Amazon, Bognor Regis –
Drainage Network Verification Report

Client: ISG Limited

Job Number: 22465

Revision	Date issued	Description
00	17/11/2023	First Issue
01	29/01/2024	Second Issue
02	10/05/2024	Third Issue

ARUN DISTRICT COUNCIL AL/87/21/PL

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Section 1 – Details of Author

JDL Consultants Limited (Ltd) have been instructed to undertake the technical vetting of the surface water installation to the DBNS Bognor Regis. The validation report is to be in accordance with Planning Permission Condition 18.

18	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.

This document has been produced by James Adams of JDL Consultants who is currently Civil Engineering Director of the business. James who completed his HNC in Civil Engineering in the 1990's has over 30years experience in the construction industry, having worked for consultants and developers, covering all aspects of highways and infrastructure design in both the public and private sectors.

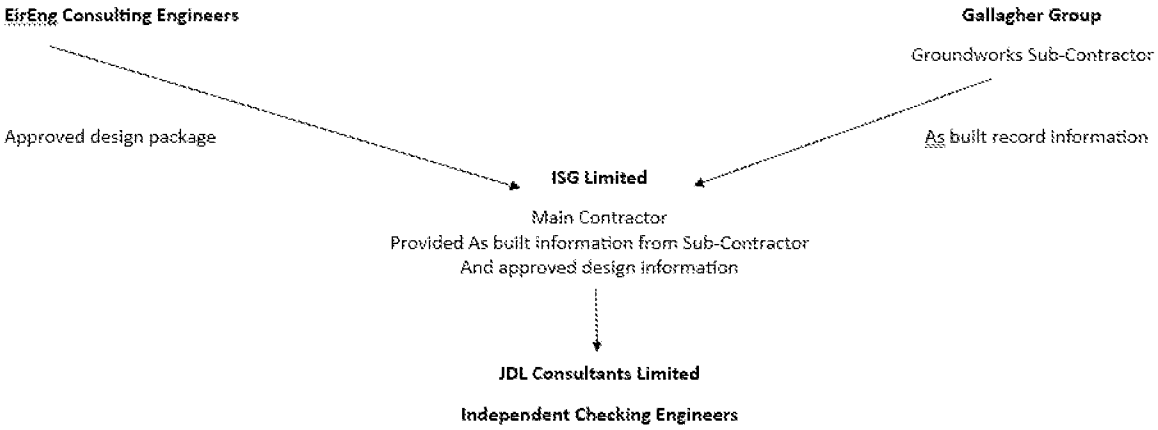
The report has been reviewed and checked by Duncan Leather, Managing Director, a Chartered Civil Engineer with over 35 years of experience in the construction industry.

JDL Consultants Ltd are independent from the design and construction for the site and act as a third party to review the information.

The planning condition requires the appointment of an independent Engineering Consultancy and JDL Consultants Limited were appointed by ISG Limited in this company

JDL Consultants Limited have acted completely independently of both the ground worker sub contractor, Messrs Gallagher and Messrs EirEng Consulting Engineers and Messrs ISG the main contractor.

Amazon Bognor Regis
Planogram
For Surface Water Drainage



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Section 2 – Verification Statement

Executive Summary

The works undertaken by JDL Consultants Limited in accordance with Planning Condition 18 comprised a detailed review of the as built information provided by Messrs ISG from their appointed subcontractor against the approved design drawings provided by Messrs EirEng.

The site as built information has been reviewed against the approved design drawings. The majority of structures checked directly using sets of information have passed the applied construction tolerance. Once further reviewed for a feasibility check, the network shows no issues with construction and is compliant with the approved drawing information on the available data provided.

The surface water network was checked for manhole inverts, falls, pipe installation, attenuation tank installations, interceptors, ditches and outfalls.

The summary of the checking information is set out in further detail in this Section (2) of this report.

Once the implementation was nearing completion, a site inspection was undertaken to inspect the swales, ditches, headwall installations and manholes 10% of which were dipped to confirm the invert against the design.

This was undertaken on 11th October 2023 and was then followed by a second inspection on 25th October 2023 to confirm the items noted on the first walk round had been addressed.

Design Tolerances

For private works, it will be taken that tolerances of ≤20mm are acceptable. This has been taken from the DCG for adoptable construction tolerances as there is no guidance for private works tolerances. Therefore, it has been seen as acceptable to use this method as a check marker/warning to evaluate the design from. Any tolerance over 20mm will be design checked and assessed to determine if there is any impact to the drainage network.

The below tables compare the as-built data against construction design drawings and weather acceptable tolerances are met. If the design has fallen below the tolerance, a note of deviation will be provided along with if the deviation is acceptable or not and any remediation is required.

Based on the extensive review undertaken of the supplied as built information to JDL Consultants Limited by Messrs ISG and the post implementation visual inspections, JDL Consultants are satisfied that the implemented scheme has been built in accordance with the approved drawings.

Duncan Leather
C.Eng MICE MIStructE FFB

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2.1 Warehouse SW

Manholes

Manhole #	Acceptable Tolerance (Yes/No)	Deviation (Change in design)	Acceptable (Yes/No)
S101	Yes	-	-
S102	Yes	-	-
S103	Yes	-	-
S104	Yes	-	-
S105	Yes	-	-
S106	Yes		
S207	Yes	-	-
S208	Yes	-	-
S209	Yes	-	-
S214	Yes	-	-
S215	Yes	-	-

Pipe Run

Pipe Location to Manholes	Acceptable Tolerance (Yes/No)	Deviation (Change in design)	Acceptable (Yes/No)
S101-S102	Yes	-	-
S102-S103	Yes	-	-
S103-S104	Yes	-	-
S104-S105	Yes	-	-
S207-S208	No	Downstream IL 31mm lower than design. Gradient changed from 1:187 to 1:178.	Yes
S208-S209	Yes	-	-
S215-S214	Yes	-	-
S105- Tank	No	IL S105 = 1.154 (7mm low) IL Tank = 1.128 Actual gradient 1.385%	Yes

2.2 Multi-story car park SW

Manholes

Manhole #	Acceptable Tolerance (Yes/No)	Deviation (Change in design)	Acceptable (Yes/No)
S001	Yes		
S002	Yes		
S006	Yes		
S007	Yes		
S008	Yes		
S009	Yes		
S010	Yes		
S010a	Yes		
S011	Yes		
S011a	Yes		
S011b	No	Internal pipes do not match soffits 150mm soffit = 1.55 225mm soffit = 1.563 375mm soffit = 1.674	Yes
S012	Yes		
S013	Yes		
S014	Yes		
S015	Yes		
S302a	Yes		
S302b	Yes		
S303	Yes		

Pipe Run

Pipe Location to Manholes	Acceptable Tolerance (Yes/No)	Deviation (Change in design)	Acceptable (Yes/No)
S001-S002	Yes		
S002-S009	Yes		
S006-S008	Yes		
S007-S008	Yes		
S008-S009	Yes		

S009-S012	Yes		
S010-S011b	Yes		
S010-S010a	No	Design gradient = 1:137 As built gradient = 1:177 Pipe size = 225mm ∅	Yes
S011-S011b	Yes		
S011a-S011B	Yes		
S011-S012	Yes		
S012-S013	Yes		
S302A-S302B	Yes		
S302B-S303	No	Design gradient on drawing incorrect. Actual design 1:370. As built 1:400	Yes

2.3 Car park SW

Manhole

Manhole #	Acceptable Tolerance (Yes/No)	Deviation (Change in design)	Acceptable (Yes/No)
S201	Yes		
S202	Yes		
S203	Yes		
S204	Yes		
S205	Yes		
S206	Yes		
S211	Yes		
S212	Yes		
S213	Yes		

Pipes Run

Pipe Location to Manholes	Acceptable Tolerance (Yes/No)	Deviation (Change in design)	Acceptable (Yes/No)
S201-S202	Yes		
S202-S203	Yes		
S203-S205	Yes		

S204-S205	Yes		
S211-S212	Yes		
S212-S209	Yes		
S206 –TANK	Yes		
S213 –TANK	Yes		

2.5 Attenuation Tanks

Interceptor #	Acceptable Tolerance (Yes/No)	Deviation (Change in design)	Acceptable (Yes/No)
Warehouse	Yes	-	-
Car Park	No	Updated drawing (C11) to reflect the QA received. S213-HW13 ok.	Yes

2.6 Precast Head Walls

Headwall #	Acceptable Tolerance (Yes/No)	Deviation (Change in design)	Acceptable (Yes/No)
1	Yes		
2	Yes		
3	Yes		
4	Yes		
5	Yes		
6	Yes		
7	Yes		
8	Yes		
9	Yes		
10	Yes		
11	No	As-built 31mm below design. Drainage still works and acceptable	Yes
12	Yes	-	-
13	Yes	-	-

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14	Yes	-	-
15	Yes	-	-

2.7 Interceptors

Interceptor #	Acceptable Tolerance (Yes/No)	Deviation (Change in design)	Acceptable (Yes/No)
PI1	TCB		
PI2	TCB		
PI3	TCB		

Section 3 – Dates and Appropriate Records of Inspection

ISG Site Team
Bognor Regis

SUMMARY OF ON SITE INSPECTION

As part of the verification requirements set out in Planning Condition 18 once the works had been implemented, two site visits were arranged to undertake the inspection works to the installed drainage installation.

The first inspection of the surface water was undertaken on 11th October and was pre arranged with the ISG team to enable site attendance to provide opening of manholes and provisions of safe access to the drainage swales, ditches and outfalls from attenuation ponds.

Cross check dipping was undertaken and a visual inspection to the internal manhole, at 10% of the surface water manholes. All checked against the approved design drawings. Their aim was to visually confirm the as built data supplied by Messrs Gallagher.

The second site visit undertaken on 25th October then comprised inspection of the benching installation to the manholes that was installed. Further random manholes were also inspected.

A second site visit was then agreed on 25th October 2023 with Messrs ISG in attendance to enable the opening of manholes for inspection.

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Bognor Regis Validation Meeting – 5th September 2023
Notes from on-site meeting for first validation site inspection and walk round:

Present:

JDL Consultants Limited:	Mr James Adams
ISG Limited:	Mr David Flannery and Mr Brendan Starbuck

Site meeting was to brief JDL Consultants Limited on the scope of the drainage works to be validated.

Post Site meeting a walk round was undertaken to inspect the site and to specifically inspect the FCA excavations.

- The majority of the excavations had been completed with a small section of access haul road left to remove.
- The site visit was to assist with the specific cut depths to enable an accurate cut and fill model from the drone survey to be undertaken.
- Photos of the FCA taken by drone at the time of the inspection are below.

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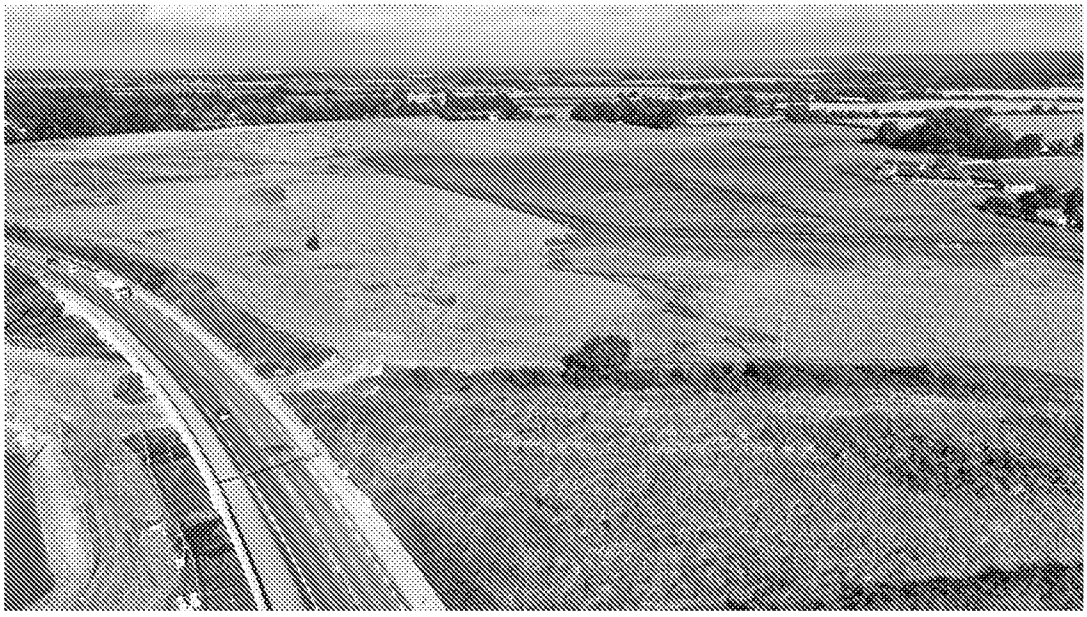
Aerial Photographs

Photo 1 – Direction of view looking North East.

Photo 2 – Direction of view looking West



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Debrief Meeting following Validation walk round and assessment. 11-10-23

Present:
Duncan LeatherJDL Consultants Limited
Brendan Starbuck ISG Limited

Summary of inspection:

- Headwalls 1-9 inspected and generally satisfactory in construction and are in need of completion with the pedestrian hand rails.
  It was noted however that the pipes through the headwall are inclined on plan relative to the headwall and the design requires the pipes to be parallel to the headwall.

- It was also noted that the banks closest to the head walls have a nylon wrap, which we understand was installed in discussion with the design engineer. We note the engineers drawing C051 calls for a Rip Rap base to be installed. This was not visible on our inspection so would it be possible to confirm if this has been installed?

- The new ditches were inspected and it can be seen these have been re profiled.

- The carpark area is under construction but the channel drainage has been installed.

- Two of the interceptors have been installed.

- The spoil pile to the FCA is currently being reprofiled.

- Three Manholes/ catchpits were inspected and dipped and matched the Engineering drawings Albeit the catch pits have a manifold connection (3No Pipes incoming instead of a single pipe). The Manhole inspected were S201, S204, and catchpit S105

- Remaining Surface water manholes will need to be inspected when completed as per our discussions on site.

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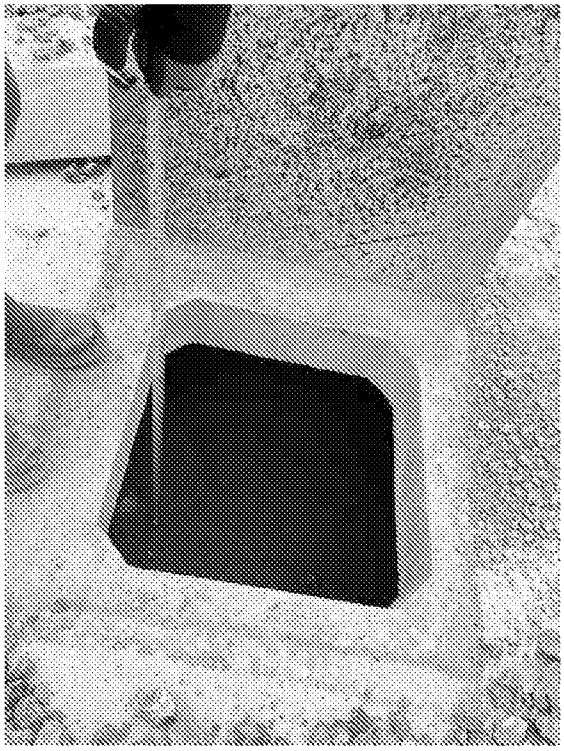

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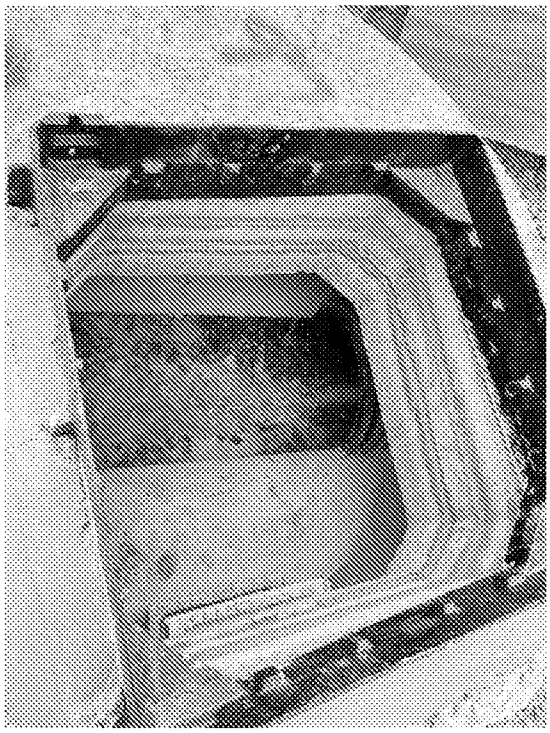

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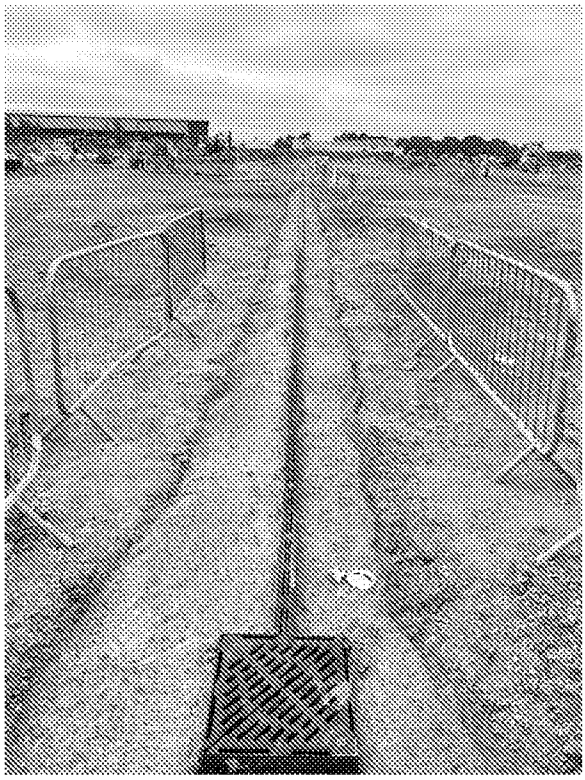

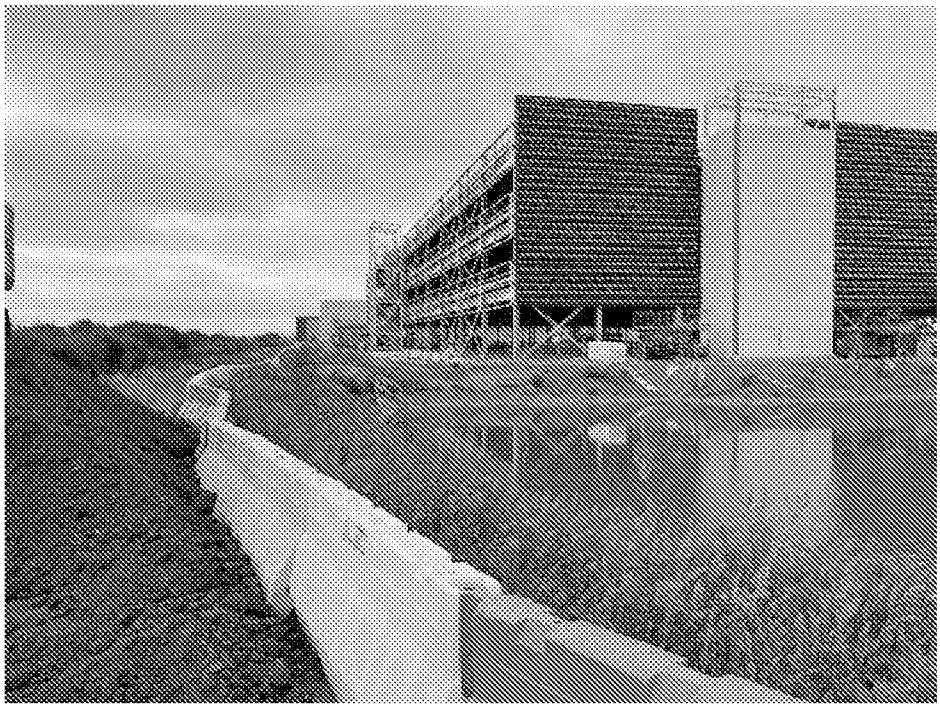

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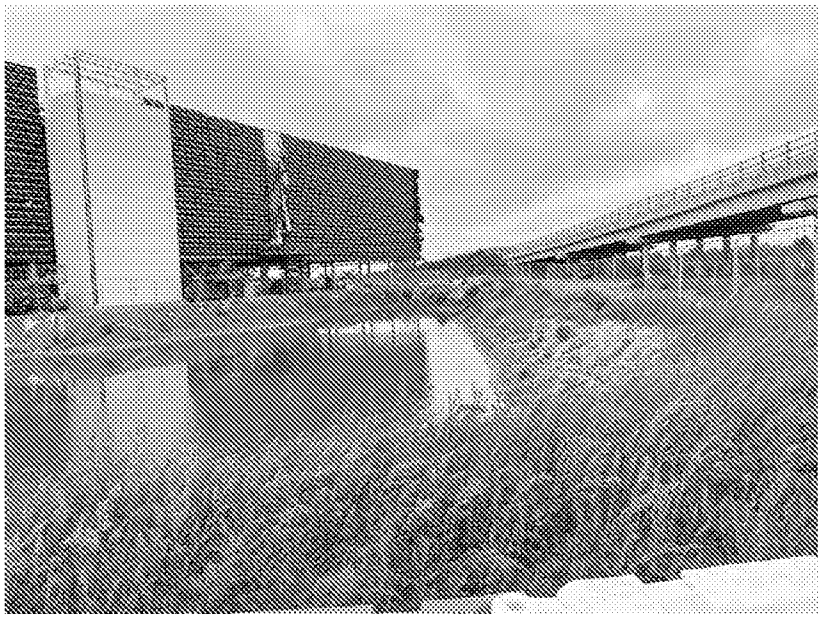

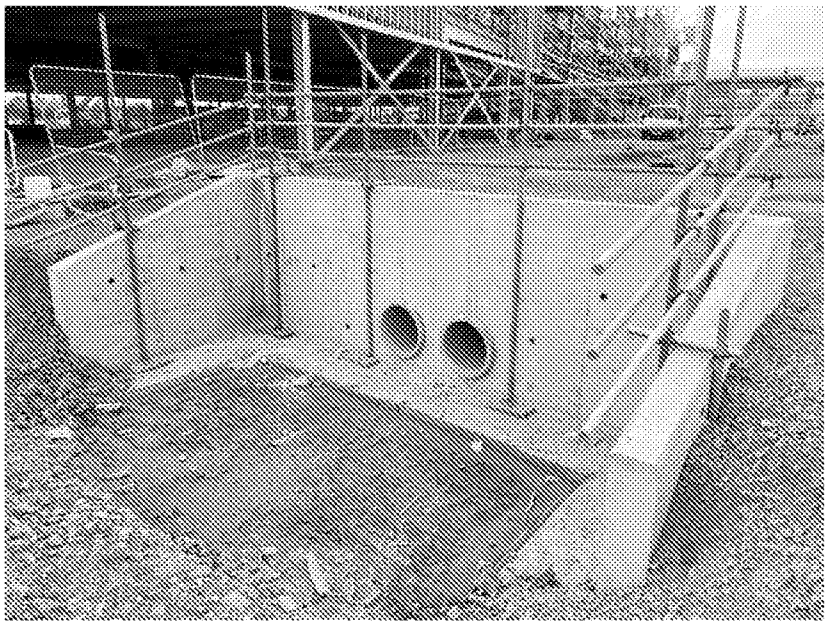

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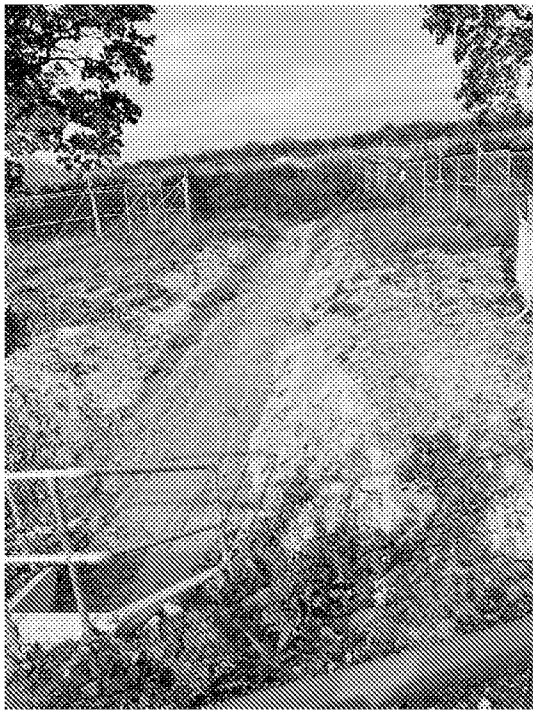

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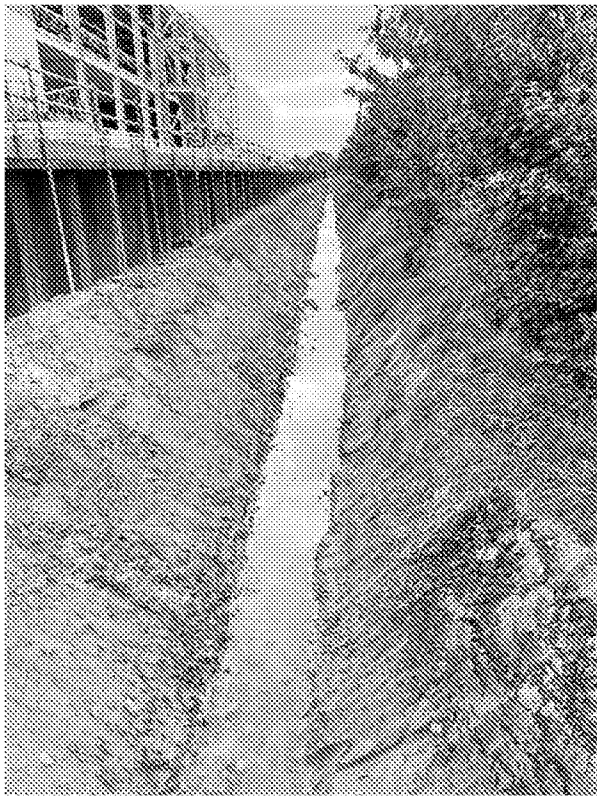

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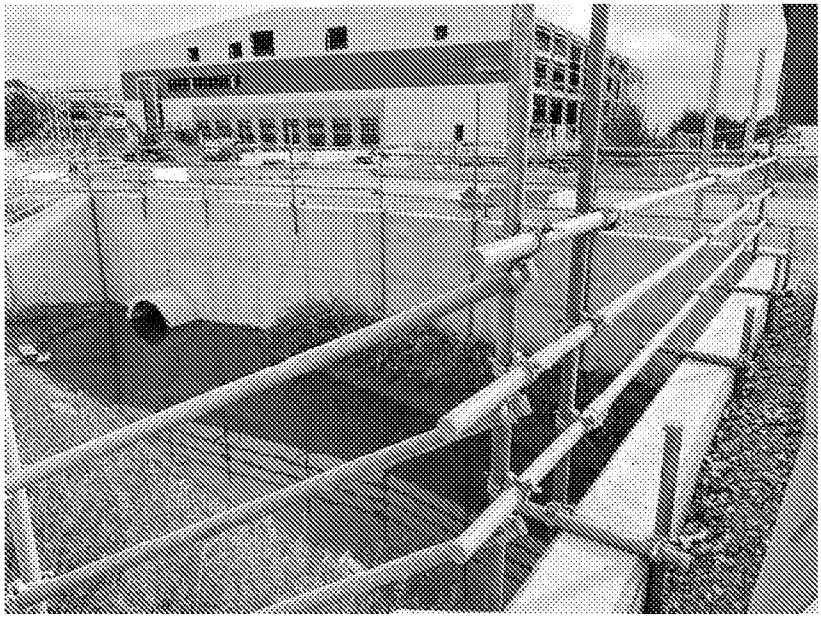

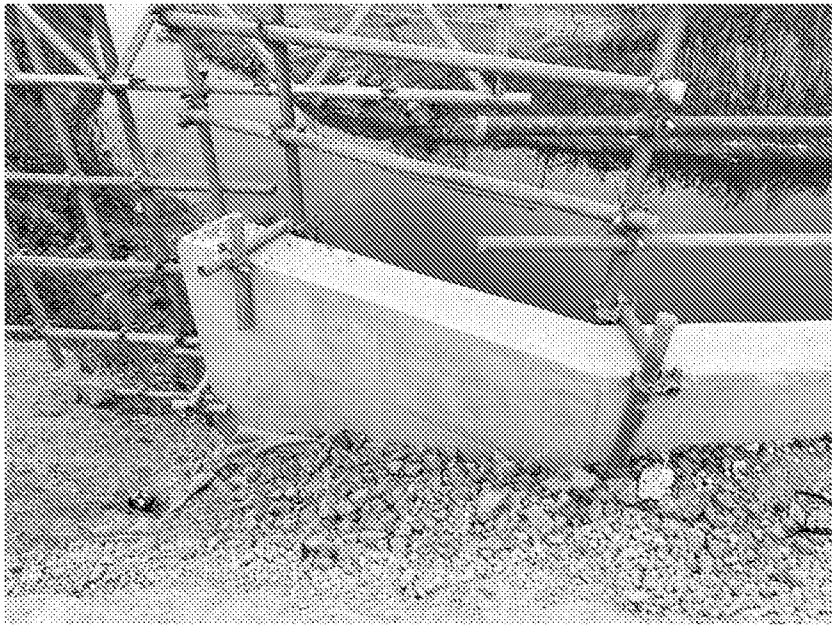

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Notes from on site meeting for final validation site inspection and walk round:

Present:

JDL Consultants Limited:	Mr Duncan Leather and Mr James Adams
ISG Limited:	Mr David Flannery and Mr Brendan Starbuck
Arundel District Council	Mr Paul Cann Principal Drainage Engineer

Site meeting was to introduce JDL Consultants Limited as the Validation Engineers to Paul Cann and a discussion was undertaken to review the proposed format of the validation report for submission and to talk through the documentation and checks undertaken.

Post Site meeting a walk round was undertaken to inspect and confirm the items below had been addressed.

- Remaining Surface water manholes were inspected and ad been competed
- Remediation to the non-benched manholes has been undertaken.
- FCA all earthworks completed.
- Inspection was undertaken of:
- The retention ponds.
- The FCA
- The works to the drainage ditches.
- The Manholes previously inspected on the 11th October were inspected to confirm the remedials have been completed.

Section 4 – Confirmation of Key Materials

The below tables compare the materials used between the as-built data against construction design drawings and weather its acceptable. If the design has a change of material, it will be determined if acceptable or not.

4.1 Warehouse SW

Manholes

Manhole #	Design Material	As-Built Material	Acceptable (Yes/No)
S101	PC Ring	PC Ring	Yes
S102	PC Ring	PC Ring	Yes
S103	PC Ring	PC Ring	Yes
S104	PC Ring	PC Ring	Yes
S105	PC Ring	PC Ring	Yes
S106	PC Ring	PC Ring	Yes
S207	PC Ring	PC Ring	Yes
S208	PC Ring	PC Ring	Yes
S209	PC Ring	PC Ring	Yes
S214	PC Ring	PC Ring	Yes
S215	PC Ring	PC Ring	Yes

Pipe Run

Pipe Location to Manholes	Design Material	As-Bult Material	Acceptable (Yes/No)
S1001-S102	TBC	Polyvinyl chloride	Yes
S102-S103	TBC	Polyvinyl chloride	Yes
S103-S104	TBC	Polyvinyl chloride	Yes
S104-S105	TBC	Polyvinyl chloride	Yes
S106-Outfall 2	TBC	Polyvinyl chloride	Yes
S207-S208	TBC	Polyvinyl chloride	Yes
S208-S209	TBC	Polyvinyl chloride	Yes
S209-S212	TBC	Polyvinyl chloride	Yes
S209-Aco	TBC	Polyvinyl chloride	Yes
S214-S104	TBC	Polyvinyl chloride	Yes
S215-S214	TBC	Polyvinyl chloride	Yes

S105- Tank	TBC	Polyvinyl chloride	Yes

4.2 Multi-storey car park SW

Manholes

Manhole #	Design Material	As-Built Material	Acceptable (Yes/No)
S001	PC Ring	PC Ring	Yes
S002	PC Ring	PC Ring	Yes
S006	PC Ring	PC Ring	Yes
S007	PC Ring	PC Ring	Yes
S008	PC Ring	PC Ring	Yes
S009	PC Ring	PC Ring	Yes
S010	PC Ring	PC Ring	Yes
S010a	PC Ring	PC Ring	Yes
S011	PC Ring	PC Ring	Yes
S011a	PC Ring	PC Ring	Yes
S011b	PC Ring	PC Ring	Yes
S012	PC Ring	PC Ring	Yes
S013	PC Ring	PC Ring	Yes
S014	PC Ring	PC Ring	Yes
S015	PC Ring	PC Ring	Yes
S302a	PC Ring	PC Ring	Yes
S302b	PC Ring	PC Ring	Yes
S303	PC Ring	PC Ring	Yes

Pipe Run

Pipe Location to Manholes	Design Material	As-Built Material	Acceptable (Yes/No)
S001-S002	Polyvinyl chloride	Polyvinyl chloride	Yes
S002-S009	Polyvinyl chloride	Polyvinyl chloride	Yes
S006-S008	Polyvinyl chloride	Polyvinyl chloride	Yes
S007-S008	Polyvinyl chloride	Polyvinyl chloride	Yes
S008-S009	Polyvinyl chloride	Polyvinyl chloride	Yes
S009-S012	Polyvinyl chloride	Polyvinyl chloride	Yes

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S010-S011b	Polyvinyl chloride	Polyvinyl chloride	Yes
S010-S010a	Polyvinyl chloride	Polyvinyl chloride	Yes
S011-S011b	Polyvinyl chloride	Polyvinyl chloride	Yes
S011a-S011b	Polyvinyl chloride	Polyvinyl chloride	Yes
S011-S012	TBC	Polyvinyl chloride	Yes
S012-S013	TBC	Polyvinyl chloride	Yes
S302A-S302B	TBC	Concrete	Yes
S302B-S303	TBC	Concrete	Yes

4.3 Car park SW

Manhole

Manhole #	Design Material	As-Built Material	Acceptable (Yes/No)
S201	TBC	PPIC	Yes
S202	TBC	PPIC	Yes
S203	PC Ring	PC Ring	Yes
S204	TBC	PPIC	Yes
S205	PC Ring	PC Ring	Yes
S206	TBC	PC Ring	Yes
S207	TBC	PC Ring	Yes
S208	TBC	PC Ring	Yes
S209	TBC	PC Ring	Yes
S211	TBC	PC Ring	Yes
S212	TBC	RC Concrete	Yes
S213	TBC	PC Ring	Yes

Pipe Run

Pipe Location to Manholes	Design Material	As-Built Material	Acceptable (Yes/No)
S201-S202	TBC	Polyvinyl chloride	Yes
S202-S203	TBC	Polyvinyl chloride	Yes
S203-S205	TBC	Polyvinyl chloride	Yes
S204-S205	TBC	Polyvinyl chloride	Yes

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S211-S212	TBC	Polyvinyl chloride	Yes
S212-S209	TBC	Polyvinyl chloride	Yes
S206 –TANK	TBC	Polyvinyl chloride	Yes
S213 –TANK	TBC	Polyvinyl chloride	Yes

4.5 Attenuation Tanks

Interceptor #	Design Product	As-Built Product	Acceptable (Yes/No)
Warehouse	StormBrixx SD	StormBrixx HDGF	Yes
Car Park	StormBrixx SD	StormBrixx SD	Yes

4.6 Precast Head Walls

Headwall #	Design Material	As-Built Material	Acceptable (Yes/No)
1	Concrete	Concrete	Yes
2	Concrete	Concrete	Yes
3	Concrete	Concrete	Yes
4	Concrete	Concrete	Yes
5	Concrete	Concrete	Yes
6	Concrete	Concrete	Yes
7	Concrete	Concrete	Yes
8	Concrete	Concrete	Yes
9	TBC	Concrete	Yes
10	Concrete	Concrete	Yes
11	Concrete	Concrete	Yes
12	TBC	Concrete	Yes
13	TBC	Concrete	Yes
14	Concrete	Concrete	Yes
15	Concrete	Concrete	Yes

4.7 Interceptors

Interceptor #	Design Product	As-Built Product	Acceptable (Yes/No)
PI1	P200/2CSC	P200/2CSC	Yes
PI2	P200/2CSC	TBC	-
PI3	P200/2CSC	P200/2CSC	Yes

Section 5 – As Built Survey

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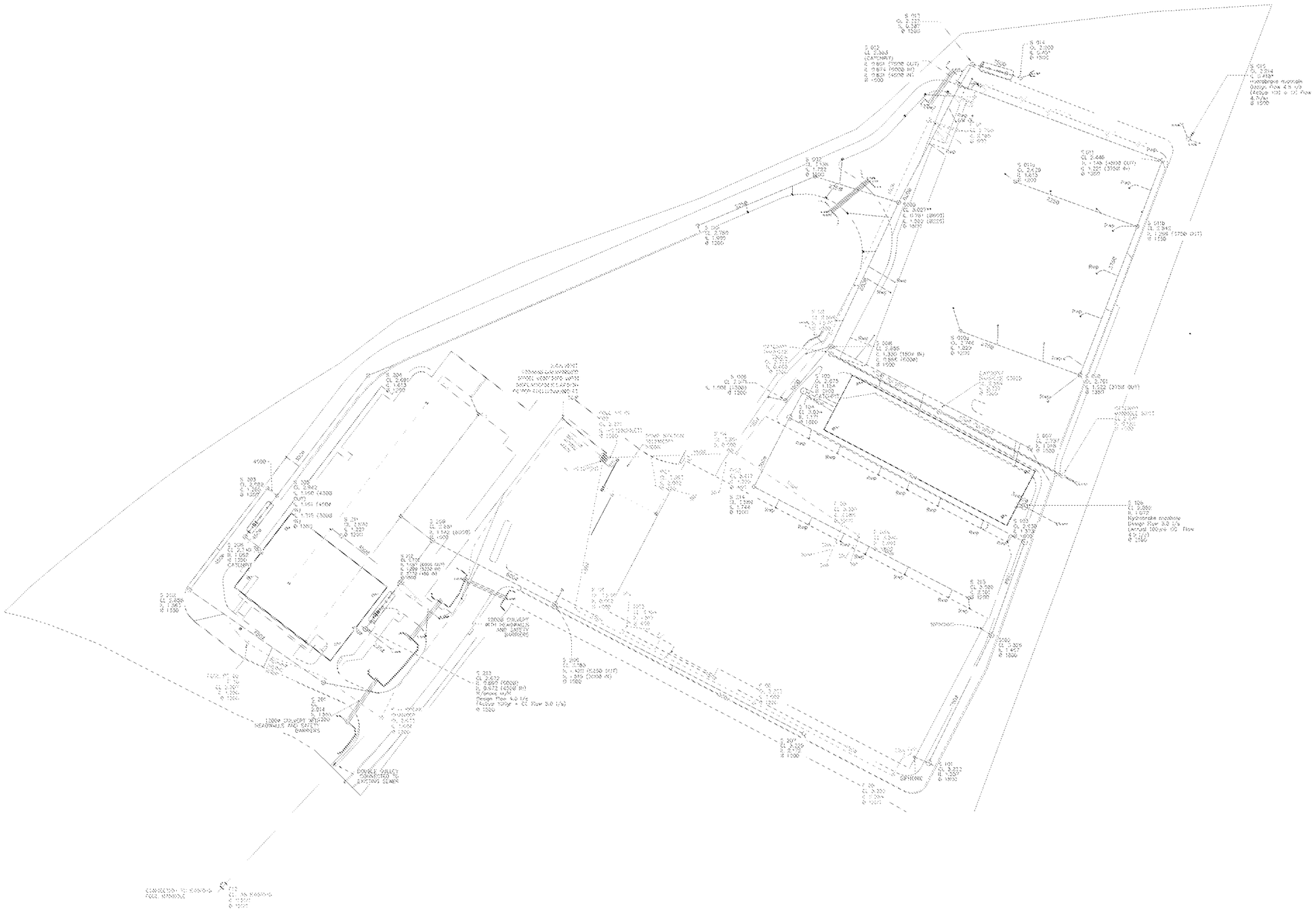

CDM REGULATIONS 2015 RESIDUAL HAZARDS

RESIDUAL HAZARDS IDENTIFIED

CONSTRUCTION

1. EXISTING ELECTRIC MAINS, INCLUDING HIGH VOLTAGE, ARE PRESENT ACROSS THE SITE. MAINS SHOWN HERE ARE FROM RECORD DRAWINGS SO INDICATIVE ONLY. IT SHOULD BE ASSUMED THAT OTHER MAINS AND SERVICES ARE PRESENT.
2. THERE IS THE POTENTIAL FOR THE EXISTING STRUCTURES ON THE SITE TO CONTAIN ASBESTOS. AN ASBESTOS SURVEY SHOULD BE CONDUCTED PRIOR TO WORK BEING CARRIED OUT ON THESE BUILDINGS.
3. BEING A FORMER M.O.D. FACILITY THERE IS THE POTENTIAL FOR UNEXPLODED ORDNANCE. AN UNEXPLODED ORDNANCE SURVEY SHOULD BE CONSIDERED BEFORE EXCAVATION BEGINS.
4. NO SIGNIFICANT OTHER HAZARDS BEYOND THOSE KNOWN TO AN EXPERIENCED CONTRACTOR.

FUTURE DEMOLITION

A. THE TEMPORARY STONE SURFACE MATERIAL, WHEN BEING REMOVED, MAY CONTAIN CONTAMINANTS SUCH AS DIESEL, OIL, GREASE.
B. NO SIGNIFICANT OTHER HAZARDS BEYOND THOSE KNOWN TO AN EXPERIENCED CONTRACTOR.

THIS REGISTER IS A NON-EXHAUSTIVE LIST OF RESIDUAL HAZARDS RELATING TO THE WORKS SHOWN ON THIS DRAWING THAT HAVE BEEN IDENTIFIED DURING THE DESIGN STAGE.

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A CONTRACTOR WITH THE APPROPRIATE SKILLS, KNOWLEDGE & EXPERIENCE, AND IF THEY ARE AN ORGANISATION, THE ORGANISATIONAL CAPABILITY NECESSARY TO FULFILL THE ROLE.

Gallagher

LEITRIM HOUSE
LITTLE PRESTON,
AYLESFORD,
MAIDSTONE
KENT, ME20 7NS.

Title:-

BELOW GROUND DRAINAGE ASBUILT

Project:-

IGS Ltd
DBN5 - Amazon Hub
Amazon Hub - Newlands Way - Bognor Regis - PO22 9FJ

Drn by:-	Date:-	Scale:-	Sheet number:-
GM	24th January 2024	DO NOT SCALE	1 of 1

Drawing number:- DBN5-GAL-ASB-DRAIN-0000

Revision:- A

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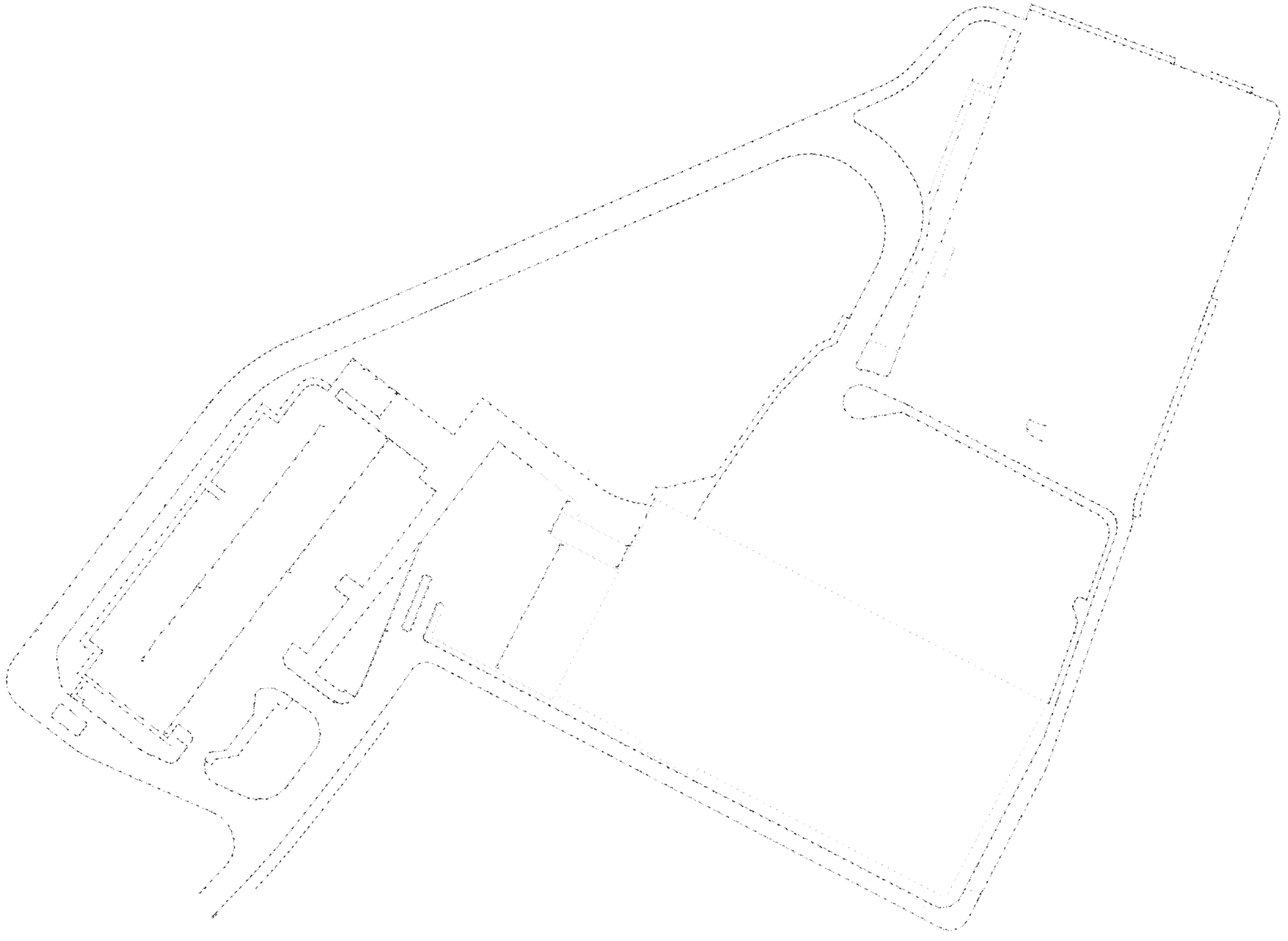

CDM REGULATIONS 2015 RESIDUAL HAZARDS

RESIDUAL HAZARDS IDENTIFIED

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Gallagher

LEYTRIM HOUSE
LITTLE PRESTON,
AYLESFORD,
MAIDSTONE
KENT, ME20 7NS

Title:-

KERB ASBUILT

Project:-

IGS Ltd
DBN5 - Amazon Hub
Amazon Hub - Newlands Way - Bognor Regis - PO22 9FJ

Drn by:-	Date:-	Scale:-	Sheet number:-
GM	24th January 2024	DO NOT SCALE	1 of 1

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Revision:- A

ARUN DISTRICT COUNCIL AL/87/21/PL

CDM REGULATIONS 2015 RESIDUAL HAZARDS

RESIDUAL HAZARDS IDENTIFIED

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LEITRIM HOUSE
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KENT, ME20 7NS

Title:-

KERB ASBUILT - SHEET 1 OF 8

Project:-

IGS Ltd
DBN5 - Amazon Hub
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ARUN DISTRICT COUNCIL AL/87/21/PL

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Title:-

KERB ASBUILT - SHEET 2 OF 8

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Revision:- A

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LITTLE PRESTON,
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KENT, ME20 7NS

Title:-

KERB ASBUILT - SHEET 3 OF 8

Project:-

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Drawing number:- DBN5-GAL-ASB-KERB-0003

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ARUN DISTRICT COUNCIL AL/87/21/PL

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KERB ASBUILT - SHEET 4 OF 8

Project:-

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ARUN DISTRICT COUNCIL AL/87/21/PL

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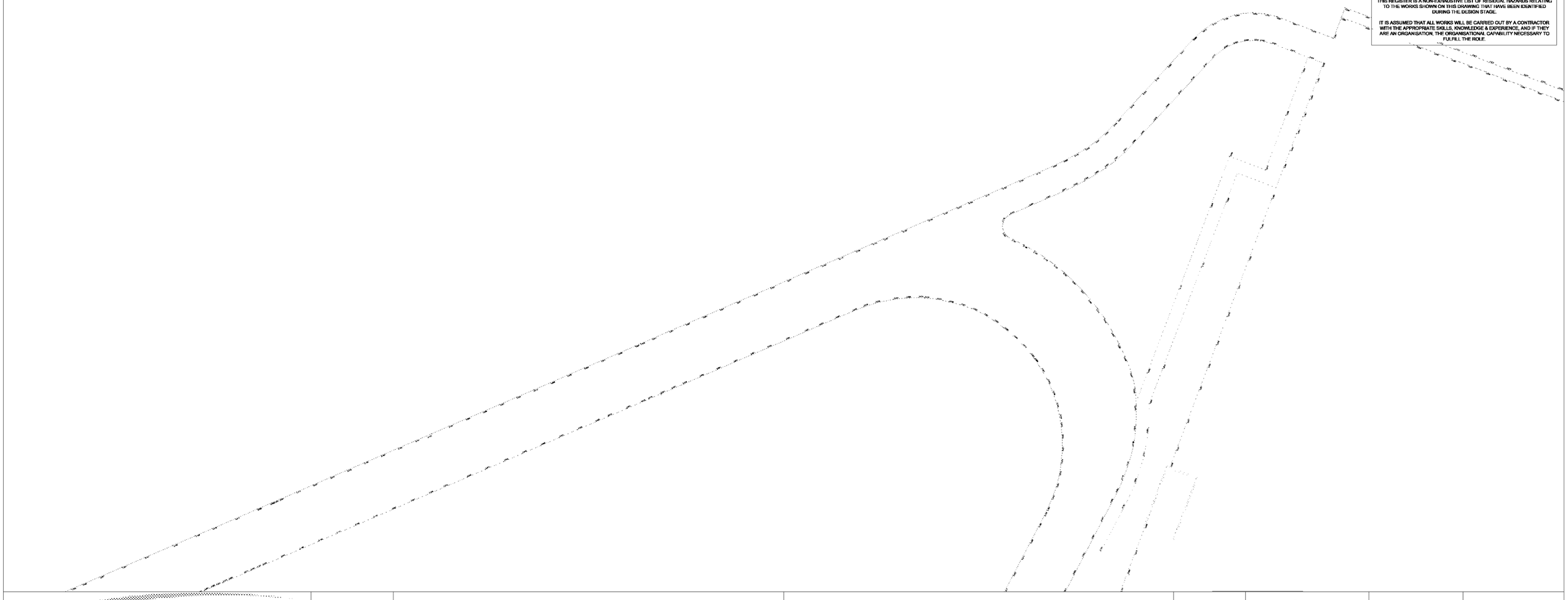

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KERB ASBUILT - SHEET 5 OF 8

Project:-
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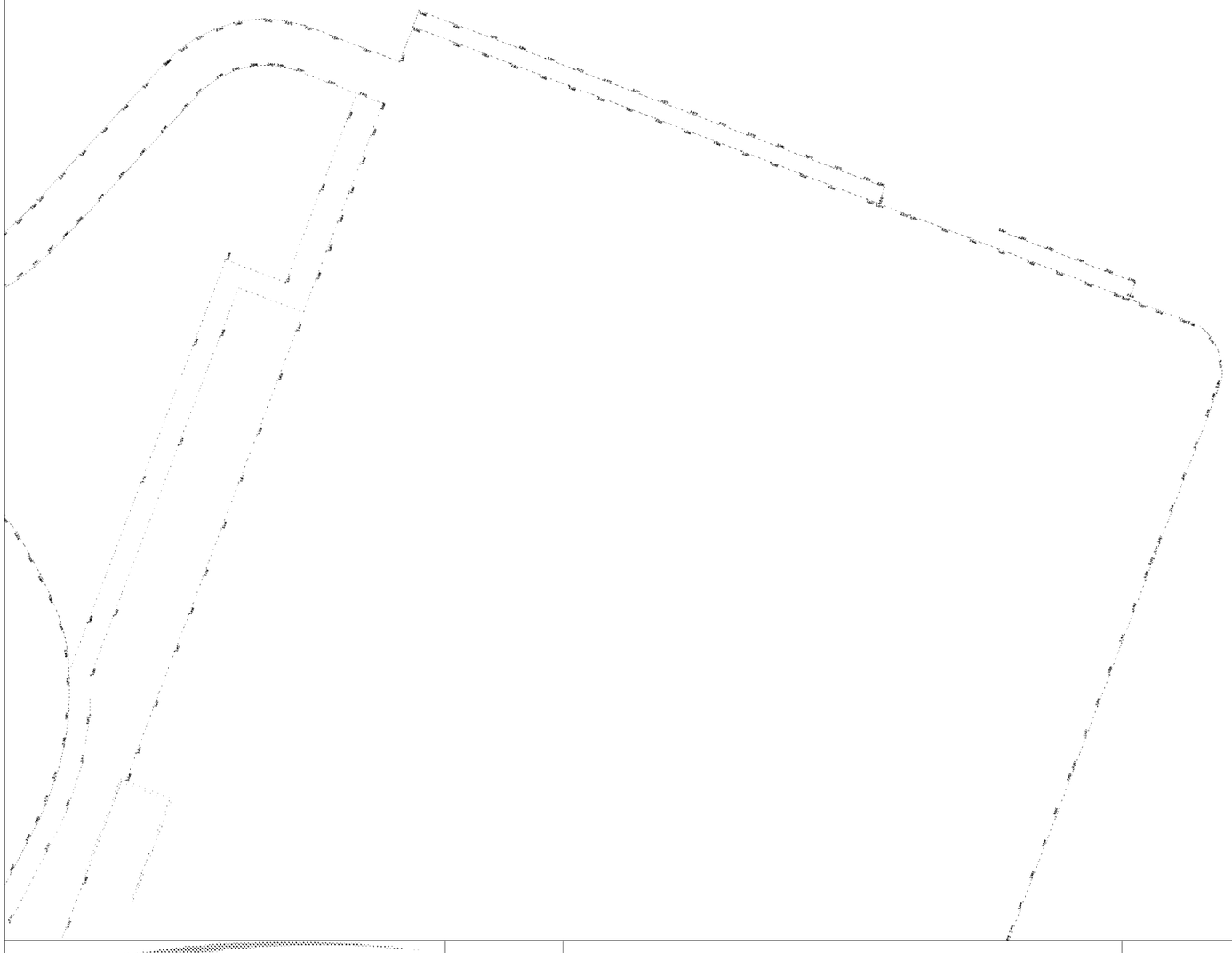
ARUN DISTRICT COUNCIL AL/87/21/PL



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ARUN DISTRICT COUNCIL AL/87/21/PL

Section 6 – CCTV Survey

Draft CCTV survey provided in Appendix C.

