circular dia 100mm Material: PLASTIC Lining: Category:			

Position Code Observation

0.0M ST Start Of Survey
0.0M WL Water Level 0 %



REM ; THERE ARE NO MAJOR DEFECTS WITH THIS SECTION OF PIPE

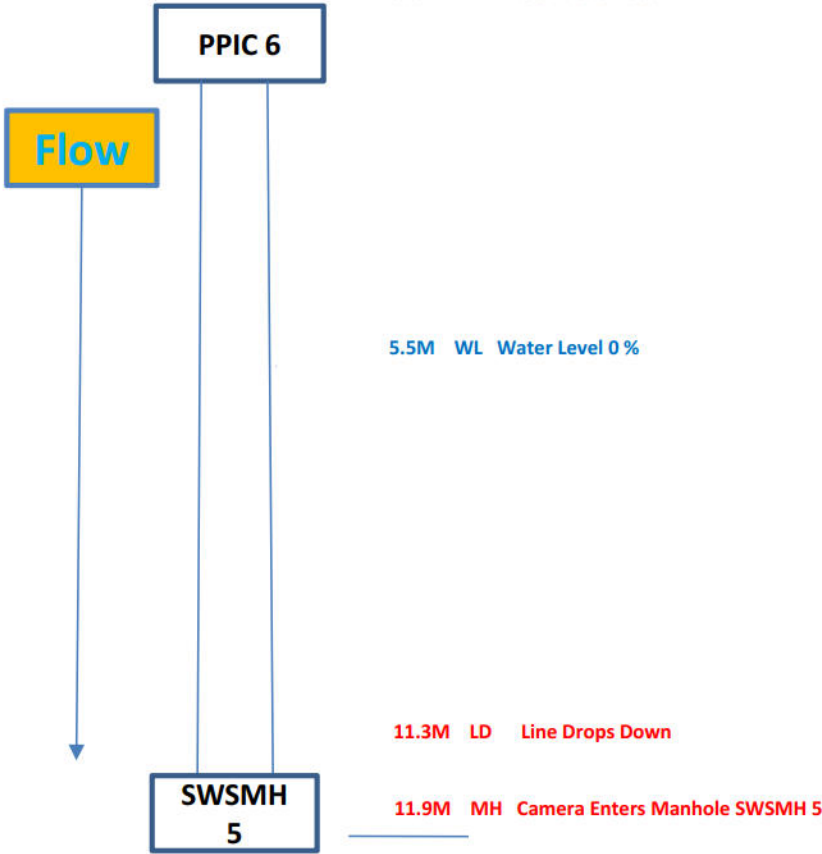
Structural Defects	Constructional Features
Service Defects	Miscellaneous Features

Inspection Report

Date: 06/11/25	Job No:	Weather: Dry	Operator: Mick	Section Number 24	PLR:
Present:	Vehicle: WM69 YNA	Camera: Camera 1	Preset:	Cleaned: Yes	Grade:
Site; 469 Place: North Berstad		Division: District: S.W Tape No: 1		Start MH: PPIC 6 End MH: SWSMH 5 Total Length:	
Purpose: Use: Catchment:	Structural Defects STORM P1 Schedule	Size/Shape: Circular dia 150mm Material: PLASTIC Lining: Category:			