ARUN DISTRICT COUNCIL AL/87/21/PL

Section 7 – Tree Locations

All root protected trees have been avoided. No trees have been detrimental to the drainage infrastructure.

Section 8 – Unauthorised Works

No unauthorised works noted.

ARUN DISTRICT COUNCIL AL/87/21/PL

Section 9 – Variations of Design and Works

Deviations approved in Section 2 are minor and have been reviewed and accepted by a qualified person.

ARUN DISTRICT COUNCIL AL/87/21/PL

Section 10 – Remedial Works

No remedial works required for the pipe network construction.

Appendix A – As-Built Data

Appendix B – Locations

Appendix C – DRAFT CCTV Survey

ARUN DISTRICT COUNCIL AL/87/21/PL

QA Check Sheet – Attenuation Tank

Project Title:	Amazon Bognor Regis	Project #:	750I	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule DES018527 AMAZON BOGNOR REGIS ATTENUATION TANK 2		
Area/Location:	Attenuation Tank 2	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Brief all concrete operatives on the required finish, as per the agreed benchmarks (if applicable)

Construction Phase	
Setting Out - Line and Level	Yes
Temporary Works	No

Formation Level	Shingle Level	Shingle Size	Shingle Depth (mm)
0.832	0.932	20mm	100

[redacted]	Client Comments

James Dent	
30-08-2023	

	Comments

Hold Point ⇒ Proceed with Tank Installation

Type	Laps (mm)	Jointed	Comments
Polyproplylene GTX-N	150	Yes	

Tank System Approved	Comments
Yes	

Type	Pipe Diameter (mm)	Invert Level	Comments
Twinwall	450mm	1.020	OL
Twinwall	450mm	1.019	IL
uPVC	100mm	0.000	x4no. Vent pipes

Hold Point ⇒ Proceed with Backfill / Reinstatement

Tank Surround	Backfill Material	Comments
20mm Shingle	Type 1	

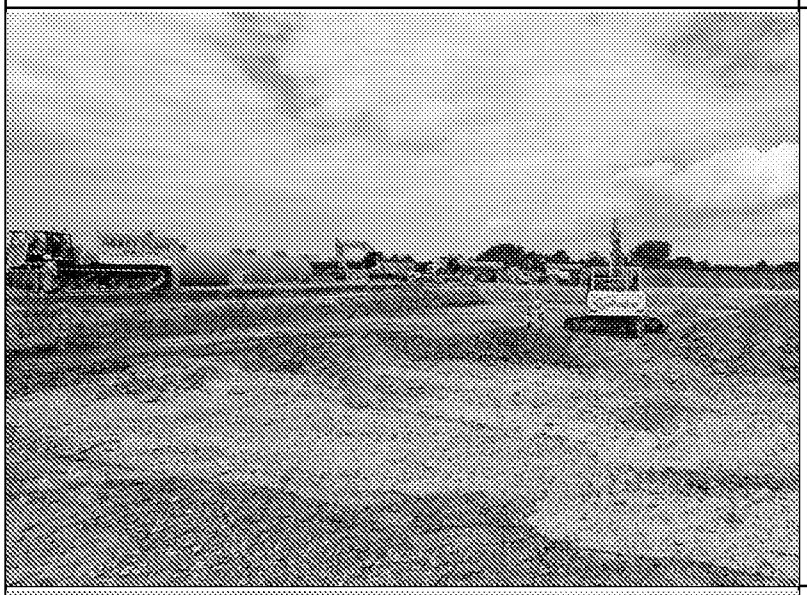
Post-Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).
iii	Attach a copy of the marked drawing to this check sheet

Sign-off		
Gallagher		Client

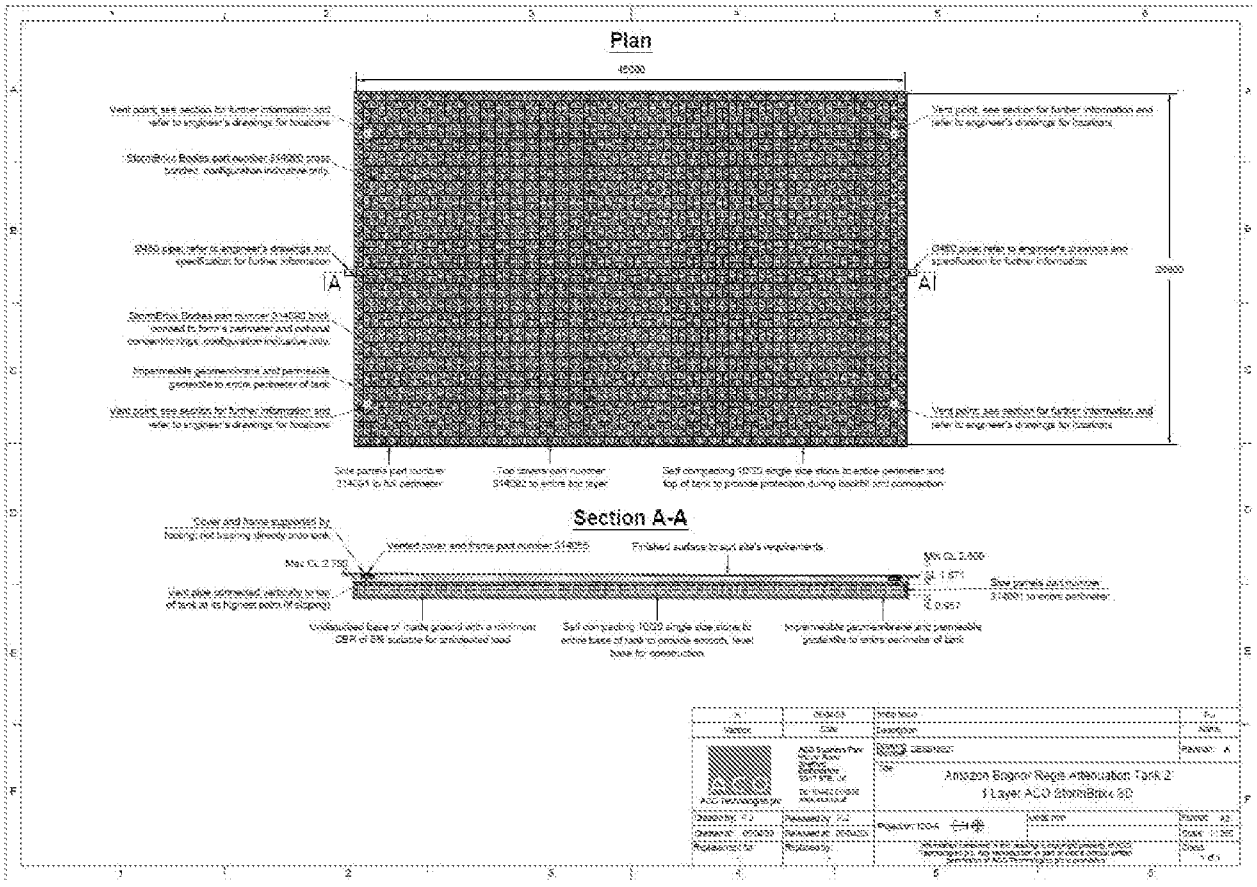
[redacted]		
George Mcgearty		Bren Starbuck
12-09-2023		12-09-2023
Client Comments		

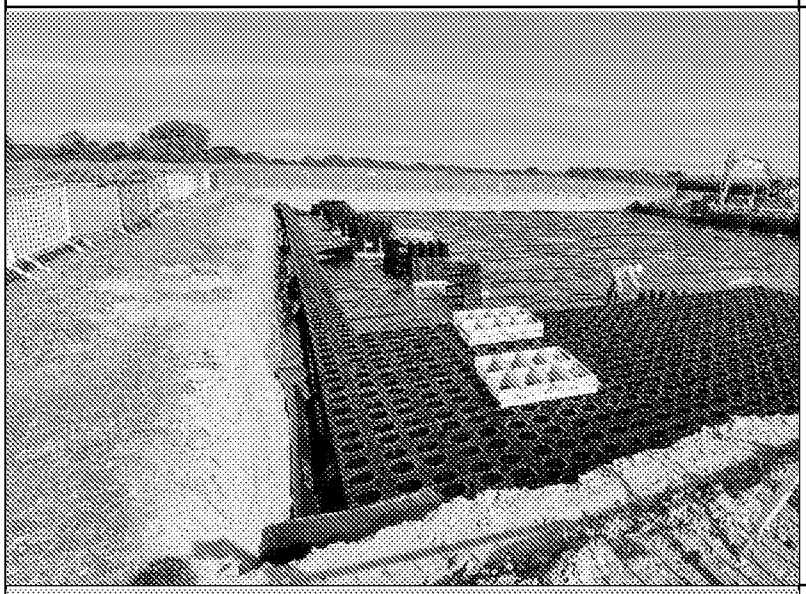
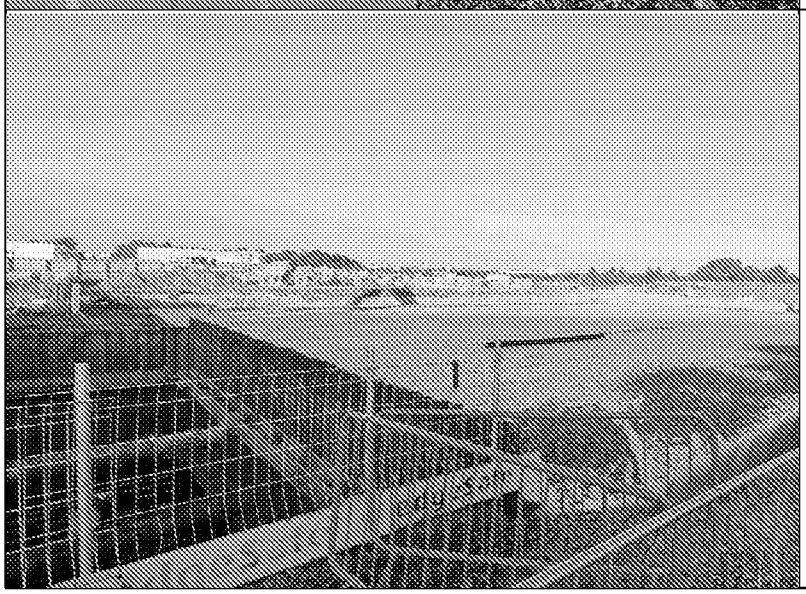
Other Sign-off	
[Name Answer]	[Signature Answer]
[Company Answer]	
[Date Answer]	
Comments [Comments Answer]	

Attachments

Formation Photos	Comments
	

Tank installation drawing



Tank Installation Photos	Comments
	
	

Backfill Photos	Comments

Handover Certificate

Handover Sheet

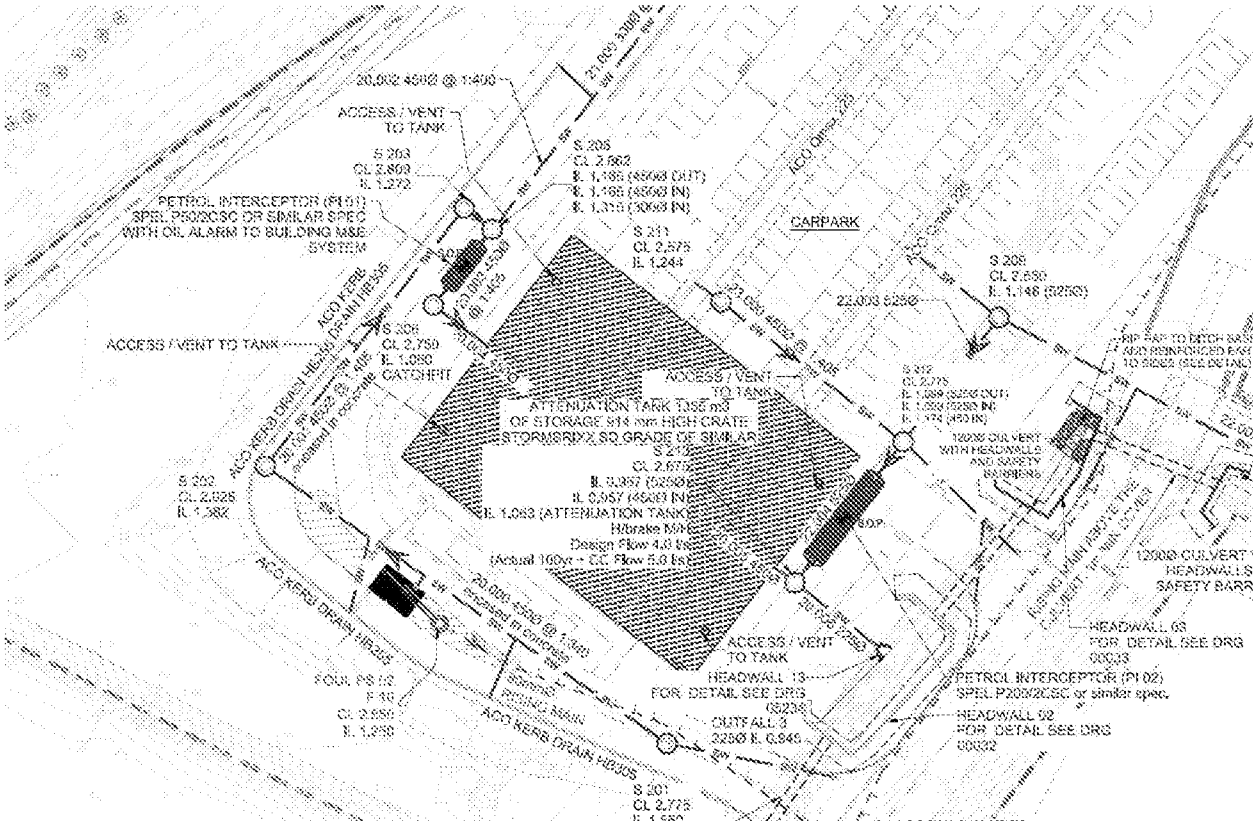
[illegible]	Amazon Bognor Regis	[illegible]	7501	[illegible]	12-09-2023
[illegible]	George Mcgearty	[illegible]	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG(C02)-Schedule DES018527 AMAZON BOGNOR REGIS ATTENUATION TANK 2		
[illegible]	Attenuation Tank 2	[illegible]	DBN5 Specification		

[illegible]		
Description of Works	Area Complete	Comments
Storm Brixx SD Attenuation Tank	Yes	

Handover Report	Comments
Accepted	OK

[illegible]		
Gallagher		Client
[redacted]		

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 14 - Culvert HW1 to HW2	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
-0.113	-0.100	18.900	-0.069

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
-0.101	-0.119	19.574	0.092

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Concrete	1200mm	20mm Shingle

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

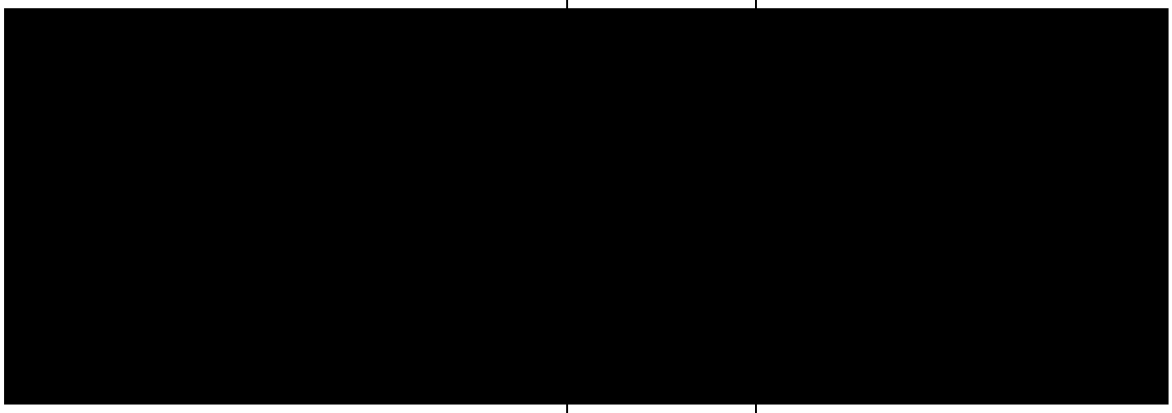
Backfill Material	Compaction Method	Comments

Type 1	Rammax	Type 1 after shingle surround

Pipe Test (Results)	Comments
Pass	

Client Comments

Post-Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

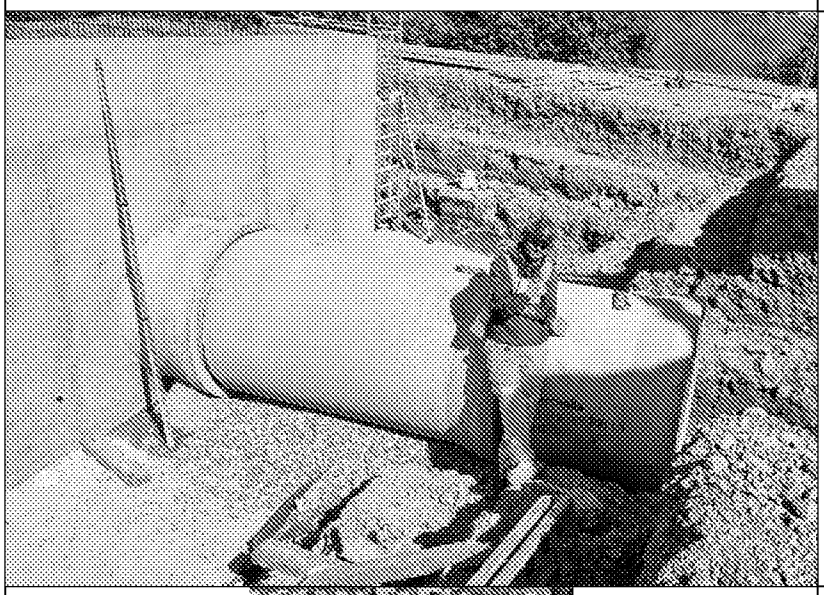
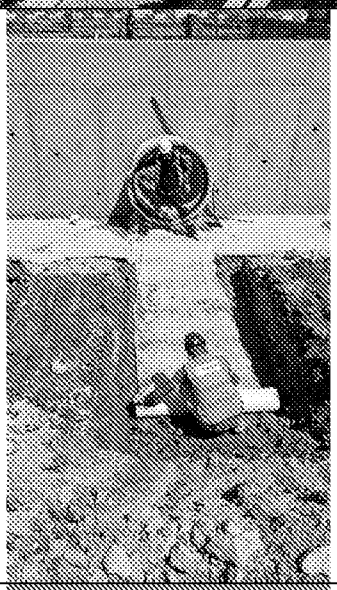
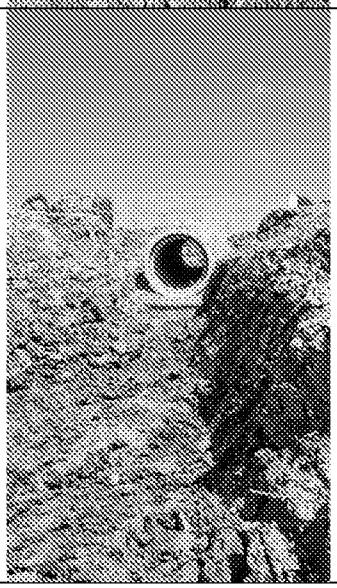
Sign-off		
Gallagher		Client
		
George Mcgearty		Bren Starbuck
27-06-2023		27-06-2023

Client Comments

Other Sign-offs

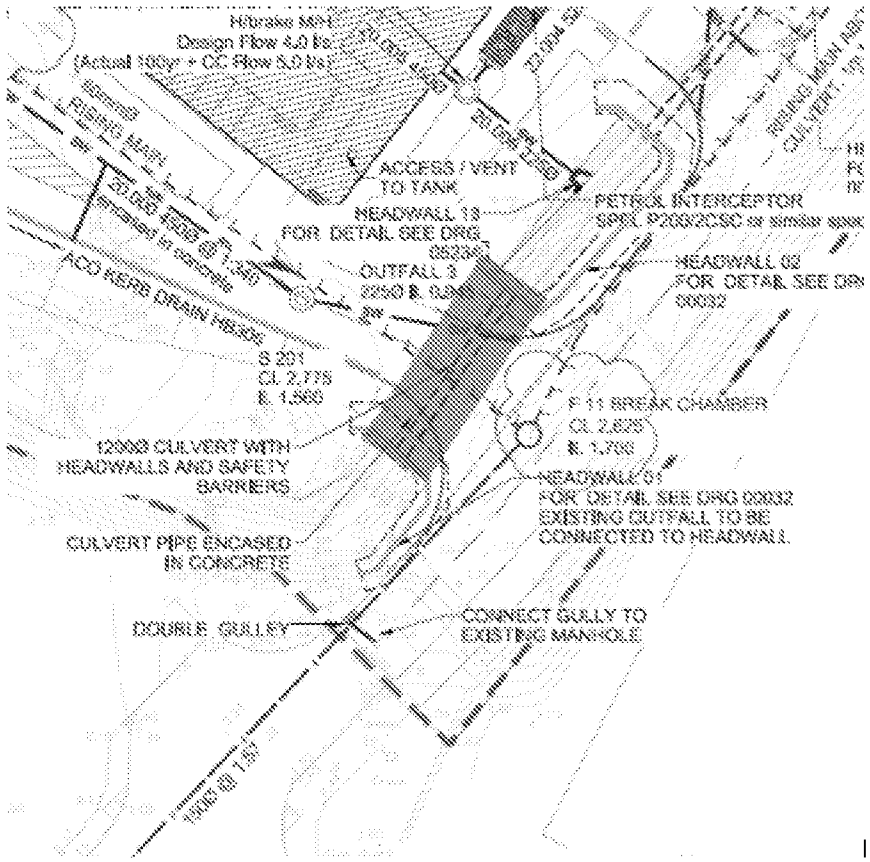
Signature	Name	Company	Date	Comments
			27-06-2023	

Attachments

Pipe Photos	Comments
	
	
	

Backfill Photos	Comments

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750I	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 23 - HW3 to HW4	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
-0.164	-0.151	16.945	-0.077

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
-0.155	-0.171	16.653	0.096

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Concrete	1200mm	20mm Shingle

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments

Type 1	Rammax	

Pipe Test (Results)	Comments
Pass	

Client Comments

Post-Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

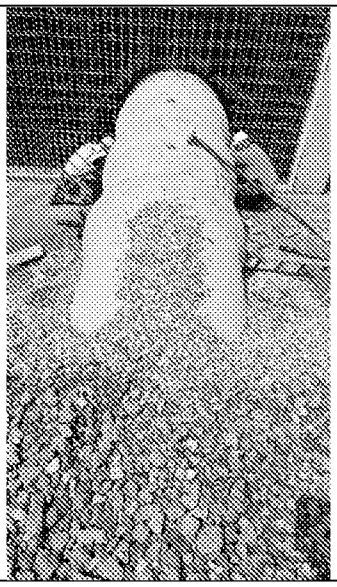
Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
27-06-2023		27-06-2023

Client Comments

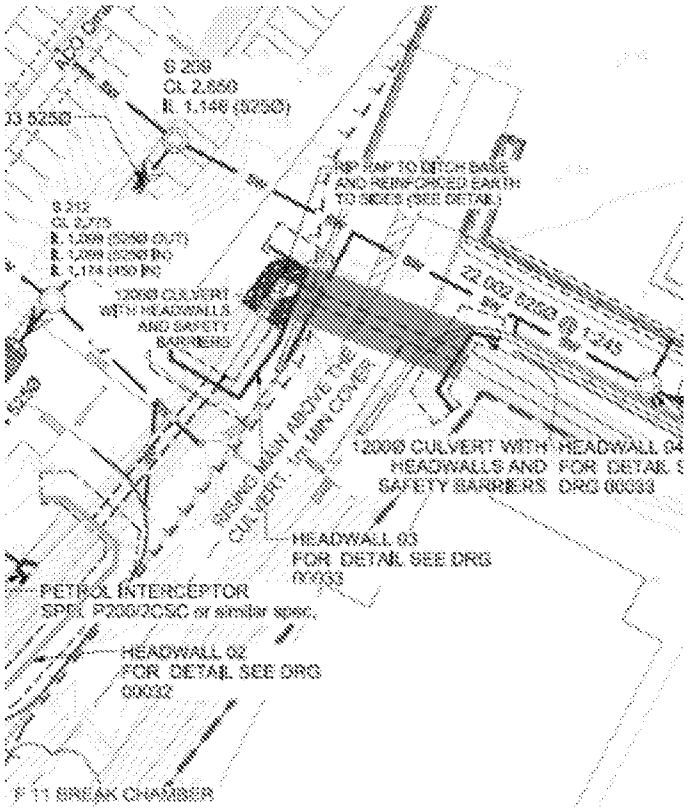
Other Sign-offs

Signature	Name	Company	Date	Comments
			27-06-2023	

Attachments	
Pipe Photos	Comments

Backfill Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date:	15-05-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location	S201	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
1.311	N/A	

Concrete Level	Concrete Type	Comments
1.561	GEN 3	

Type	Size / Diameter	Comments
Precast Ring	1350mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments

Twinwall	150mm	1.786	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	450mm	1.561	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Roller	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
21-09-2023		21-09-2023

Client Comments

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
F900	150	600*600	

IMPORTANT NOTE - The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

Final Testing

Clean & Final Testing	Comments
Yes	

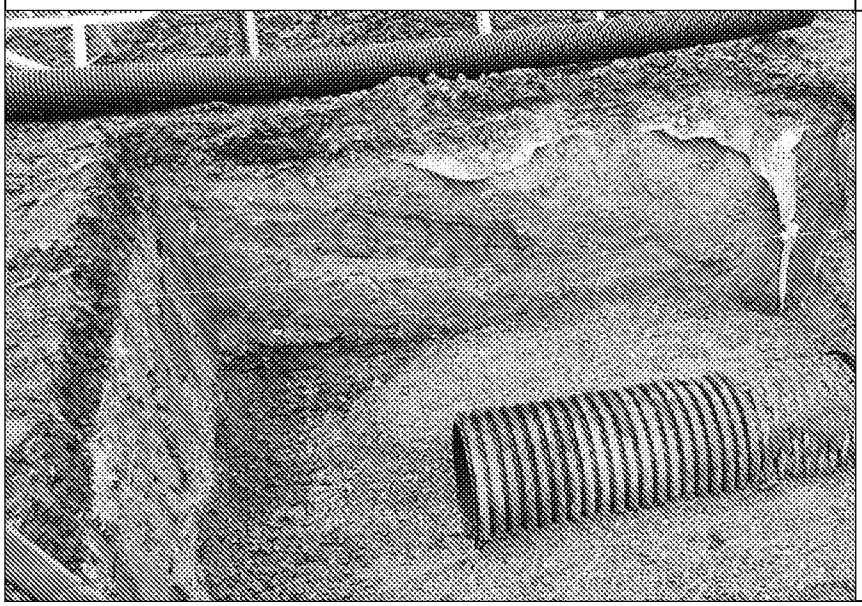
Post-Construction

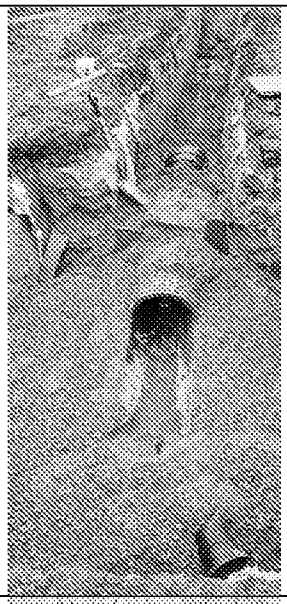
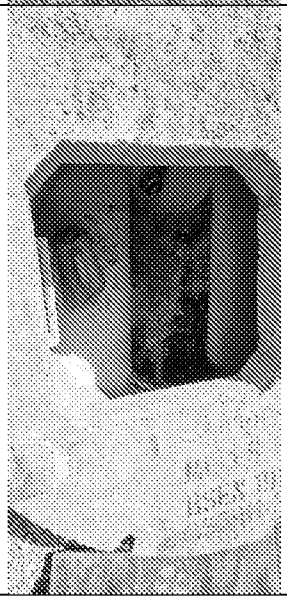
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

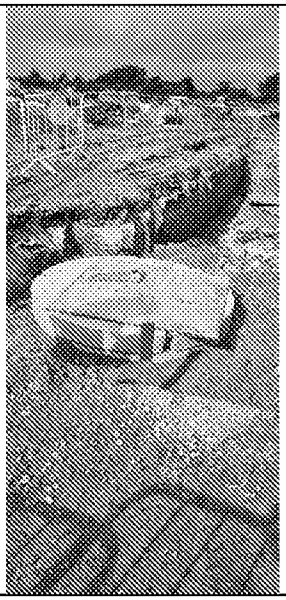
Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
22-09-2023		25-09-2023
Client Comments		

Other sign-off Signatures				
Signature	Name	Company	Date	Comments

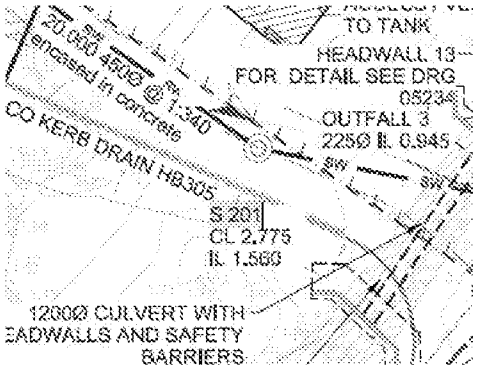
Excavation / Temporary Works Photos	Comments

Benching	Comments
	

Surround Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 24 - S201 to S202	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
1.560	1.382	57.907	0.307

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
1.562	1.384	57.907	0.307

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Twinwall	450mm	GEN3

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments

Type 1	Rammax	

Pipe Test (Results)	Comments
Pass	

Client Comments

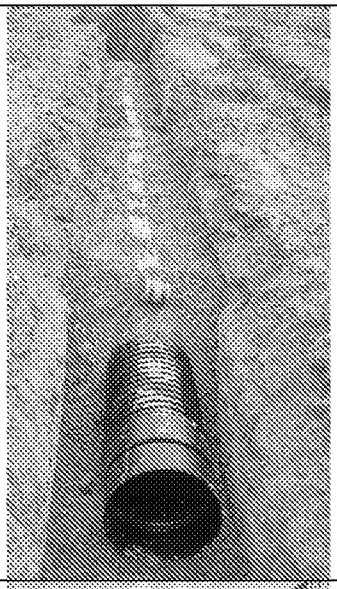
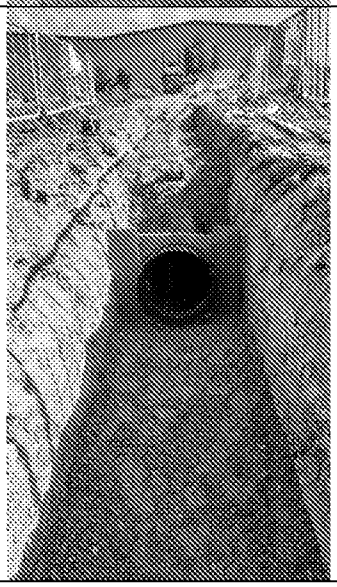
Post-Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

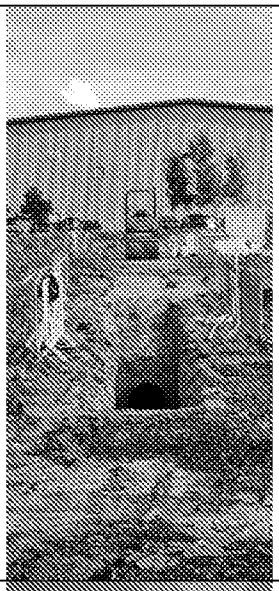
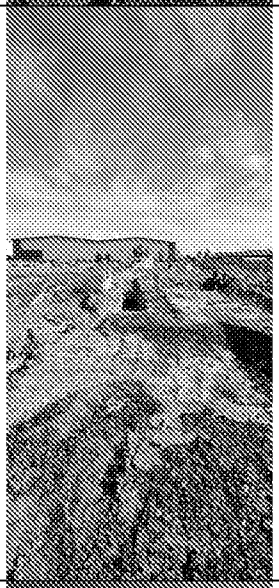
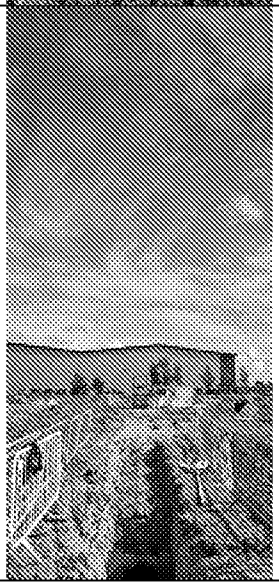
Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
04-10-2023		04-10-2023

Client Comments

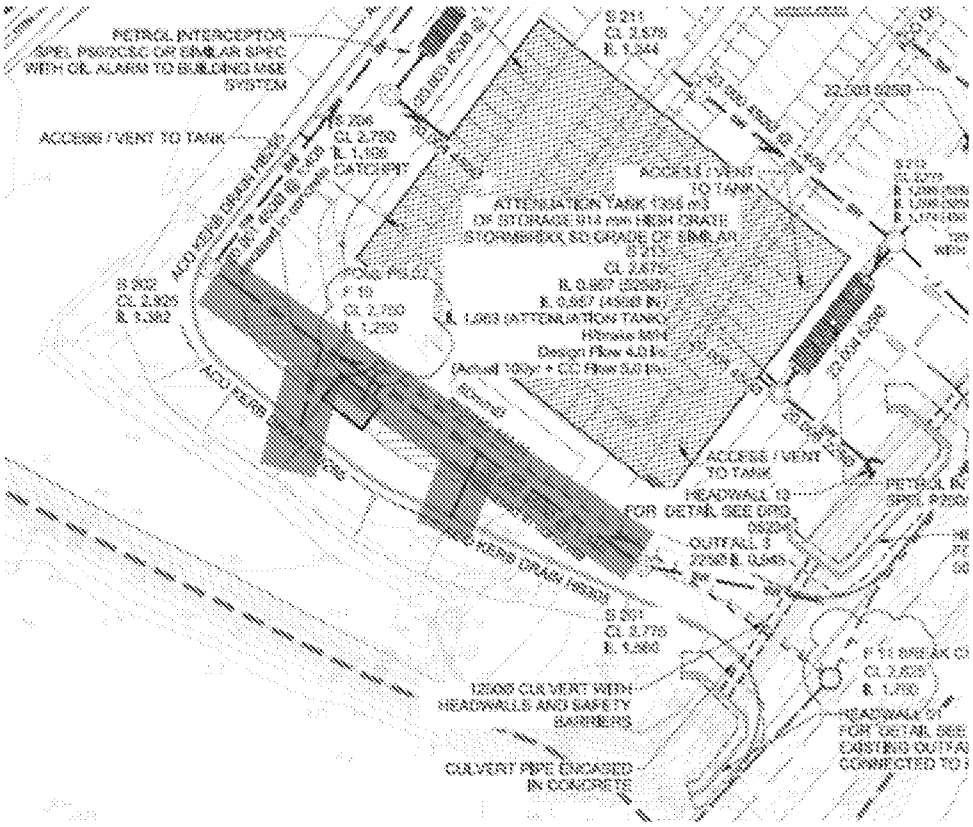
Other Sign-offs

Signature	Name	Company	Date	Comments
			04-10-2023	

Attachments	
Pipe Photos	Comments
	
	

Backfill Photos	Comments
	
	
	

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date:	15-05-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location	S202	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
1.132	N/A	

Concrete Level	Concrete Type	Comments
1.382	ST2	

Type	Size / Diameter	Comments
Precast Ring	1350mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments

Twinwall	450mm	1.384	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	450mm	1.382	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
04-10-2023		02-10-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
D400	150	600*600	

IMPORTANT NOTE - The full size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

Final Testing

Clean & Final Testing	Comments
Yes	

Post-Construction

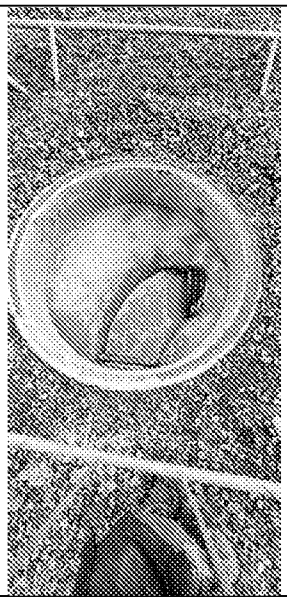
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

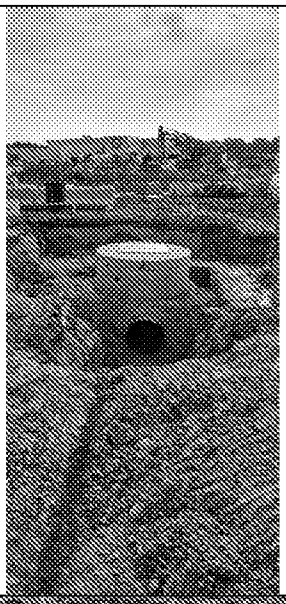
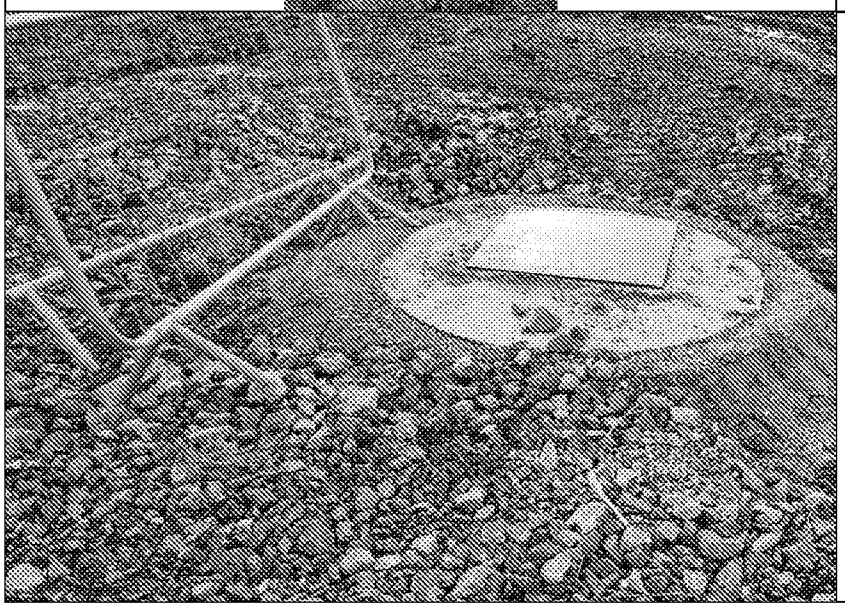
Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
13-10-2023		23-10-2023
Client Comments		

Other sign-off Signatures				
Signature	Name	Company	Date	Comments

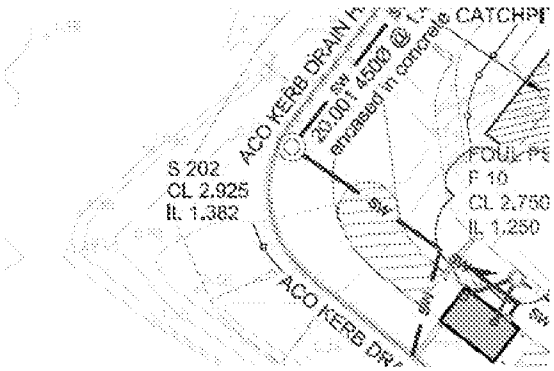
Excavation / Temporary Works Photos	Comments

Benching	Comments

Surround Photos	Comments
	
	

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 25 - S202 to S203	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
1.382	1.264	45.302	0.260

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
1.382	1.260	45.300	0.269

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Twinwall	450mm	GEN3

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments
Type 1	Rammax	

Pipe Test (Results)	Comments
Pass	

Client Comments

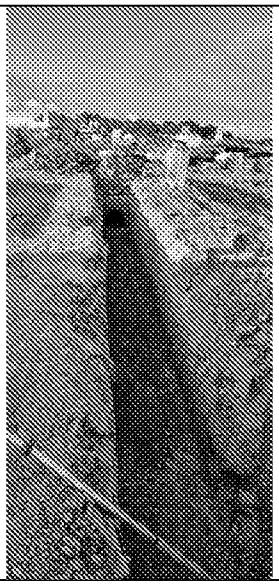
	Post-Construction
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

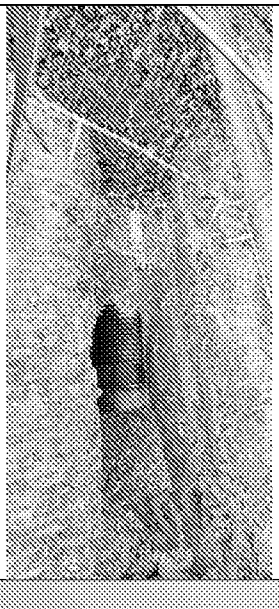
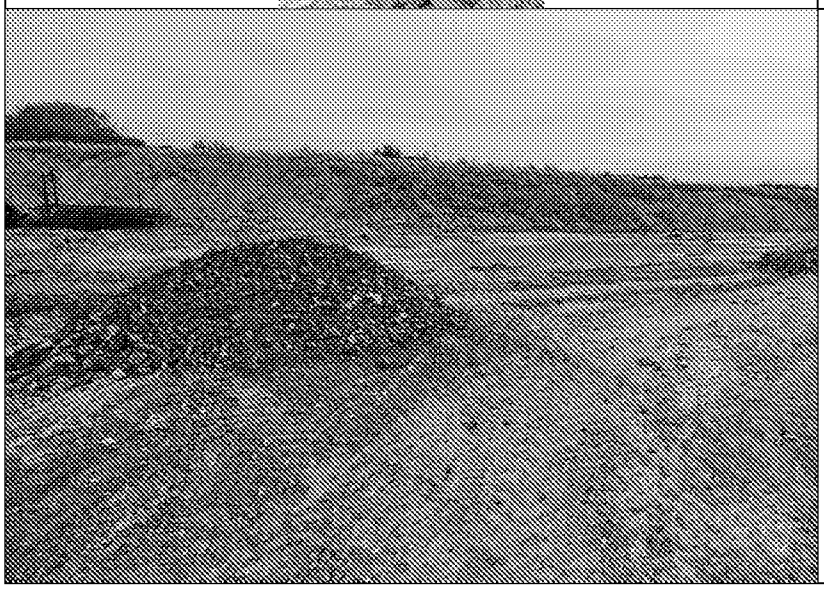
Sign-off		
Gallagher		Client
George Mcgearty		Bren Starbuck
16-10-2023		

Client Comments

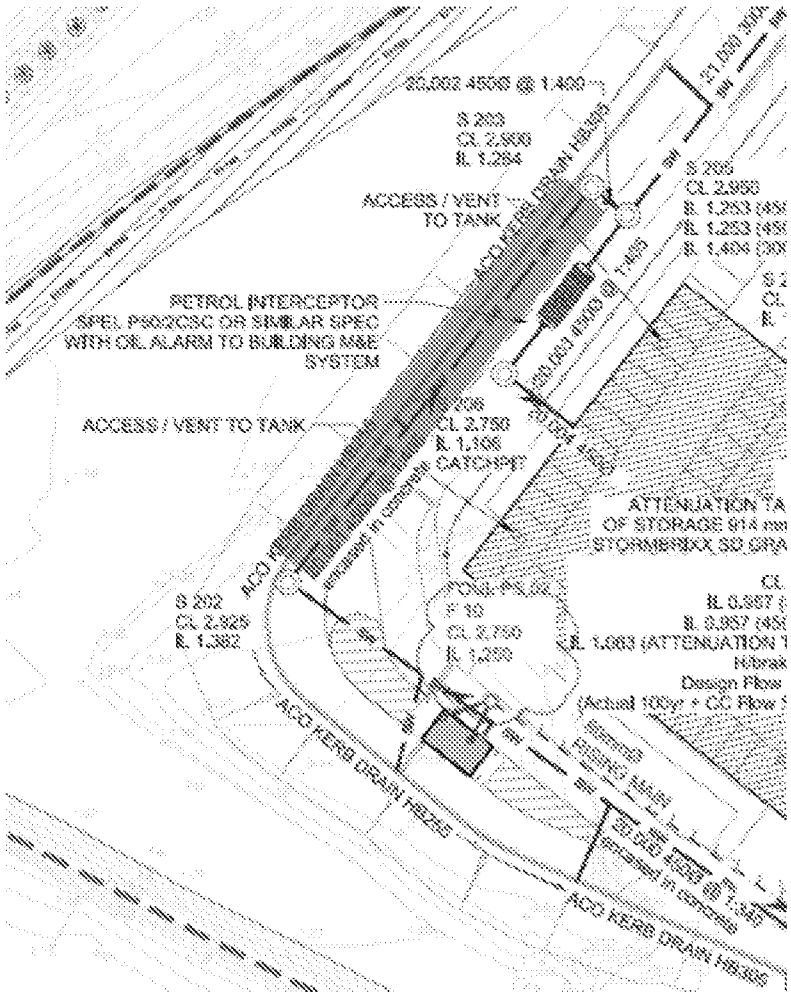
Other Sign-offs

Signature	Name	Company	Date	Comments
			28-11-2023	

Attachments	
Pipe Photos	Comments
	

Backfill Photos	Comments
	
	

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 74 - HW5 to HW6	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
0.706	0.676	17.534	0.171

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
0.701	0.672	17.500	0.166

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Concrete	600mm	20mm Shingle

Flexcell	Pipe Test (Results)	Comments
No	Pass	

Backfill Material	Compaction Method	Comments

Type 1	Rammax	

Pipe Test (Results)	Comments
Pass	

Client Comments

Post-Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

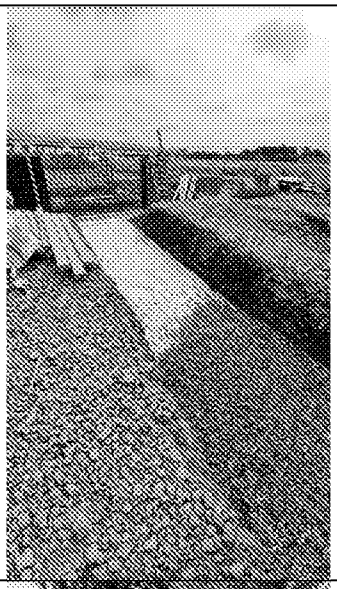
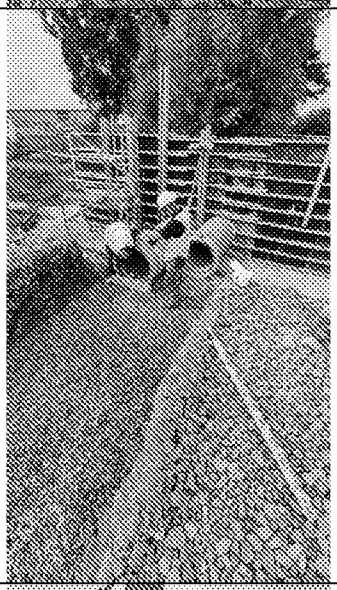
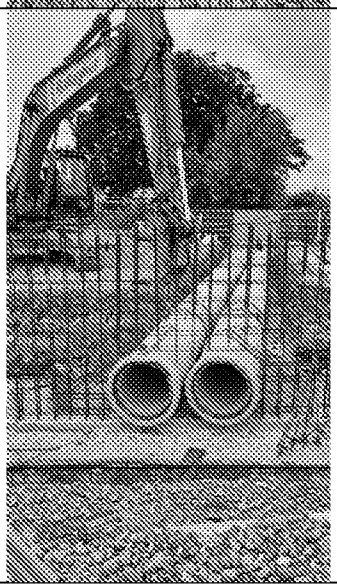
Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		James Dent
10-08-2023		10-08-2023

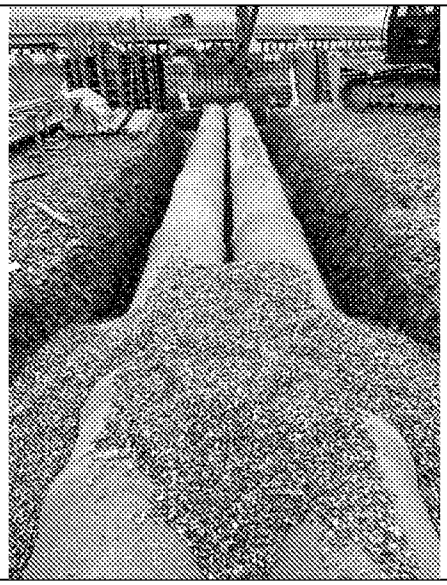
Client Comments

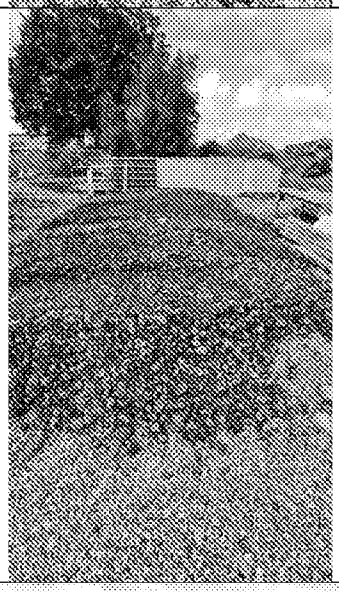
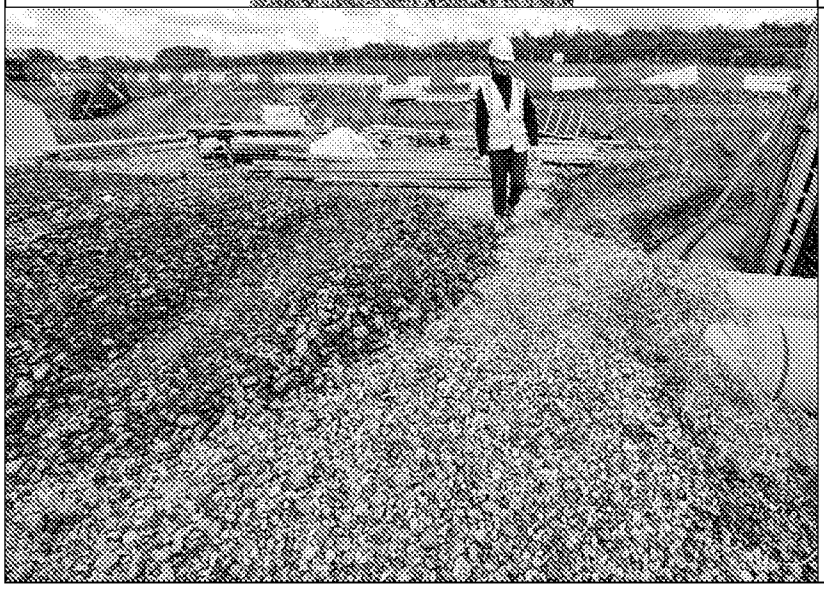
Other Sign-offs

Signature	Name	Company	Date	Comments
			10-08-2023	

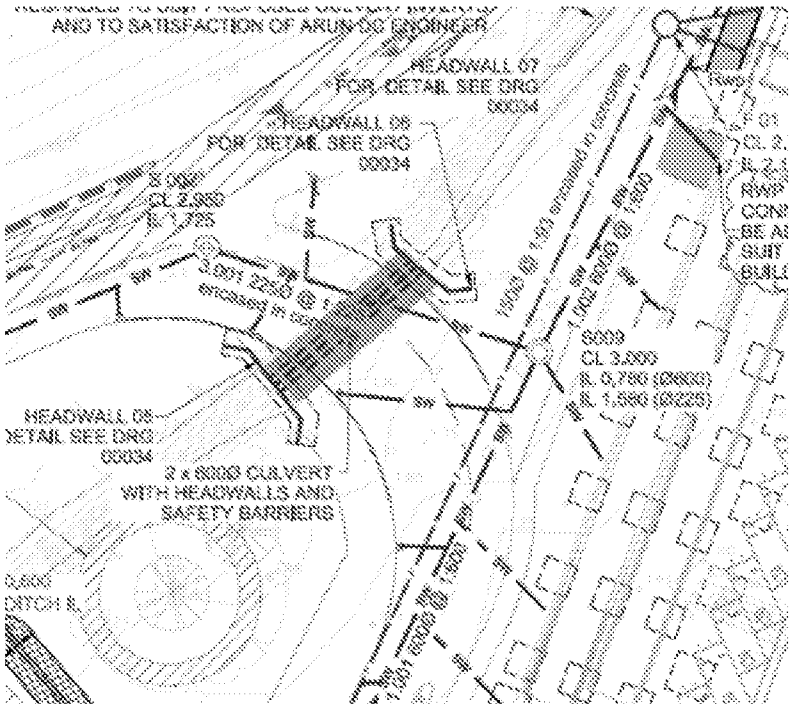
Attachments

Pipe Photos	Comments
	
	
	

Backfill Photos	Comments
	
	

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 75 - HW7 to HW8	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
0.750	0.739	14.618	0.075

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
0.747	0.736	14.700	0.075
0.745	0.738	14.700	0.048

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Concrete	600mm	20mm Shingle

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments
Type 1	Roller	

Pipe Test (Results)	Comments
Pass	

Client Comments

Post-Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

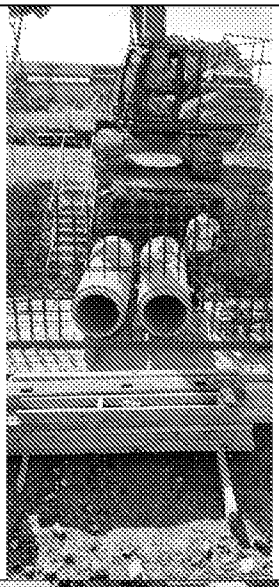
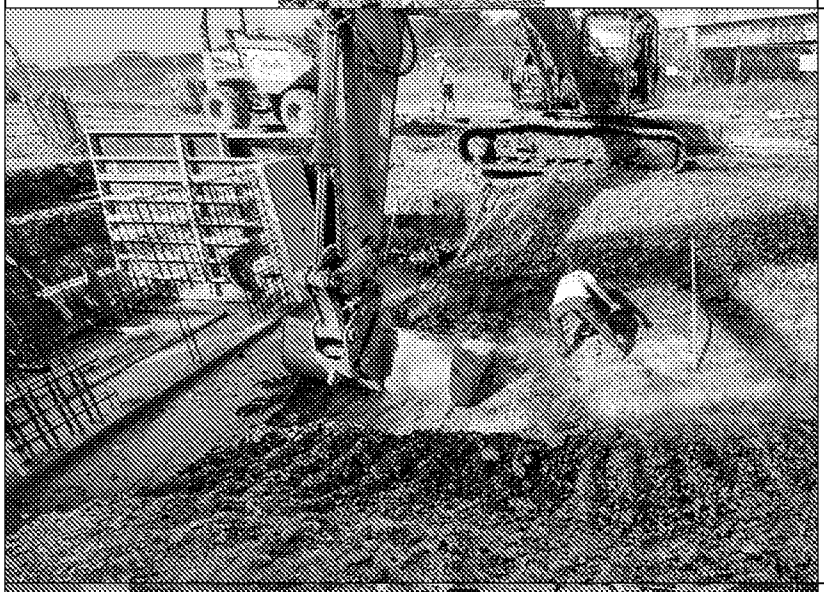
Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
27-09-2023		28-09-2023

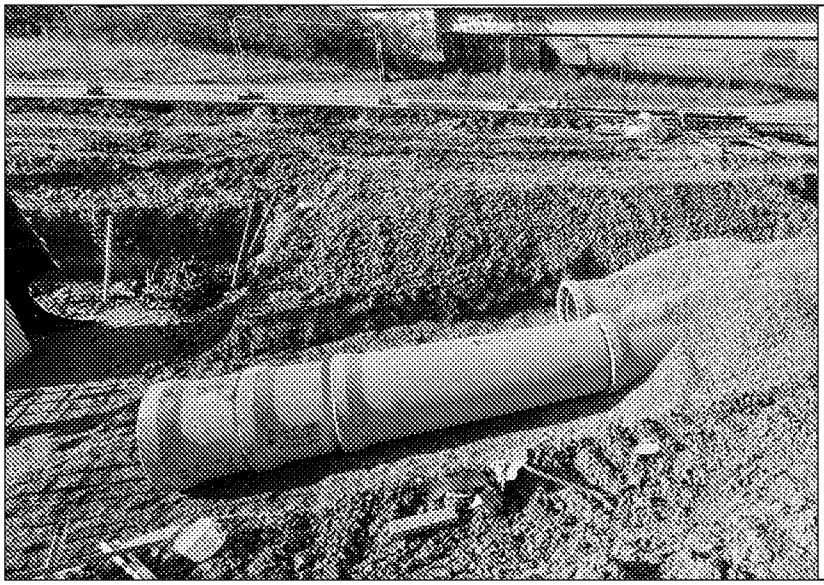
Client Comments

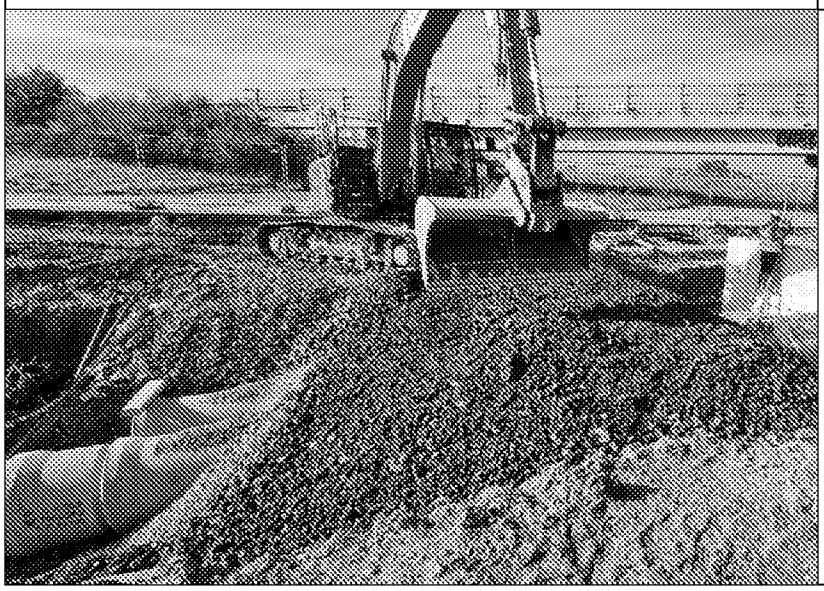
Other Sign-offs

Signature	Name	Company	Date	Comments
			27-09-2023	

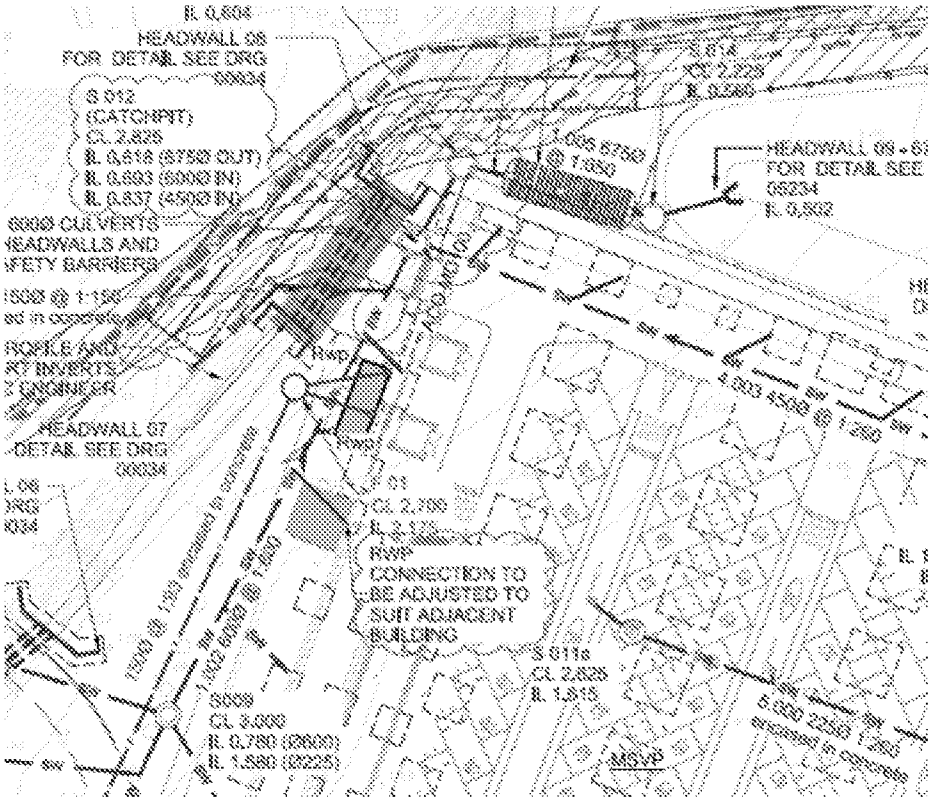
Attachments

Pipe Photos	Comments
	
	

Backfill Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Headwalls

Gallagher

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Precast Head Wall 9	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Setting Out - Line and Level	Yes

Formation Level	Foundation Material	Foundation Depth (mm)	Comments
0.157	GEN3/Type 1	150	IL=0.380

Geotextile / Membranes

Type	Comments
Polyethelene	

Headwall

Type	Sizes (Dimensions)	Comments
Precast Concrete	See attached drawing	

Pipe Installation

Pipe Type	Pipe Diameter	Pipe Bed & Surround	Comments
Twinwall	750mm	20mm Shingle	

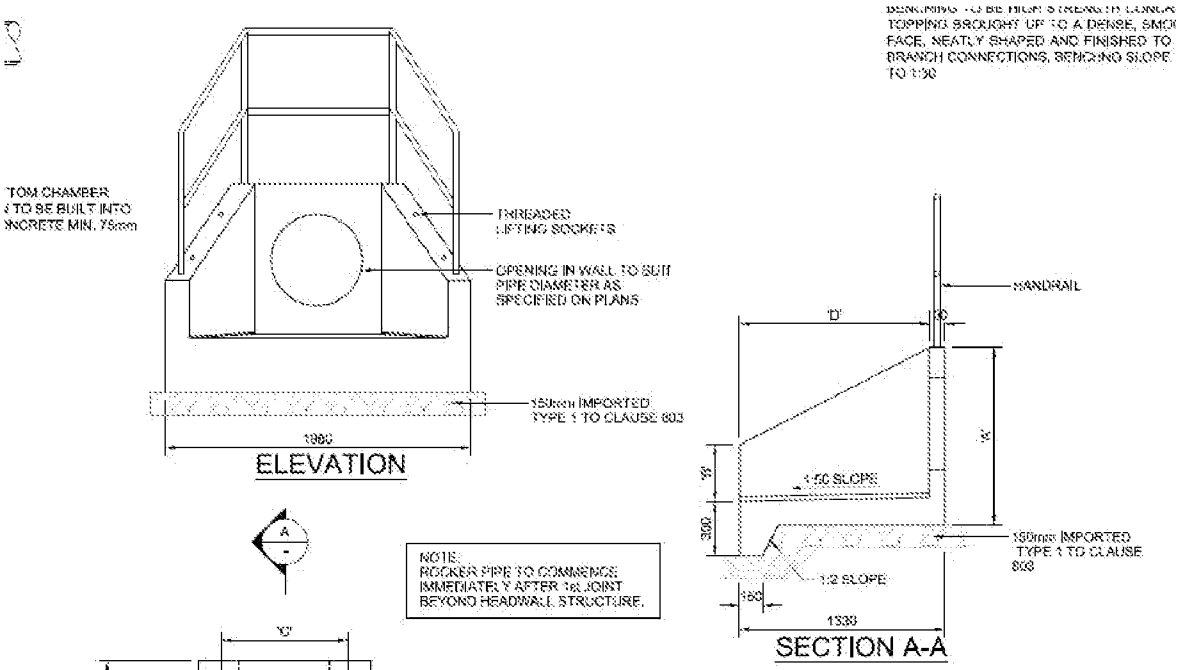
Backfill

Backfill Material	Compaction Method	Comments
Other	Rammax	GEN3 then As dug

Post-Construction		
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**

Signoff		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
07-06-2023		29-11-2023
Client comments		

Attachments



NOTES.

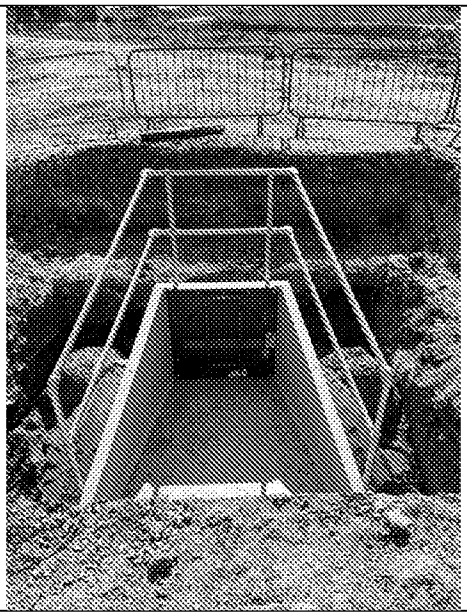
1. HEADWALLS BY ALTHON OR SIMILAR, SEE TABLE BELOW FOR SIZES.
2. ALL EXPOSED CONCRETE SURFACES FROM 150mm BELOW GROUND LEVEL TO BE CLASS F5 FINISH UNLESS OTHERWISE SPECIFIED.
3. REFER TO DRAINAGE PLANS FOR PIPE DIAMETER SIZES, INVERT LEVELS AND HEADWALL HEIGHTS.
4. ALL HEADWALLS EXCEPT CULVERT CROSSINGS AND HEADWALL 10 TO HAVE FLAP VALVE FITTED.
5. FOR DETAILS OF CULVERT CROSSING HEADWALLS SEE DRAWING C039.
6. ALL HEADWALLS TO HAVE HANDRAILS.

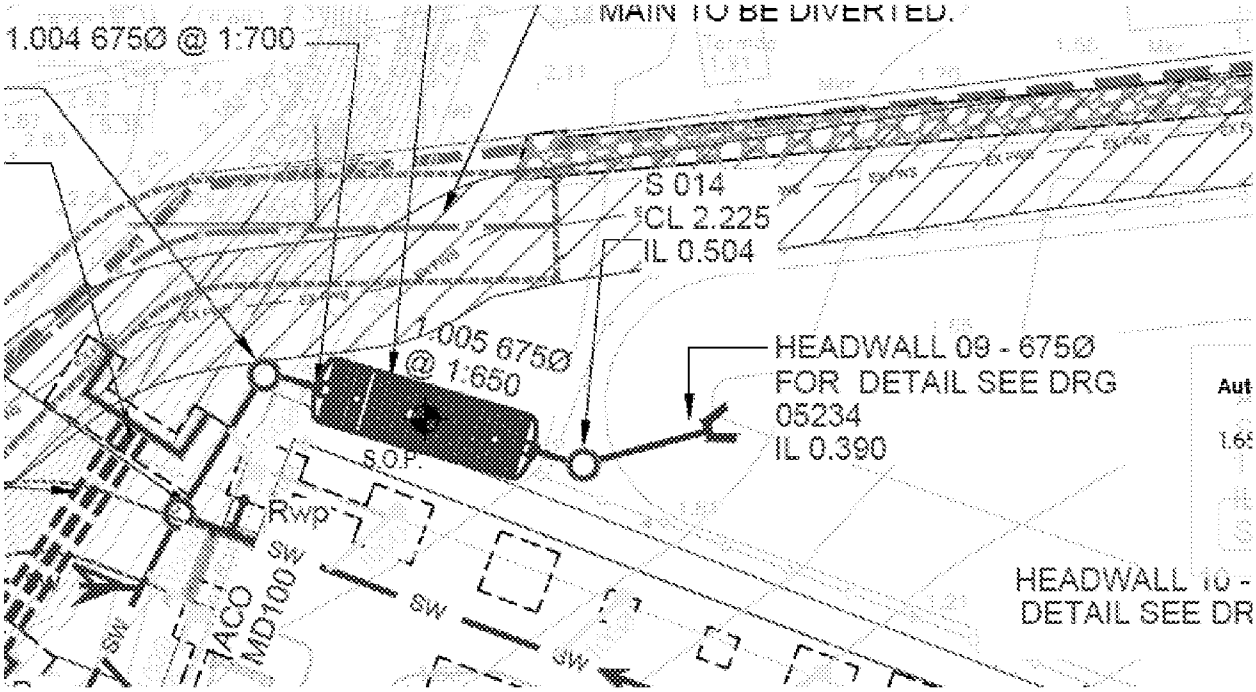
HEADWALL DETAIL
HEADWALLS 09,10,12,13,14,15

SCALE 1:25@A1
1:50@A3

MAX PIPE OPENING PLASTIC (mm)	ALTHON HEADWALL REF	DRAINAGE PLAN HEADWALL REF	A	B	C	D
300	H9C	10,12,13	800	150	400	900
450	H9CA	14,15	1100	225	585	1320
750	H10CA	09	1250	300	1150	1910

Add photo	Comments


1.004 675Ø @ 1:700
MAIN TO BE DIVERTED.
S 014
CL 2.225
IL 0.504
1.005 675Ø
@ 1:650
HEADWALL 09 - 675Ø
FOR DETAIL SEE DRG
05234
IL 0.390
S.O.F.
Rwp
SW
ACO
MD100
HEADWALL 10 -
DETAIL SEE DR

QA Check Sheet – Headwalls

Gallagher

Project Title:	Amazon Bognor Regis	Project #:	750I	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Precast Head Wall 10	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Setting Out - Line and Level	Yes

Formation Level	Foundation Material	Foundation Depth (mm)	Comments
-0.019	Type 1/Gen3	150	IL=0.461

Geotextiles / Membranes

Type	Comments

Headwall

Type	Sizes (Dimensions)	Comments
Precast Concrete	Refer to drawing below	

Pipe Installation

Pipe Type	Pipe Diameter	Pipe Bed & Surround	Comments
Twinwall	225mm	10mm Shingle	

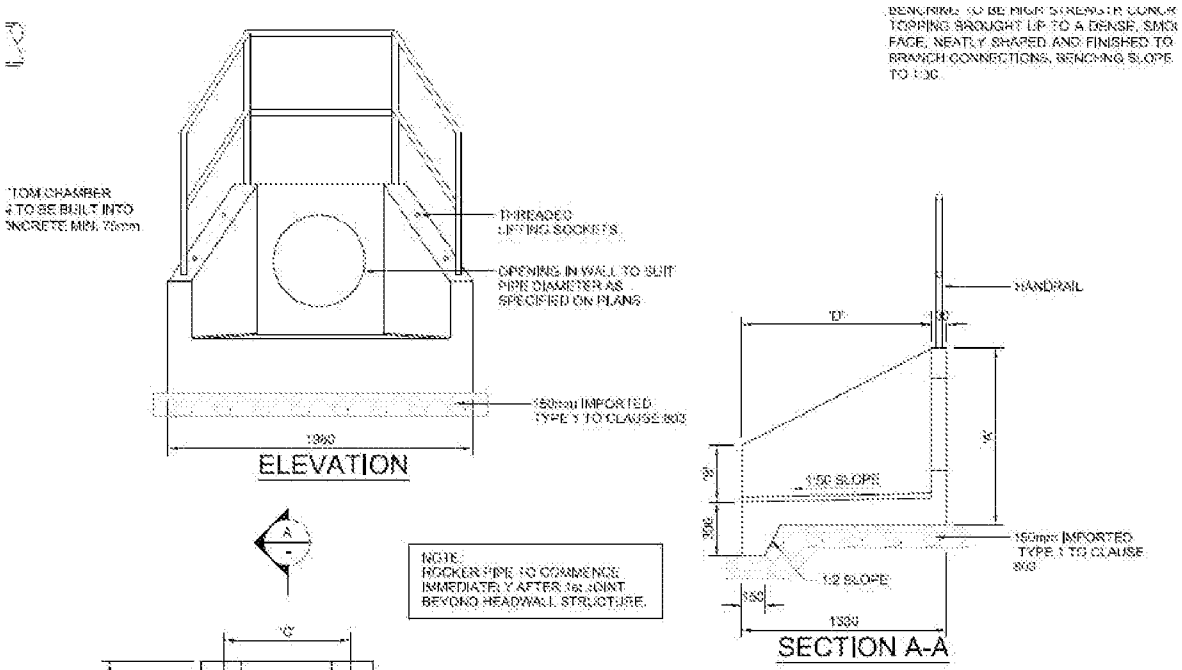
Backfill

Backfill Material	Compaction Method	Comments
Other	Rammax	Gen3/Asdug

Post-Construction		
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**

Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
30-05-2023		15-06-2023
Client comments		

Attachments



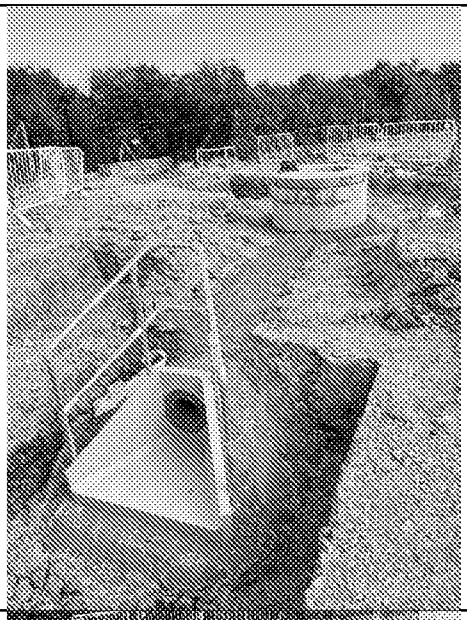
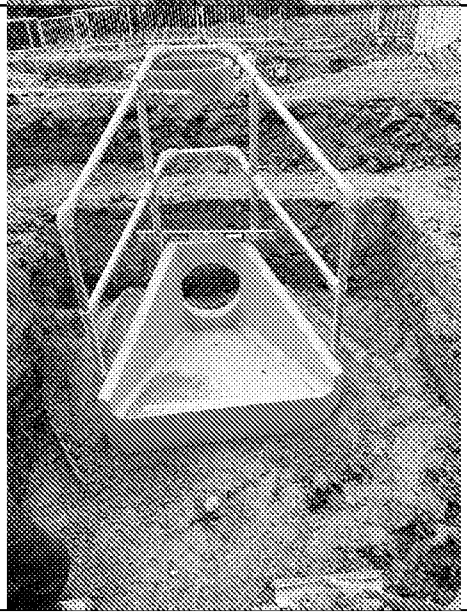
NOTES:

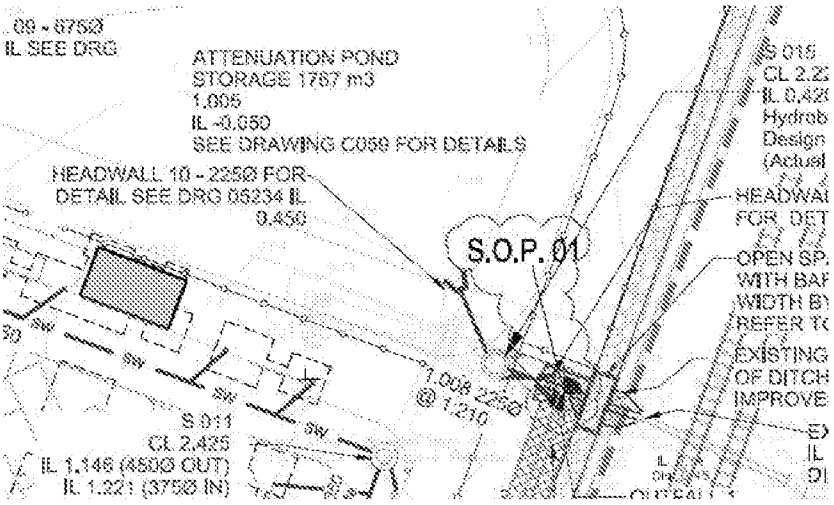
1. HEADWALLS BY ALTHON OR SIMILAR, SEE TABLE BELOW FOR SIZES.
2. ALL EXPOSED CONCRETE SURFACES FROM 150mm BELOW GROUND LEVEL TO BE CLASS F3 FINISH UNLESS OTHERWISE SPECIFIED.
3. REFER TO DRAINAGE PLANS FOR PIPE DIAMETER SIZES, INVERT LEVELS AND HEADWALL HEIGHTS.
4. ALL HEADWALLS EXCEPT CULVERT CROSSINGS AND HEADWALL 10 TO HAVE FLAP VALVE FITTED.
5. FOR DETAILS OF CULVERT CROSSING HEADWALLS SEE DRAWING C029.
6. ALL HEADWALLS TO HAVE HANDRAILS.

HEADWALL DETAIL
HEADWALLS 09,10,12,13,14,15

SCALE 1:25@A1
1:50@A3

MAX PIPE OPENING PLASTIC/CONC	ALTHON HEADWALL REF	DRAINAGE PLAN HEADWALL REF	A	B	C	D
300	H90	10,12,13	800	150	400	900
450	H60A	14,15	1160	320	585	1320
750	H180A	09	1250	300	1150	1910

Add photo	Comments
	
	


09 - 675Ø
IL SEE DRG
ATTENUATION POND
STORAGE 1787 m3
1.005
IL -0.650
SEE DRAWING C059 FOR DETAILS
HEADWALL 10 - 225Ø FOR
DETAIL SEE DRG 05234 IL
0.450
S.O.P. 01
1.008 225Ø
@ 1.210
S 011
CL 2.425
IL 1.146 (450Ø OUT)
IL 1.221 (375Ø IN)
S 015
HEADWAL
FOR DET
OPEN SP
WITH BAF
WIDTH BY
REFER TO
EXISTING
OF DITCH
IMPROVE

QA Check Sheet – Headwalls

Gallagher

Project Title:	Amazon Bognor Regis	Project #:	750I	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Precast Head Wall 11	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Setting Out - Line and Level	Yes

Formation Level	Foundation Material	Foundation Depth (mm)	Comments
-0.057	Type 1/Gen3	150	IL= 0.369

Geotextiles / Membranes

Type	Comments
N/A	

Headwall

Type	Sizes (Dimensions)	Comments
Precast Concrete	Refer to drawing below	

Pipe Installation

Pipe Type	Pipe Diameter	Pipe Bed & Surround	Comments
Twinwall	225mm	10mm Shingle	

Backfill

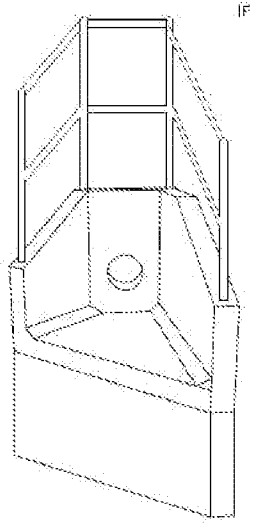
Backfill Material	Compaction Method	Comments
As Dug	Rammax	

Post-Construction		
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**

Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
25-05-2023		15-06-2023
Client comments		

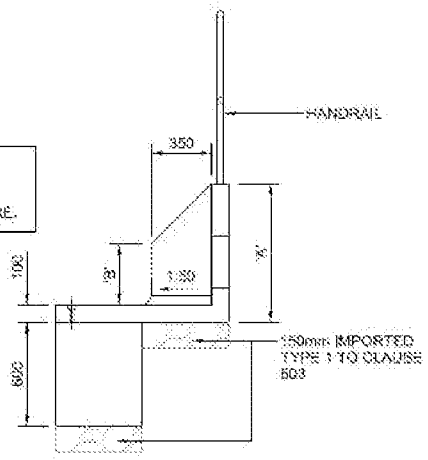
Attachments

MAX. DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE 3.0m.
IF OVER 3.0m DEEP USE SHAFT AS FOR DEEP MANHOLE

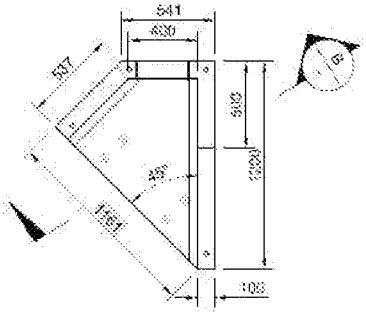


ELEVATION

NOTE:
ROCKER PIPE TO COMMENCE IMMEDIATELY AFTER 1st JOINT BEYOND HEADWALL STRUCTURE.



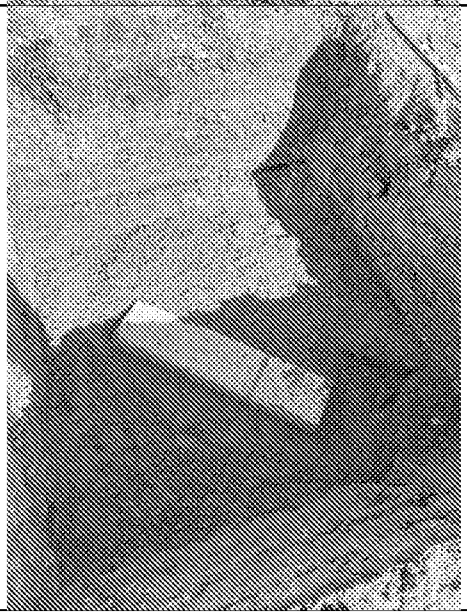
SECTION B-B

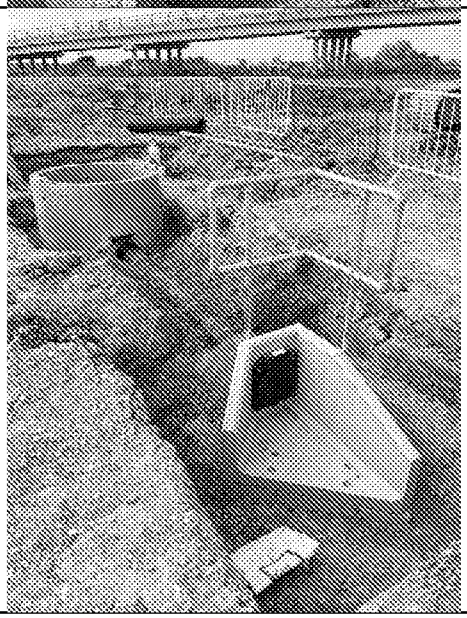


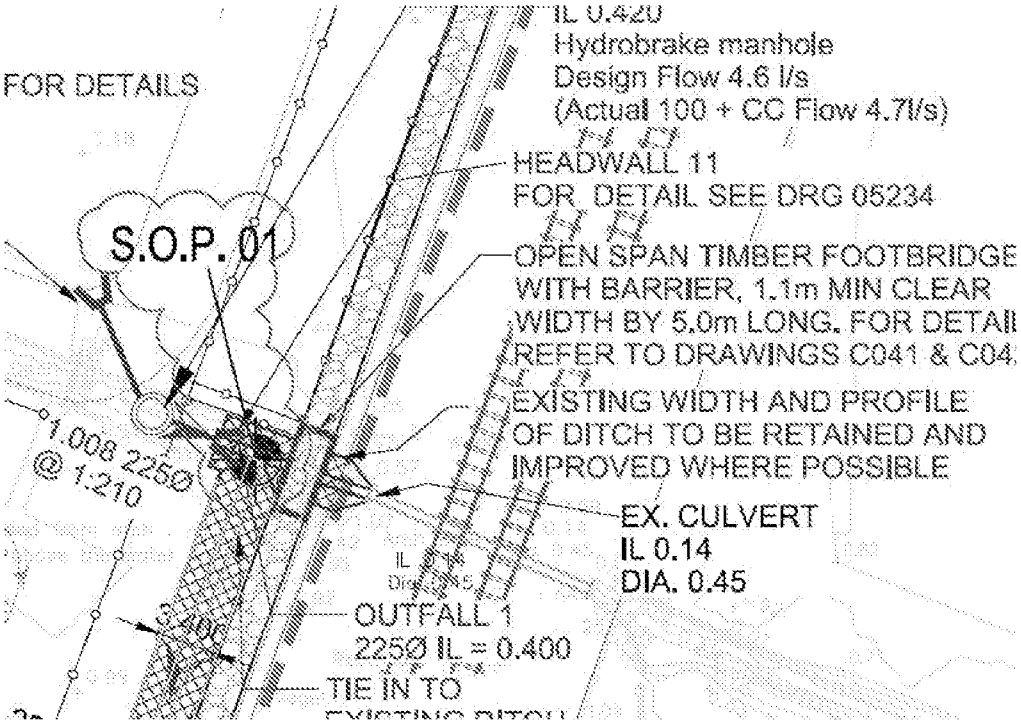
PLAN

MAX PIPE OPENING PLASTIC CWWRE	ALTHON HEADWALL REF	DRAINAGE PLAN HEADWALL REF	A	B
300	A/H4CB	11	600	350

HEADWALL DETAIL
HEADWALL 11
SCALE 1:25@A1
1:50@A3

Add photo		Comments
		


FOR DETAILS
S.O.P. 01
1.008 225Ø
@ 1:210
IL 0.420
Hydrobrake manhole
Design Flow 4.6 l/s
(Actual 100 + CC Flow 4.7l/s)
HEADWALL 11
FOR DETAIL SEE DRG 05234
OPEN SPAN TIMBER FOOTBRIDGE
WITH BARRIER, 1.1m MIN CLEAR
WIDTH BY 5.0m LONG. FOR DETAIl
REFER TO DRAWINGS C041 & C04
EXISTING WIDTH AND PROFILE
OF DITCH TO BE RETAINED AND
IMPROVED WHERE POSSIBLE
EX. CULVERT
IL 0.14
DIA. 0.45
OUTFALL 1
225Ø IL = 0.400
TIE IN TO

QA Check Sheet – Headwalls

Project Title:	Amazon Bognor Regis	Project #:	750I	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Precast Head Wall 12	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Setting Out - Line and Level	Yes

Formation Level	Foundation Material	Foundation Depth (mm)	Comments
0.679	Type 1 then GEN3	150	

Geotextile / Membranes

Type	Comments
Polyethelene	

Headwall

Type	Sizes (Dimensions)	Comments
Precast Concrete	See attached drawing	

Pipe Installation

Pipe Type	Pipe Diameter	Pipe Bed & Surround	Comments
Twinwall	225mm	GEN3	

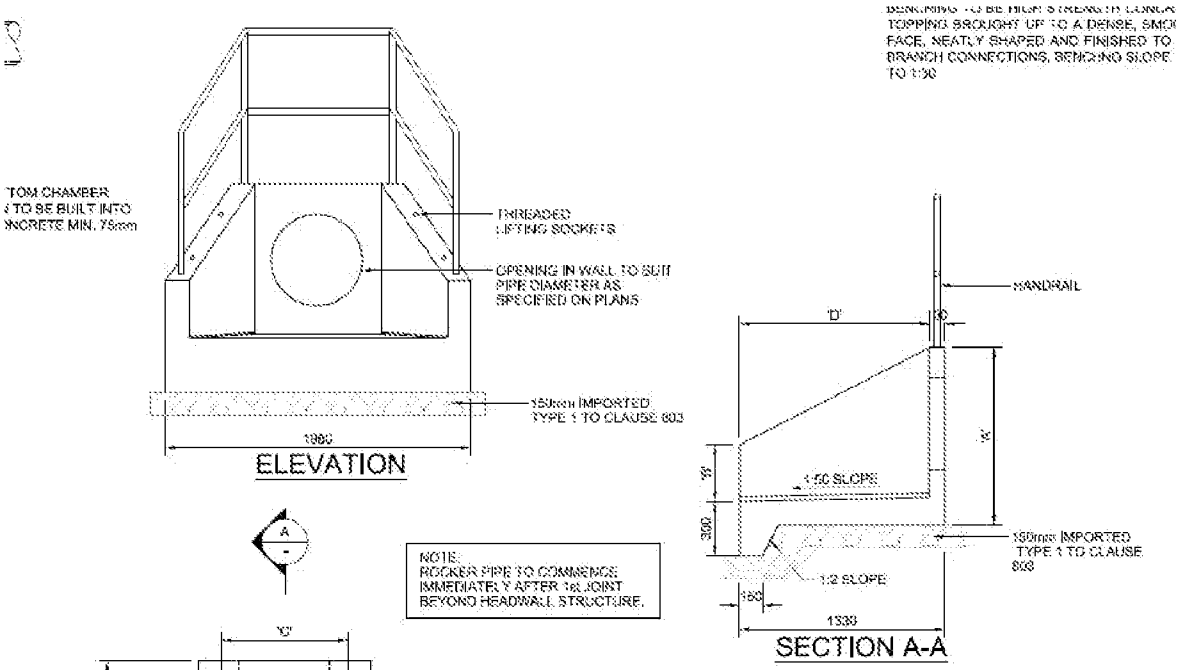
Backfill

Backfill Material	Compaction Method	Comments
Type 1	Rammax	

Post-Construction		
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**

Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
18-01-2024		19-01-2024
Client comments		

Attachments



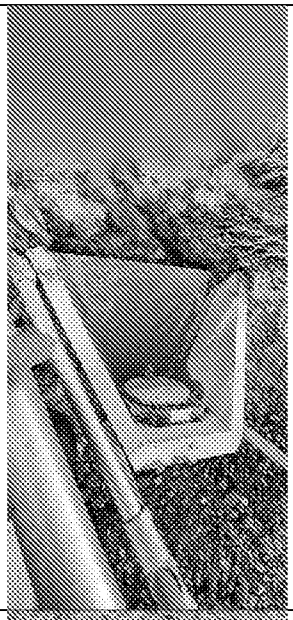
NOTES.

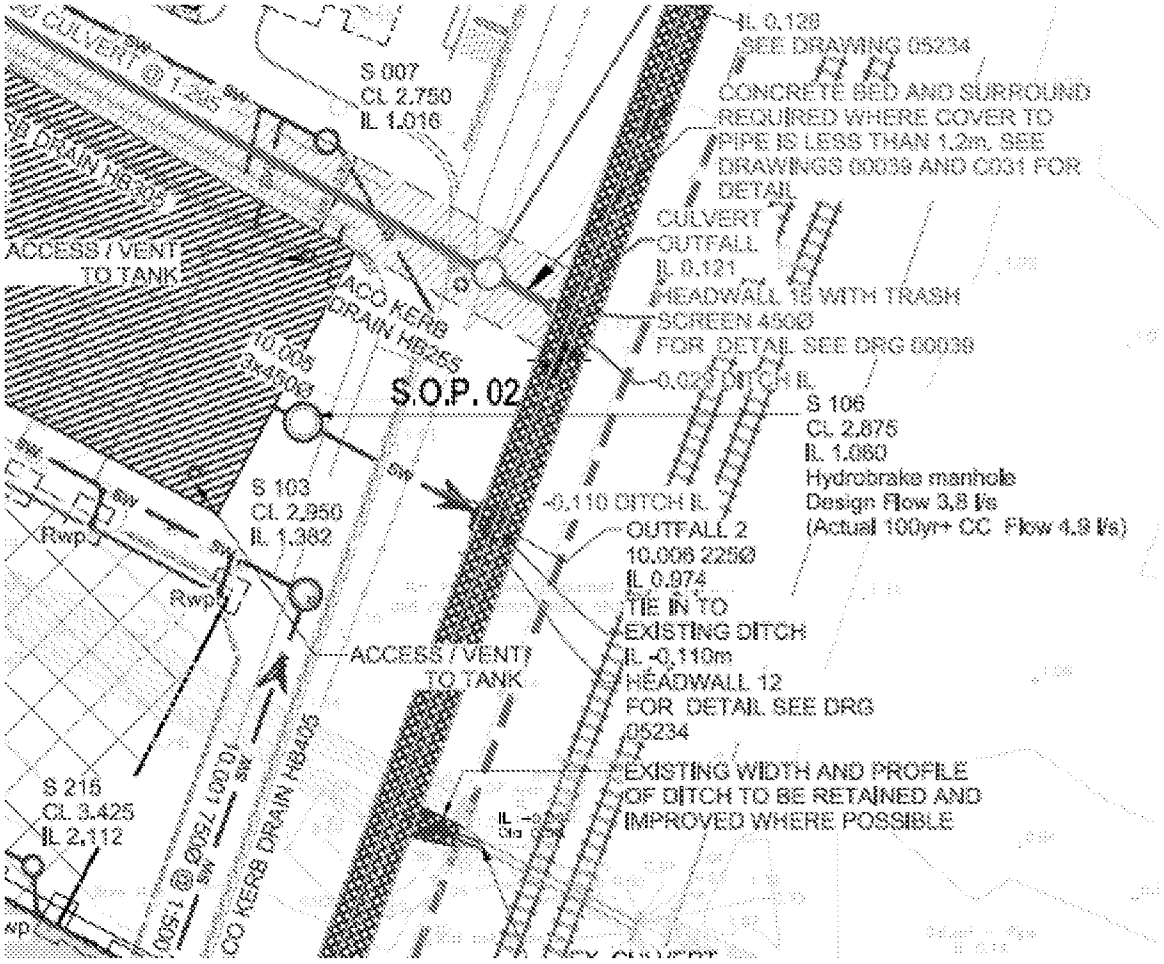
1. HEADWALLS BY ALTHON OR SIMILAR, SEE TABLE BELOW FOR SIZES.
2. ALL EXPOSED CONCRETE SURFACES FROM 150mm BELOW GROUND LEVEL TO BE CLASS F5 FINISH UNLESS OTHERWISE SPECIFIED.
3. REFER TO DRAINAGE PLANS FOR PIPE DIAMETER SIZES, INVERT LEVELS AND HEADWALL HEIGHTS.
4. ALL HEADWALLS EXCEPT CULVERT CROSSINGS AND HEADWALL 10 TO HAVE FLAP VALVE FITTED.
5. FOR DETAILS OF CULVERT CROSSING HEADWALLS SEE DRAWING C039.
6. ALL HEADWALLS TO HAVE HANDRAILS.

HEADWALL DETAIL
HEADWALLS 09,10,12,13,14,15

SCALE 1:25@A1
1:50@A3

MAX PIPE OPENING PLASTIC (mm)	ALTHON HEADWALL REF	DRAINAGE PLAN HEADWALL REF	A	B	C	D
300	H9C	10,12,13	800	150	400	900
450	H9CA	14,15	1100	225	585	1320
750	H10CA	09	1250	300	1150	1910

Add photo	Comments
	


S 007
CL 2.750
IL 1.016
IL 0.128
SEE DRAWING 05234
CONCRETE BED AND SURROUND REQUIRED WHERE COVER TO PIPE IS LESS THAN 1.2m. SEE DRAWINGS 80039 AND C031 FOR DETAIL
CULVERT OUTFALL IL 0.121
HEADWALL 15 WITH TRASH SCREEN 450Ø
FOR DETAIL SEE DRG 80039
ACCESS / VENT TO TANK
ACO KERB DRAIN HB255
S.O.P. 02
S 106
CL 2.875
IL 1.060
Hydrobrake manhole
Design Flow 3.8 l/s
(Actual 100yr+ CC Flow 4.9 l/s)
S 103
CL 2.950
IL 1.382
-0.110 DITCH IL
OUTFALL 2
10.008 225Ø
IL 0.974
TIE IN TO EXISTING DITCH
IL -0.110m
HEADWALL 12
FOR DETAIL SEE DRG 05234
ACCESS / VENT TO TANK
EXISTING WIDTH AND PROFILE OF DITCH TO BE RETAINED AND IMPROVED WHERE POSSIBLE
S 215
CL 3.425
IL 2.112
CO KERB DRAIN HB225

QA Check Sheet – Headwalls

Project Title:	Amazon Bognor Regis	Project #:	750I	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Precast Head Wall 13	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Setting Out - Line and Level	Yes

Formation Level	Foundation Material	Foundation Depth (mm)	Comments
0.344	Gen3	150	

Geotextile / Membranes

Type	Comments
N/A	

Headwall

Type	Sizes (Dimensions)	Comments
Precast Concrete	Refer to table	

Pipe Installation

Pipe Type	Pipe Diameter	Pipe Bed & Surround	Comments
Twinwall	225mm	GEN3	

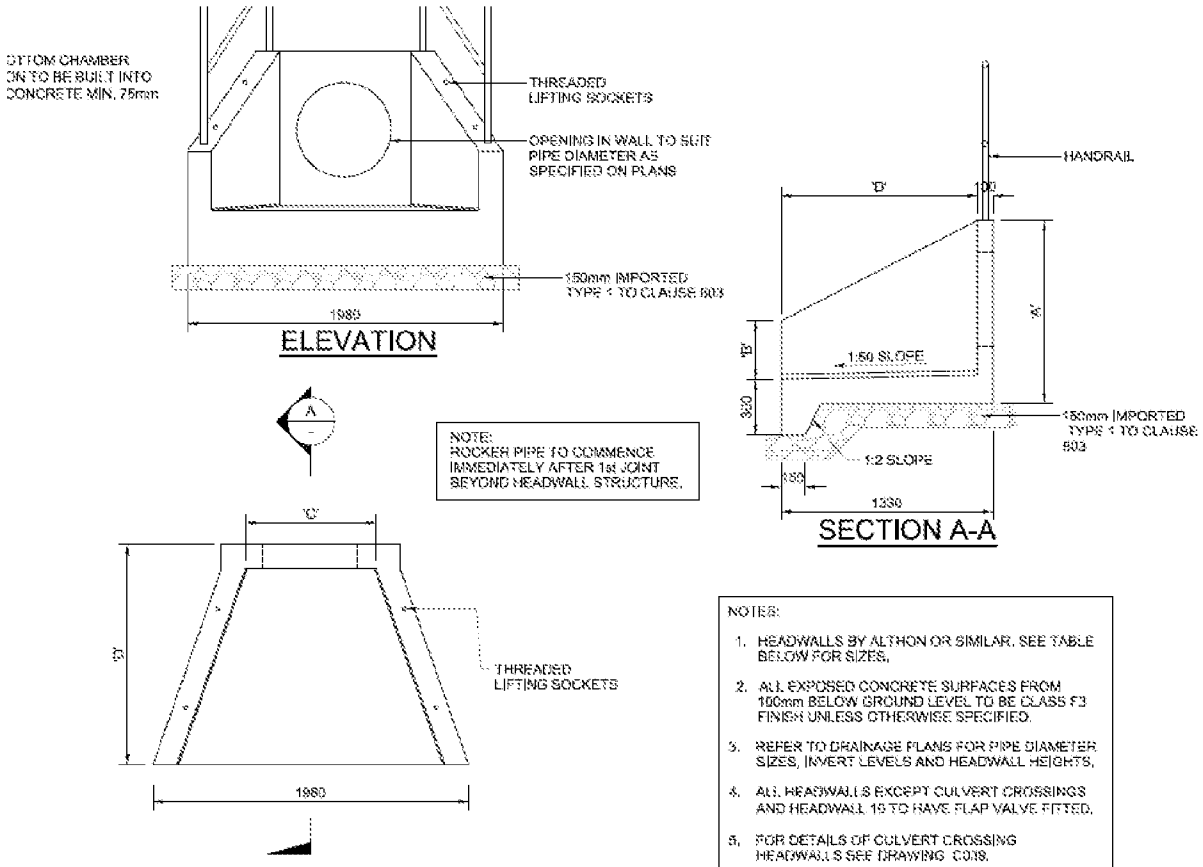
Backfill

Backfill Material	Compaction Method	Comments
Type 1	Rammax	

Post-Construction		
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**

Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
08-11-2023		08-11-2023
Client comments		

Attachments



NOTES:

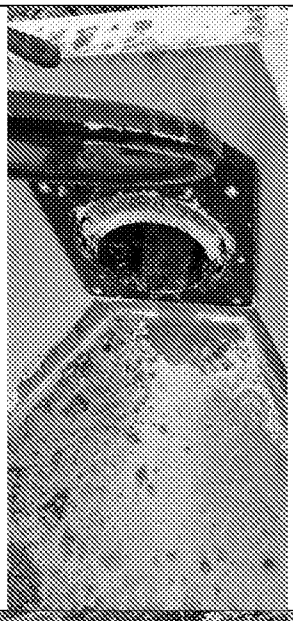
1. HEADWALLS BY ALTHON OR SIMILAR. SEE TABLE BELOW FOR SIZES.
2. ALL EXPOSED CONCRETE SURFACES FROM 100mm BELOW GROUND LEVEL TO BE CLASS F3 FINISH UNLESS OTHERWISE SPECIFIED.
3. REFER TO DRAINAGE PLANS FOR PIPE DIAMETER SIZES, INVERT LEVELS AND HEADWALL HEIGHTS.
4. ALL HEADWALLS EXCEPT CULVERT CROSSINGS AND HEADWALL 15 TO HAVE FLAP VALVE FITTED.
5. FOR DETAILS OF CULVERT CROSSING HEADWALLS SEE DRAWING C015.
6. ALL HEADWALLS TO HAVE HANDRAILS.