Position Code Observation

0.0M ST Start Of Survey
0.0M WL Water Level 20 %

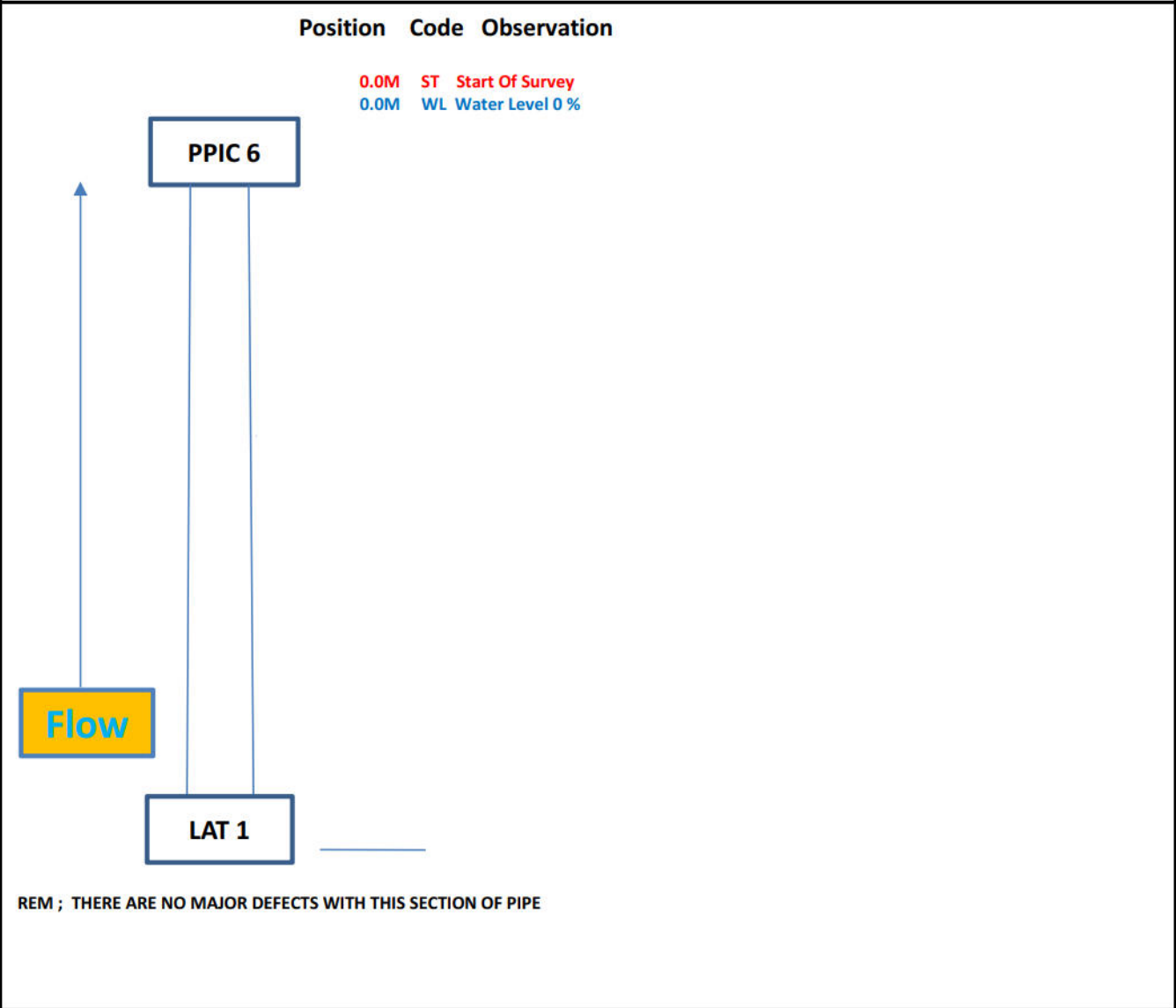


REM ; THERE ARE NO MAJOR DEFECTS WITH THIS SECTION OF PIPE

Structural Defects	Constructional Features
Service Defects	Miscellaneous Features

Inspection Report

Date: 06/11/25	Job No:	Weather: Dry	Operator: Mick	Section Number 25	PLR:
Present:	Vehicle: WM69 YNA	Camera: Camera 1	Preset:	Cleaned: Yes	Grade:
Site: 469 Place: North Berstad		Division: District: S.W Tape No: 1		Start MH: PPIC 6 End MH: LAT 1 Total Length:	
Purpose: Structural Defects Use: STORM Catchment: P1 Schedule		Size/Shape: Circular dia 100mm Material: PLASTIC Lining: Category:			



Structural Defects	Constructional Features
Service Defects	Miscellaneous Features



Civil Engineering - Transport Planning - Flood Risk

GTA Civils & Transport, Maple House, 192-198 London Road, Burgess Hill, West Sussex, RH15 9RD

T: [REDACTED] uk [www: gtacivils.co.uk](http://www.gtacivils.co.uk)

GTA Civils & Transport Limited, Registered in England No. 11917461. VAT Registration No. 319 2609 02