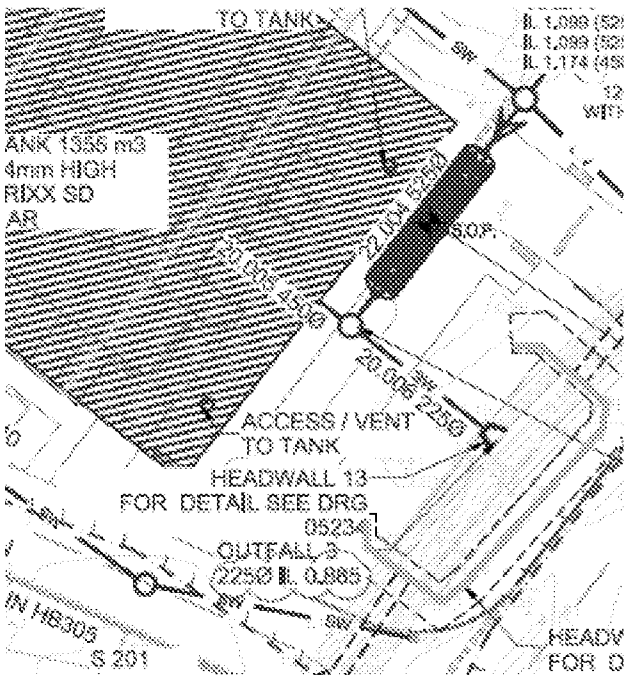
HEADWALL DETAIL
HEADWALLS 09,10,12,13,14,15

SCALE 1:25@A1
1:50@A3

MAX PIPE OPENING PLASTIC/CONCRETE	ALTHON HEADWALL REF	DRAINAGE PLAN HEADWALL REF	A	B	C	D
300	H3C	10,12,13	600	150	405	900
450	H6CA	14,15	1150	320	685	1320
750	H10CA	09	1250	300	1150	1910

Add photo	Comments




TO TANK
ANK 1555 m3
4mm HIGH
RIXX SD
AR
ACCESS / VENT
TO TANK
HEADWALL 13
FOR DETAIL SEE DRG
0523
OUTFALL 3
225Ø IL 0.985
IN HB305
S 201

QA Check Sheet – Headwalls

Project Title:	Amazon Bognor Regis	Project #:	750I	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Precast Head Wall 14	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Setting Out - Line and Level	Yes

Formation Level	Foundation Material	Foundation Depth (mm)	Comments
0.250	Type 1/Gen3	150	IL=0.530

Connection / Membrane

Type	Comments
N/A	

Headwall

Type	Sizes (Dimensions)	Comments
Precast Concrete	Refer to drawing below	

Pipe Installation

Pipe Type	Pipe Diameter	Pipe Bed & Surround	Comments
Concrete	450mm	GEN3	

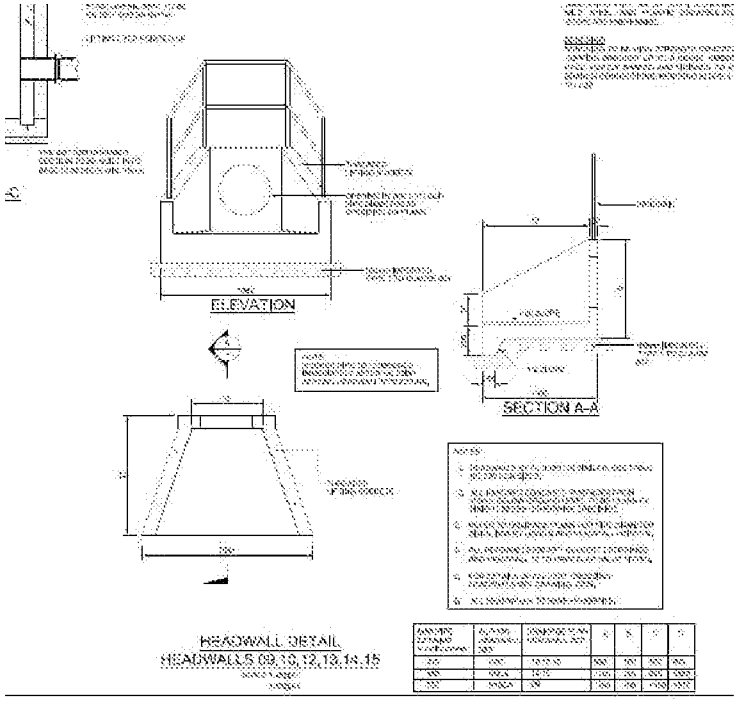
Backfill

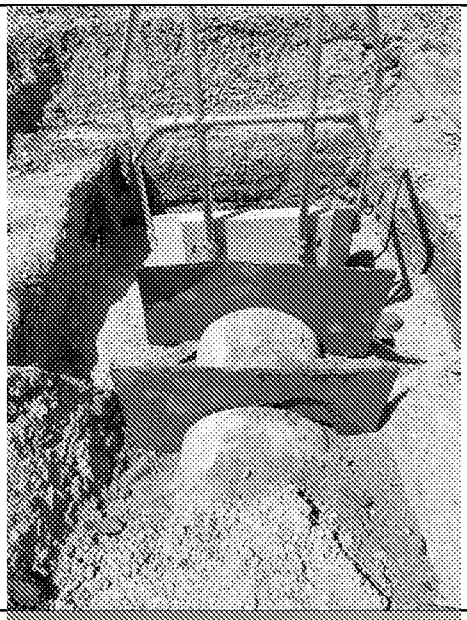
Backfill Material	Compaction Method	Comments
As Dug	Rammax	

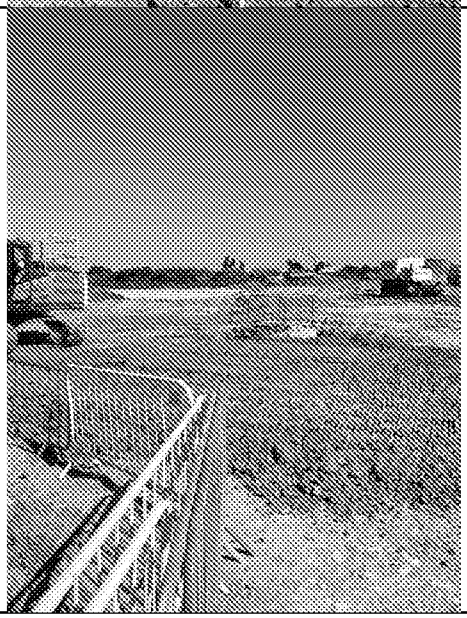
Post-Construction		
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**

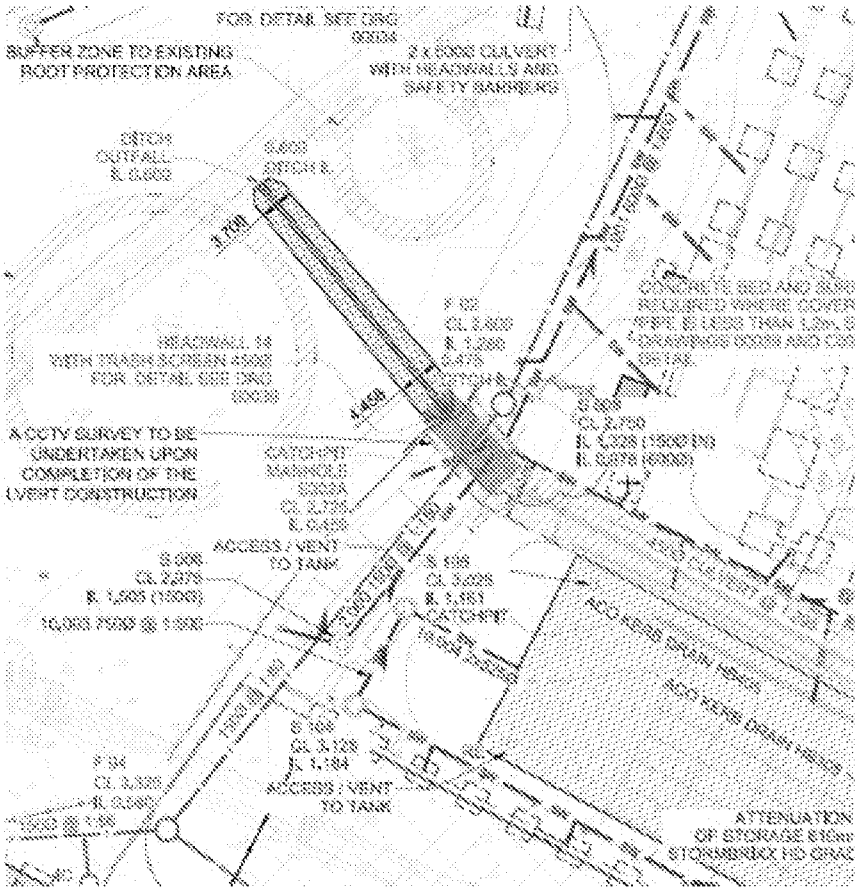
Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
31-05-2023		15-06-2023
Client comments		

Attachments



Add photo	Comments
	


FOR DETAIL SEE DRG
BUFFER ZONE TO EXISTING
ROOT PROTECTION AREA
2 x 5000 CULVERT
WITH HEADWALLS AND
SAFETY BARRIERS
DITCH
OUTFALL
DITCH IL
HEADWALL 14
WITH TRASH SCREEN
FOR DETAIL SEE DRG
A CCTV SURVEY TO BE
UNDERTAKEN UPON
COMPLETION OF THE
CATCHPIT
MANHOLE
ACCESS / VENT
TO TANK
CATCHPIT
ACO KERB DRAIN HEADS
ACO KERB DRAIN HEADS
ACCESS / VENT
TO TANK
ATTENUATION
OF STORAGE
STORMBRIXX HD

QA Check Sheet – Headwalls

Gallagher

Project Title:	Amazon Bognor Regis	Project #:	750I	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Precast Head Wall 15	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Setting Out - Line and Level	Yes

Formation Level	Foundation Material	Foundation Depth (mm)	Comments
-0.109	Type1/Gen 3	250	IL=0.120 Mass GEN 3 used to stabilise ground

Geotextiles / Membranes

Type	Comments
N/A	

Headwall

Type	Sizes (Dimensions)	Comments
Precast Concrete	See attached drawing	

Pipe Installation

Pipe Type	Pipe Diameter	Pipe Bed & Surround	Comments
Clay	450mm	GEN3	

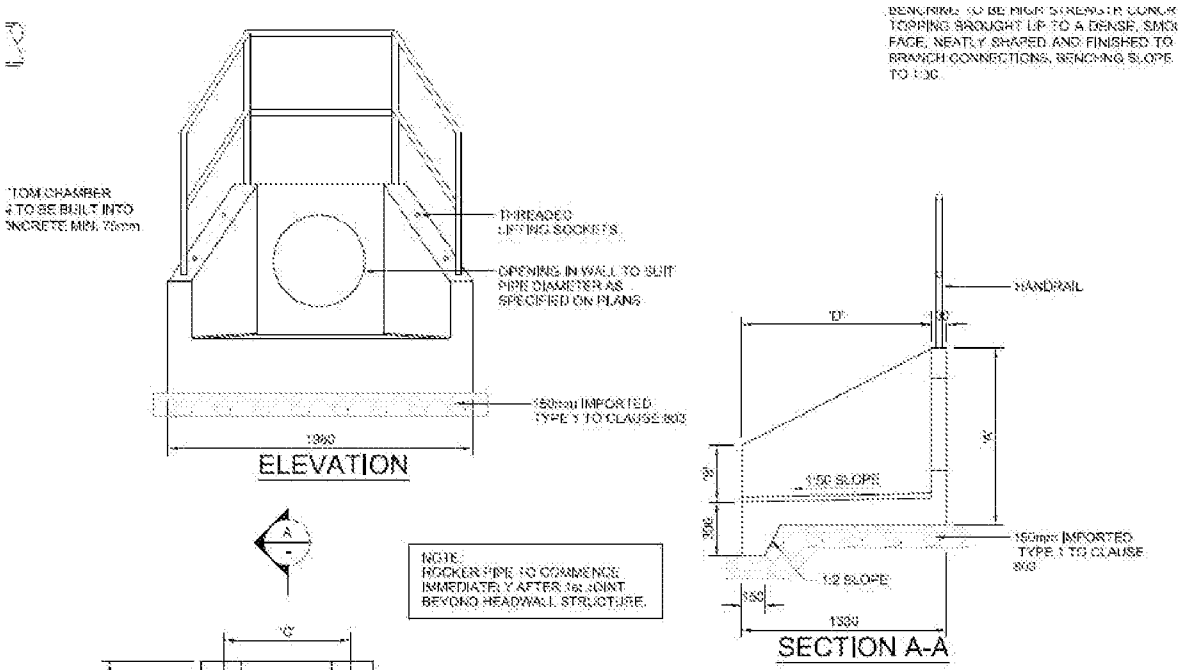
Backfill

Backfill Material	Compaction Method	Comments
Other	Rammax	GEN3

Post-Construction		
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**

Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
25-05-2023		15-06-2023
Client comments		

Attachments



NOTES:

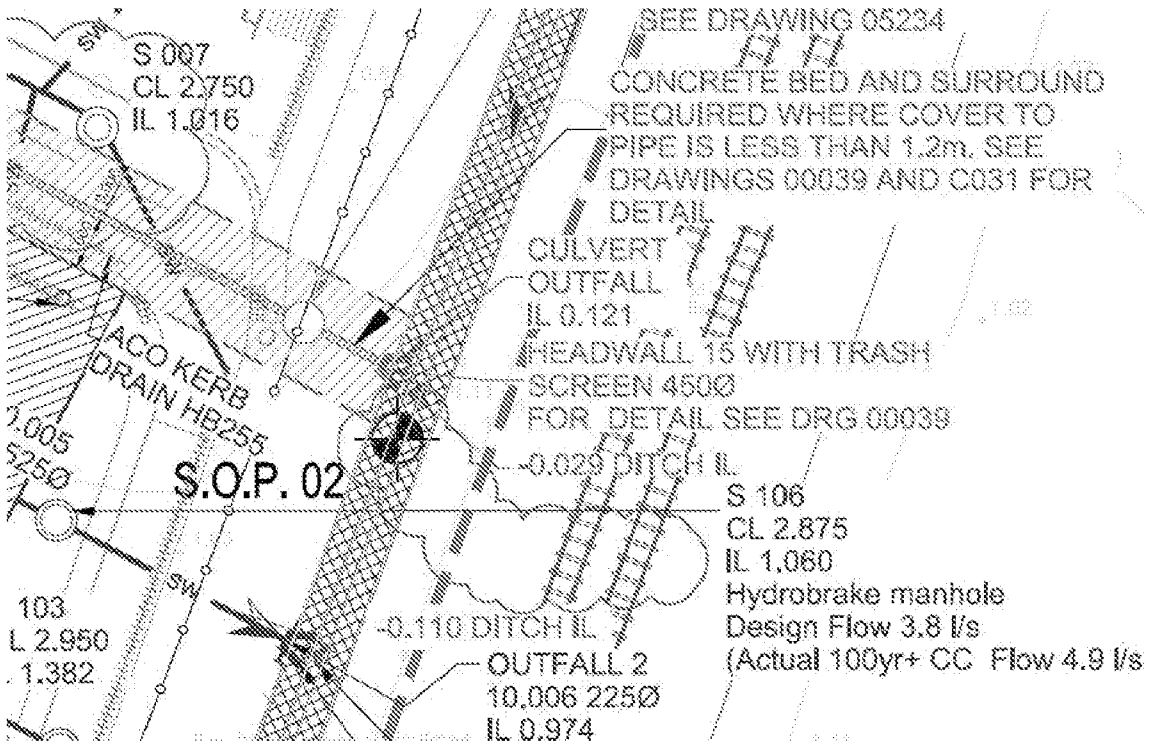
1. HEADWALLS BY ALTHON OR SIMILAR, SEE TABLE BELOW FOR SIZES.
2. ALL EXPOSED CONCRETE SURFACES FROM 150mm BELOW GROUND LEVEL TO BE CLASS F3 FINISH UNLESS OTHERWISE SPECIFIED.
3. REFER TO DRAINAGE PLANS FOR PIPE DIAMETER SIZES, INVERT LEVELS AND HEADWALL HEIGHTS.
4. ALL HEADWALLS EXCEPT CULVERT CROSSINGS AND HEADWALL 10 TO HAVE FLAP VALVE FITTED.
5. FOR DETAILS OF CULVERT CROSSING HEADWALLS SEE DRAWING C029.
6. ALL HEADWALLS TO HAVE HANDRAILS.

HEADWALL DETAIL
HEADWALLS 09,10,12,13,14,15

SCALE 1:25@A1
1:50@A3

MAX PIPE OPENING PLASTIC/CONC	ALTHON HEADWALL REF	DRAINAGE PLAN HEADWALL REF	A	B	C	D
300	H90	10,12,13	800	150	400	900
450	H60A	14,15	1160	320	585	1320
750	H180A	09	1250	300	1150	1910

Add photo	Comments


SEE DRAWING 05234
CONCRETE BED AND SURROUND REQUIRED WHERE COVER TO PIPE IS LESS THAN 1.2m. SEE DRAWINGS 00039 AND C031 FOR DETAIL
CULVERT
OUTFALL
IL 0.121
HEADWALL 15 WITH TRASH SCREEN 450Ø
FOR DETAIL SEE DRG 00039
-0.029 DITCH IL
S 007
CL 2.750
IL 1.016
ACO KERB DRAIN HB255
S.O.P. 02
S 106
CL 2.875
IL 1.060
Hydrobrake manhole
Design Flow 3.8 l/s
(Actual 100yr+ CC Flow 4.9 l/s
103
L 2.950
1.382
-0.110 DITCH IL
OUTFALL 2
10.006 225Ø
IL 0.974

QA Check Sheet – Interceptors

Project Title:	Amazon Bognor Regis	Project #:	750I	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule S3171723052-002 SPEL 500 Series Puraceptor P300/2CSC		
Area/Location:	PI1 - P300/2CSC	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase	
Setting Out - Line and Level	Yes

Temporary Works

Temporary Works	Comments
Yes	
Yes	
Yes	

Base Details

Excavation Level	TOC Base Level	Concrete Type	Rebar / Mesh	Comments

-3.400	-2.600	C30	A393 Mesh T1 & B1	C28/35 Concrete & 500mm Type 1 Transfer Mattress

Hold Point → Proceed with Interceptor Installation

Interceptor

Type	Volume Capacity (Litres)	Comments
Storm	113,000	

Pipe Inlets

Pipe Type	Diameter (mm)	Invert Level	Comments
Twin Wall	750mm	0.587	

Pipe Outlets

Pipe Type	Diameter (mm)	Invert Level	Comments
Twin Wall	750mm	0.490	

Ducting

Duct Type	Diameter (mm)	Invert Level	Comments
LV	100	1.062	
Vent	100	1.062	
Vent	100	1.062	

Hold Point ⇒ Confirm all above before proceeding with surround & backfill

Concrete Surround

Concrete Type	Concrete Thickness (mm)	Rebar / Mesh	Comments
C30	200	N/A	C28/35 Concrete

Backfilling

Backfill Material	Depth of Layer (mm)	Compaction Method	Comments
Type 1	150	Rammax	

Client Comments

Hold Point ⇒ Stage 1 Sign Off

Covers

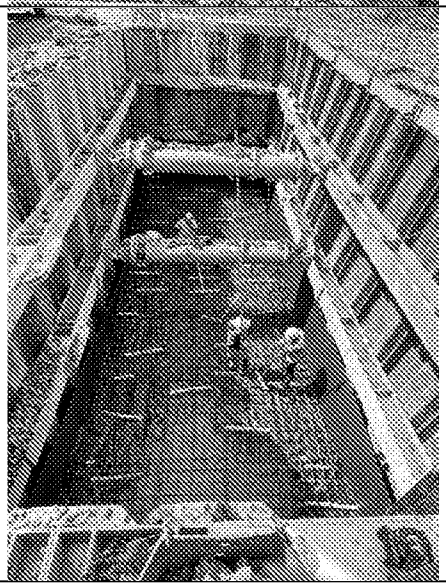
Type	Size	Cover Level	Comments
D400	600*600	2.275	Approximate

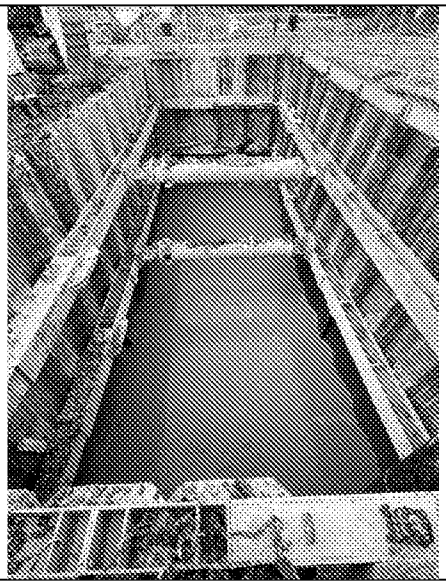
Hold Point ⇒ Proceed with Final Testing

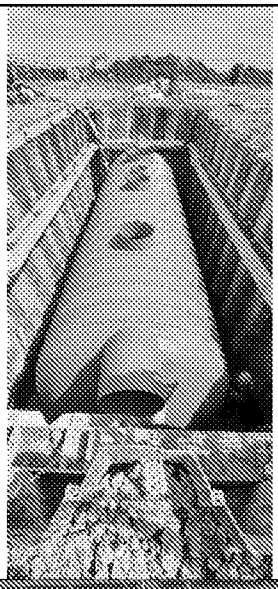
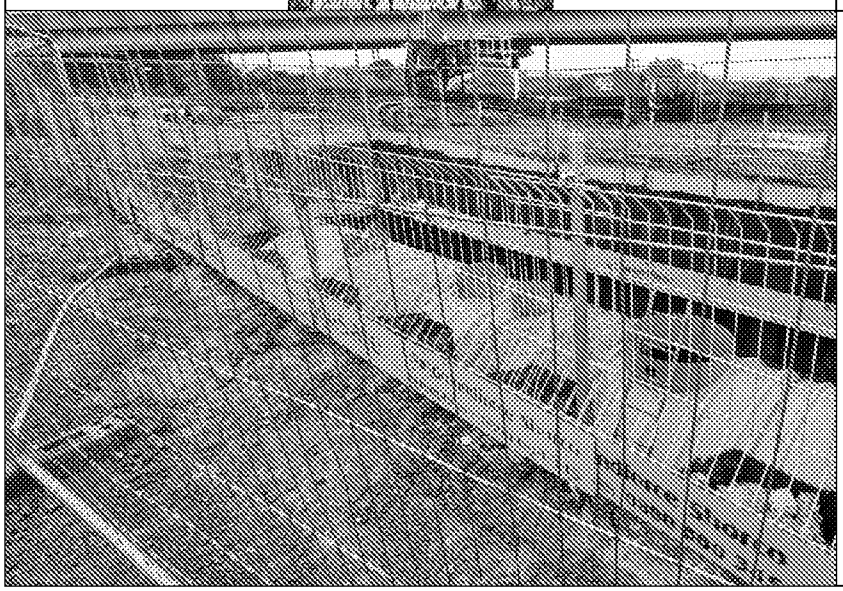
Commission & Testing	Yes

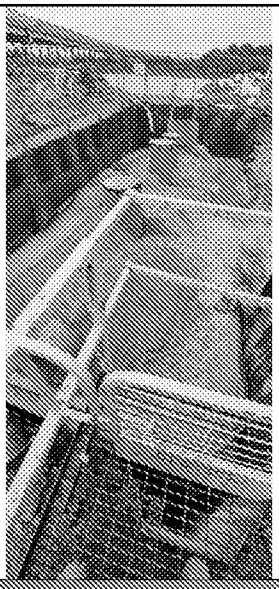
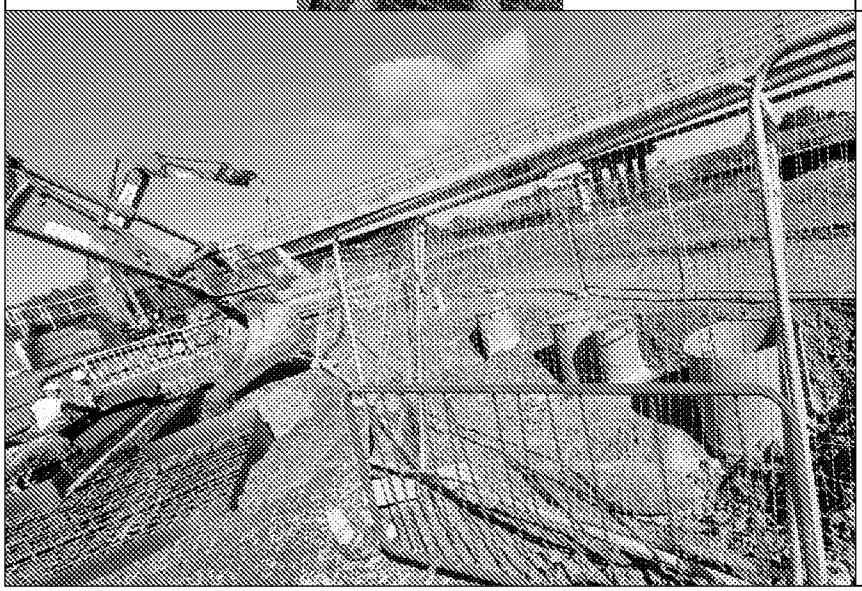
Post-Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).
iii	Attach a copy of the marked drawing to this check sheet

Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		James Dent
08-08-2023		10-08-2023
Client Comments		

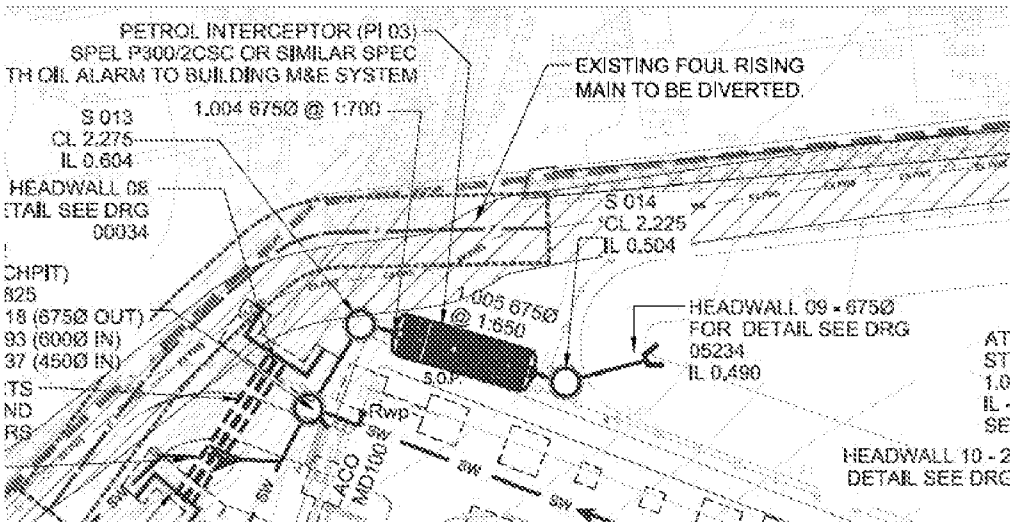
Temporary Works Photos	Comments
	

Installation Photos	Comments
	
	

Surround & Backfill Photos	Comments
	
	

Marked up drawing



QA Check Sheet – Interceptors

Project Title:	Amazon Bognor Regis	Project #:	750I	Date:	07-05-2024
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule S3171823052-002 SPEL 500 Series Puraceptor P200/2CSC 450dia.		
Area/Location:	P200 450dia	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase	
Setting Out - Line and Level	Yes

Temporary Works

Temporary Works	Comments
Yes	

Base Details

Excavation Level	TOC Base Level	Concrete Type	Rebar / Mesh	Comments
1.870	-1.120	C30	A393 Top and bottom	500mm Type 1 Transfer Mattress C28/35 Concret

Hold Point → Proceed with interceptor installation

Interceptor

Type	Volume Capacity (Litres)	Comments
Petrol	70000	

Pipe Inlets

Pipe Type	Diameter (mm)	Invert Level	Comments
Twin Wall	450mm	1.152	

Pipe Outlets

Pipe Type	Diameter (mm)	Invert Level	Comments
Twin Wall	450mm	1.073	

Ducting

Duct Type	Diameter (mm)	Invert Level	Comments
Twinwall - LV/ELV	100	1.830	
uPVC - Vent	100	1.830	
uPVC - Vent	100	1.830	

Hold Point ⇒ Confirm all above before proceeding with surround & backfill

Concrete Surround

Concrete Type	Concrete Thickness (mm)	Rebar / Mesh	Comments
C30	200	N/A	

Backfilling

Backfill Material	Depth of Layer (mm)	Compaction Method	Comments
Type 1	150	Rammax	

Client Comments

Hold Point ⇒ Stage 1 Sign Off

Covers

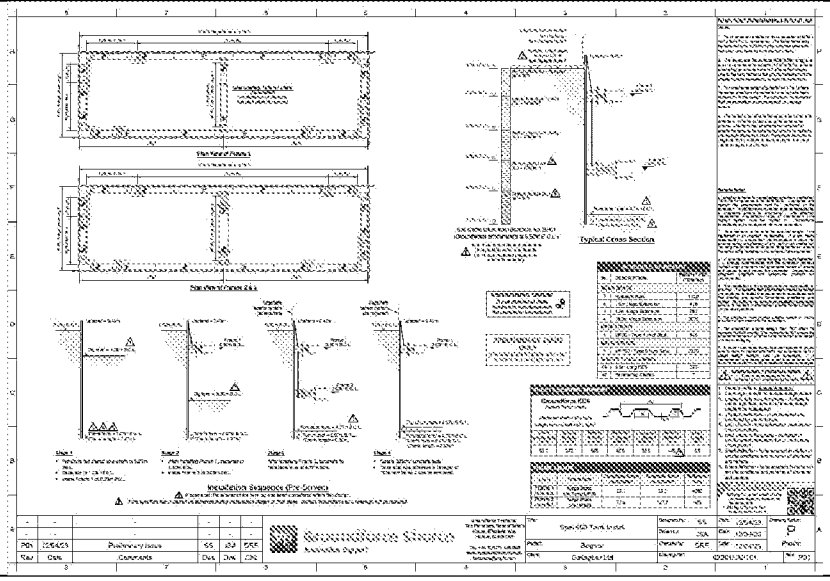
Type	Size	Cover Level	Comments
D400	Varies	0.000	Varies 2.750 to 2.950

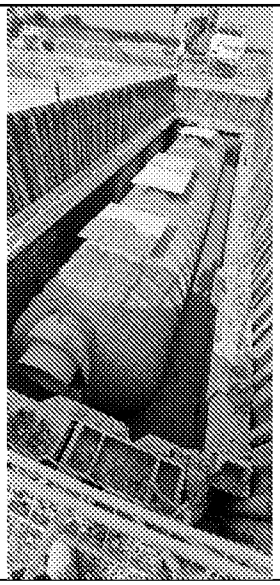
Hold Point ⇒ Proceed with Final Testing

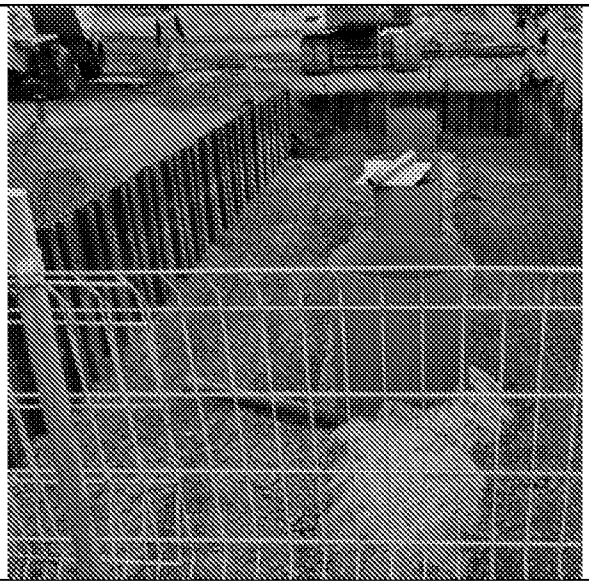
Commission & Testing	Yes

Post-Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).
iii	Attach a copy of the marked drawing to this check sheet

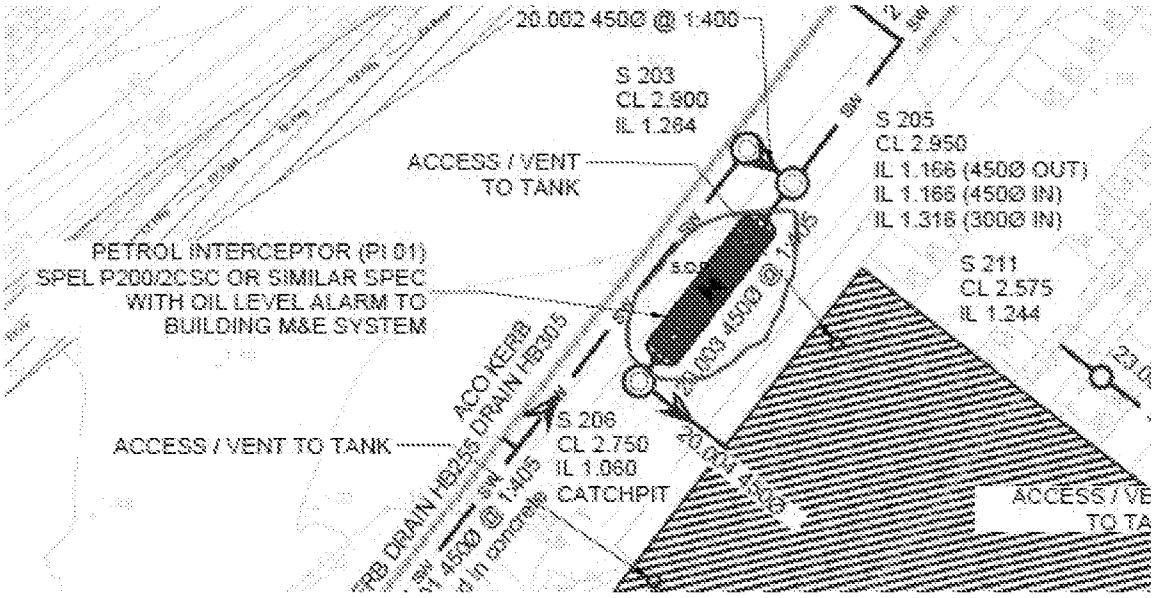
Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
01-12-2023		01-12-2023
Client Comments		

Temporary Works Photos	Comments
	

Installation Photos	Comments
	

Surround & Backfill Photos	Comments
	

Marked up drawing



QA Check Sheet – Interceptors

Project Title:	Amazon Bognor Regis	Project #:	750I	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule S3171823052-002 SPEL 500 Series Puraceptor P200/2CSC		
Asset Location:	PI3 - P200/2CSC	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase	
Setting Out - Line and Level	Yes

Temporary Works

Temporary Works	Comments
Yes	
Yes	

Base Details

Excavation Level	TOC Base Level	Concrete Type	Rebar / Mesh	Comments

-2.068	-1.318	C30	A393 Top and bottom	500mm Type 1 Transfer Mattress C28/35 Concrete

Hold Point => Proceed with Interceptor Installation

Interceptor

Type	Volume Capacity (Litres)	Comments
Storm	70000	

Pipe Inlets

Pipe Type	Diameter (mm)	Invert Level	Comments
Twin Wall	450mm	1.032	

Pipe Outlets

Pipe Type	Diameter (mm)	Invert Level	Comments
Twin Wall	450mm	0.957	

Ducting

Duct Type	Diameter (mm)	Invert Level	Comments
Twinwall - LV/ELV	100	1.492	
uPVC - Vent	100	1.492	
uPVC - Vent	100	1.492	

Hold Point ⇒ Confirm all above before proceeding with surround & backfill

Concrete Surround

Concrete Type	Concrete Thickness (mm)	Rebar / Mesh	Comments
C30	200	N/A	C28/35

Backfilling

Backfill Material	Depth of Layer (mm)	Compaction Method	Comments
Type 1	150	Rammax	

Client Comments

Hold Point ⇒ Stage 1 Sign Off

Covers

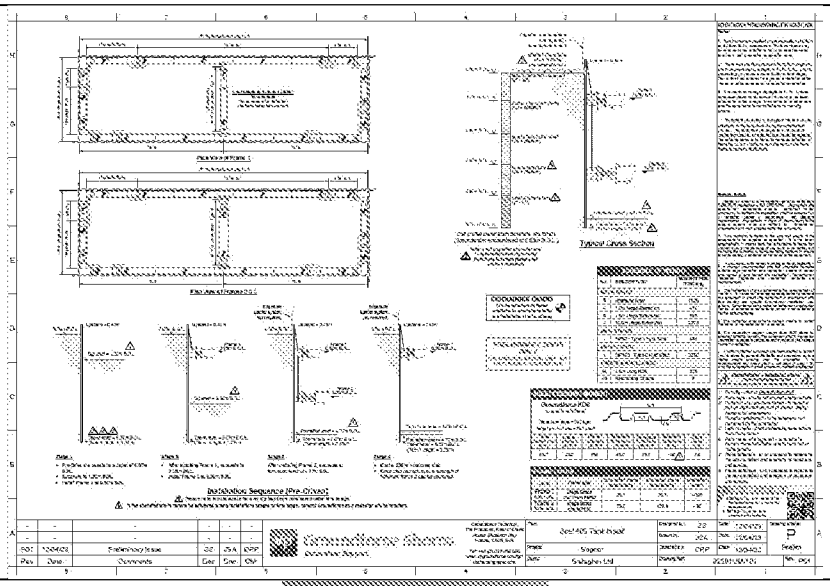
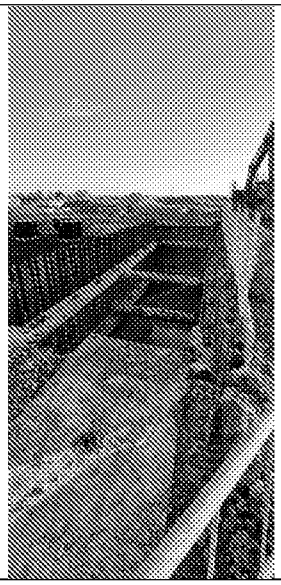
Type	Size	Cover Level	Comments
F900	750*750	2.650	
F900	750*750	2.750	
F900	600*600	2.720	
F900	900*900	2.650	

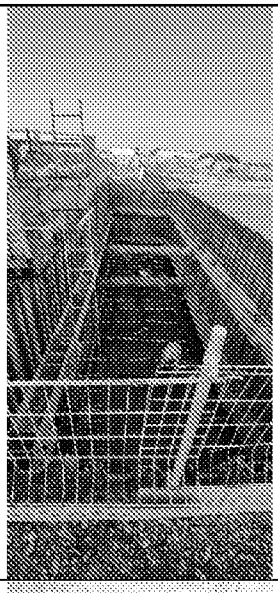
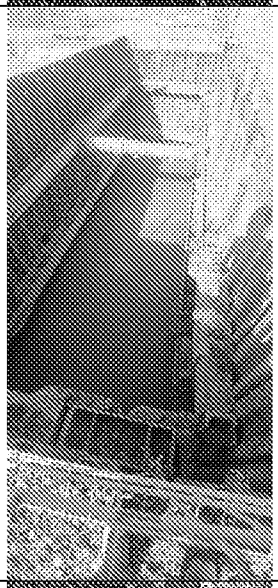
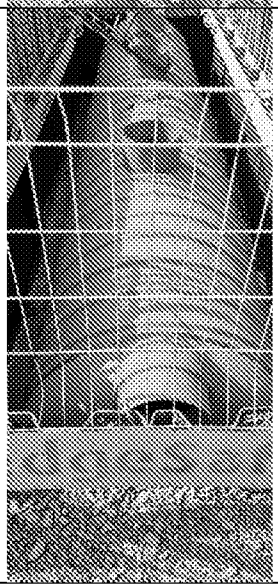
Hold Point ⇒ Proceed with Final Testing

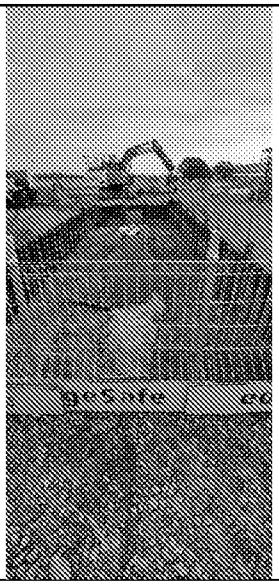
Commission & Testing	Yes

Post-Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).
iii	Attach a copy of the marked drawing to this check sheet

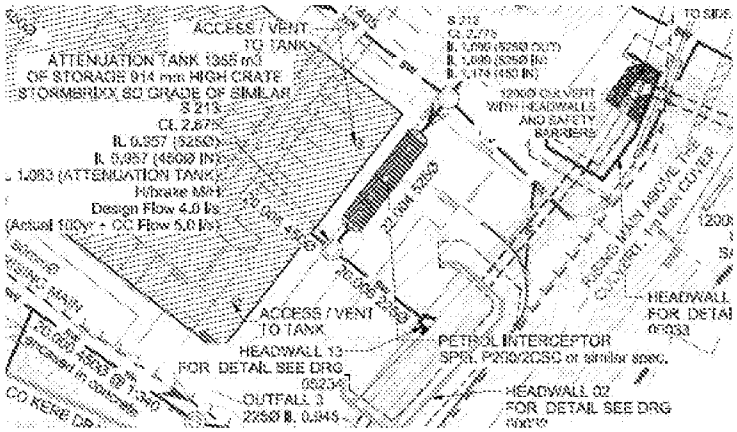
Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
18-09-2023		18-09-2023
Client Comments		

Temporary Works Photos	Comments
	
	

Installation Photos	Comments
	C28/35 Concrete Base
	
	

Surround & Backfill Photos	Comments
	

Marked up drawing



QA Check Sheet – Manholes

Project Title:	Amazon Bognor Regis	Project #:	750I	Date:	15-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	S101	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Comments
Yes	E:494597.774, N:101718.582

Level	Temp Works Req'd	Comments
1.336	Yes	Trench box

Concrete Level	Concrete Type	Comments
1.561	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1800mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	750mm	1.561	
Ductile Iron	150mm	2.361	
Twinwall	150mm	2.361	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	750mm	1.557	

Benching (If Applicable)	Comments
Yes	

Surround

Concrete Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
27-06-2023		27-06-2023

Client Comments

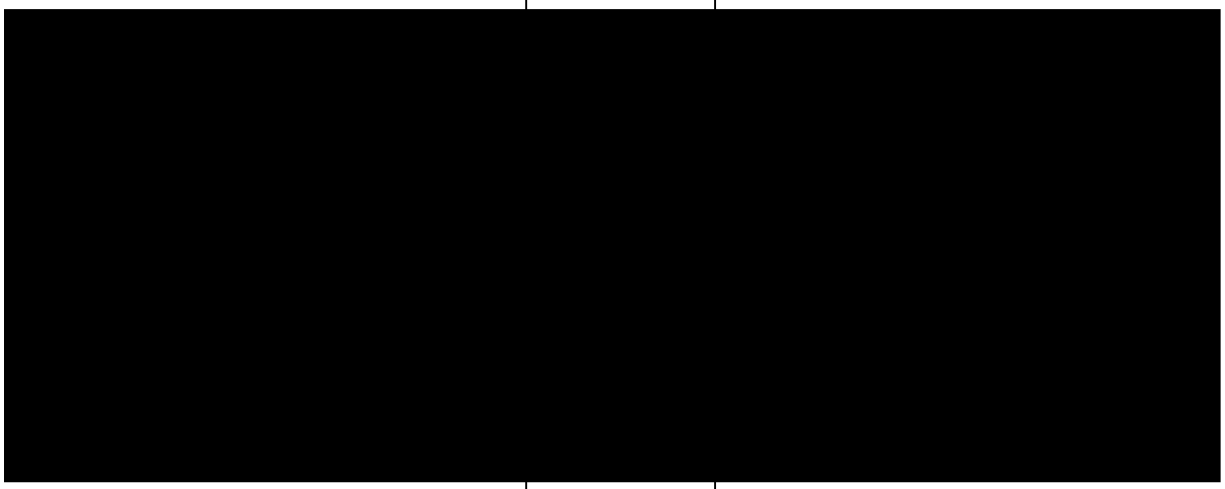
PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames			
Cover Grade	Cover Depth (mm)	Cover Size	Comments
D400	1850	600*600	

IMPORTANT NOTE - The full size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not triangle or overhang in any way.

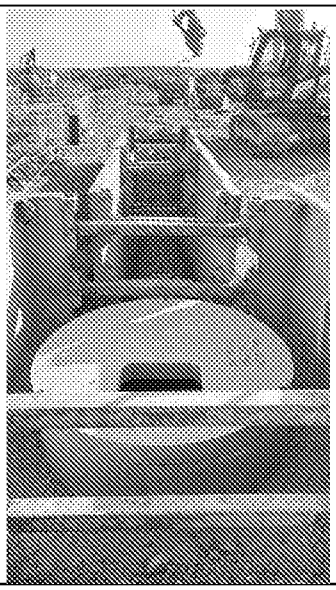
Final Testing	
Clean & Final Testing	Comments
Yes	

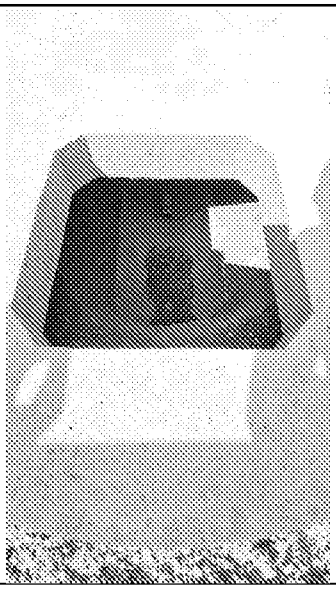
Post Construction		
i	Ensure all completed items are protected from weather and third-party damage	Yes
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	Yes
iii	Attach a copy of the marked drawing to this check sheet	

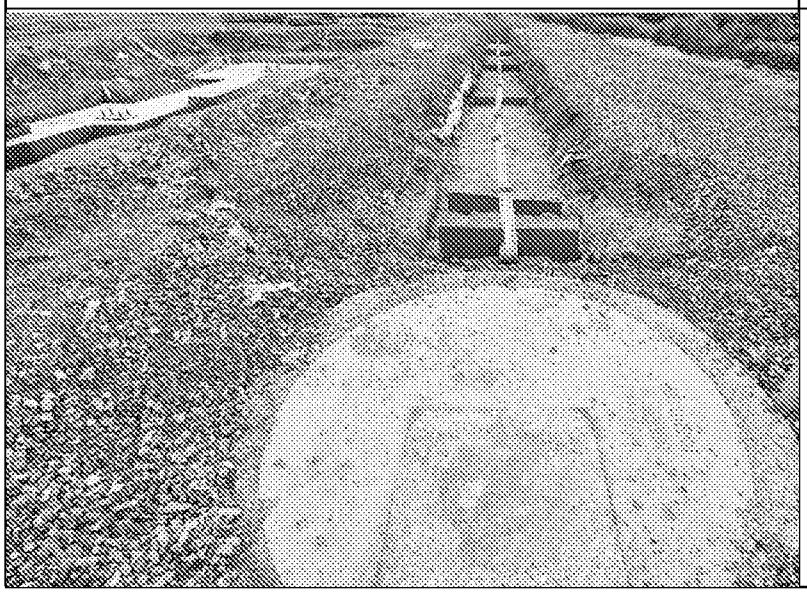


Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
27-06-2023		27-06-2023
Client Comments		

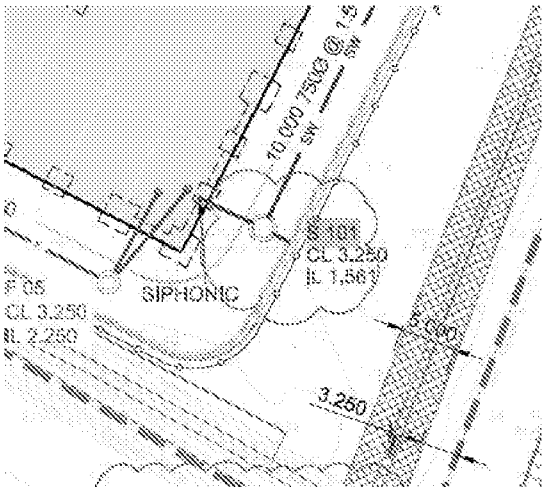
Other sign-off Signatures				
Signature	Name	Company	Date	Comments

Excavation / Temporary Works Photos	Comments
	

Benching	Comments
	

Surround Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 38 - S101 to S102	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
1.561	1.457	49.837	0.209

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
1.577	1.455	50.721	0.241

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Twinwall	750mm	GEN3

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

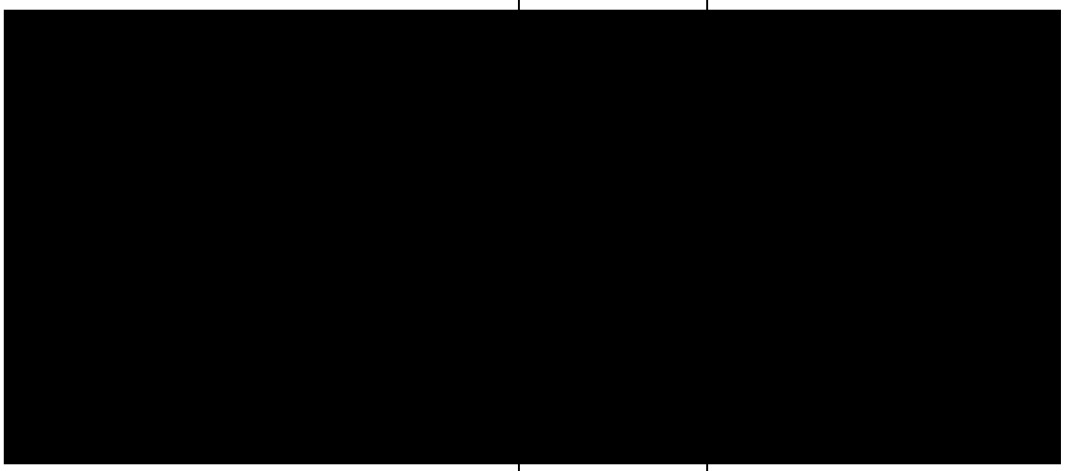
Backfill Material	Compaction Method	Comments

Type 1	Rammax	

Pipe Test (Results)	Comments
Pass	

Client Comments

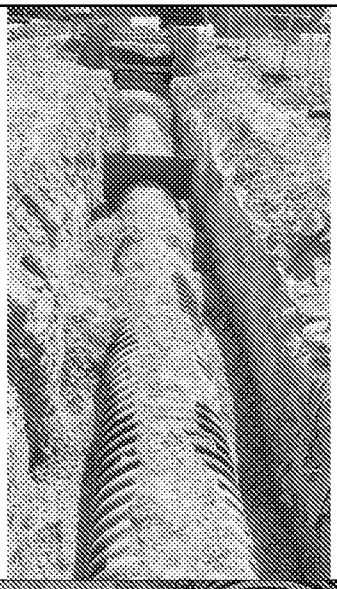
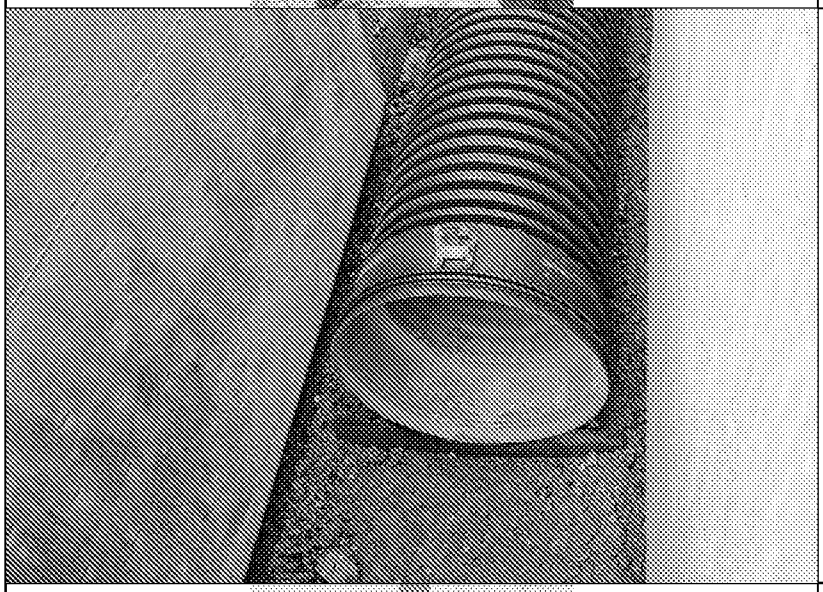
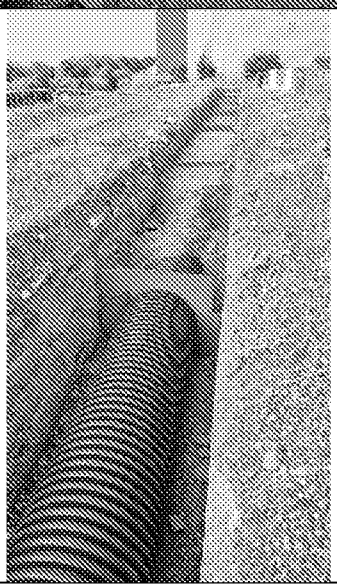
Path Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

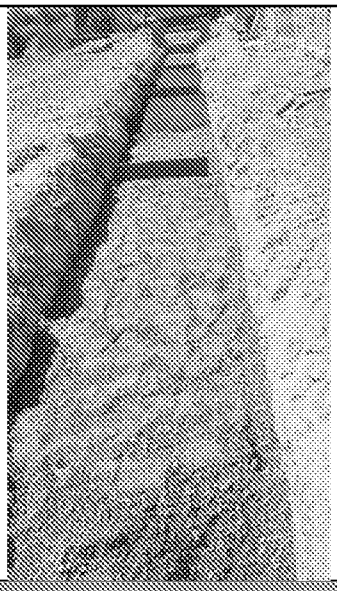
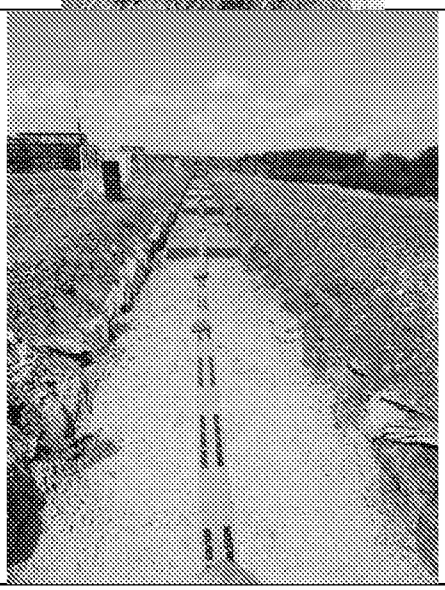
Sign-off		
Gallagher		Client
		
George Mcgearty		Bren Starbuck
27-06-2023		27-06-2023

Client Comments

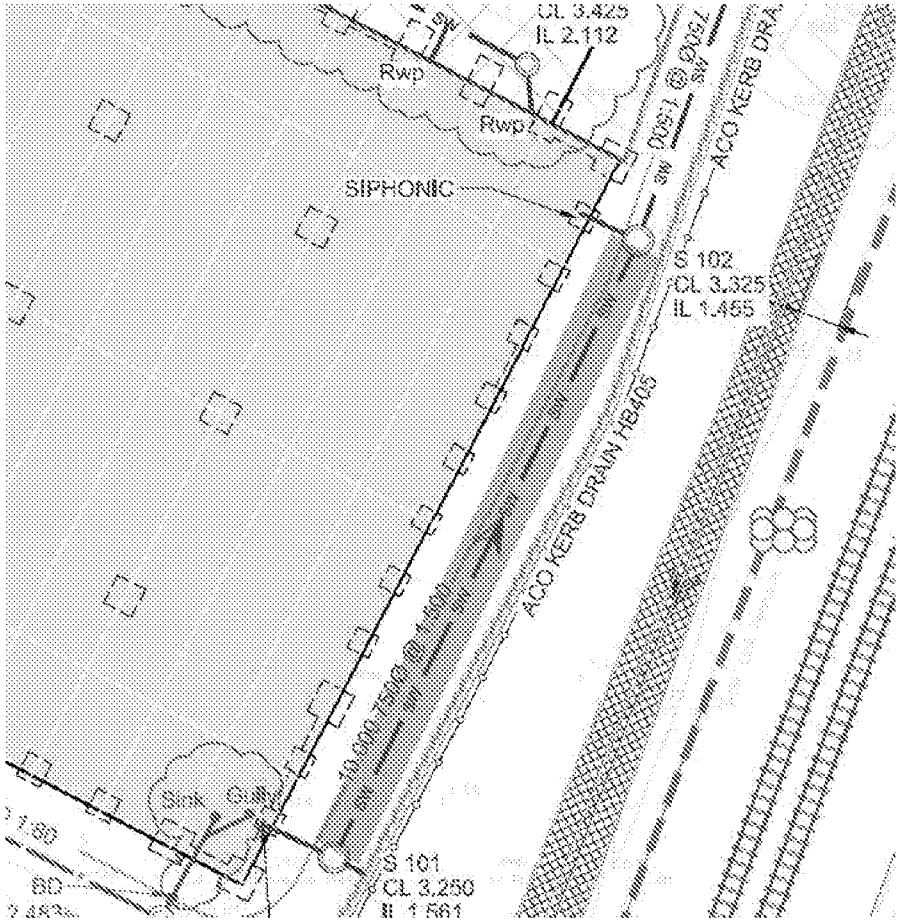
Other Sign-offs

Signature	Name	Company	Date	Comments
			27-06-2023	

Attachments	
Pipe Photos	Comments
	
	
	

Backfill Photos	Comments
	
	

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date:	15-05-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location	S102	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
1.230	Yes	

Concrete Level	Concrete Type	Comments
1.455	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1800mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	750mm	1.457	
Ductile Iron	150mm	2.247	Siphonic

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	750mm	1.445	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck

27-06-2023		27-06-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
D400	150	600*600	

IMPORTANT NOTES - The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

Final Testing

Clean & Final Testing	Comments
Yes	

Post-construction

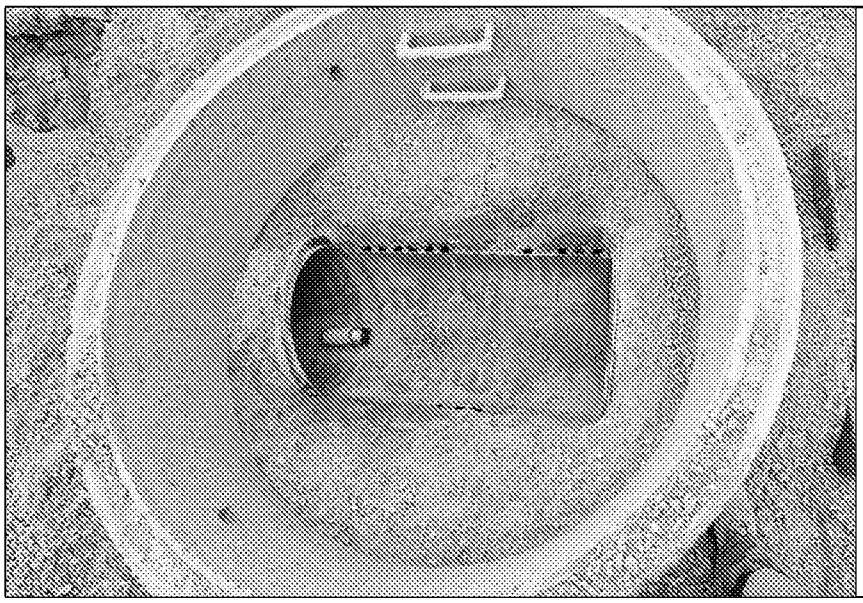
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
27-06-2023		27-06-2023
Client Comments		

Other sign-off Signatures				
Signature	Name	Company	Date	Comments

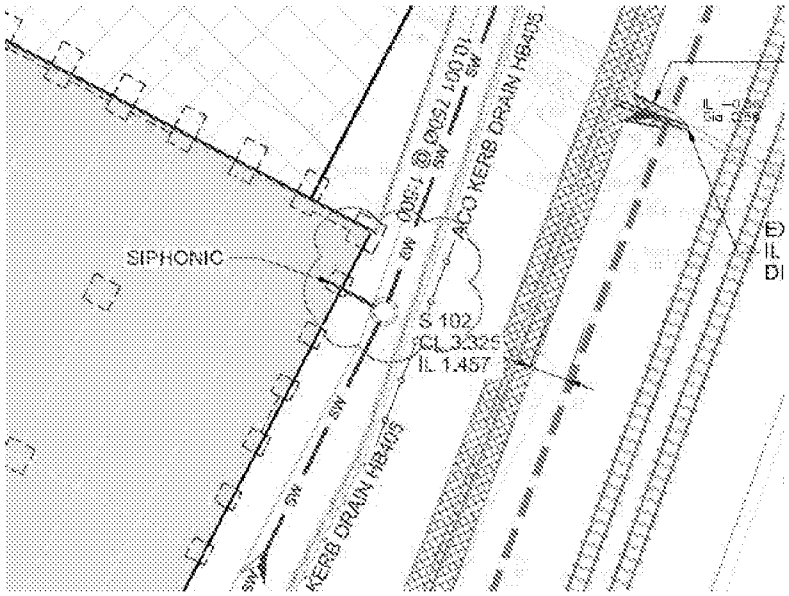
Excavation / Temporary Works Photos	Comments

Benching	Comments



Surround Photos	Comments

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 40 - S102 to S103	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
1.457	1.382	35.431	0.212

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
1.455	1.376	34.916	0.226

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Twinwall	750mm	GEN3

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments

Type 1	Rammax	

Pipe Test (Results)	Comments
Pass	

Client Comments

Path Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

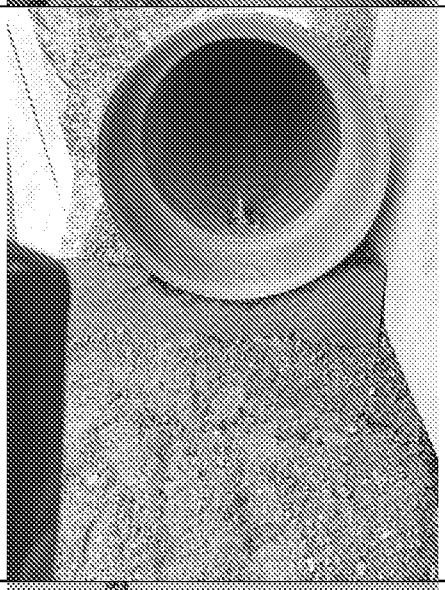
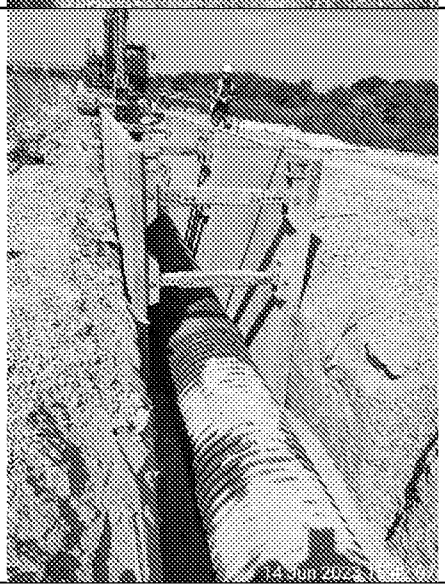
Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		James Dent
10-08-2023		10-08-2023

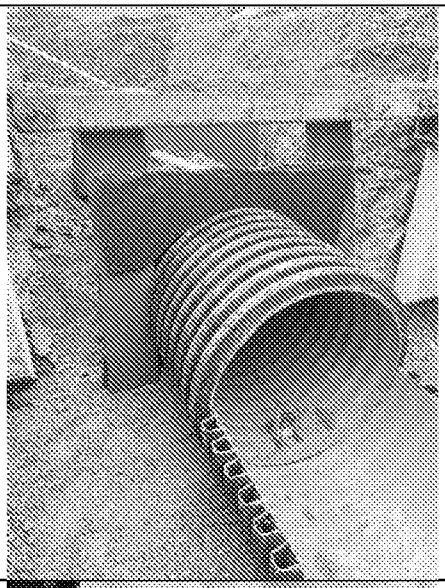
Client Comments

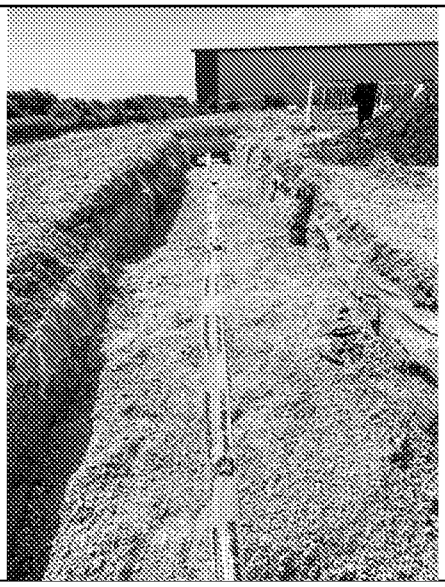
Other Sign-offs

Signature	Name	Company	Date	Comments
			10-08-2023	

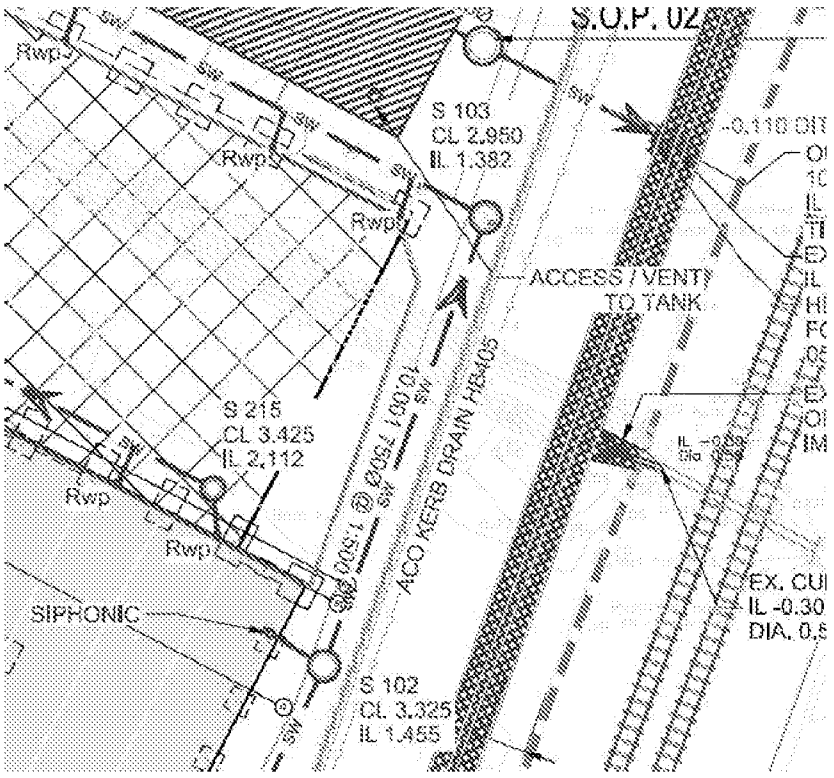
Attachments

Pipe Photos	Comments
	
	

Backfill Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Manholes

Project Title:	Amazon Bognor Regis	Project #:	Project Number	Date:	15-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	S103	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
1.150	N/A	

Concrete Level	Concrete Type	Comments
1.375	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1800mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	750mm	1.374	
Pipe Type	Pipe Diameter	Invert Level	Comments

Twinwall	750mm	1.372	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Roller	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
19-07-2023		19-07-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments

F900	150	600*600	

IMPORTANT NOTE - The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway

Final Testing

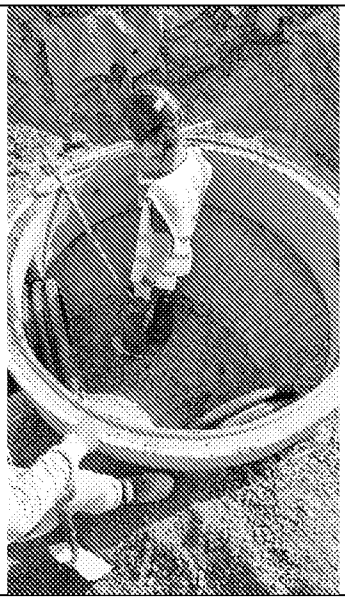
Clean & Final Testing	Comments
Yes	

Post-Construction		
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		James Dent
10-08-2023		10-08-2023
Client Comments		

Other sign-off Signatures				
Signature	Name	Company	Date	Comments

Excavation / Temporary Works Photos	Comments

Benching	Comments
	WIP

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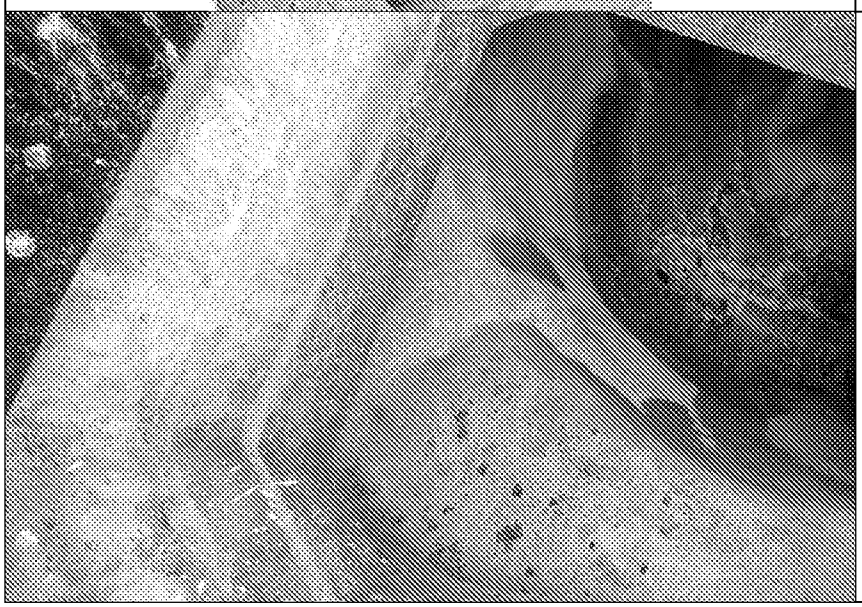
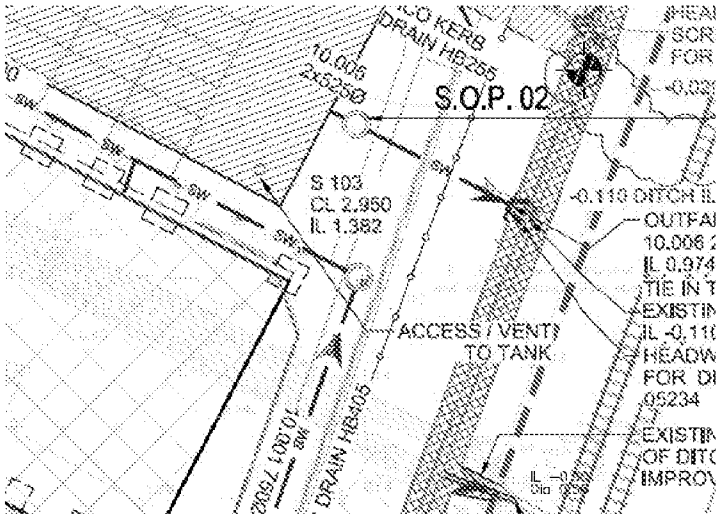


Surround Photos	Comments

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 41 - S103 to S104	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
1.382	1.184	96.734	0.205

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
1.374	1.184	97.310	0.195

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Twinwall	750mm	GEN3

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments

Type 1	Rammax	

Pipe Test (Results)	Comments
Pass	

Client Comments

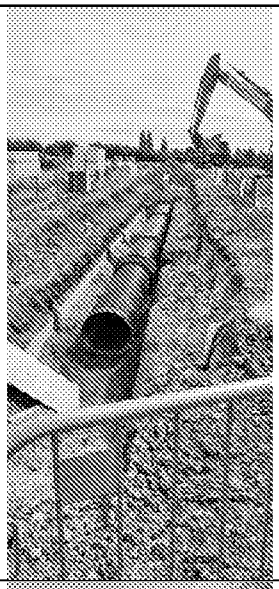
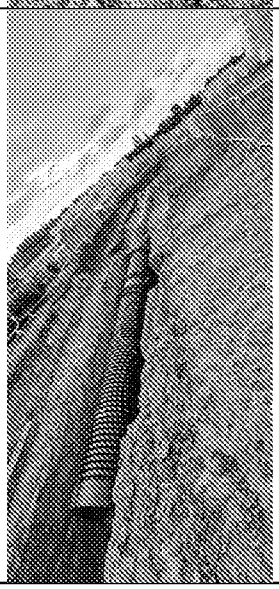
Path Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

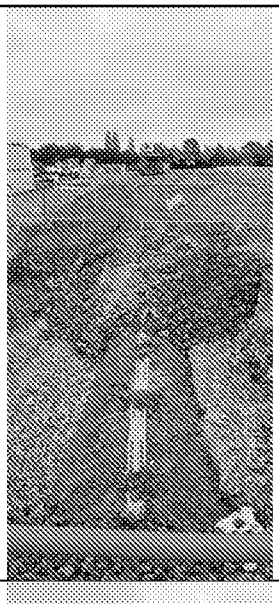
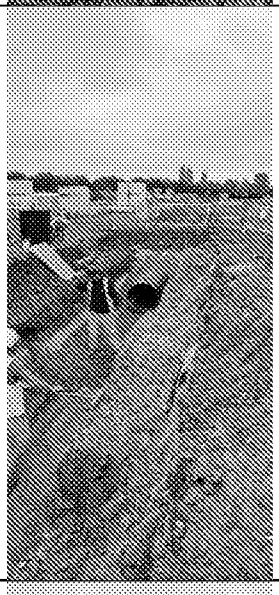
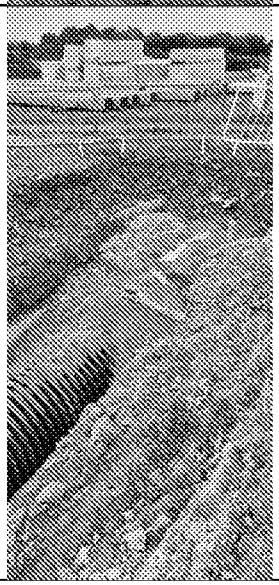
Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
06-09-2023		06-09-2023

Client Comments

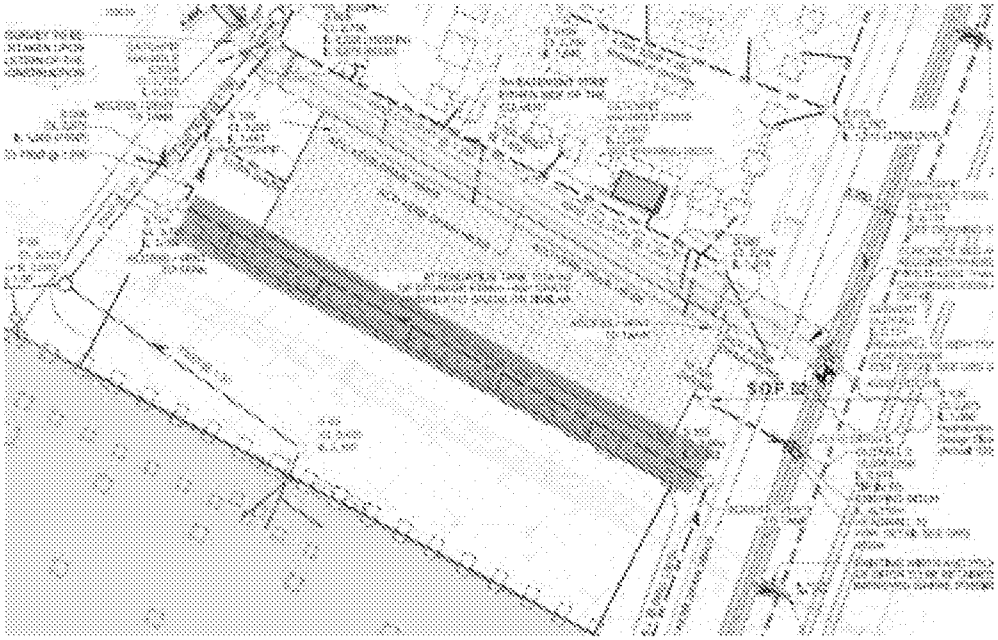
Other Sign-offs

Signature	Name	Company	Date	Comments

Attachments	
Pipe Photos	Comments
	
	

Backfill Photos	Comments
	
	
	

Marked-up Drawing



QA Check Sheet – Manholes

Project Title:	Amazon Bognor Regis	Project #:	Project Number	Date:	15-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	S104	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
0.946	N/A	

Concrete Level	Concrete Type	Comments
1.171	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1800mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments

Twinwall	750mm	1.181	
Twinwall	300mm	1.639	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	750mm	1.171	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Roller	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		James Dent
03-08-2023		07-08-2023

Client Comments

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
D400	150	600*600	

IMPORTANT NOTE – The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

Final Testing

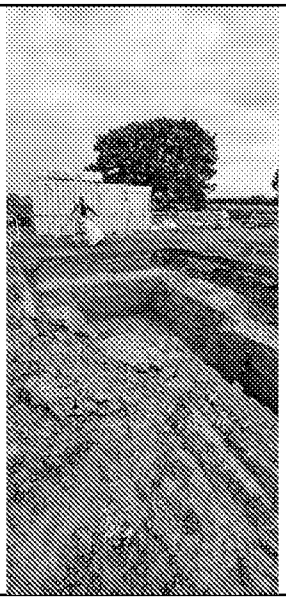
Clean & Final Testing	Comments
Yes	

Post Construction

i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

Final Sign-offs		
Gallagher		Client
George Mcgearty		James Dent
10-08-2023		10-08-2023
Client Comments		

Other sign-off Signatures				
Signature	Name	Company	Date	Comments

Excavation / Temporary Works Photos	Comments
	

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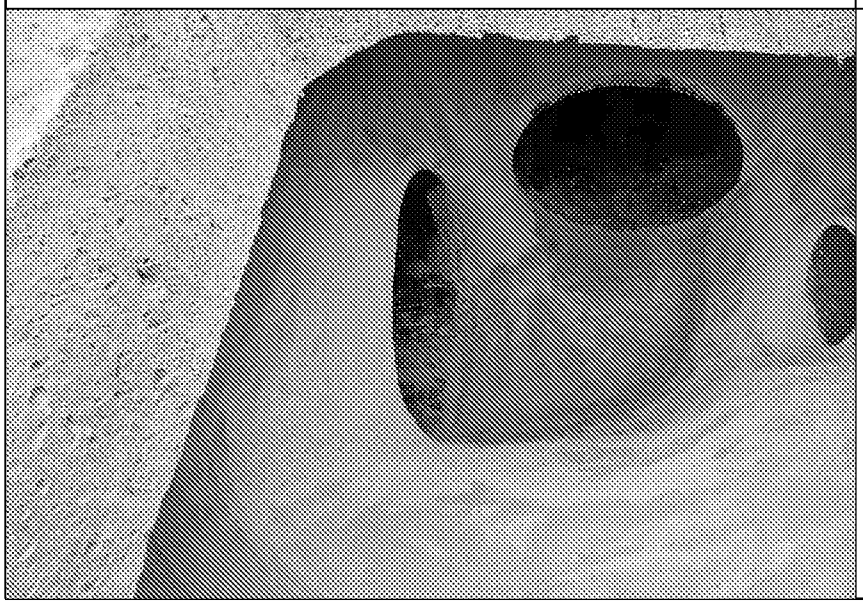
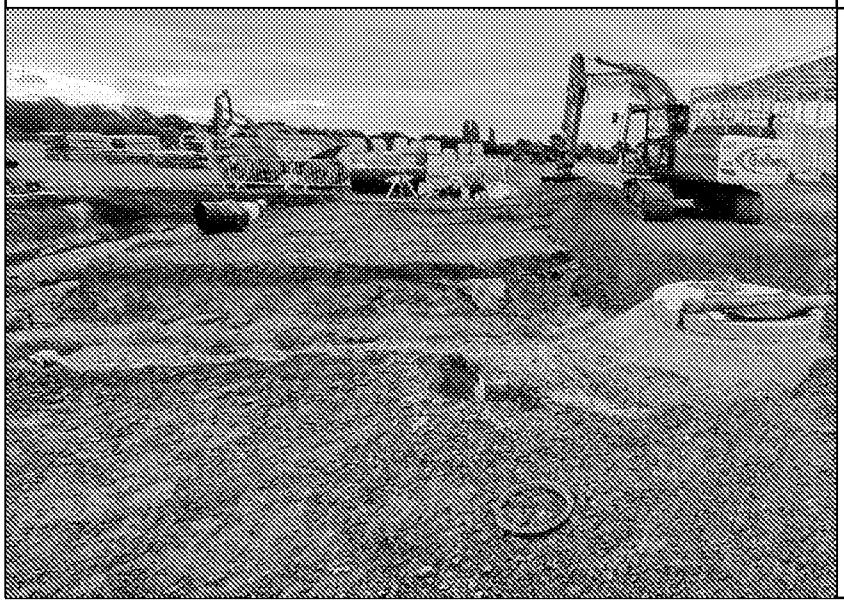
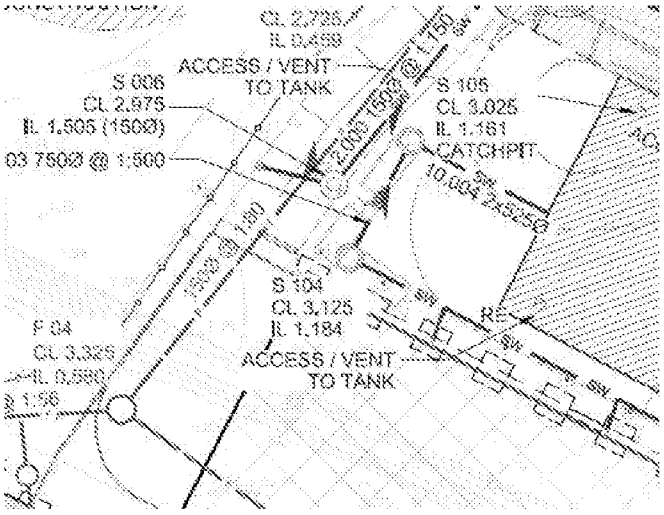
	

Surround Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750I	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 42 - S104 to S105	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
1.184	1.161	9.018	0.255

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
1.181	1.154	9.450	0.286

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Twinwall	750mm	GEN3

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments

Type 1	Rammax	

Pipe Test (Results)	Comments
Pass	

Client Comments

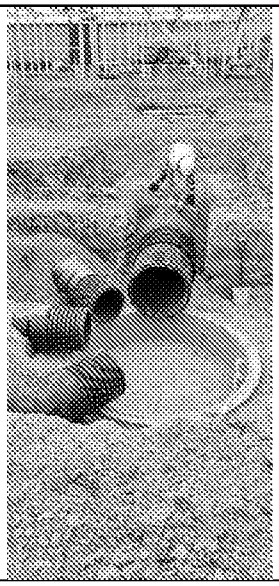
Path Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

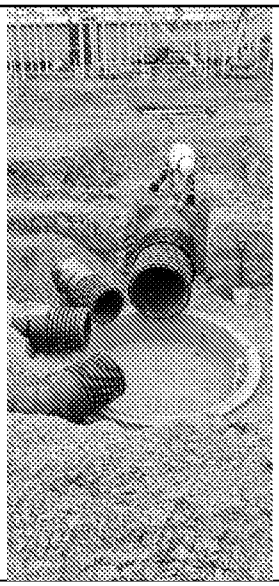
Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
06-09-2023		06-09-2023

Client Comments

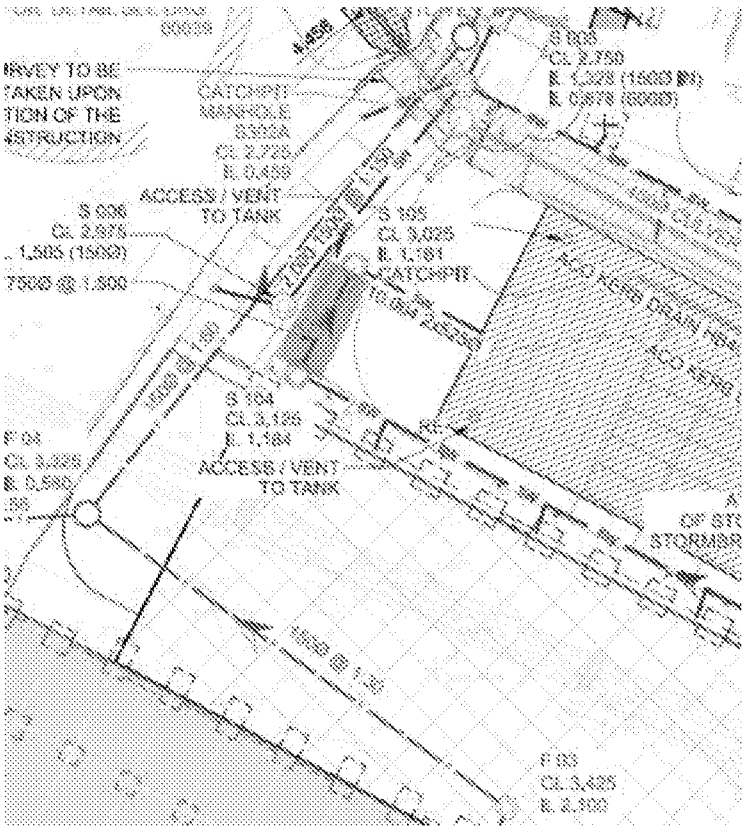
Other Sign-offs

Signature	Name	Company	Date	Comments

Attachments	
Pipe Photos	Comments
	

Backfill Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date:	15-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	S105	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
0.459	N/A	

Concrete Level	Concrete Type	Comments
0.684	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	2100mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments

Twinwall	750mm	1.154	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	450mm	1.145	
Twinwall	450mm	1.150	
Twinwall	450mm	1.149	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Roller	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck

15-08-2023		16-08-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
D400	150	600*600	

IMPORTANT NOTES - The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

Final Testing

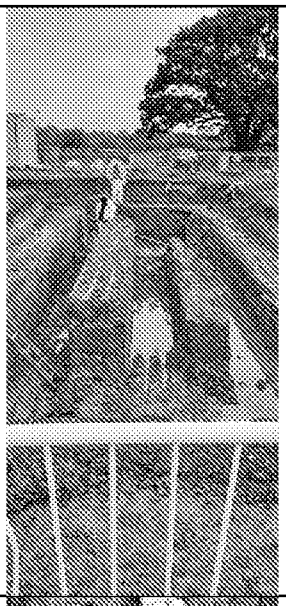
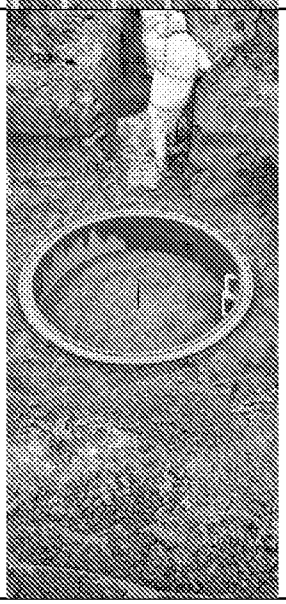
Clean & Final Testing	Comments
Yes	

Post-construction

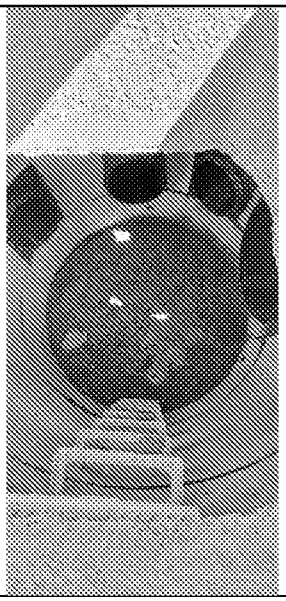
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
16-08-2023		16-08-2023
Client Comments		

Other sign-off Signatures				
Signature	Name	Company	Date	Comments

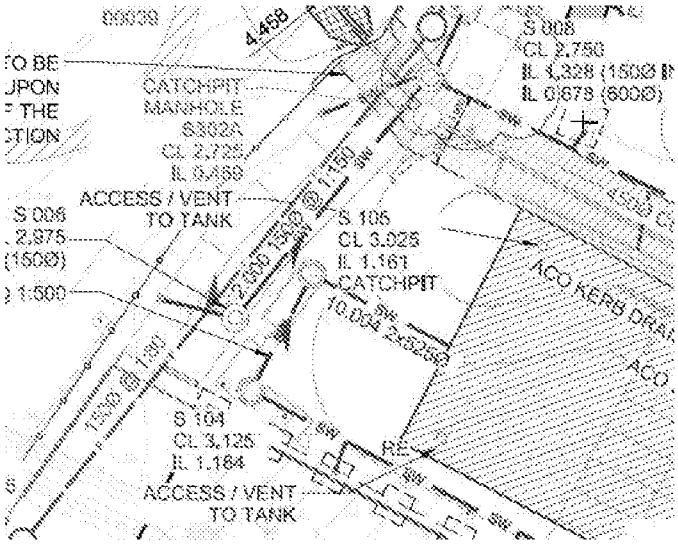
Excavation / Temporary Works Photos	Comments
	
	

Benching	Comments

Surround Photos	Comments

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 43 - S105 to Attenuation Tank	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
1.161	1.130	12.206	0.254

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
1.145	1.123	12.200	0.180
1.150	1.125	12.200	0.205
1.149	1.128	12.200	0.172

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Twinwall	450mm	GEN3
Twinwall	450mm	GEN3
Twinwall	450mm	GEN3

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments
Type 1	Roller	

Pipe Test (Results)	Comments
Pass	

Client Comments

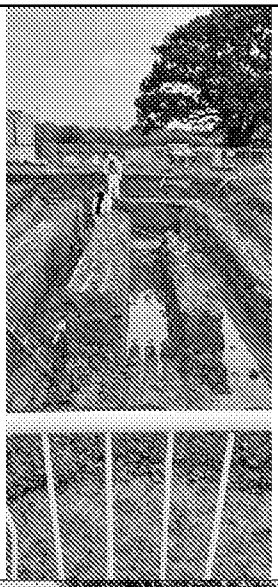
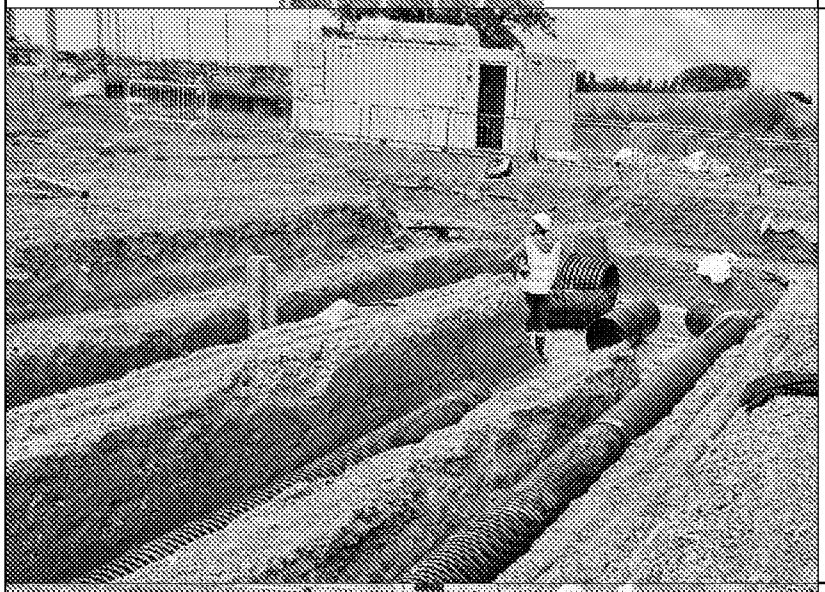
Post-Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
06-09-2023		07-09-2023

Client Comments

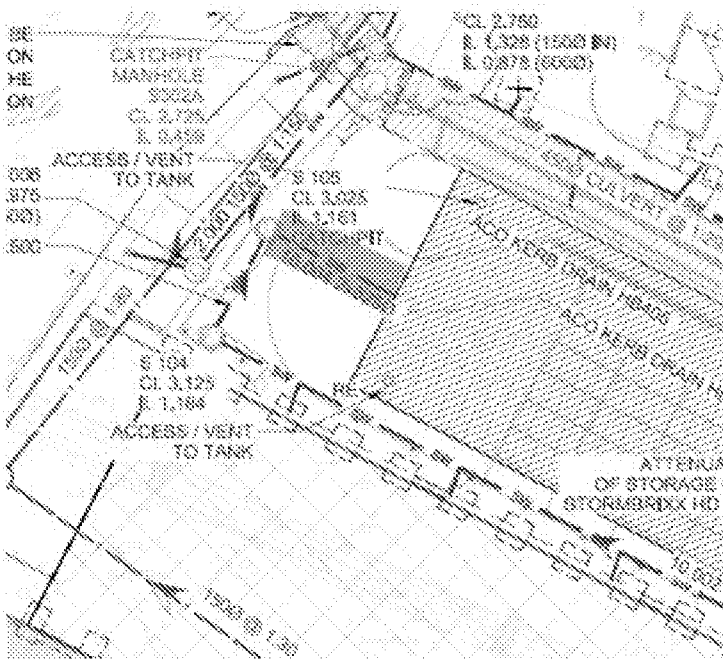
Other Sign-offs

Signature	Name	Company	Date	Comments
			06-09-2023	

Attachments	
Pipe Photos	Comments
	
	

Backfill Photos	Comments

Marked-up Drawing



QA Check Sheet – Attenuation Tank

Project Title:	Amazon Bognor Regis	Project #:	750I	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule DES018526 AMAZON BOGNOR REGIS ATTENUATION TANK 1		
Area/Location:	Attenuation Tank 1	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Brief all concrete operatives on the required finish, as per the agreed benchmarks (if applicable)

Construction Phase			
Setting Out - Line and Level		Yes	
Temporary Works		No	
Formation Level	Shingle Level	Shingle Size	Shingle Depth (mm)
0.940	1.040	20mm	100

[redacted]	Client Comments

Bren Starbuck	
29-06-2023	

	Comments

Hold Point ⇒ Proceed with Tank Installation

Type	Laps (mm)	Jointed	Comments
Polyproplylene GTX-N	150	Yes	

Tank System Approved	Comments
Yes	

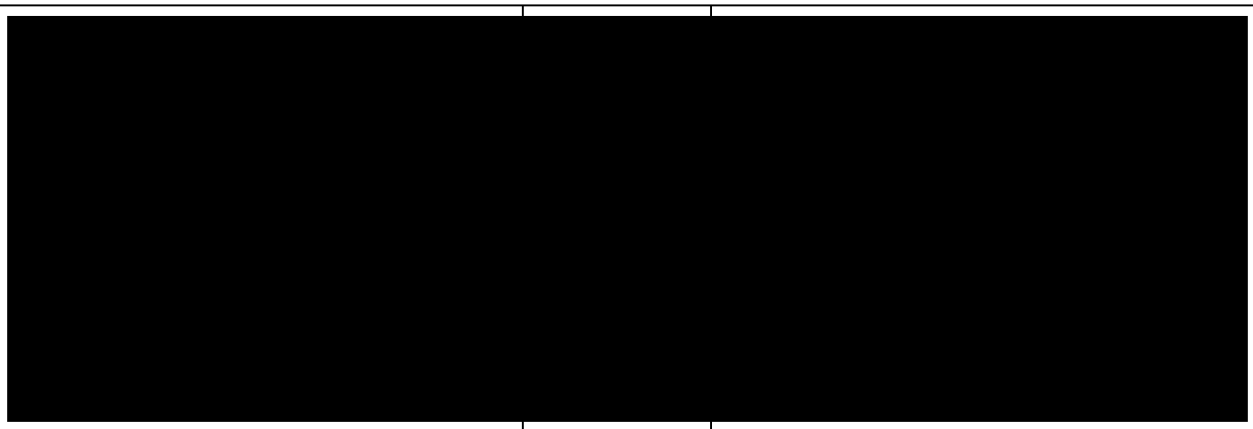
Type	Pipe Diameter (mm)	Invert Level	Comments
Twinwall	450mm	1.123	
Twinwall	450mm	1.128	
Twinwall	450mm	1.140	

Hold Point ⇒ Proceed with Backfill / Reinstatement

Tank Surround	Backfill Material	Comments
20mm Shingle	Type 1	

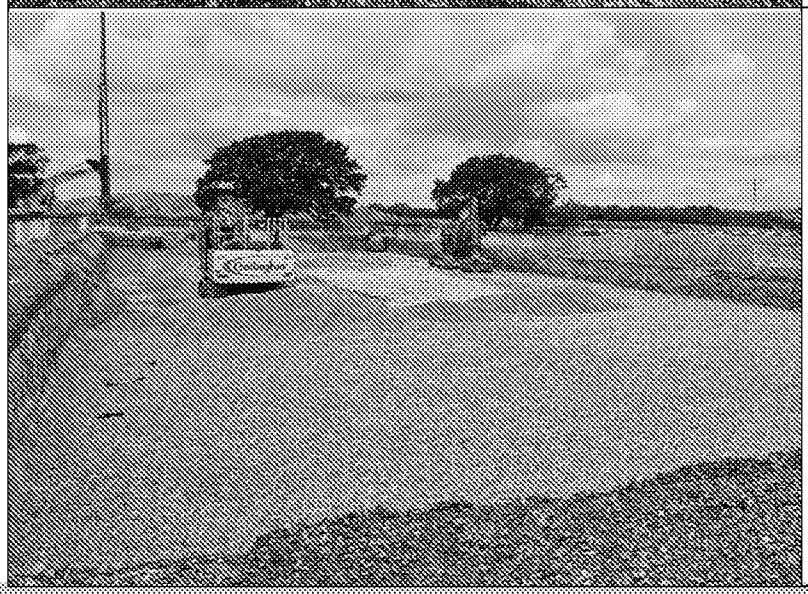
Post-Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).
iii	Attach a copy of the marked drawing to this check sheet

Sign-off		
Gallagher		Client

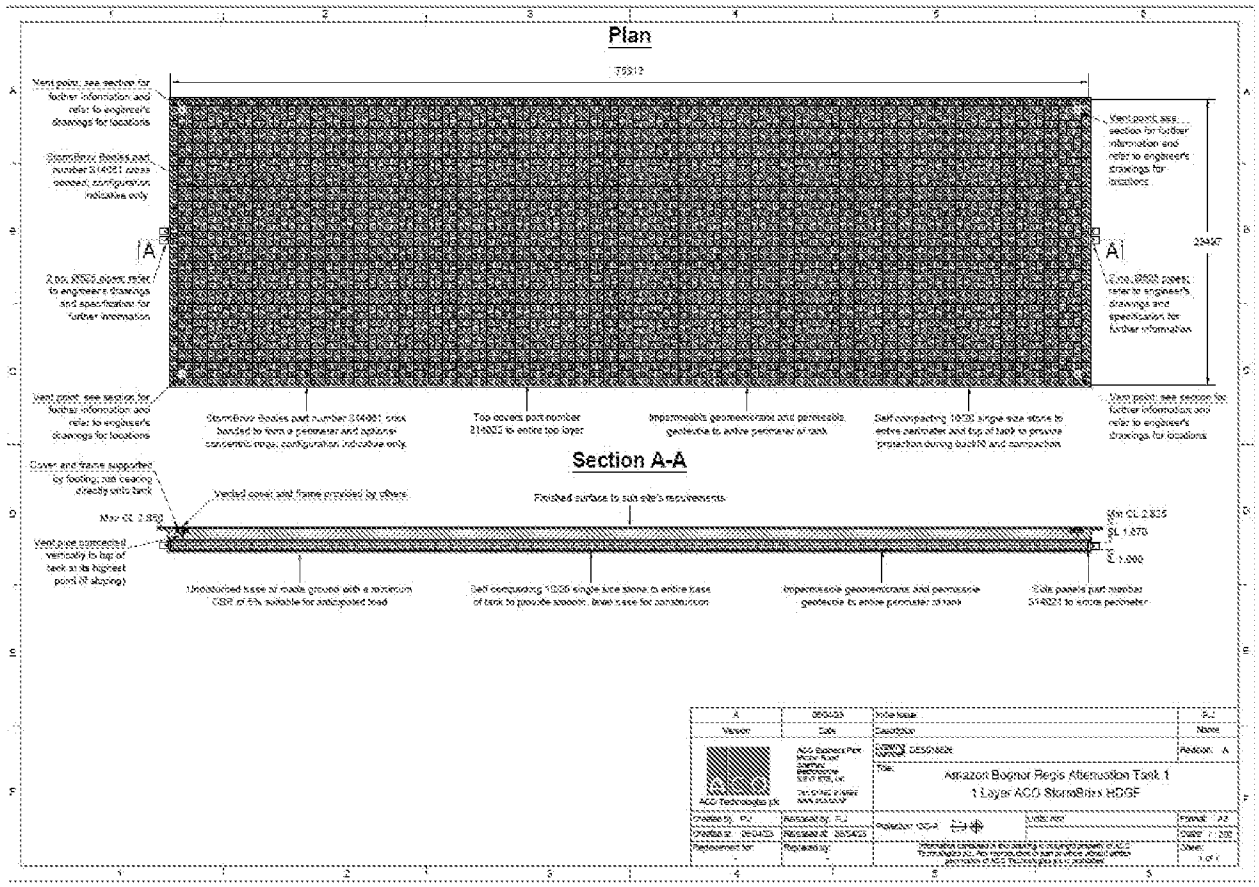
		
George Mcgearty		Bren Starbuck
24-07-2023		24-07-2023
Client Comments		

Other Sign-off	
[Name Answer]	[Signature Answer]
[Company Answer]	
[Date Answer]	
Comments [Comments Answer]	

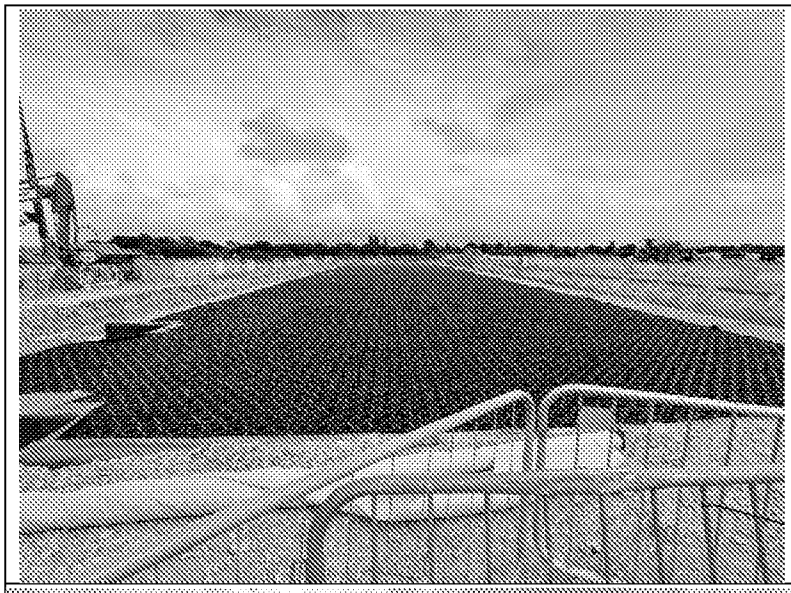
Attachments

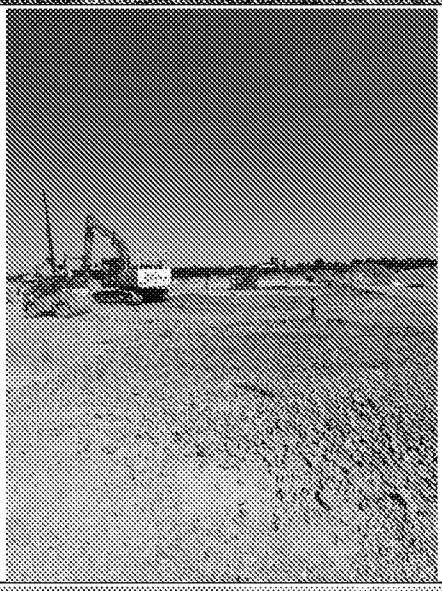
Formation Photos	Comments
	

Tank installation drawing



Tank Installation Photos	Comments



Backfill Photos	Comments
	

Handover Certificate

Handover Sheet

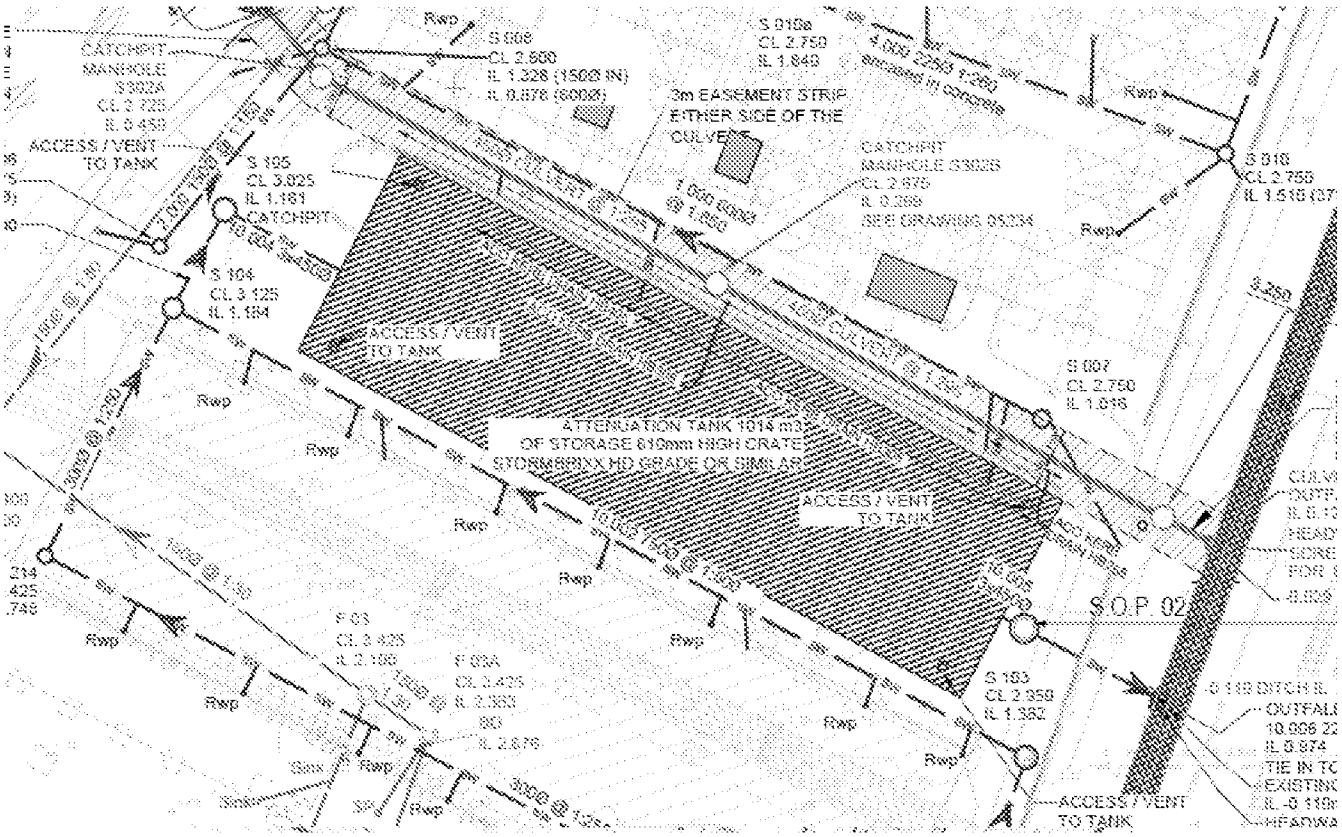
[illegible]	Amazon Bognor Regis	[illegible]	750I	[illegible]	24-07-2023
[illegible]	George Mogearty	[illegible]	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00035-DWG[C02]-Schedule DES018528 AMAZON BOGNOR REGIS ATTENUATION TANK 1		
[illegible]	Attenuation Tank 1	[illegible]	DBN5 Specification		

[illegible]		
Description of Works	Area Complete	Comments
Attenuation Tank 1 - Installation & Backfill	Yes	

Handover Report	Comments
Accepted	All OK

[illegible]		
Gallagher		Client
[redacted]		

Marked-up Drawing



QA Check Sheet – Attenuation Tank

Project Title:	Amazon Bognor Regis	Project #:	750I	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule DES018527 AMAZON BOGNOR REGIS ATTENUATION TANK 2		
Area/Location:	Attenuation Tank 2	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Brief all concrete operatives on the required finish, as per the agreed benchmarks (if applicable)

Construction Phase			
Setting Out - Line and Level		Yes	
Temporary Works		No	
Formation Level	Shingle Level	Shingle Size	Shingle Depth (mm)
0.832	0.932	20mm	100

[redacted]	Client Comments

James Dent	
30-08-2023	

	Comments

Hold Point ⇒ Proceed with Tank Installation

Type	Laps (mm)	Jointed	Comments
Polyproplylene GTX-N	150	Yes	

Tank System Approved	Comments
Yes	

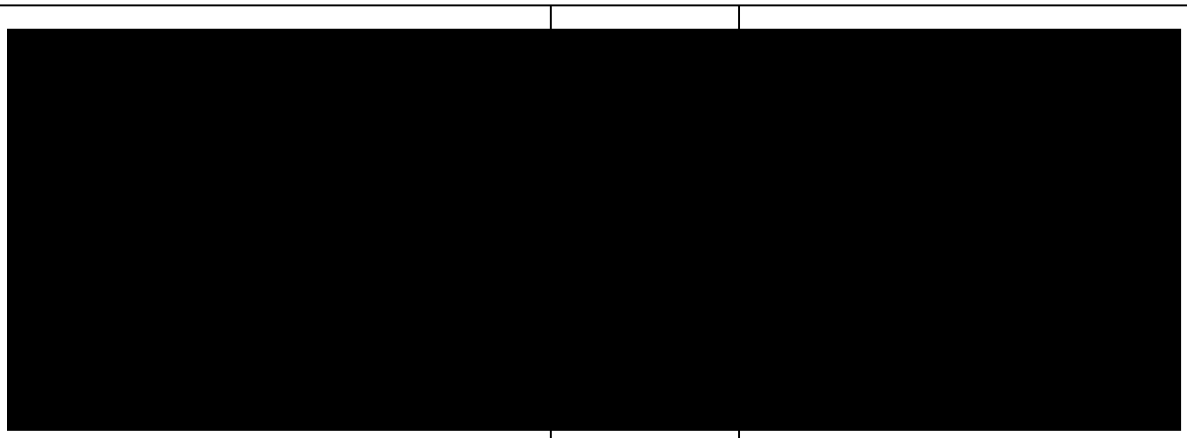
Type	Pipe Diameter (mm)	Invert Level	Comments
Twinwall	450mm	1.020	OL
Twinwall	450mm	1.019	IL
uPVC	100mm	0.000	x4no. Vent pipes

Hold Point ⇒ Proceed with Backfill / Reinstatement

Tank Surround	Backfill Material	Comments
20mm Shingle	Type 1	

Post-Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).
iii	Attach a copy of the marked drawing to this check sheet

Sign-off		
Gallagher		Client

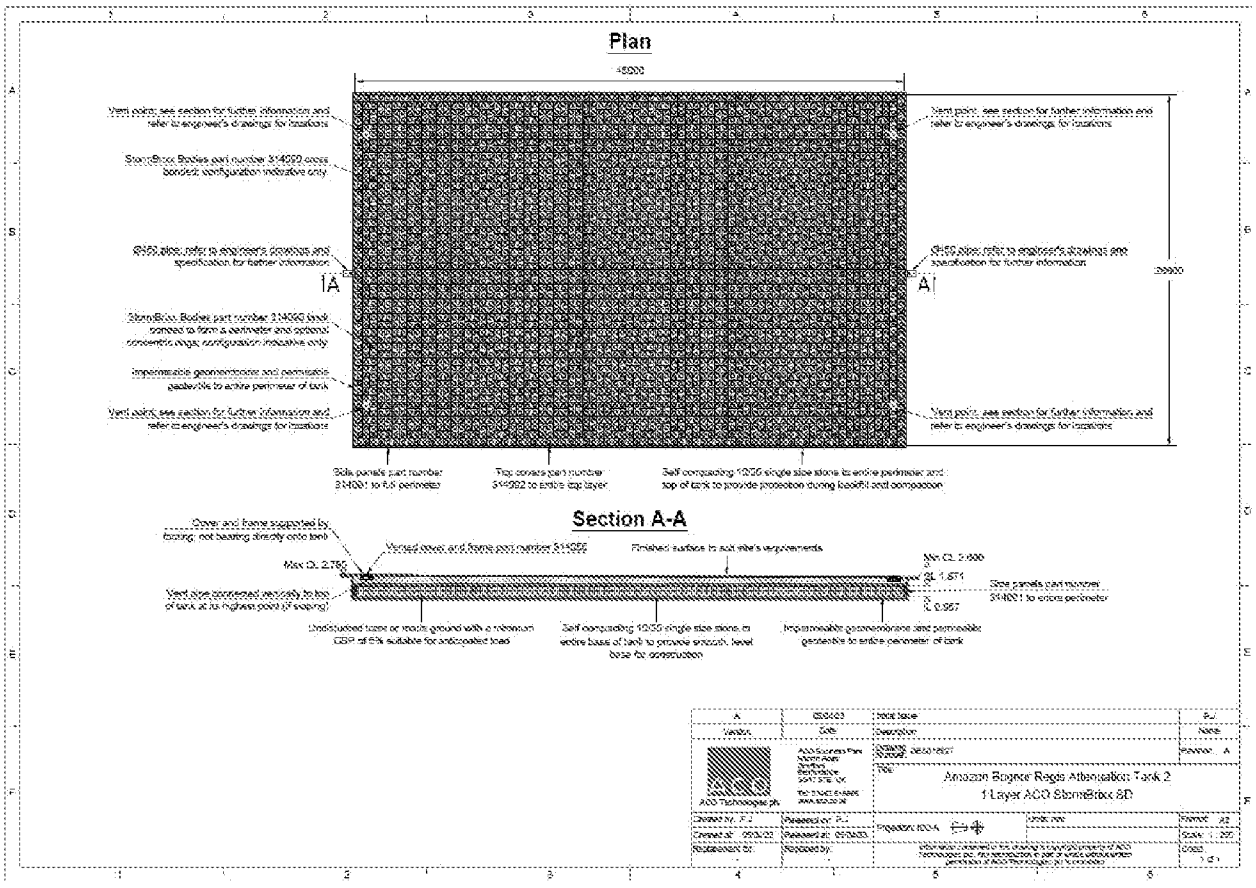
		
George Mcgearty		Bren Starbuck
12-09-2023		12-09-2023
Client Comments		

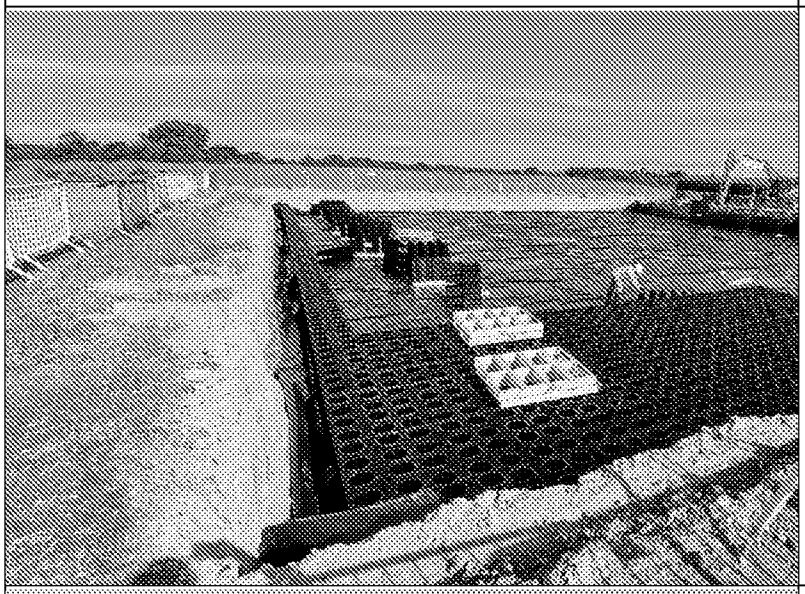
Other Sign-off	
[Name Answer]	[Signature Answer]
[Company Answer]	
[Date Answer]	
Comments [Comments Answer]	

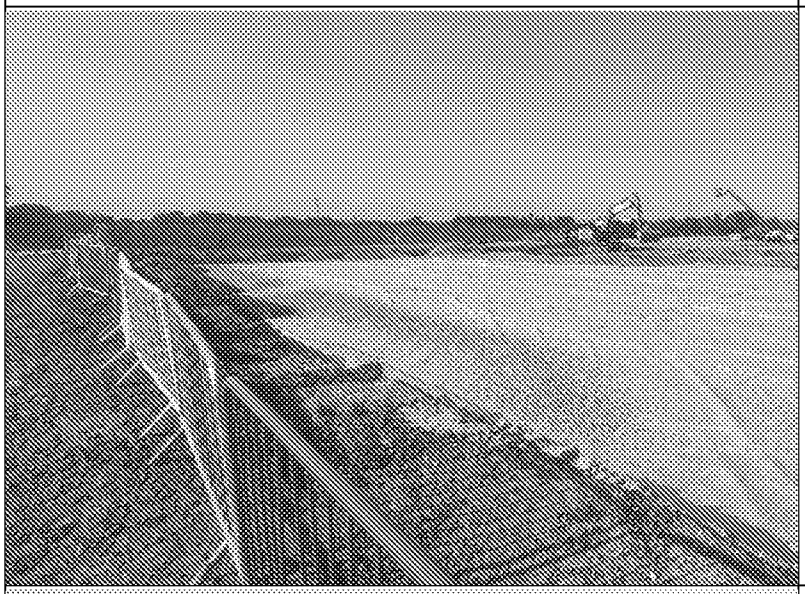
Attachments

Formation Photos	Comments

Tank installation drawing



Tank Installation Photos	Comments
	

Backfill Photos	Comments
	

Handover Certificate

Handover Sheet

Project Name	Amazon Bognor Regis	Job No	7501	Date	12-09-2023
Prepared By	George Mcgearty	Drawing No's	DBNS-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBNS-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBNS-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBNS-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBNS-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBNS-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBNS-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBNS-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule DES018527 AMAZON BOGNOR REGIS ATTENUATION TANK 2		
Area Handover	Attenuation Tank 2	Specification Used	DBNS Specification		

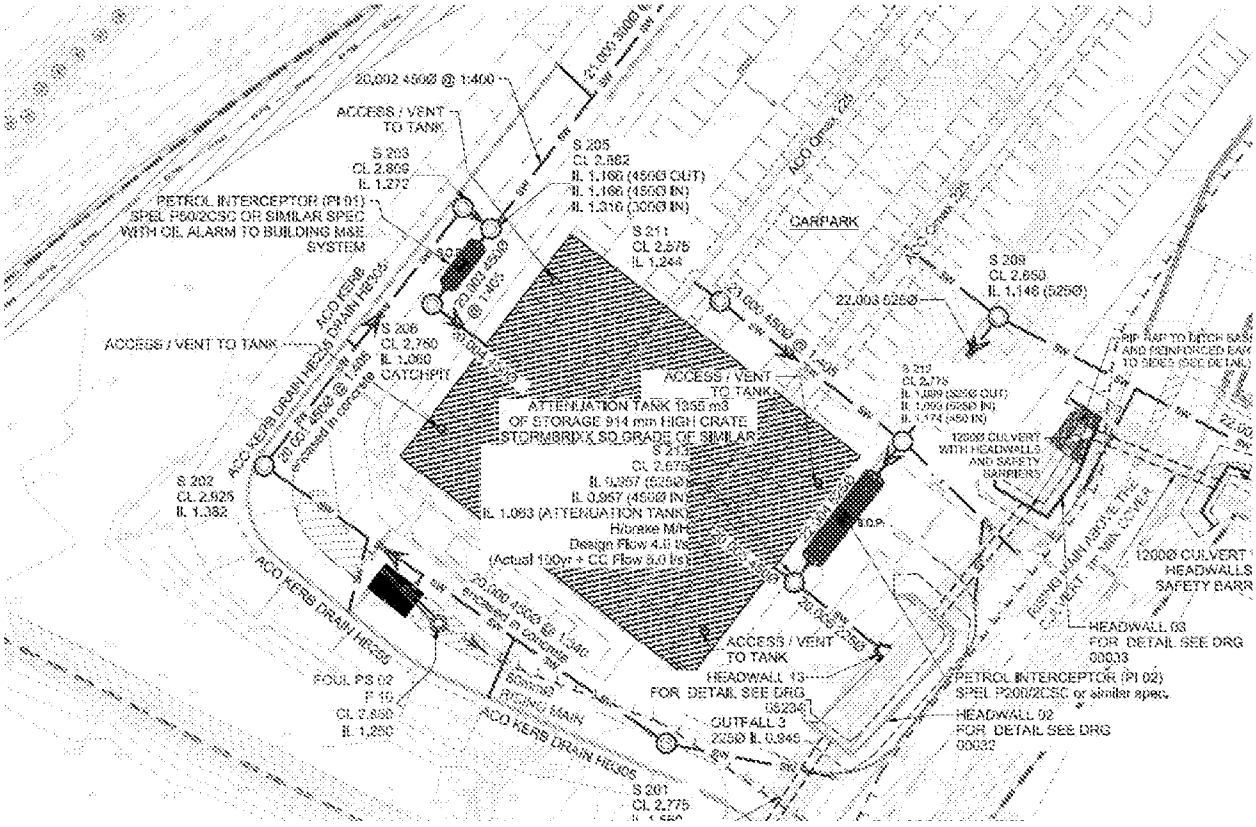
Handover Areas		
Description of Works	Area Complete	Comments
Storm Brixx SD Attenuation Tank	Yes	

Handover Report	Comments
Accepted	OK

Signed		
Gallagher		Client
[redacted]		

Gallagher

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date	15-05-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Acceptance	S106	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
0.337	N/A	

Concrete Level	Concrete Type	Comments
0.562	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	2100mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	450mm	1.062	
Twinwall	450mm	1.082	
Twinwall	450mm	1.072	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	225mm	1.055	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Roller	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
24-07-2023		31-07-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments

D400	150	600*600	

IMPORTANT NOTE - The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway

Final Testing

Clean & Final Testing	Comments
Yes	

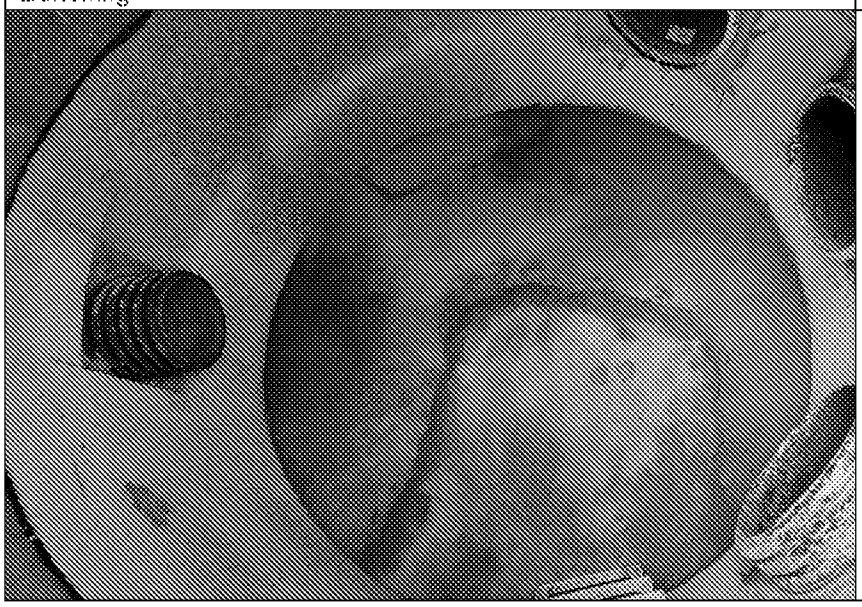
Post Construction

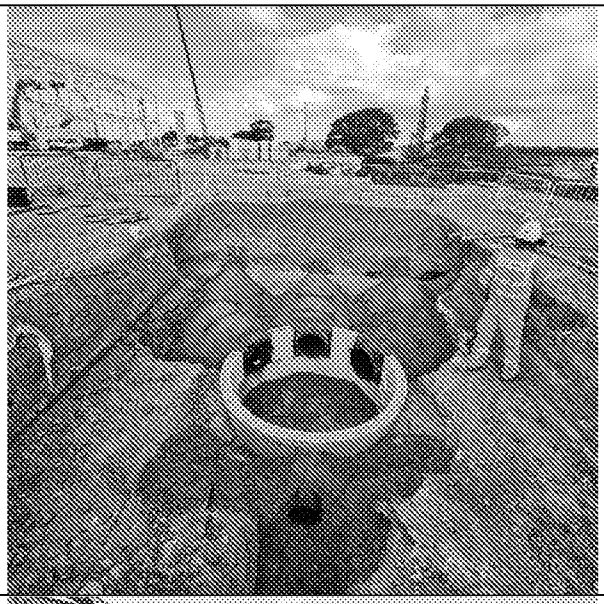
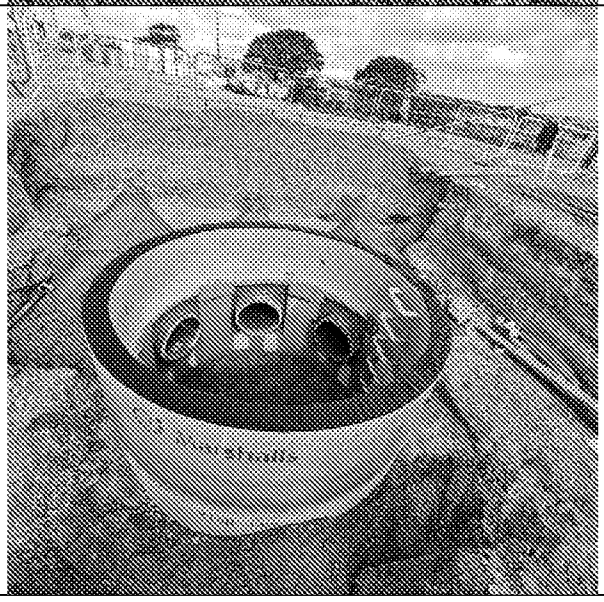
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

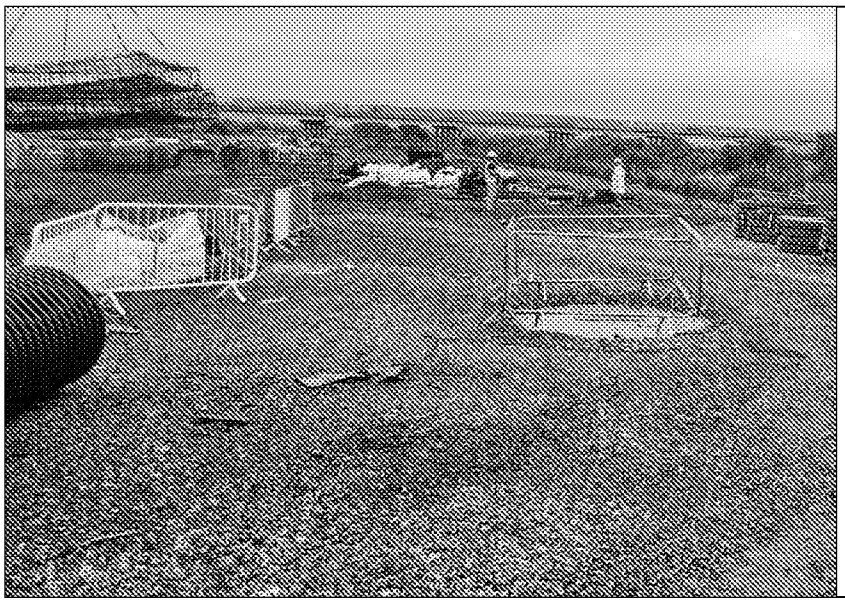
Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
26-09-2023		28-09-2023
Client Comments		

Other sign-off Signatures				
Signature	Name	Company	Date	Comments

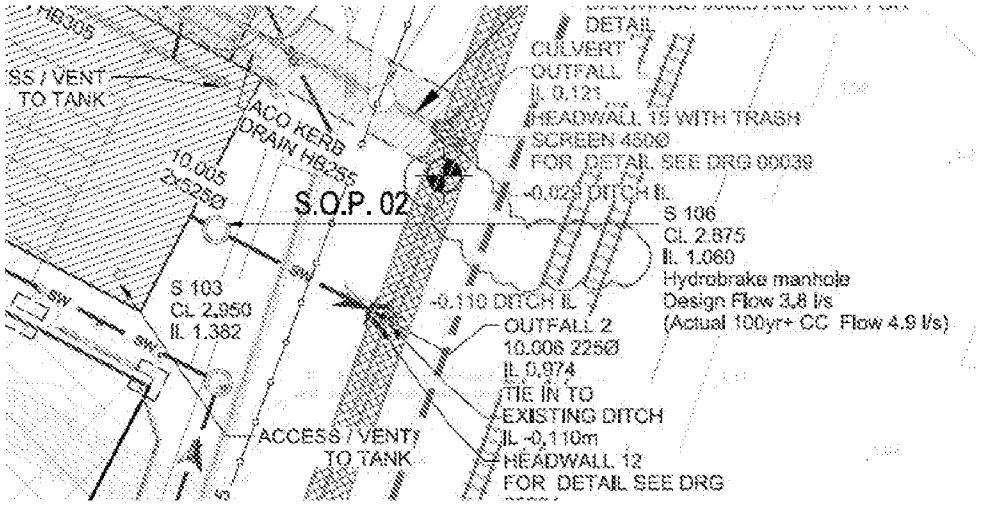
Excavation / Temporary Works Photos	Comments

Benching	Comments
	Hydrobrake to be installed.

Surround Photos	Comments
	
	



Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date	26-05-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Acad/Location	S203	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
1.010		

Concrete Level	Concrete Type	Comments
1.260	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1350mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	450mm	1.260	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	450mm	1.259	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
05-01-2024		29-11-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
D400	150	600*600	

IMPORTANT NOTE – The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

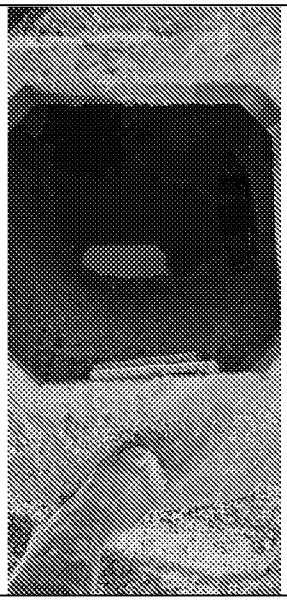
Final Testing	
Clean & Final Testing	Comments
Yes	

Post Construction		
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
16-01-2024		17-01-2024
Client Comments		

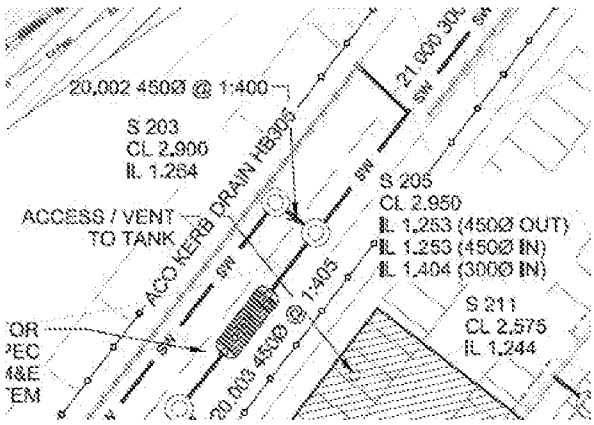
Other sign-off Signatures				
Signature	Name	Company	Date	Comments

Excavation / Temporary Works Photos	Comments

Benching	Comments
	

Surround Photos	Comments

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750I	Date:	07-10-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
As-built Ref:	S203 - S205	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
1.264	1.166	4.390	2.232

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
1.260	1.160	4.390	2.278

Comments

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround	Comments
Twinwall	450mm	GEN3	

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments

Type 1	Rammax	

Pipe Test (Results)	Comments
Pass	

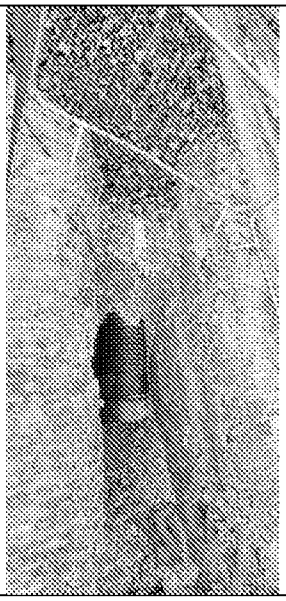
Post Construction	
i	**Ensure all completed items are protected from weather and third-party damage**
ii	**CCTV survey completed prior to any hard landscaping / floor construction over runs?**
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

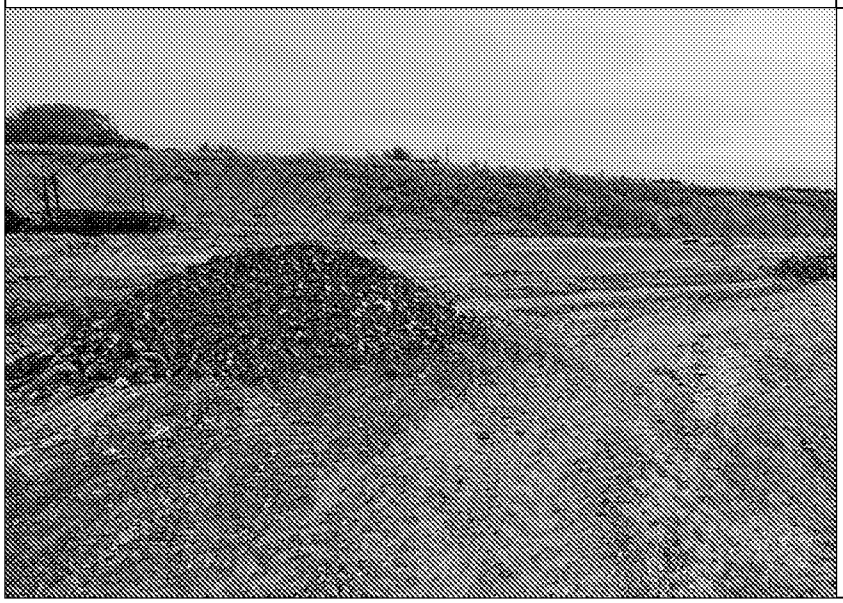
Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
07-10-2023		07-05-2024

Client Comments

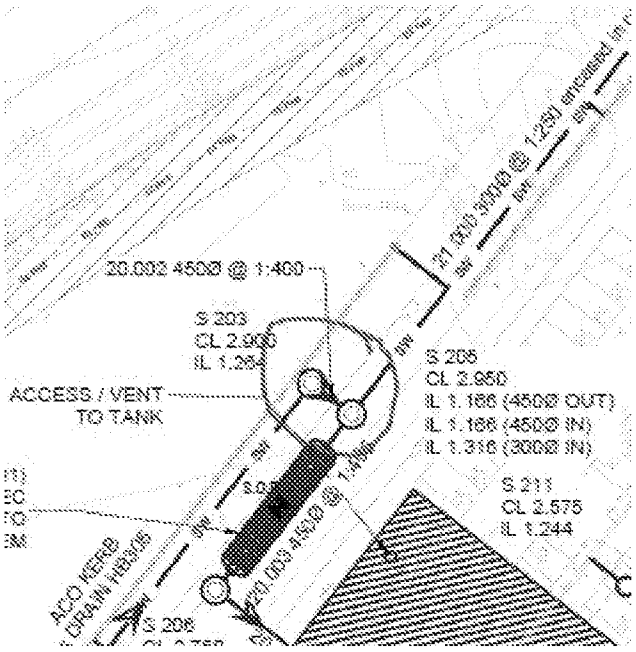
Other Sign-offs

Signature	Name	Company	Date	Comments

Attachments	
Pipe Photos	Comments
	

Backfill Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date	15-05-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Acad/Location	S204	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
1.363	N/A	

Concrete Level	Concrete Type	Comments
1.613	GEN 3	

Type	Size / Diameter	Comments
Precast Ring	1200mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	150mm	1.720	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	300mm	1.613	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
20-09-2023		20-09-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
D400	150	600*600	Cover downrated from F900

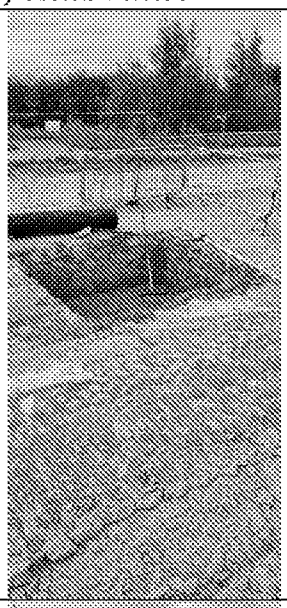
IMPORTANT NOTE – The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

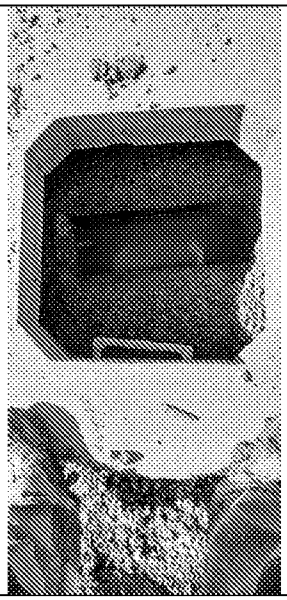
Final Testing	
Clean & Final Testing	Comments
Yes	

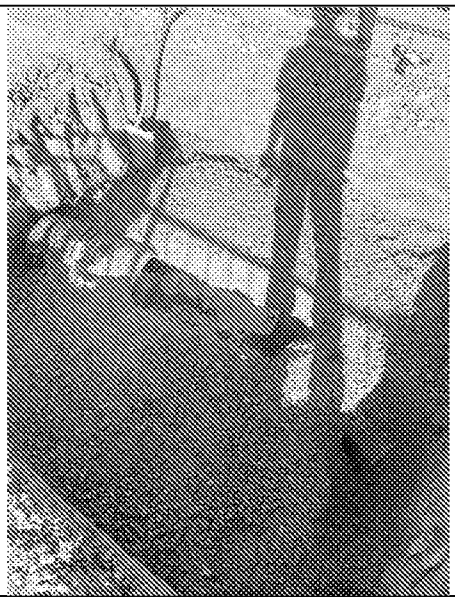
Post Construction		
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

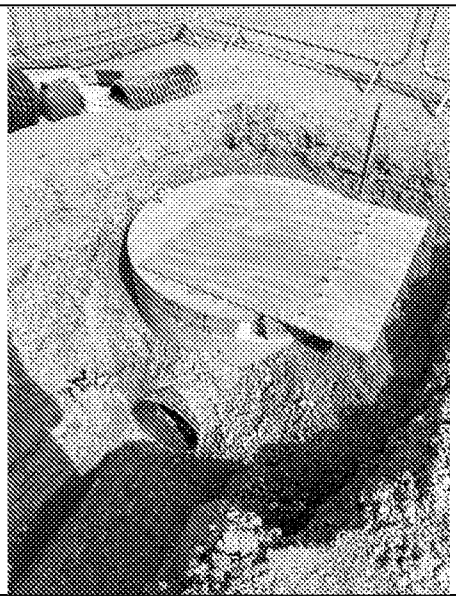
Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
08-11-2023		08-11-2023
Client Comments		

Other sign-off Signatures				
Signature	Name	Company	Date	Comments

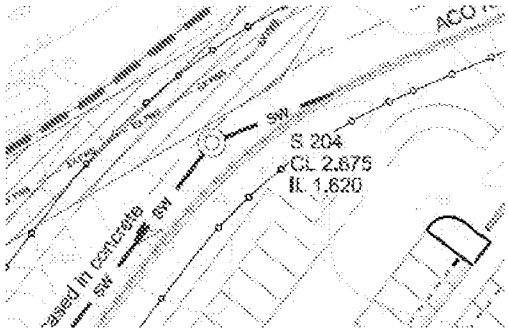
Excavation / Temporary Works Photos	Comments
	

Benching	Comments
	

Surround Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	16-05-2023
Inspected By:	George Mcgearty S204 to S205	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:		Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
1.620	1.166	53.778	0.844
1.264	1.166	3.000	3.267

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
1.613	1.160	53.778	0.842
1.259	1.161	3.267	3.000

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Twinwall	300mm	GEN3
Twinwall	450mm	GEN3

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments

Type 1	Rammax	

Pipe Test (Results)	Comments
Pass	

Client Comments

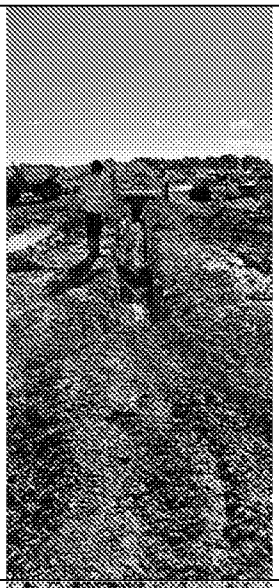
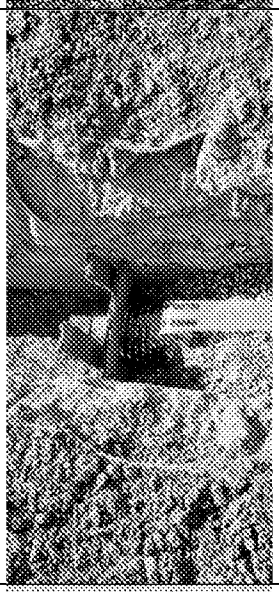
Post-Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

Sign-off		
Gallagher		Client
George Mcgearty		

Client Comments

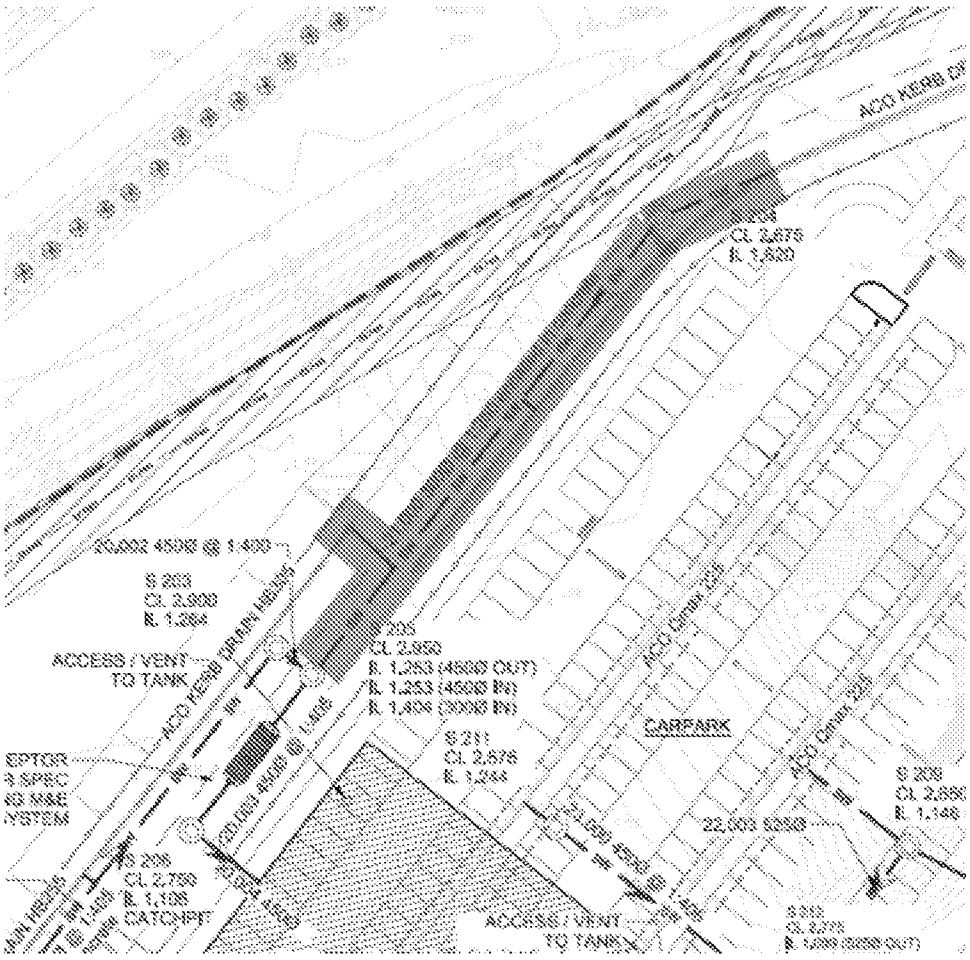
Other Sign-offs

Signature	Name	Company	Date	Comments
			29-11-2023	

Attachments	
Pipe Photos	Comments
	
	

Backfill Photos	Comments

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date	15-05-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location	S205	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
0.911	N/A	

Concrete Level	Concrete Type	Comments
1.161	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1350mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	300mm	1.315	
Twinwall	450mm	1.161	

Pipe Type	Pipe Diameter	Invert Level	Comments

Twinwall	450mm	1.160	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
28-11-2023		29-11-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments

D400	150	600*600	

IMPORTANT NOTE - The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway

Final Testing

Clean & Final Testing	Comments
Yes	

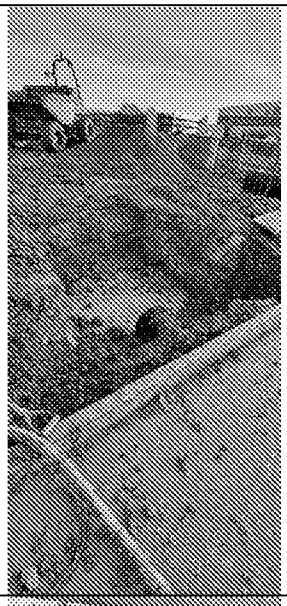
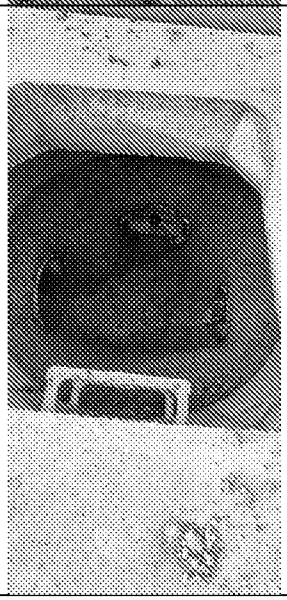
Post Construction

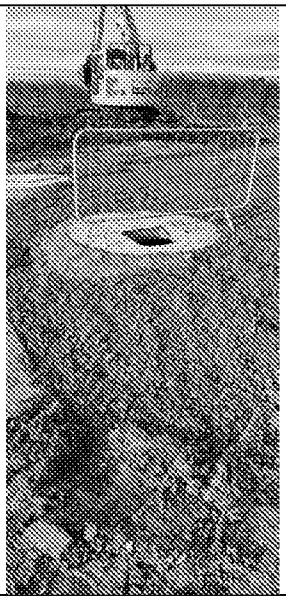
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
16-01-2024		17-01-2024
Client Comments		

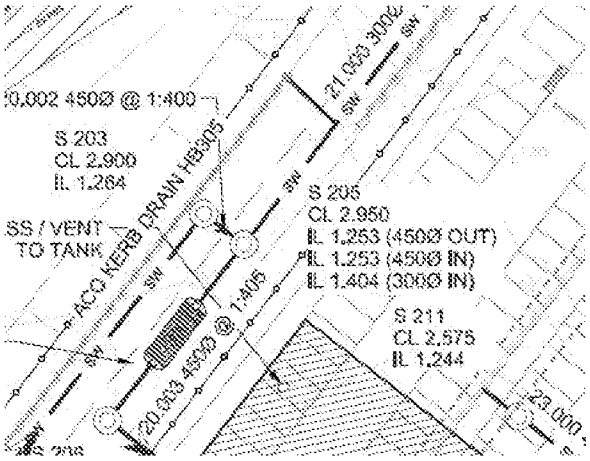
Other sign-off Signatures				
Signature	Name	Company	Date	Comments

Excavation / Temporary Works Photos	Comments

Benching	Comments
	
	

Surround Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #:	Project Number	Date:	15-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location	S206	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase	
Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
0.362	N/A	

Concrete Level	Concrete Type	Comments
0.612	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1350mm	

Manhole Installation			
Pipe Type	Pipe Diameter	Invert Level	Comments

Twinwall	450mm	1.064	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	450mm	1.062	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
11-09-2023		02-10-2023

Client Comments

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
F900	150	600*600	

IMPORTANT NOTE - The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

Final Testing

Clean & Final Testing	Comments
Yes	

Post-Construction

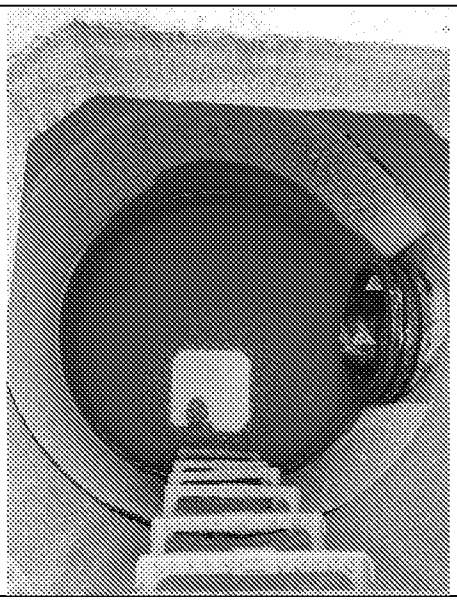
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

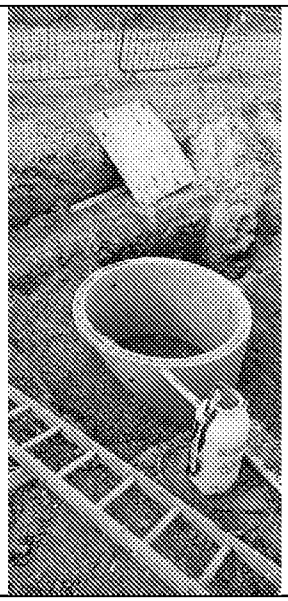
Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
03-10-2023		04-10-2023
Client Comments		

Other sign-off Signatures				
Signature	Name	Company	Date	Comments

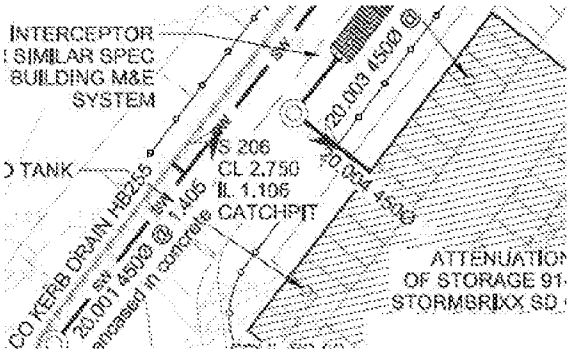
Excavation / Temporary Works Photos	Comments

Benching	Comments

	Inlet not yet installed - interceptor to be replaced

Surround Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	01-12-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule DES018526 AMAZON BOGNOR REGIS ATTENUATION TANK 1		
Area/Location:	S206 - Attenuation Tank	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
1.060	1.020	9.849	0.406

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
1.061	1.020	9.849	0.416

Comments

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround	Comments
Twinwall	450mm	GEN3	

Flexcell	Pipe Test (Results)	Comments

Yes	Pass	Test limited once connected to attenuation tank.

Backfill Material	Compaction Method	Comments
Type 1	Rammax	

Pipe Test (Results)	Comments
N/A	Connected to attenuation tank

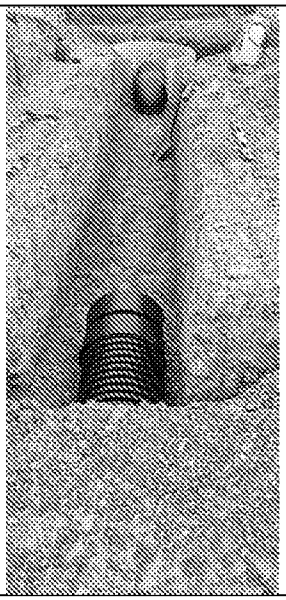
Post-Construction	
i	**Ensure all completed items are protected from weather and third-party damage**
ii	**CCTV survey completed prior to any hard landscaping / floor construction over runs?**
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
07-05-2024		07-05-2024

Client Comments

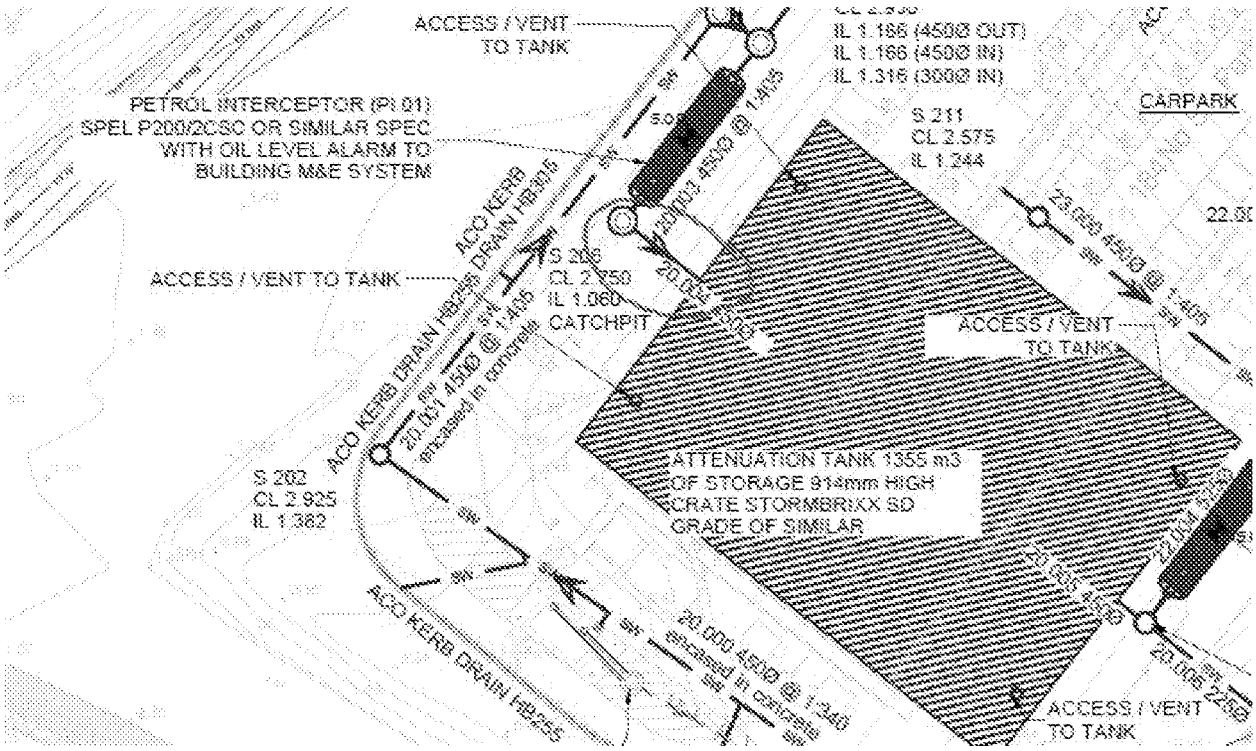
Other Sign-offs

Signature	Name	Company	Date	Comments

Attachments	
Pipe Photos	Comments
	

Backfill Photos	Comments

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date	15-05-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Acad/Location	S207	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
1.947	N/A	

Concrete Level	Concrete Type	Comments
2.172	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1200mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	150mm	2.180	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	300mm	2.172	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	
Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Roller	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
12-07-2023		12-07-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
D400	150	600*600	

IMPORTANT NOTE – The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

Final Testing	
Clean & Final Testing	Comments
Yes	

Post Construction		
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		James Dent
10-08-2023		10-08-2023
Client Comments		

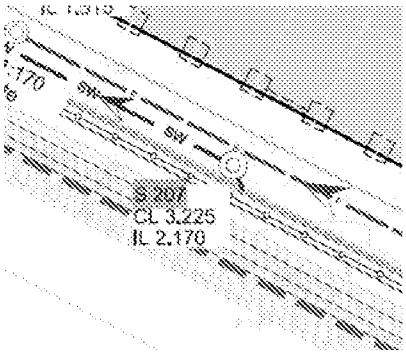
Other sign-off Signatures				
Signature	Name	Company	Date	Comments

Excavation / Temporary Works Photos	Comments

Benching	Comments

Surround Photos	Comments

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 30 - S207 to S208	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
2.170	1.625	102.004	0.534

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
2.172	1.594	103.000	0.561

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Twinwall	300mm	GEN3

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments

Type 1	Roller	

Pipe Test (Results)	Comments
Pass	

Client Comments

Path Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		James Dent
10-08-2023		10-08-2023

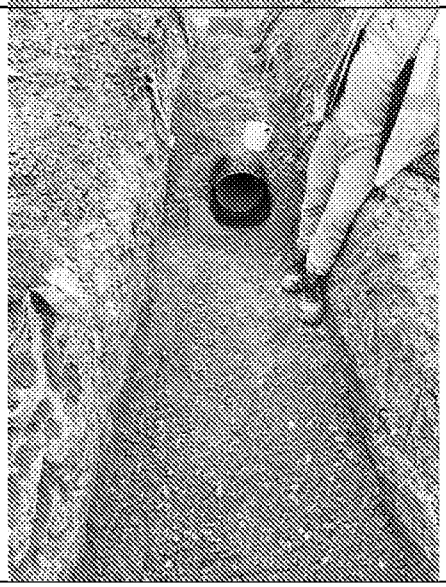
Client Comments

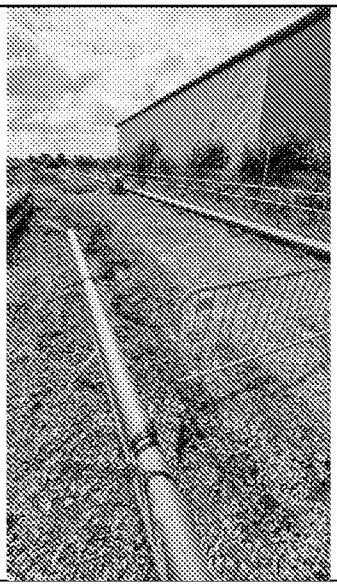
Other Sign-offs

Signature	Name	Company	Date	Comments
			10-08-2023	

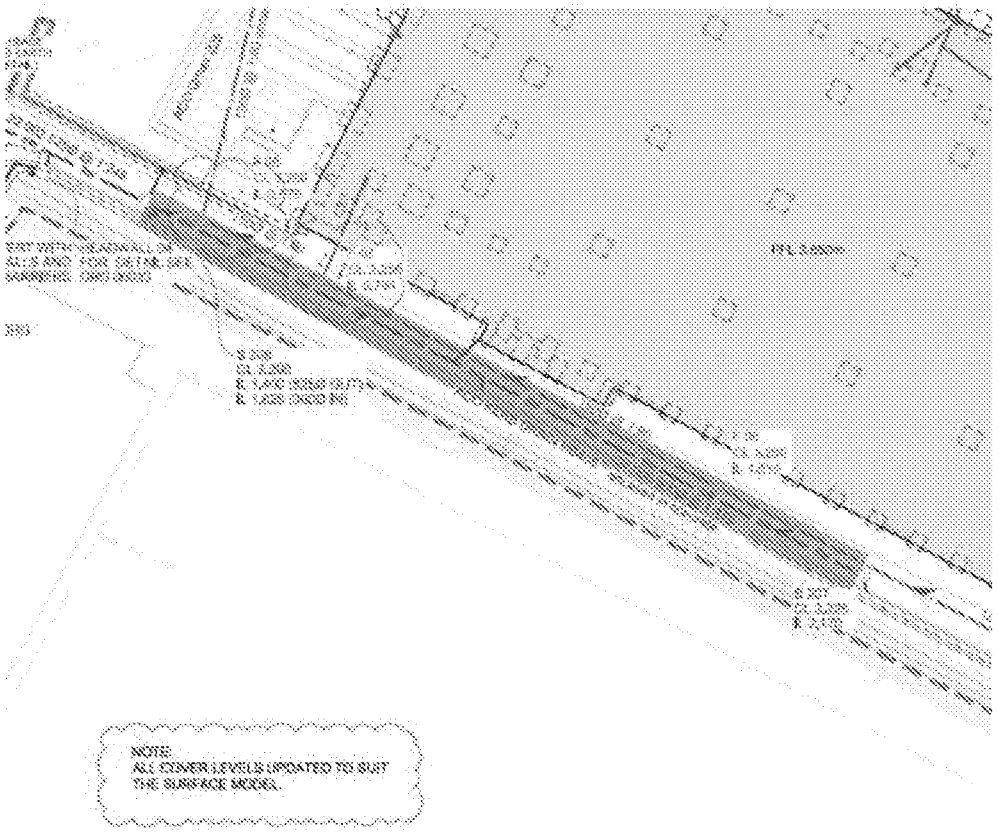
Attachments

Pipe Photos	Comments

Backfill Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Manholes

Gallagher

Project Title	Amazon Bognor Regis	Project #:	Project Number	Date:	15-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location	S208	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase	
Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
1.170	N/A	

Concrete Level	Concrete Type	Comments
1.415	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1500mm	

Manhole Installation			
Pipe Type	Pipe Diameter	Invert Level	Comments

Twinwall	300mm	1.594	
Twinwall	225mm	1.619	
Twinwall	150mm	2.250	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	600mm	1.420	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		

George Mcgearty		Bren Starbuck
24-08-2023		24-08-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
F900	150	600*600	

IMPORTANT NOTE - The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

Final Testing

Clean & Final Testing	Comments
Yes	

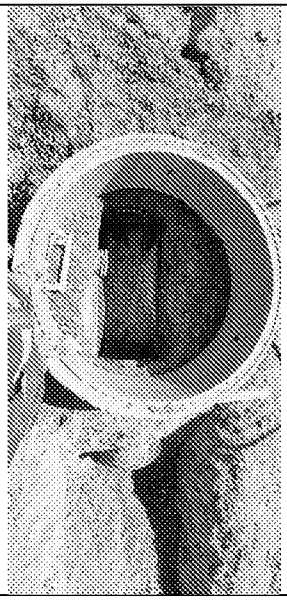
Post-Construction

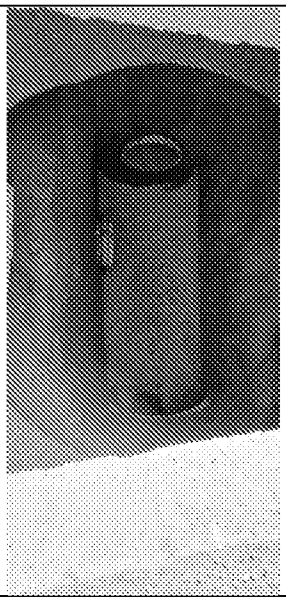
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

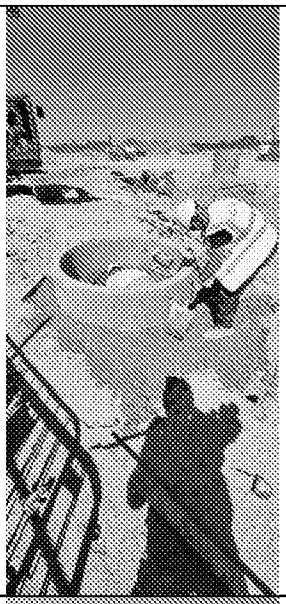
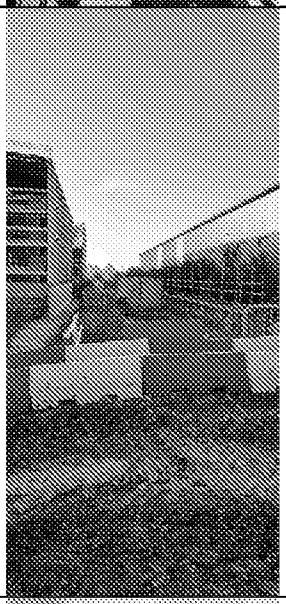
Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
06-09-2023		06-09-2023
Client Comments		

Other sign-off Signatures				
Signature	Name	Company	Date	Comments

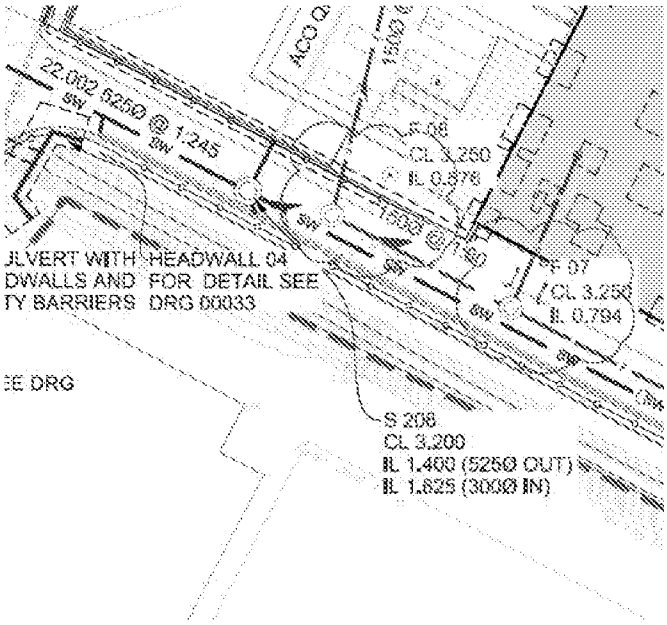
Excavation / Temporary Works Photos	Comments

Benching	Comments
	Work in progress - Benching

Surround Photos	Comments
	
	

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 22 - S208 to S209	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
1.400	1.146	48.629	0.522

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
1.420	1.165	49.578	0.514

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Twinwall	600mm	20mm Shingle

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments

Type 1	Rammax	

Pipe Test (Results)	Comments
Pass	

Client Comments

Path Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

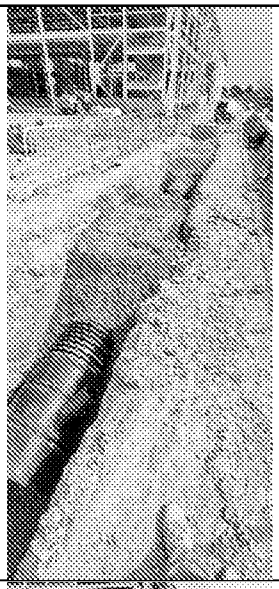
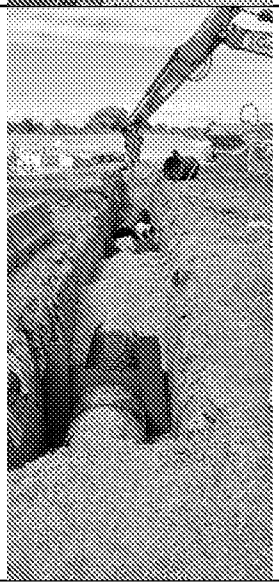
Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
30-08-2023		04-09-2023

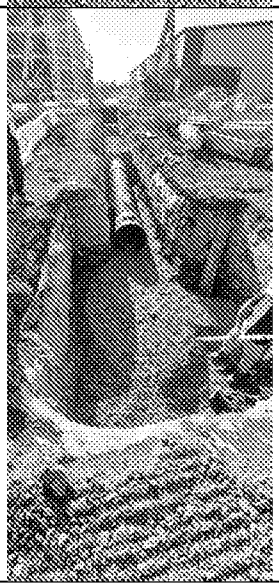
Client Comments

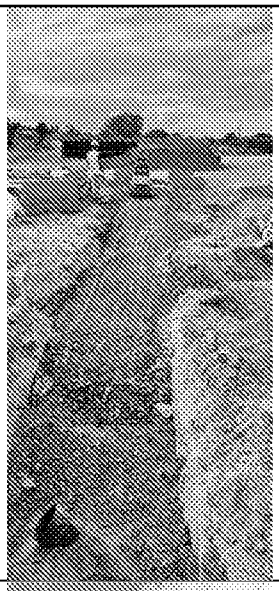
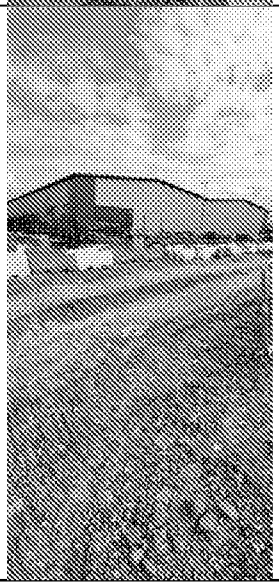
Other Sign-offs

Signature	Name	Company	Date	Comments
			30-08-2023	

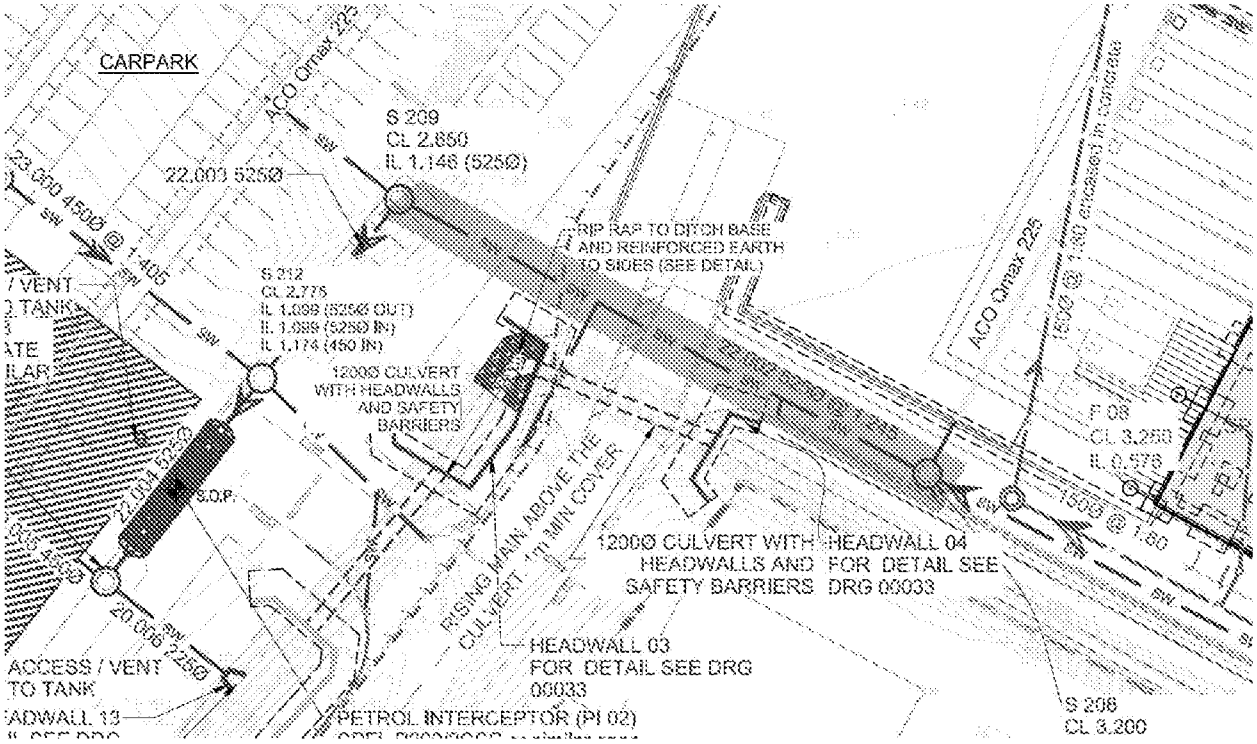
Attachments

Pipe Photos	Comments
	
	

Backfill Photos	Comments
	
	

Marked-up Drawing



QA Check Sheet – Manholes

Gallagher

Project Title	Amazon Bognor Regis	Project #:	Project Number	Date:	15-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location	S209	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase	
Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
0.892	N/A	

Concrete Level	Concrete Type	Comments
1.142	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1500mm	

Manhole Installation			
Pipe Type	Pipe Diameter	Invert Level	Comments

Twinwall	450mm	1.174	
Twinwall	600mm	1.165	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	600mm	1.142	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Roller	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
30-08-2023		04-09-2023

Client Comments

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
D400	150	600*600	

IMPORTANT NOTE - The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

Final Testing

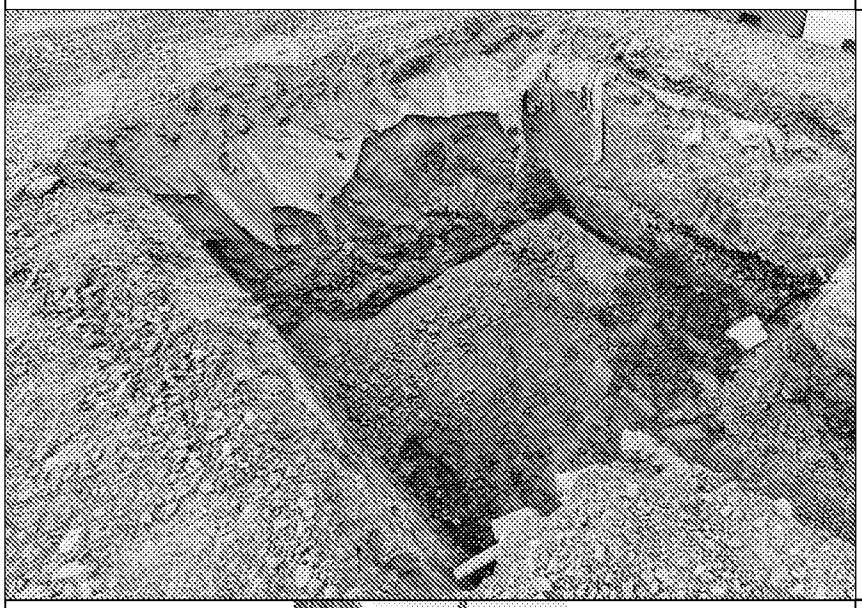
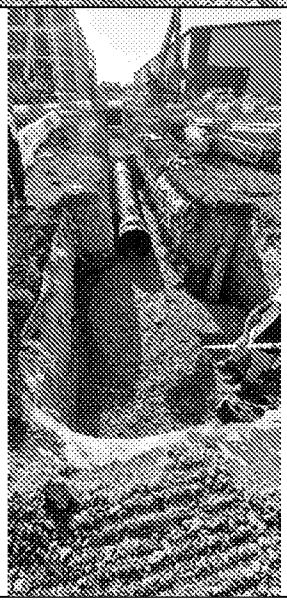
Clean & Final Testing	Comments
Yes	

Post-Construction

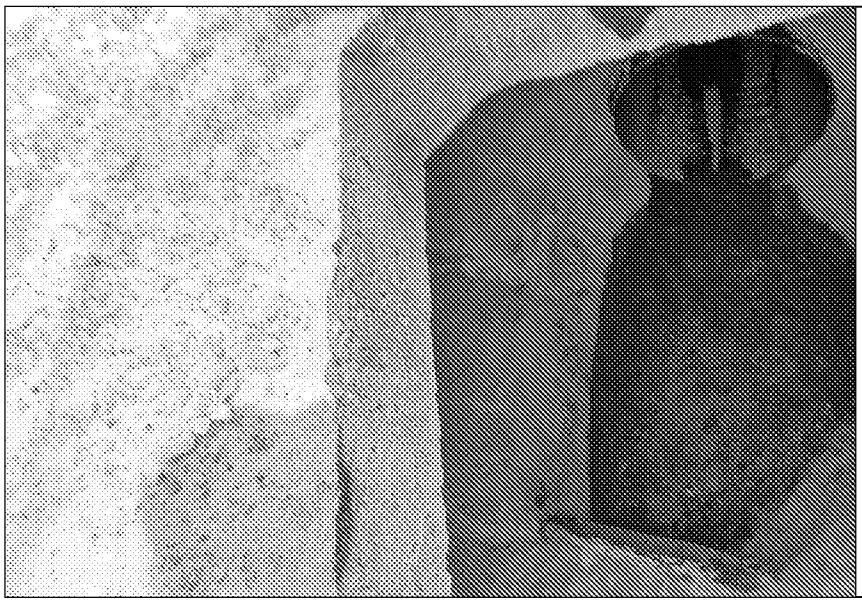
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

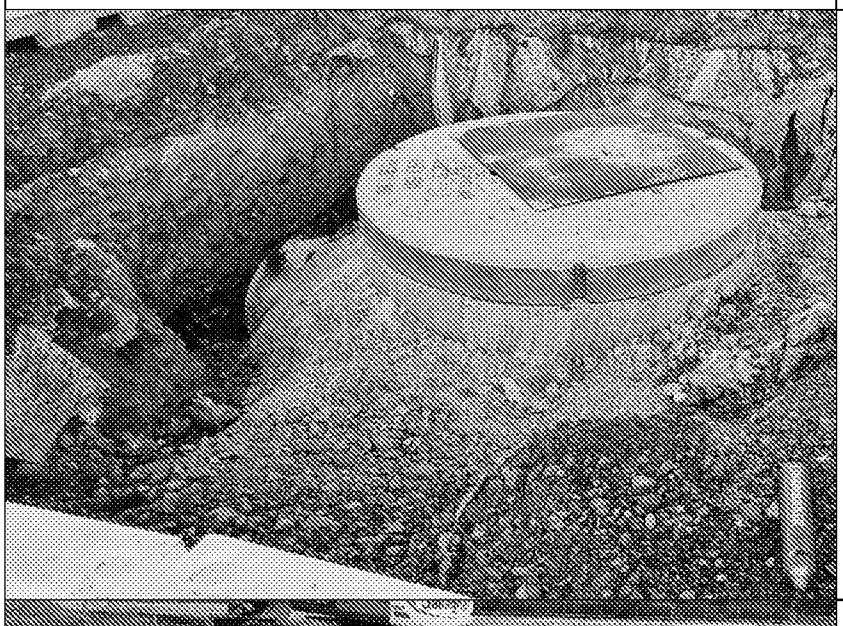
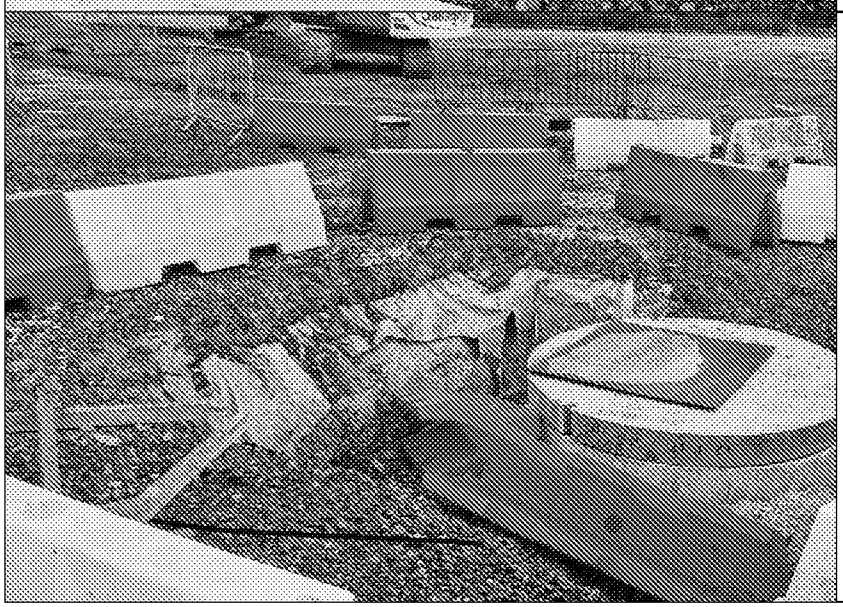
Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
06-09-2023		20-09-2023
Client Comments		

Other sign-off Signatures				
Signature	Name	Company	Date	Comments

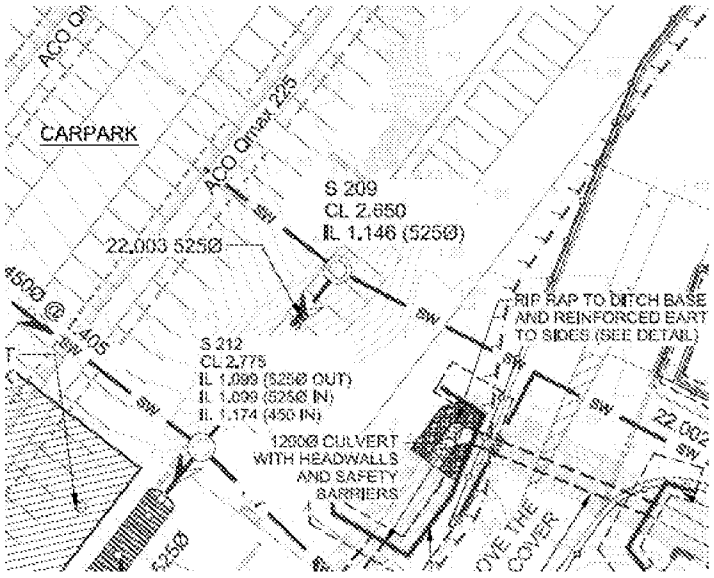
Excavation / Temporary Works Photos	Comments
	
	

Benching	Comments



Surround Photos	Comments
	
	

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 19 - S209 to S212	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
1.146	1.099	16.952	0.277

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
1.142	1.097	16.952	0.265

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Twinwall	600mm	GEN3

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments

Type 1	Rammax	

Pipe Test (Results)	Comments
Pass	

Client Comments

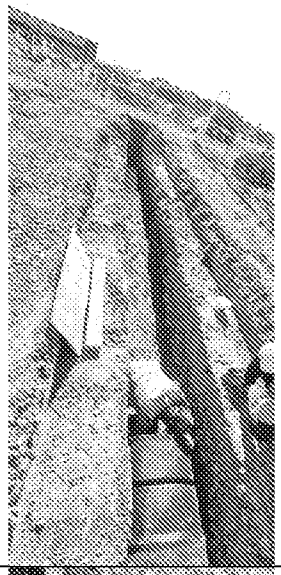
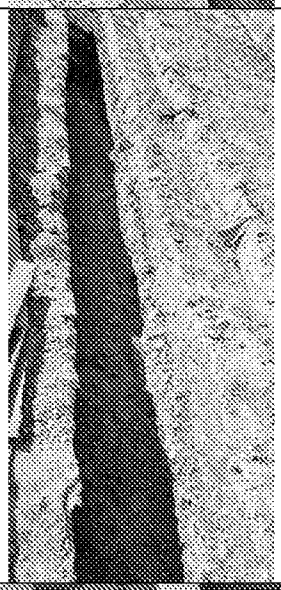
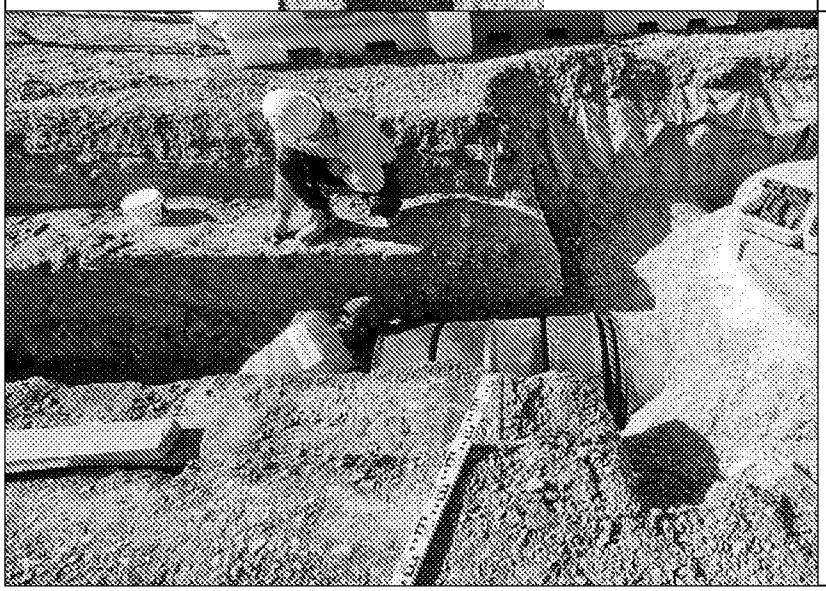
Post-Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
20-09-2023		20-09-2023

Client Comments

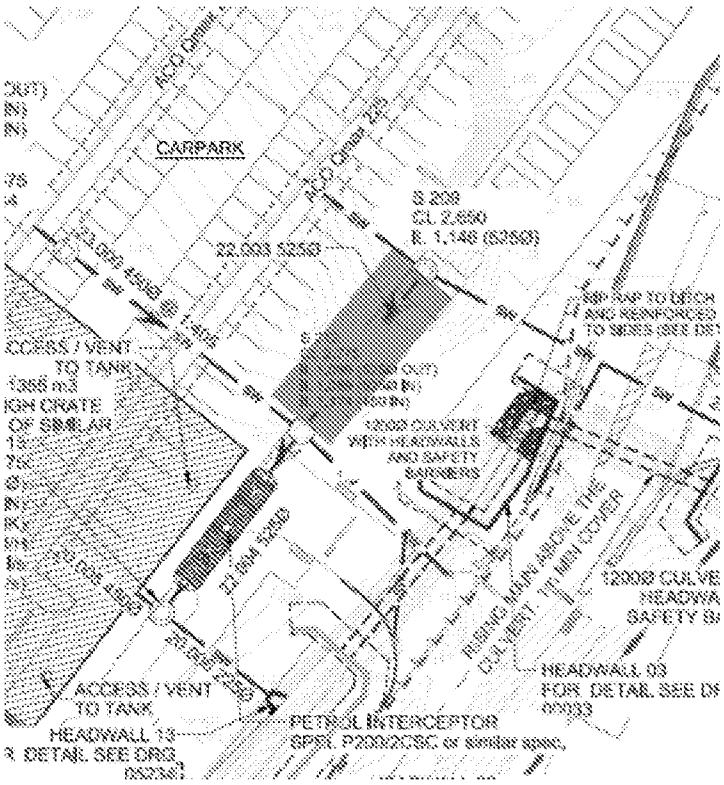
Other Sign-offs

Signature	Name	Company	Date	Comments
			20-09-2023	

Attachments	
Pipe Photos	Comments
	
	
	

Backfill Photos	Comments

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date:	15-05-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location	S211	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
0.977	N/A	

Concrete Level	Concrete Type	Comments
1.227	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1350mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments

Twinwall	450mm	1.230	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	450mm	1.227	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
20-09-2023		16-10-2023

Client Comments

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
D400	150	600*600	

IMPORTANT NOTE - The full size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

Final Testing

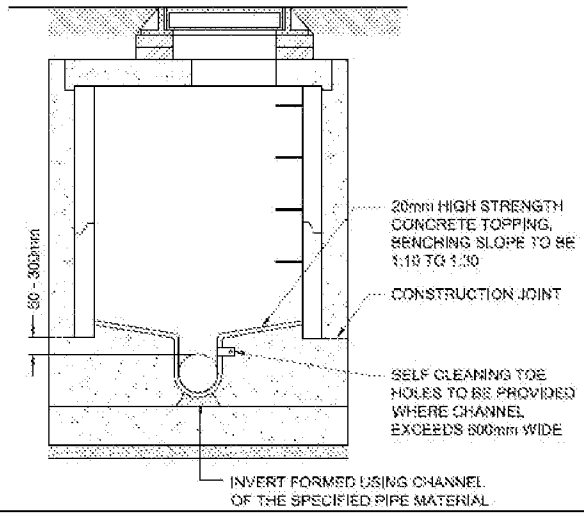
Clean & Final Testing	Comments
Yes	

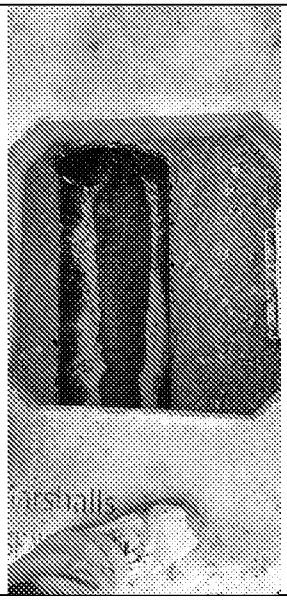
Post-Construction

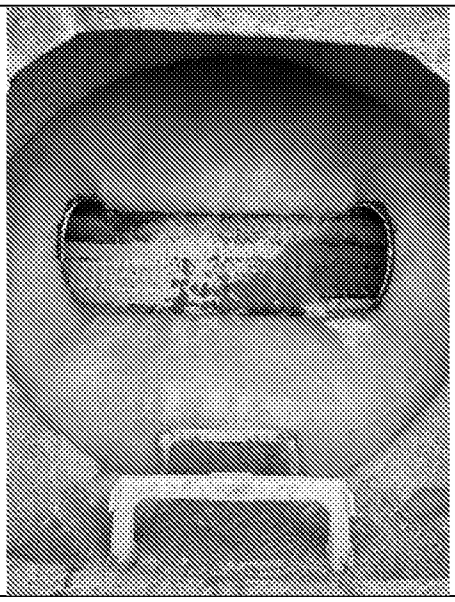
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
16-10-2023		17-10-2023
Client Comments		

Other sign-off Signatures				
Signature	Name	Company	Date	Comments

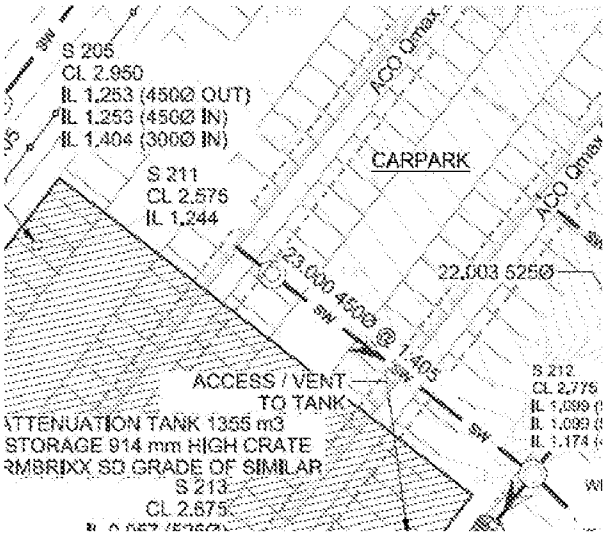
Excavation / Temporary Works Photos	Comments
	

Benching	Comments
	

Surround Photos	Comments

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 20 - S211 to S212	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
1.244	1.174	25.988	0.269

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
1.227	1.170	25.988	0.219

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Twinwall	450mm	GEN3

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments

Type 1	Roller	

Pipe Test (Results)	Comments
Pass	

Client Comments

Post-Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

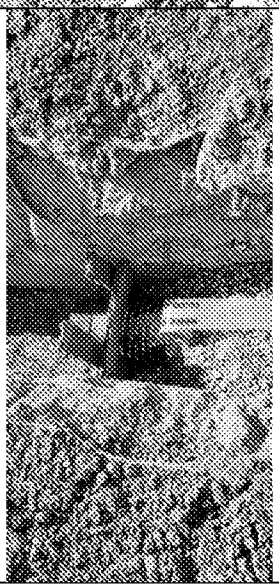
Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
10-10-2023		10-10-2023

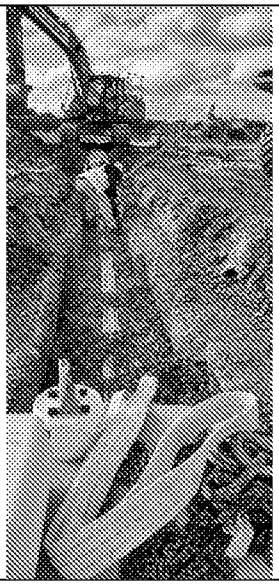
Client Comments

Other Sign-offs

Signature	Name	Company	Date	Comments

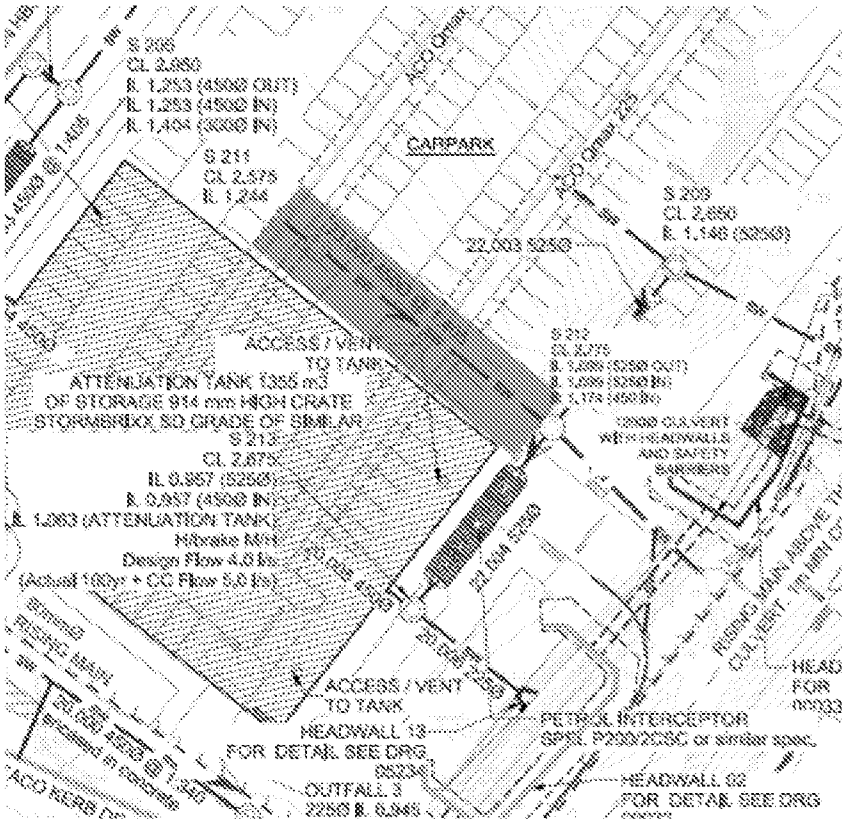
Attachments

Pipe Photos	Comments
	

Backfill Photos	Comments

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date:	15-05-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location	S212	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
0.847	N/A	

Concrete Level	Concrete Type	Comments
1.097	GEN 3	

Type	Size / Diameter	Comments
Precast Ring	1500mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments

Twinwall	600mm	1.099	
Twinwall	450mm	1.170	
Twinwall	150mm	1.587	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	600mm	1.097	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck

20-09-2023		20-09-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
D400	150	600*600	

IMPORTANT NOTE - The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

Final Testing

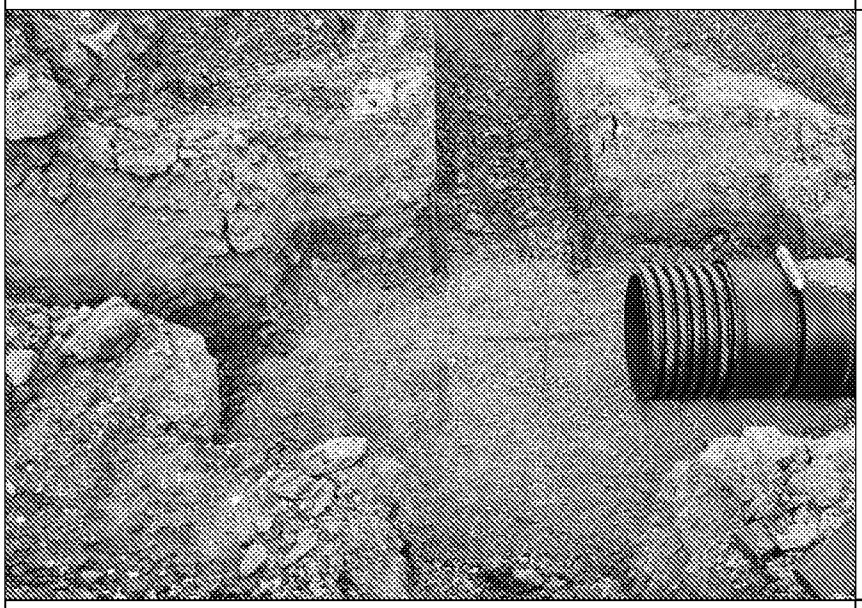
Clean & Final Testing	Comments
Yes	

Post-Construction

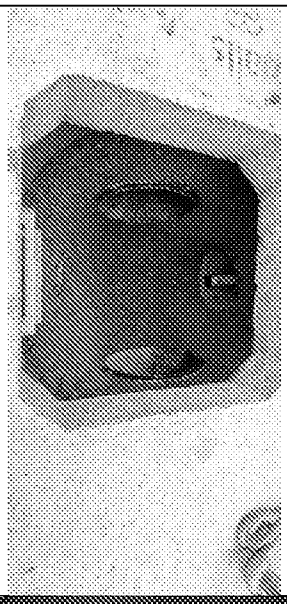
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

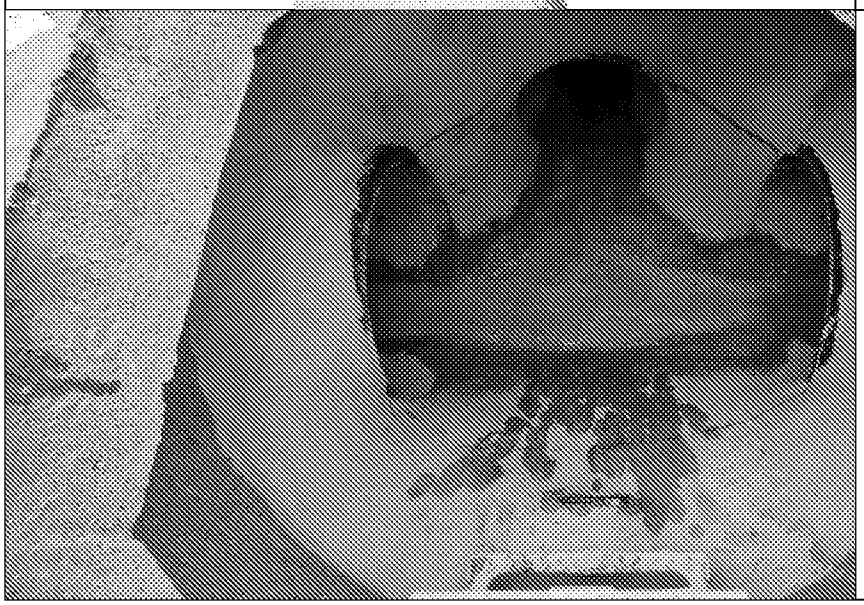
Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
04-10-2023		16-10-2023
Client Comments		

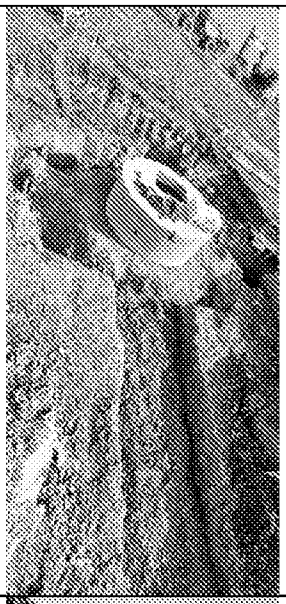
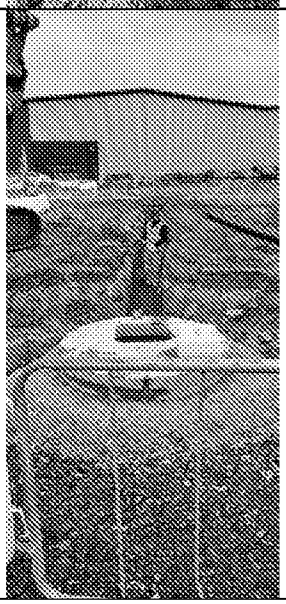
Other sign-off Signatures				
Signature	Name	Company	Date	Comments

Excavation / Temporary Works Photos	Comments
	

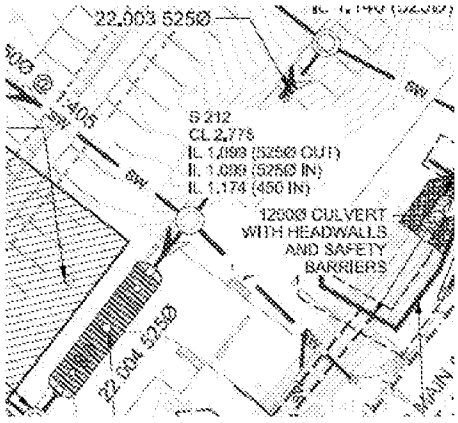
Benching	Comments





Surround Photos	Comments
	
	

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date	15-05-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location	S213	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
0.190	N/A	

Concrete Level	Concrete Type	Comments
0.440	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1500mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	450mm	0.972	
Twinwall	600mm	0.890	

Pipe Type	Pipe Diameter	Invert Level	Comments

Twinwall	225mm	0.890	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
13-10-2023		16-10-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments

D400	150	600*600	

IMPORTANT NOTE - The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway

Final Testing

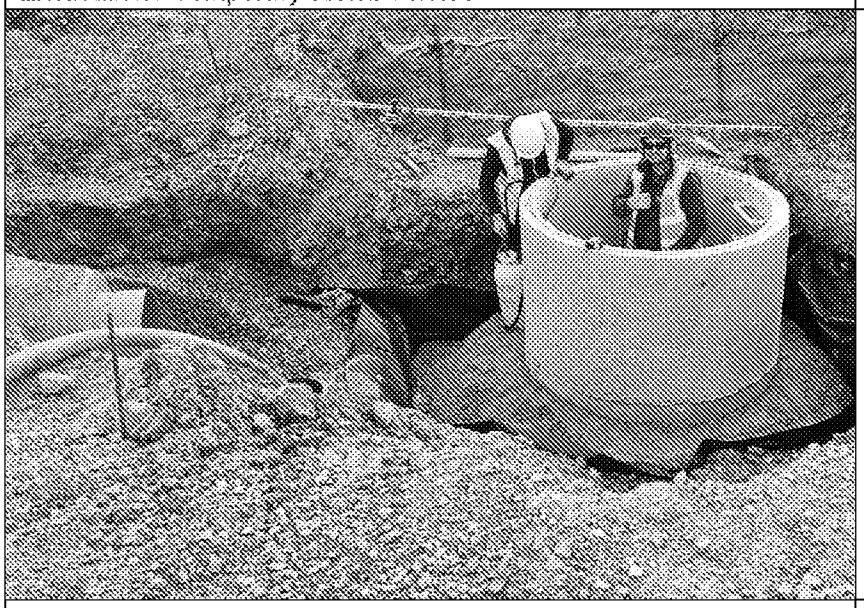
Clean & Final Testing	Comments
Yes	

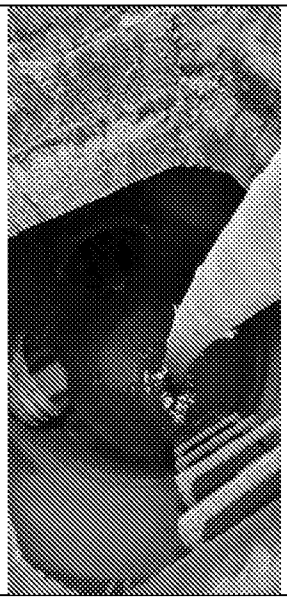
Post Construction

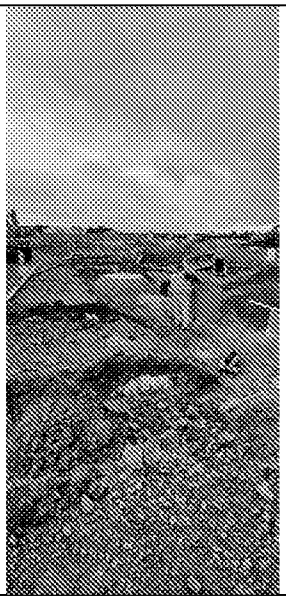
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
15-11-2023		17-11-2023
Client Comments		

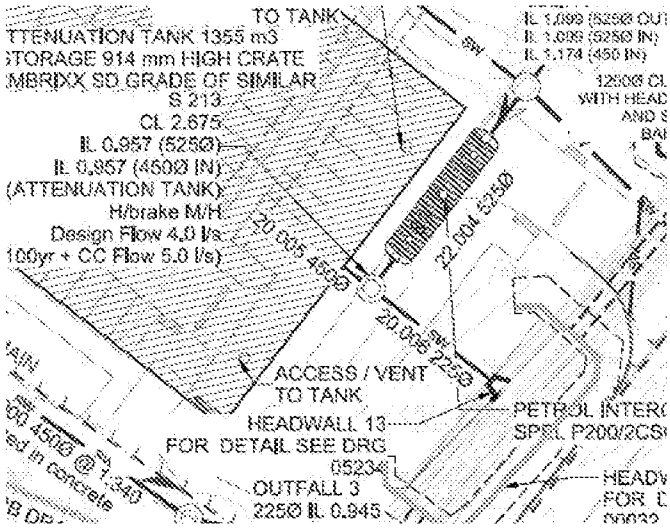
Other sign-off Signatures				
Signature	Name	Company	Date	Comments

Excavation / Temporary Works Photos	Comments
	

Benching	Comments
	Hydrobrake to be added

Surround Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750I	Date:	07-05-2024
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Attenuation Tank to S213	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
1.020	0.972	5.748	0.835

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
1.019	0.972	5.748	0.818

Comments

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround	Comments
Twinwall	450mm	GEN3	

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments

Type 1	Rammax	

Pipe Test (Results)	Comments
N/A	Connected to attenuation tank

Post Construction	
i	**Ensure all completed items are protected from weather and third-party damage**
ii	**CCTV survey completed prior to any hard landscaping / floor construction over runs?**
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

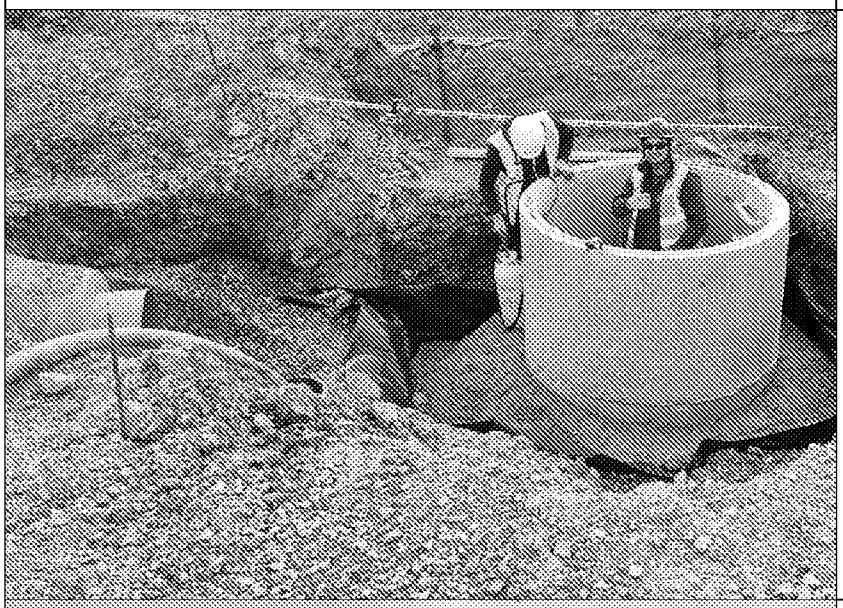
Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Brendan Starbuck
01-12-2023		01-12-2023

Client Comments

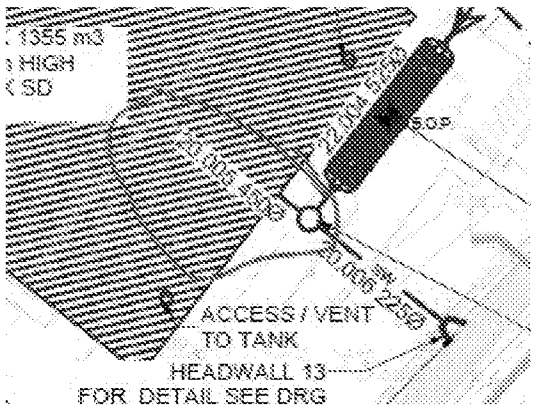
Other Sign-offs

Signature	Name	Company	Date	Comments

Attachments	
Pipe Photos	Comments

Backfill Photos	Comments
	S213
	Attenuation tank backfilled with Type 1

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750I	Date:	27-07-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 78 - S215 to S214	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
2.112	1.748	88.800	0.410

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
2.101	1.752	88.617	0.394

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Twinwall	300mm	GEN3
Twinwall	150mm	GEN3

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments
Type 1	Roller	

Pipe Test (Results)	Comments
Pass	

Client Comments

Post Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

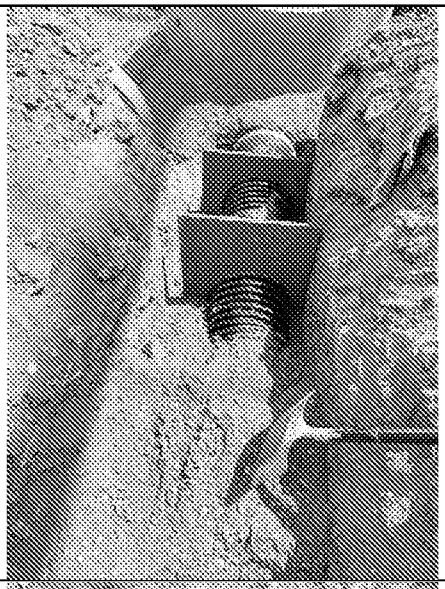
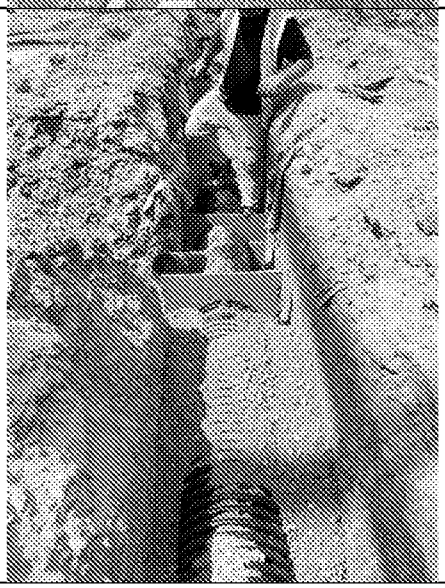
Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
30-08-2023		04-09-2023

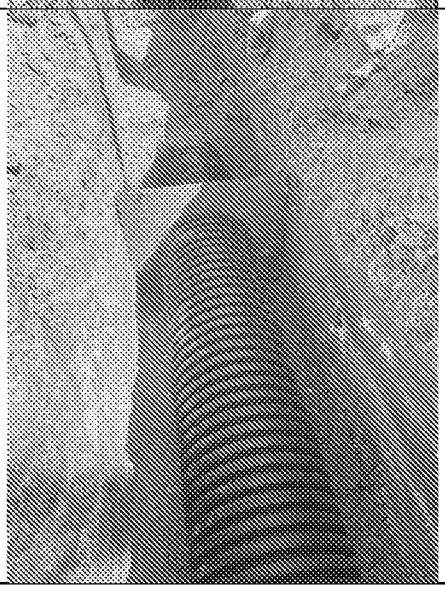
Client Comments

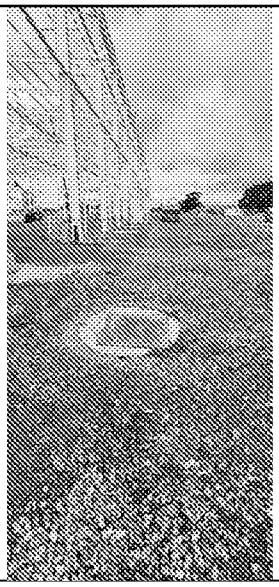
Other Sign-offs

Signature	Name	Company	Date	Comments
			30-08-2023	

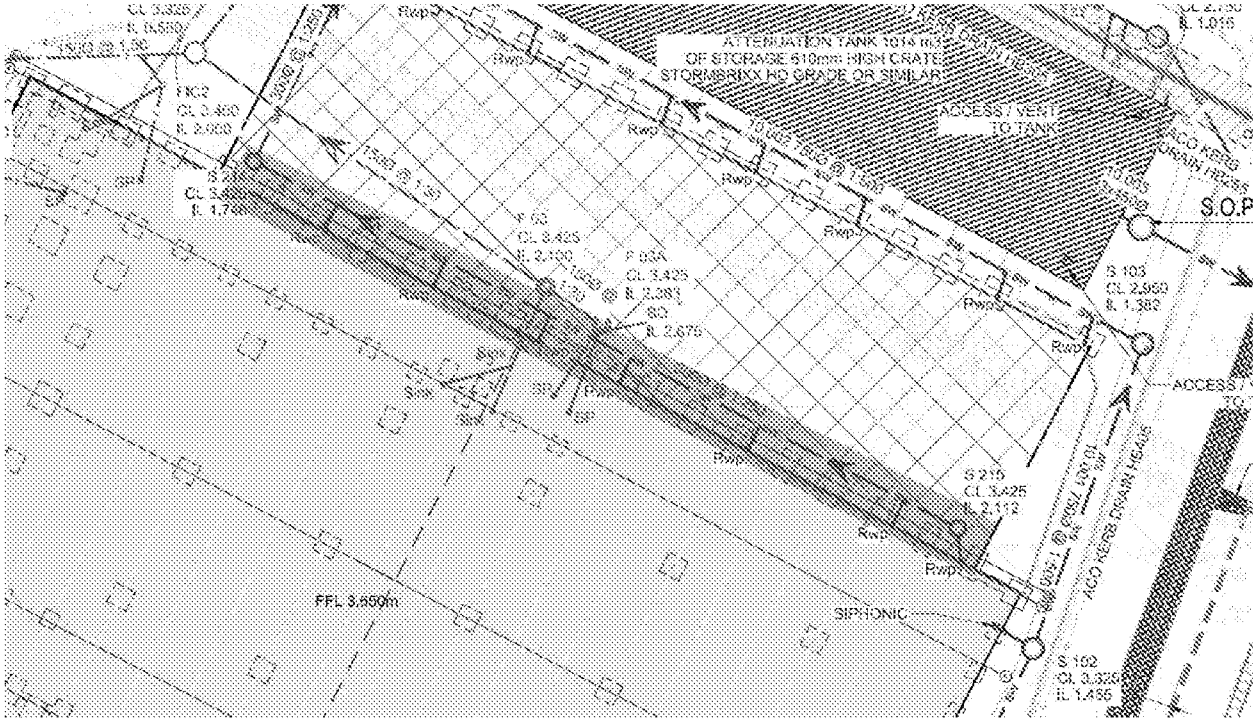
Attachments

Pipe Photos	Comments
	
	

Backfill Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date:	04-08-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location	S214	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
1.515	N/A	

Concrete Level	Concrete Type	Comments
1.740	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1200mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments

Twinwall	300mm	1.744	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	300mm	1.752	

Benching (If Applicable)	Comments
Yes	

Surrounds

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Roller	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		James Dent
30-08-2023		30-08-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
F900	150	600*600	

IMPORTANT NOTE - The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

Final Testing

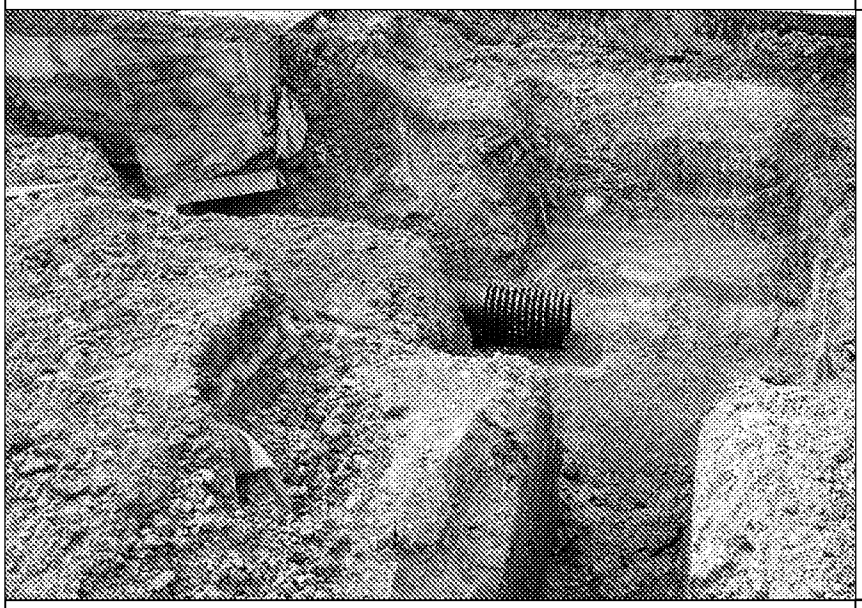
Clean & Final Testing	Comments
Yes	

Post-Construction

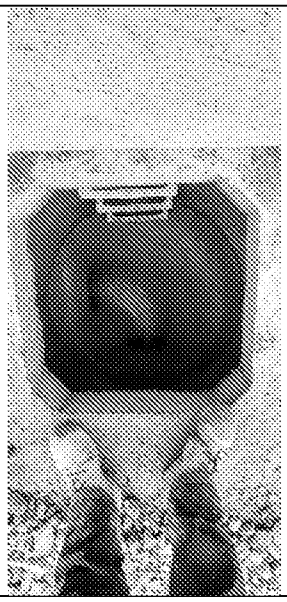
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

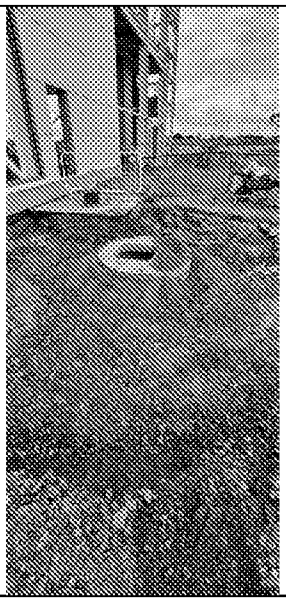
Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
06-09-2023		06-09-2023
Client Comments		

Other sign-off Signatures				
Signature	Name	Company	Date	Comments

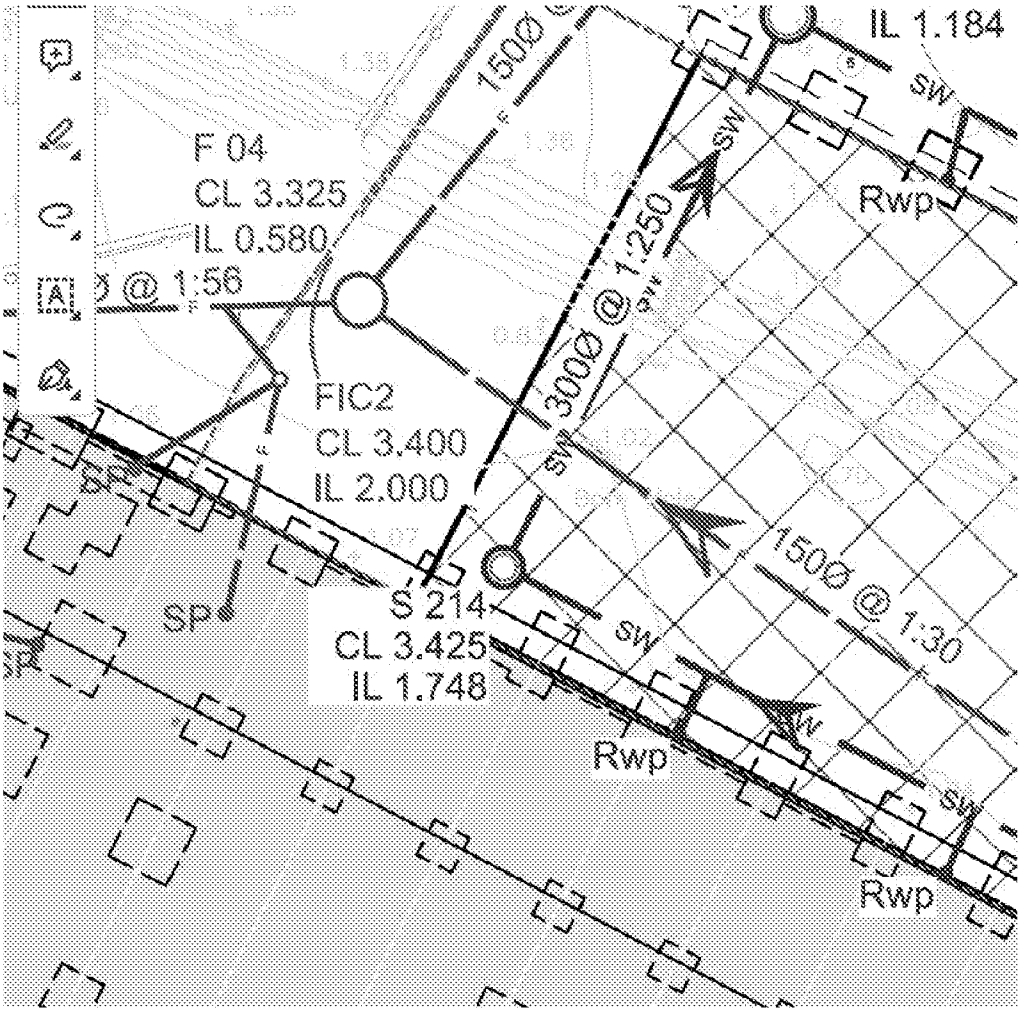
Excavation / Temporary Works Photos	Comments
	

Benching	Comments

Surround Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Manholes

Project Title:	Amazon Bognor Regis	Project #:	Project Number	Date:	19-07-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Accreditation:	S215	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
1.876	N/A	

Concrete Level	Concrete Type	Comments
2.109	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1200mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments

Twinwall	150mm	2.209	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	300mm	2.109	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Roller	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		James Dent
24-07-2023		10-08-2023

Client Comments

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
F900	150	600*600	

IMPORTANT NOTE – The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

Final Testing

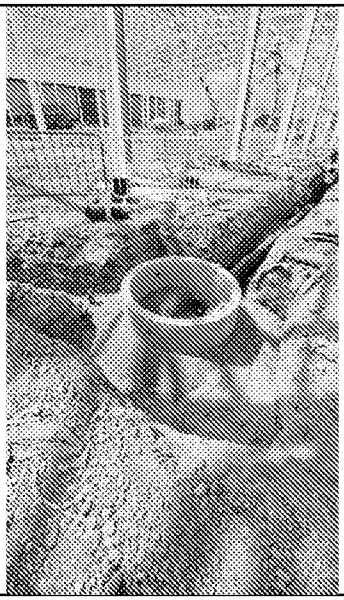
Clean & Final Testing	Comments
Yes	

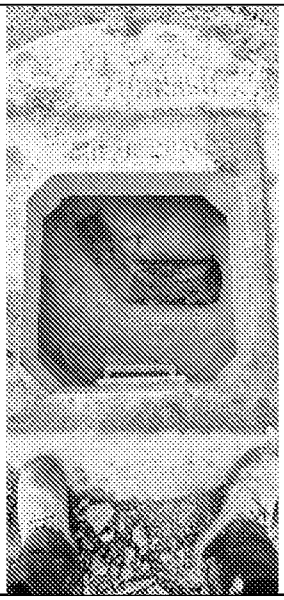
Post-Construction

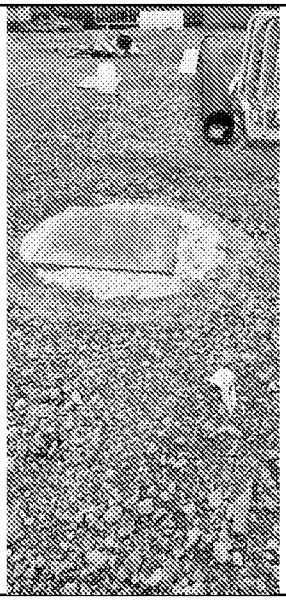
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

Final Sign-offs		
Gallagher		Client
George Mcgearty		James Dent
10-08-2023		10-08-2023
Client Comments		

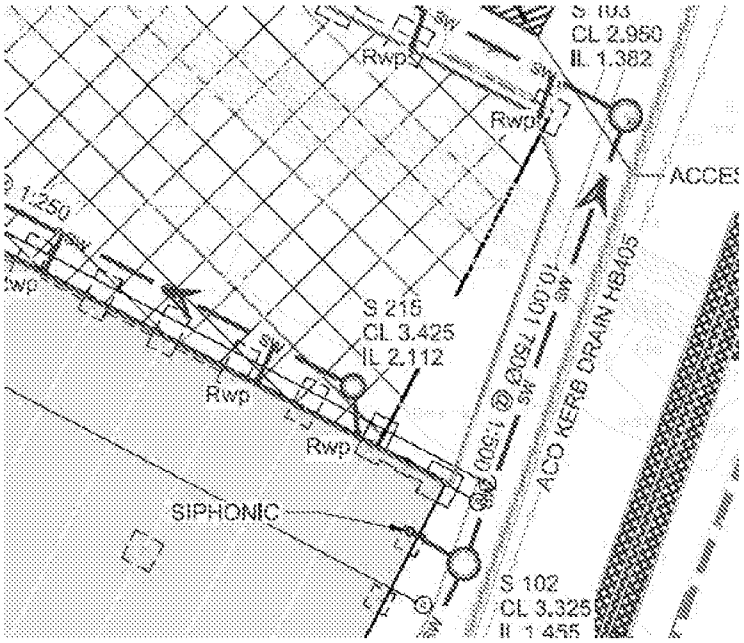
Other sign-off Signatures				
Signature	Name	Company	Date	Comments

Excavation / Temporary Works Photos	Comments
	

Benching	Comments
	

Surround Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Attenuation Tank

Project Title:	Amazon Bognor Regis	Project #:	750I	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule DES018526 AMAZON BOGNOR REGIS ATTENUATION TANK 1		
Area/Location:	Attenuation Tank 1	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.
b) Check all relevant designs/drawings are approved and operatives working to latest revisions.
c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.
d) Brief all concrete operatives on the required finish, as per the agreed benchmarks (if applicable)

Construction Phase	
Setting Out - Line and Level	Yes
Temporary Works	No

Formation Level	Shingle Level	Shingle Size	Shingle Depth (mm)
0.940	1.040	20mm	100

[redacted]

Client Comments

Bren Starbuck	
29-06-2023	

	Comments

Hold Point ⇒ Proceed with Tank Installation

Type	Laps (mm)	Jointed	Comments
Polyproplylene GTX-N	150	Yes	

Tank System Approved	Comments
Yes	

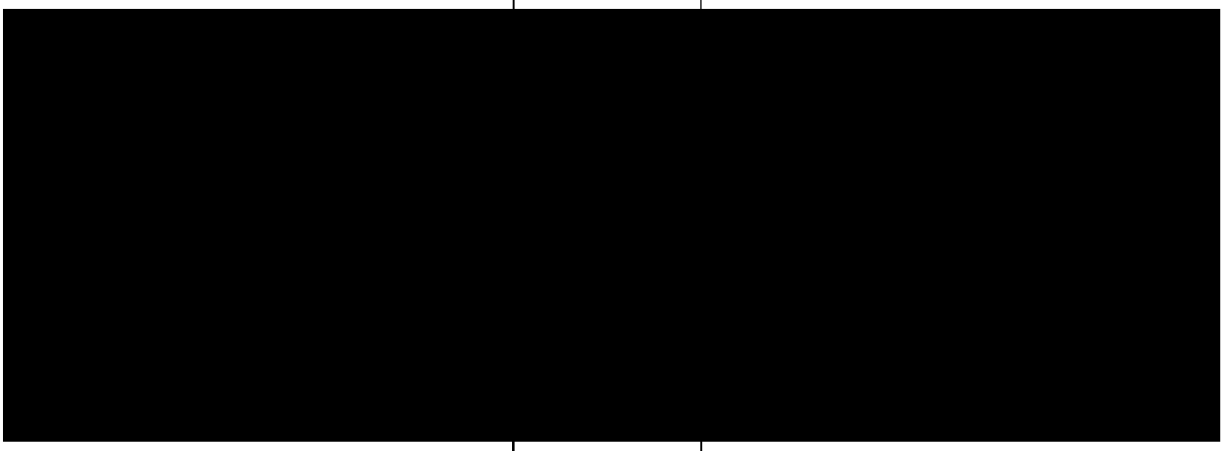
Type	Pipe Diameter (mm)	Invert Level	Comments
Twinwall	450mm	1.123	
Twinwall	450mm	1.128	
Twinwall	450mm	1.140	

Hold Point ⇒ Proceed with Backfill / Reinstatement

Tank Surround	Backfill Material	Comments
20mm Shingle	Type 1	

Post-Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).
iii	Attach a copy of the marked drawing to this check sheet

Sign-off		
Gallagher		Client



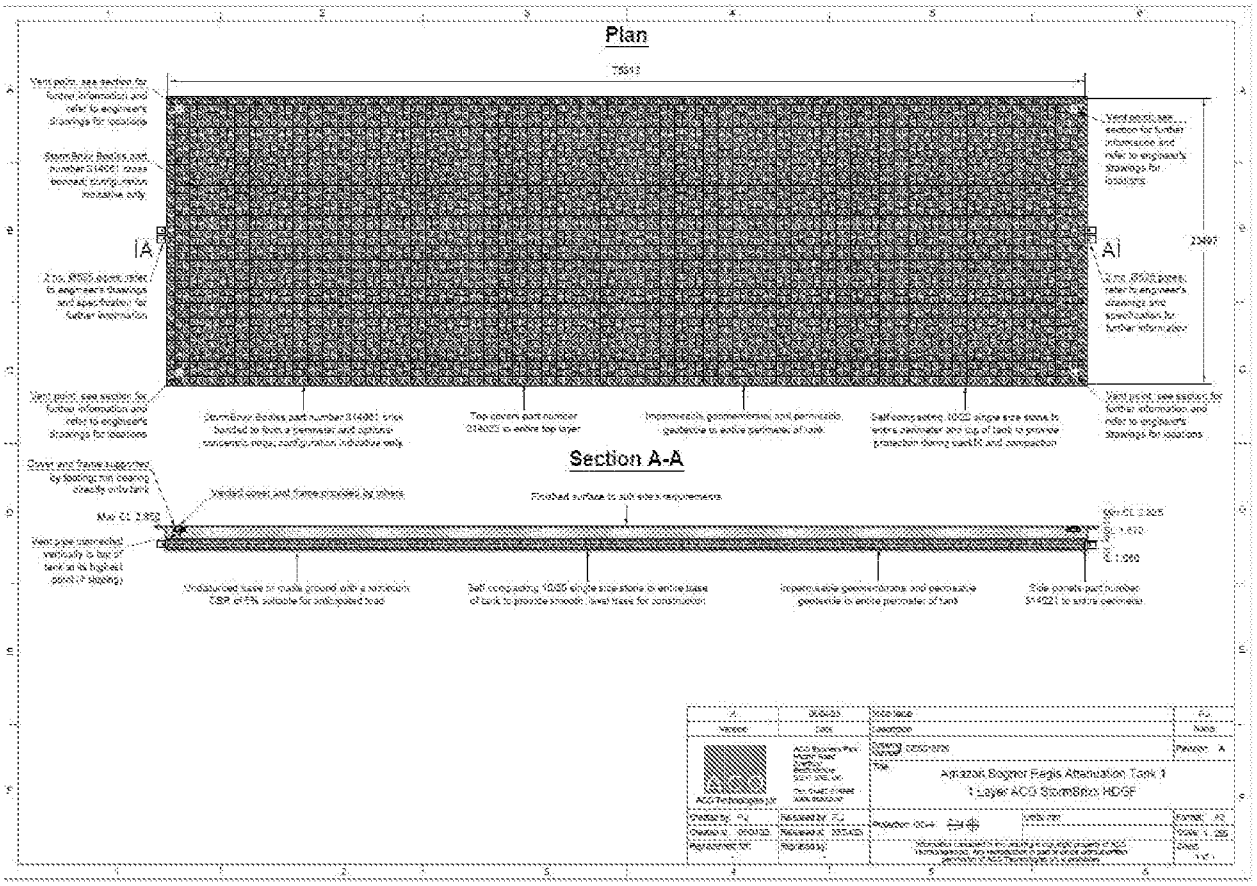
[redacted]		
George Mcgearty		Bren Starbuck
24-07-2023		24-07-2023
Client Comments		

Other Sign-off	
[Name Answer]	[Signature Answer]
[Company Answer]	
[Date Answer]	
Comments [Comments Answer]	

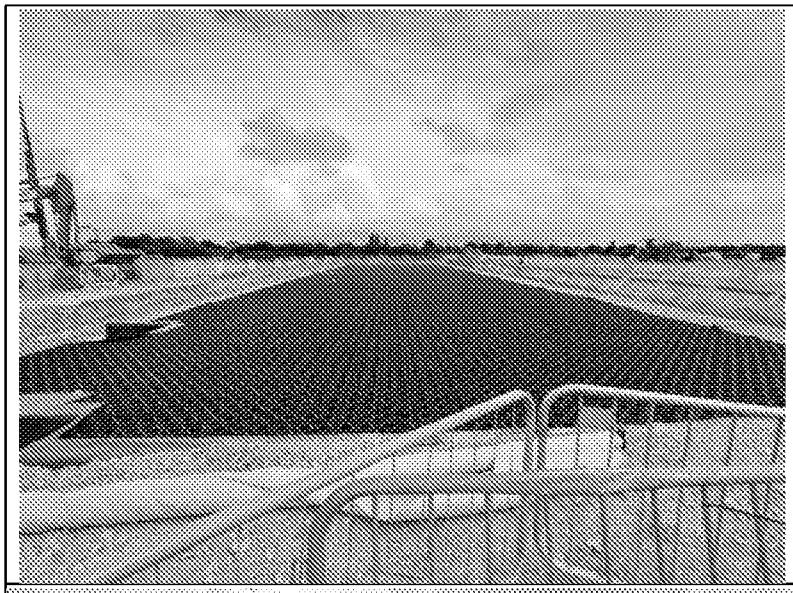
Attachments

Formation Photos	Comments

Tank installation drawing



Tank Installation Photos	Comments

Backfill Photos	Comments

Handover Certificate

Handover Sheet

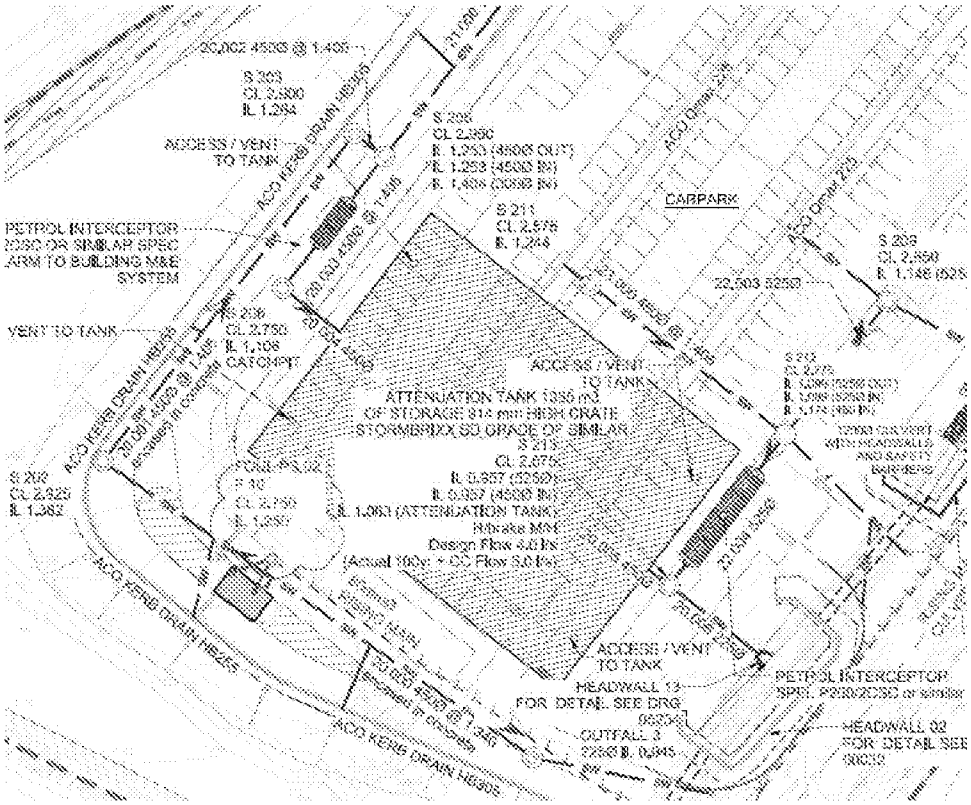
[illegible]	Amazon Bognor Regis	[illegible]	750i	[illegible]	24-07-2023
[illegible]	George Mogaerty	[illegible]	DBN5-ECE-ST-ZZ-D-C-05219-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule DES018526 AMAZON BOGNOR REGIS ATTENUATION TANK 1		
[illegible]	Attenuation Tank 1	[illegible]	DBN5 Specification		

[illegible]		
Description of Works	Area Complete	Comments
Attenuation Tank 1 - Installation & Backfill	Yes	

Handover Report	Comments
Accepted	All OK

[illegible]		
Gallagher		Client
[redacted]		

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/location:	Drainage 46 - S006 to S008 and Gullies	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
1.505	1.328	24.444	0.724

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
1.505	1.330	24.444	0.716

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Twinwall	150mm	GEN3

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments
Type 1	Rammax	

Pipe Test (Results)	Comments
Pass	

Client Comments

Post-Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
07-11-2023		08-11-2023

Client Comments

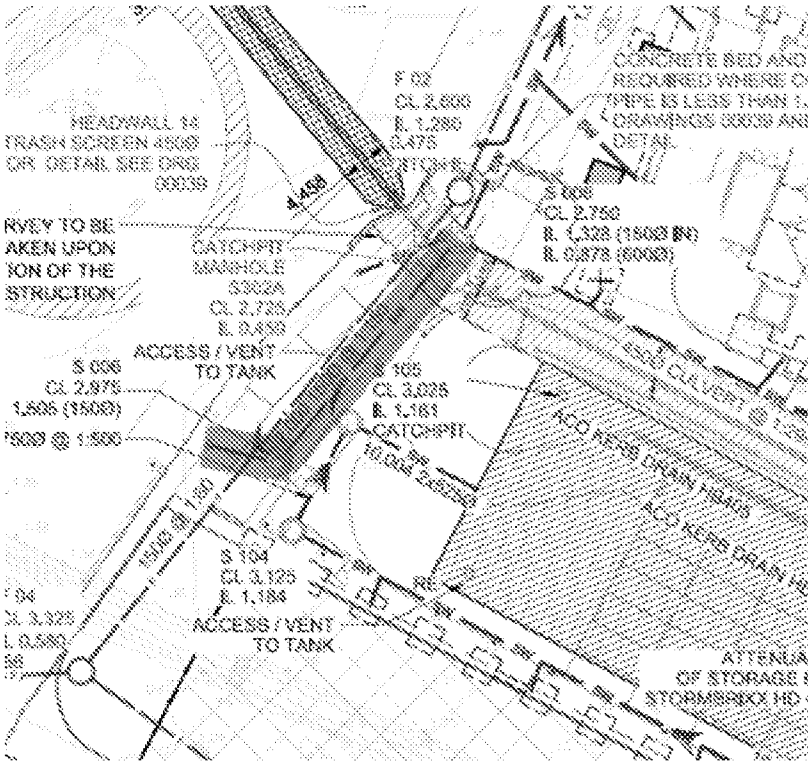
Other Sign-offs

Signature	Name	Company	Date	Comments
			07-11-2023	

Attachments	
Pipe Photos	Comments

Backfill Photos	Comments

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750I	Date:	18-04-2023
Inspected By:	Frank McTernan (Contractor)	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 48 - S302B to S303	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
0.269	0.128	51.774	0.272

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
0.257	0.132	49.993	0.250

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Concrete	450mm	Other (Specify)

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments

Other	Other	Run Constructed Prior To Fill By Wandsworth (behind programme)

Pipe Test (Results)	Comments
Pass	

Client Comments

Post-Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

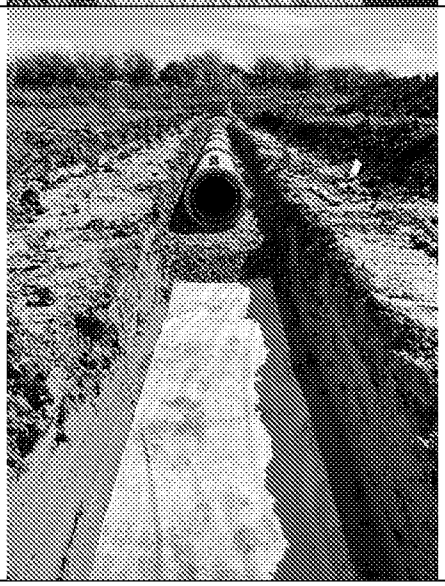
Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		James Dent
09-06-2023		16-08-2023

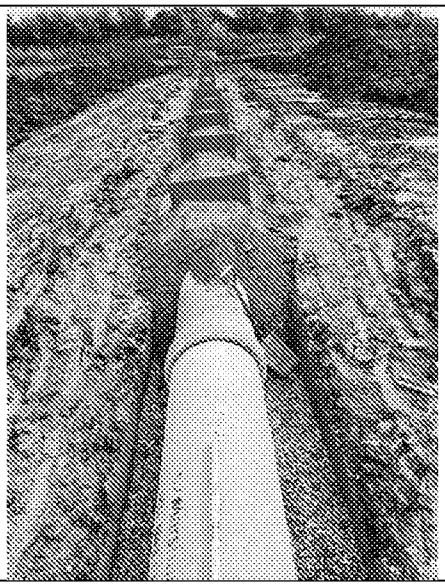
Client Comments

Other Sign-offs

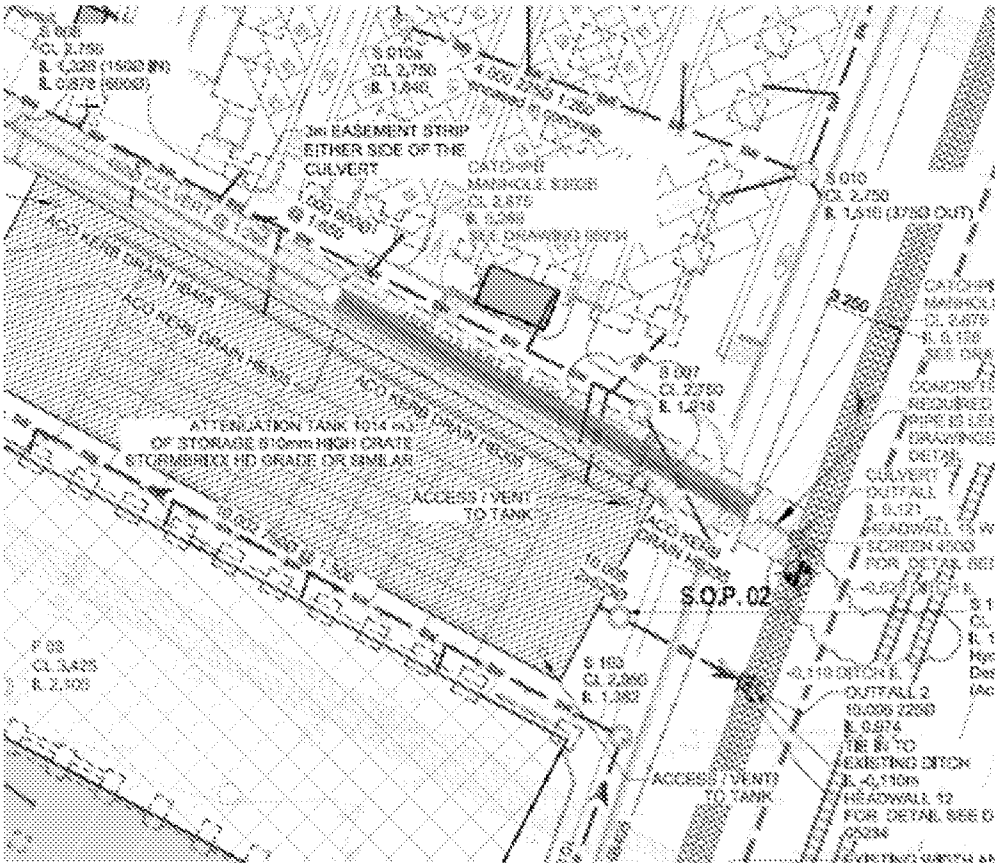
Signature	Name	Company	Date	Comments
			09-06-2023	

Attachments

Pipe Photos	Comments
	

Backfill Photos	Comments
	Complete prior to filling by others

Marked-up Drawing



QA Check Sheet – Manholes

Project Title:	Amazon Bognor Regis	Project #:	Project Number	Date:	17-04-2023
Inspected By:	Frank McTernan (Contractor)	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01- EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01- DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01- DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01- DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01- DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01- DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01- DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]- Schedule		
Area/Location:	S303	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
0.128	N/A	

Concrete Level	Concrete Type	Comments
-0.422	GEN 3	Catchpit

Type	Size / Diameter	Comments
PCC Rings / Sections	1500mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments
Concrete	450mm	0.132	E:494647.628 N:101825.332 (Manhole position)

Pipe Type	Pipe Diameter	Invert Level	Comments
Concrete	450mm	0.132	

Benching (If Applicable)	Comments
N/A	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Other (Specify)	Other	Concrete Surround As Pictures, CP built prior to soil stabiliisation. Earthworker behind programme.

Shutter Sign-off

Gallagher		Client
[redacted]		
Frank McTernan (Contractor)		Bren Starbuck

08-06-2023		08-06-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
F900	150	600*600	

IMPORTANT NOTE - The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

Final Testing

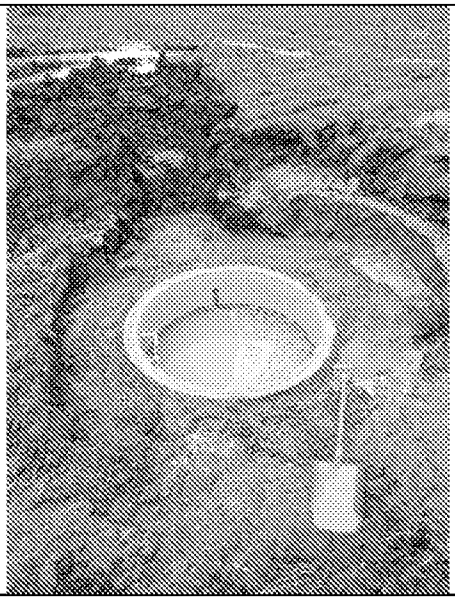
Clean & Final Testing	Comments
Yes	

Post-Construction

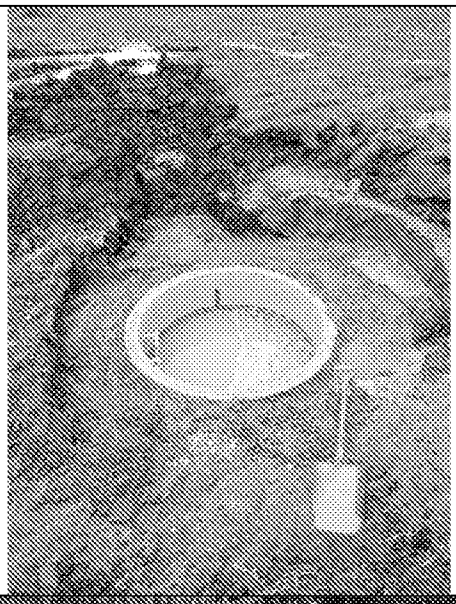
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		James Dent
16-08-2023		16-08-2023
Client Comments		

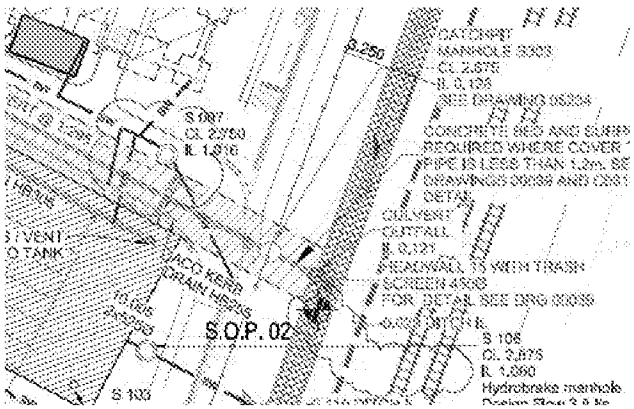
Other sign-off Signatures				
Signature	Name	Company	Date	Comments

Excavation / Temporary Works Photos	Comments
	

Benching	Comments

Surround Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Manholes

Project Title:	Amazon Bognor Regis	Project #:	Project Number	Date:	24-04-2023
Inspected By:	Frank McTernan (Contractor)	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	MH S302B	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
-0.406	N/A	

Concrete Level	Concrete Type	Comments
-0.181	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1500mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments
Concrete	450mm	0.257	E:494601.759 N:101849.037 (Manhole location)

Pipe Type	Pipe Diameter	Invert Level	Comments
Concrete	450mm	0.257	

Benching (If Applicable)	Comments
N/A	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
As Dug	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Startbuck
26-05-2023		08-06-2023

Client Comments

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
D400	150	600*600	

IMPORTANT NOTE - The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

Final Testing

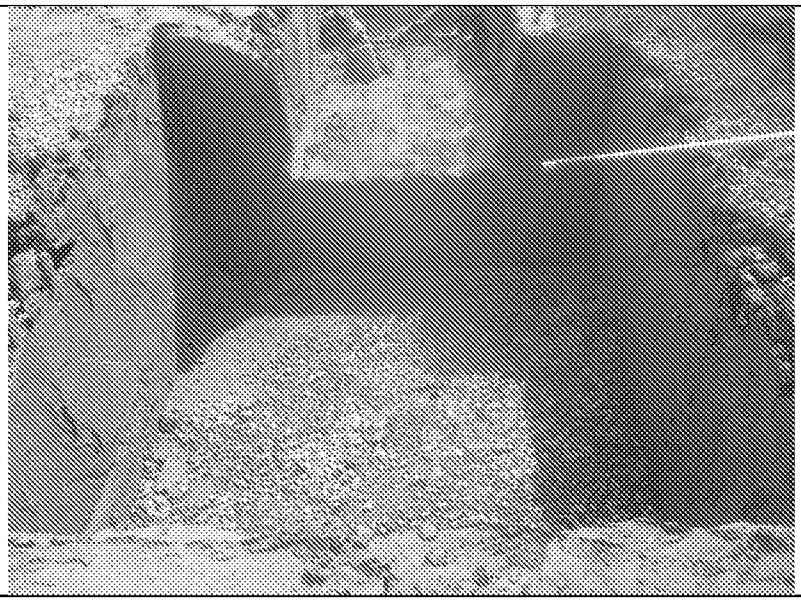
Clean & Final Testing	Comments
Yes	

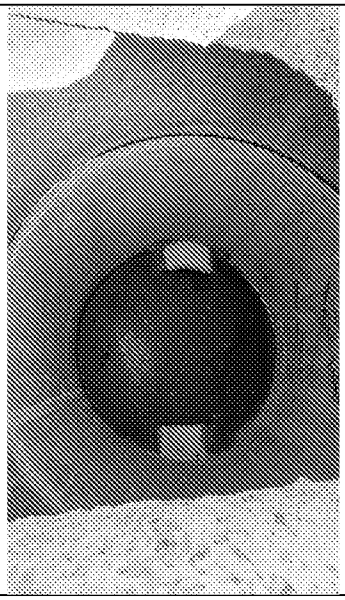
Post-Construction

i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		James Dent
27-06-2023		10-08-2023
Client Comments		

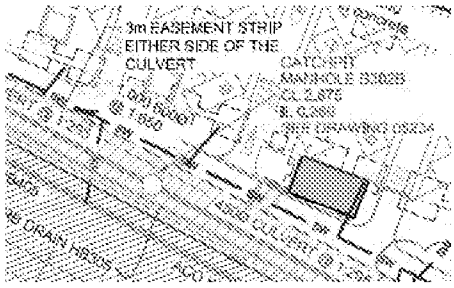
Other sign-off Signatures				
Signature	Name	Company	Date	Comments

Excavation / Temporary Works Photos	Comments
	

Benching	Comments
	

Surround Photos	Comments

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	25-04-2023
Inspected By:	Frank McTernan (Contractor)	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C03]-Schedule		
Area/Location:	Drainage 49 - S302B to S302A	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
0.459	0.270	45.878	0.412

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
0.468	0.257	44.011	0.479

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Concrete	450mm	Other (Specify)

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments

Other	Rammax	Gen3 then as dug

Pipe Test (Results)	Comments
Pass	

Client Comments

Post-Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		James Dent
09-06-2023		16-08-2023

Client Comments

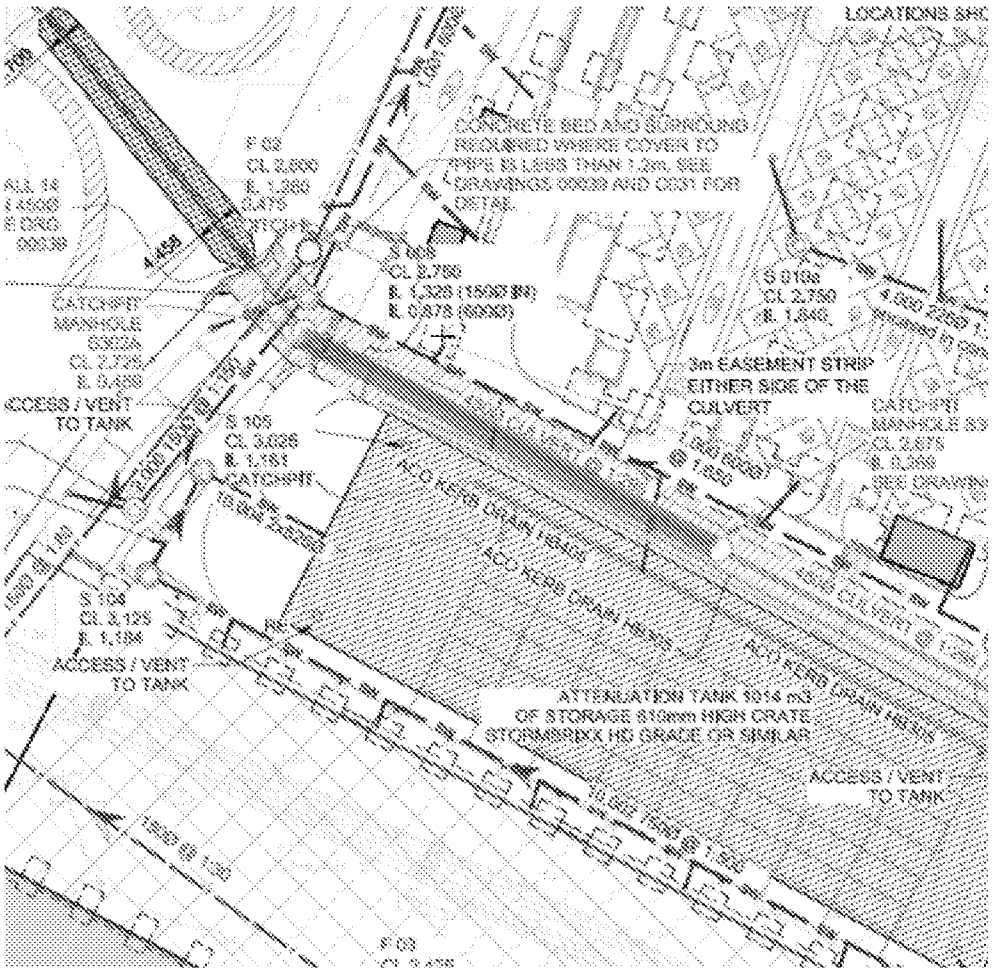
Other Sign-offs

Signature	Name	Company	Date	Comments
			09-06-2023	

Attachments	
Pipe Photos	Comments

Backfill Photos	Comments

Marked-up Drawing



QA Check Sheet – Manholes

Project Title:	Amazon Bognor Regis	Project #:	Project Number	Date:	28-04-2023
Inspected By:	Frank McTernan (Contractor)	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C02-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C02-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C02-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C03]-Schedule		
Area/Location:	S302A	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
-0.366	N/A	

Concrete Level	Concrete Type	Comments
-0.116	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1500mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments
Concrete	450mm	0.470	E: 494561.424 N:101870.530 (Manhole position)

Pipe Type	Pipe Diameter	Invert Level	Comments
Concrete	450mm	0.467	

Benching (If Applicable)	Comments
N/A	Catchpit

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
As Dug	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		
Frank McTernan (Contractor)		Bren Starbuck
26-05-2023		08-06-2023

Client Comments

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
D400	150	600*600	

IMPORTANT NOTE - The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

Final Testing

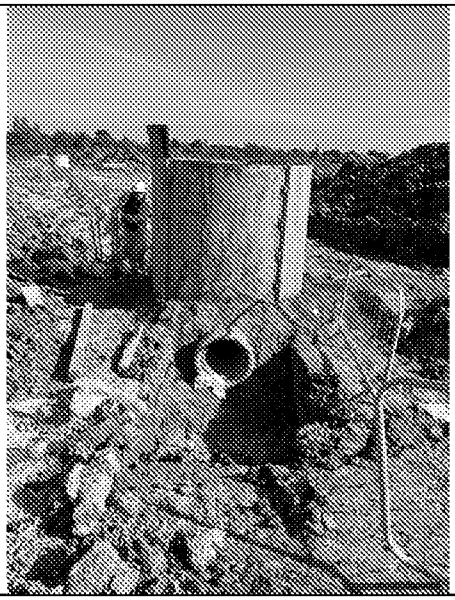
Clean & Final Testing	Comments
Yes	

Post-Construction

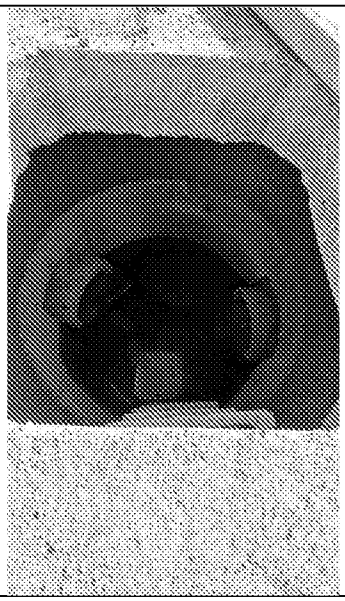
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

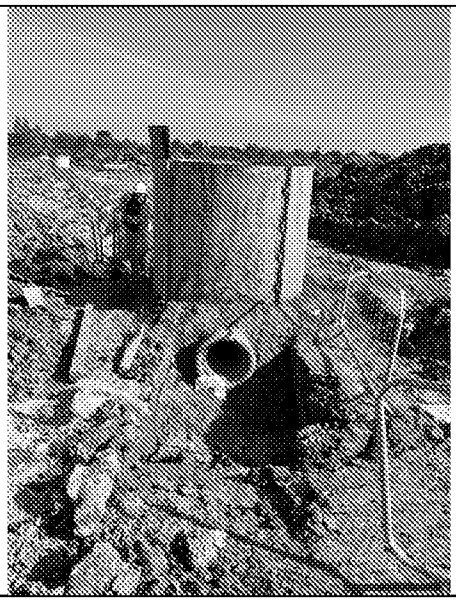
Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		James Dent
16-08-2023		16-08-2023
Client Comments		

Other sign-off Signatures				
Signature	Name	Company	Date	Comments

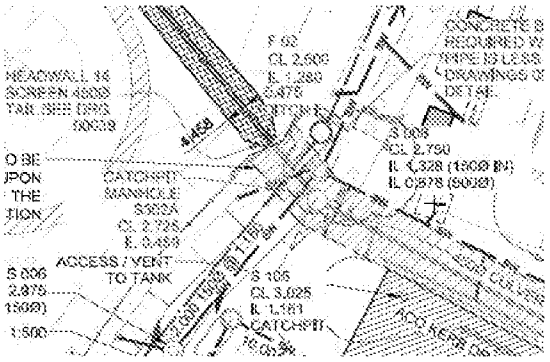
Excavation / Temporary Works Photos	Comments
	

Benching	Comments

Surround Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 50 - S007 to S008	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
1.016	0.878	80.821	0.171

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
1.016	0.866	81.000	0.185

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Twinwall	600mm	GEN3

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments
Type 1	Roller	

Pipe Test (Results)	Comments
Pass	

Client Comments

	Post-Construction
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

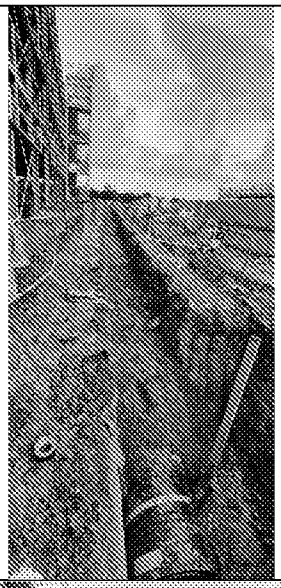
Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
02-11-2023		02-11-2023

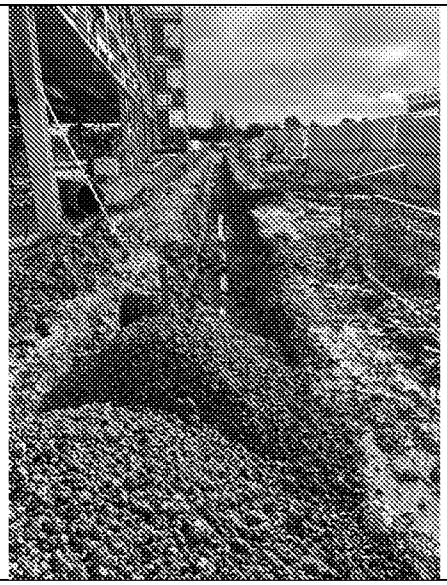
Client Comments

Other Sign-offs

Signature	Name	Company	Date	Comments

Attachments

Pipe Photos	Comments
	

Backfill Photos	Comments
	

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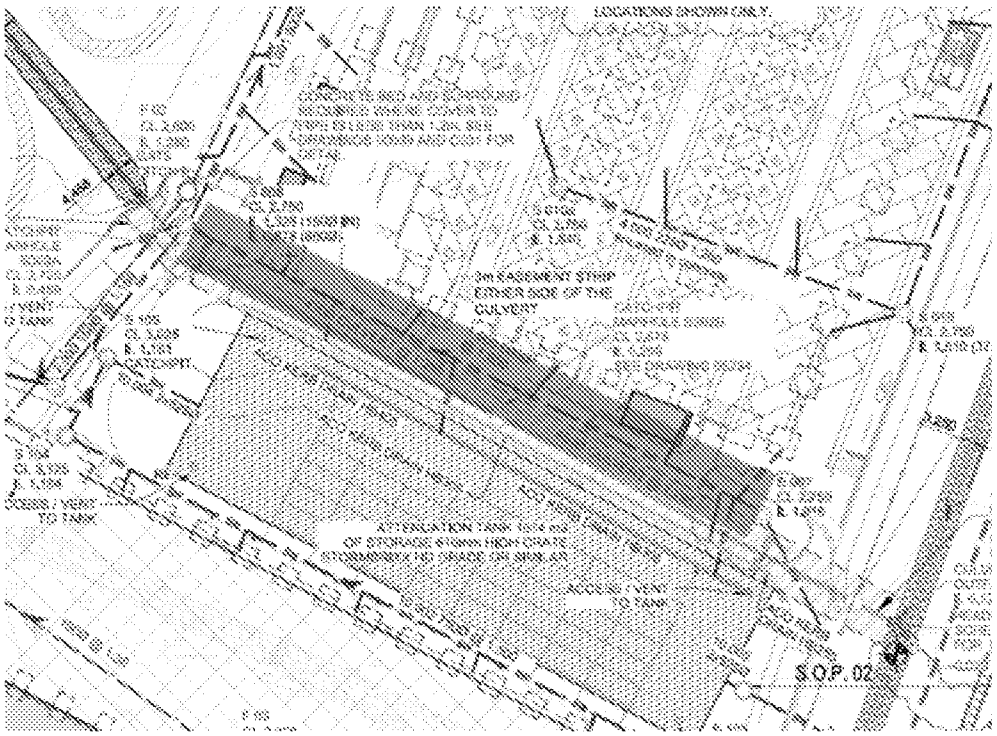


QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 54 - S010 to S011B	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
1.510	1.296	56.777	0.377

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
1.522	1.296	56.777	0.398

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Twinwall	375mm	GEN3
Twinwall	150mm	GEN3

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments
Type 1	Rammax	

Pipe Test (Results)	Comments
Pass	

Client Comments

Post-Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

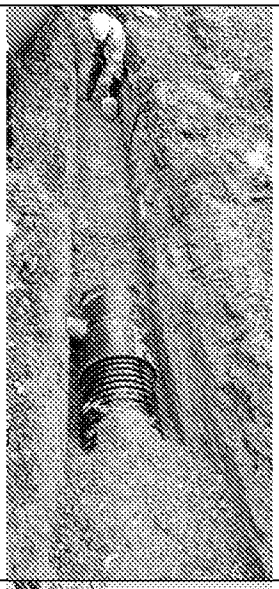
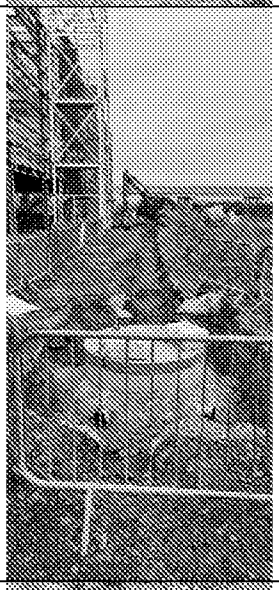
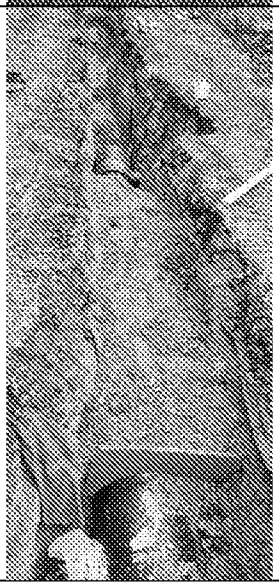
Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
13-10-2023		16-10-2023

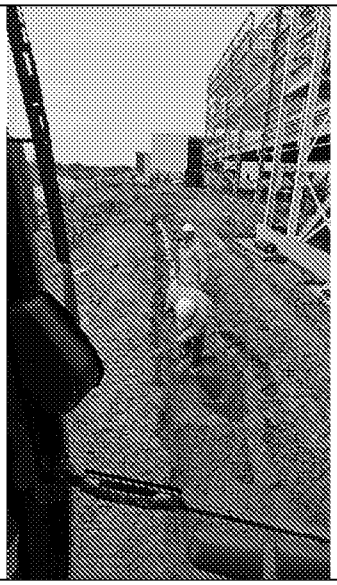
Client Comments

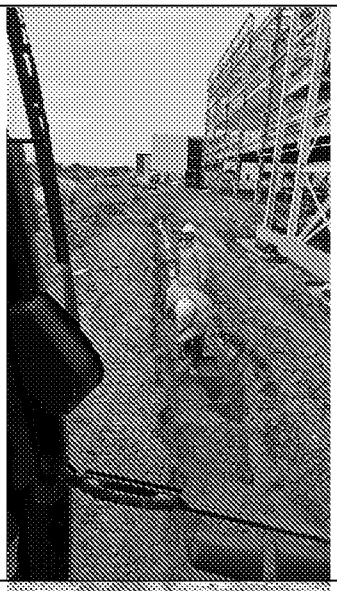
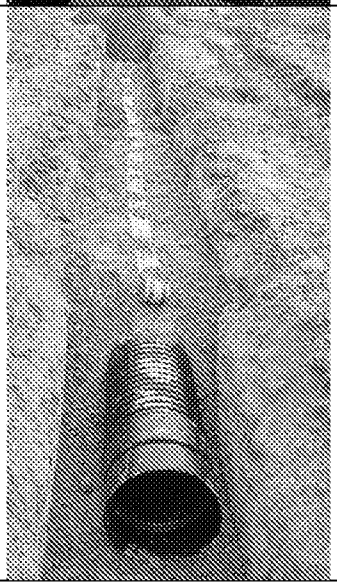
Other Sign-offs

Signature	Name	Company	Date	Comments
			13-10-2023	

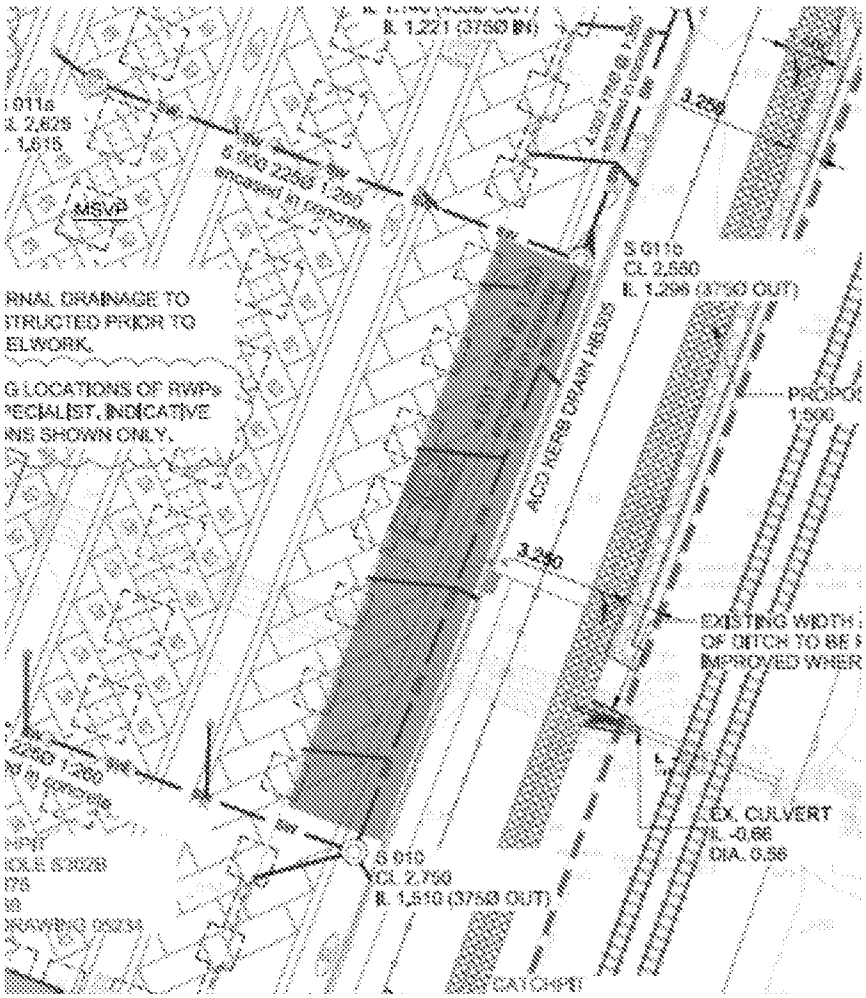
Attachments

Pipe Photos	Comments
	
	
	

Backfill Photos	Comments
	
	

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750I	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 57 - S011A to S011B	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
1.615	1.296	45.848	0.696

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
1.606	1.338	45.845	0.585

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Twinwall	225mm	GEN3
Twinwall	150mm	GEN3

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments
Type 1	Rammax	

Pipe Test (Results)	Comments
Pass	

Client Comments

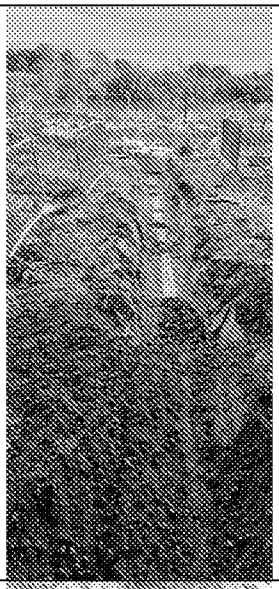
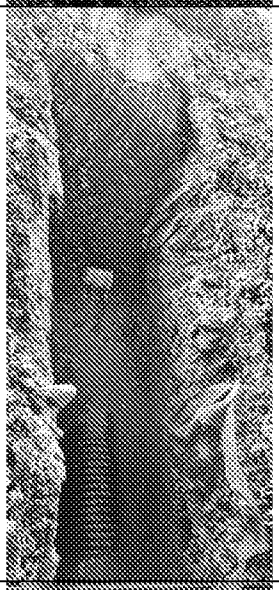
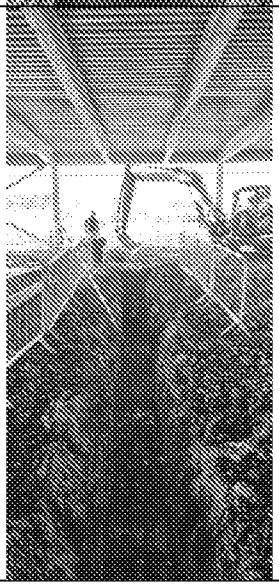
Post-Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

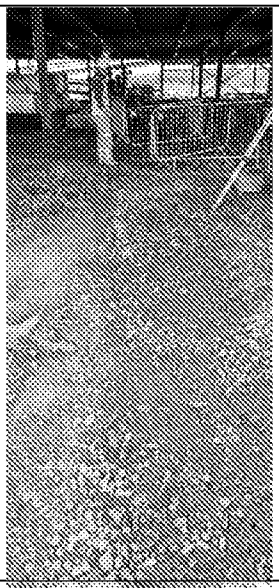
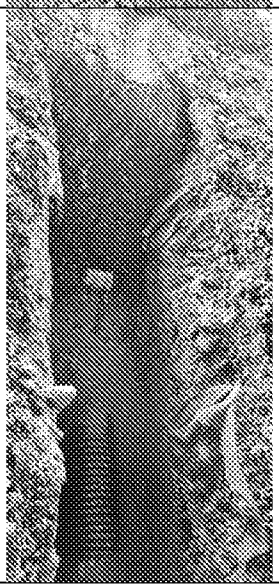
Sign-off		
Gallagher		Client
George Mcgearty		Bren Starbuck
28-09-2023		29-09-2023

Client Comments

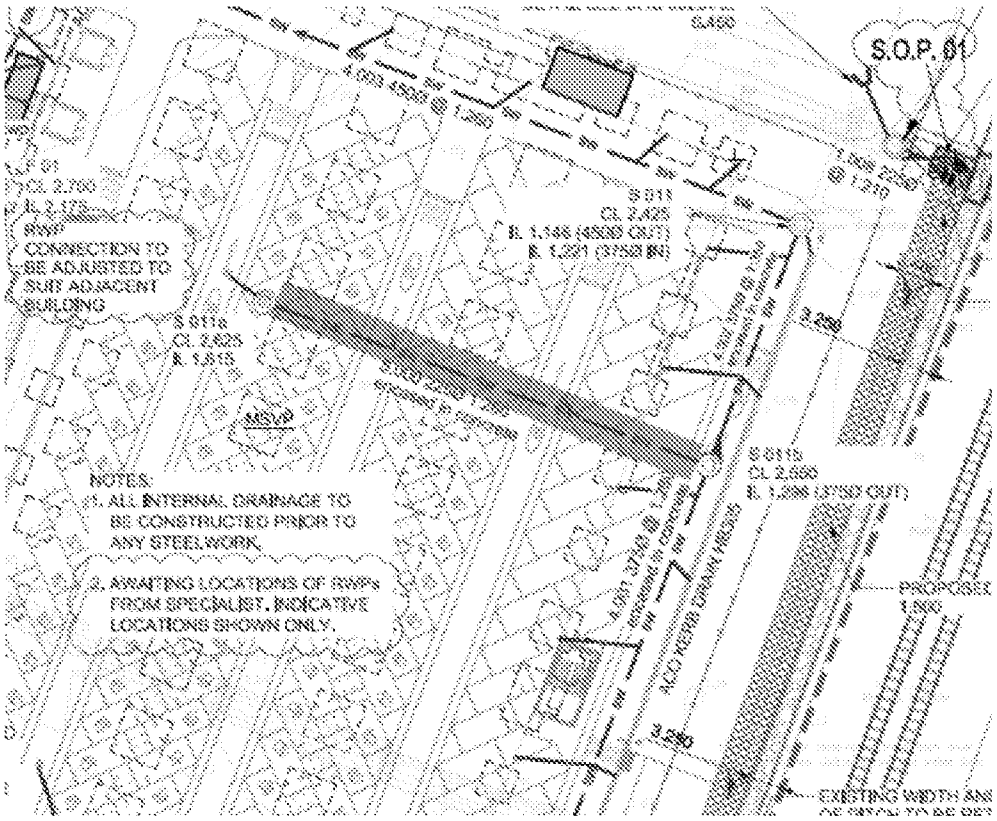
Other Sign-offs

Signature	Name	Company	Date	Comments
			28-09-2023	

Attachments	
Pipe Photos	Comments
	
	
	

Backfill Photos	Comments
	
	

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 53 - S010A to S010	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
1.840	1.510	45.261	0.729

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
1.829	1.573	45.261	0.566

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Twinwall	225mm	GEN3
Twinwall	150mm	GEN3

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments
Type 1	Rammax	

Pipe Test (Results)	Comments
Pass	

Client Comments

Post-Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

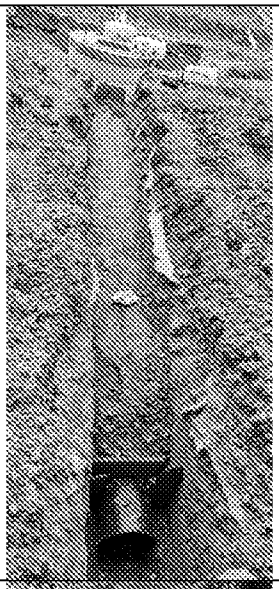
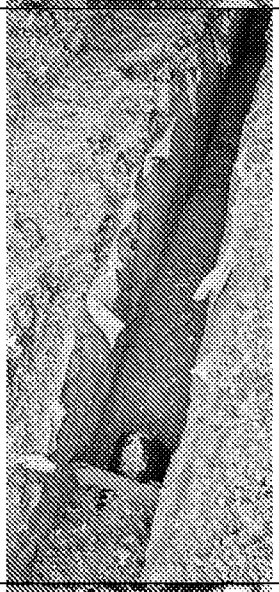
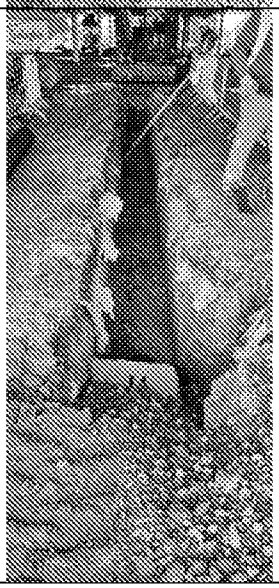
Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
25-09-2023		26-09-2023

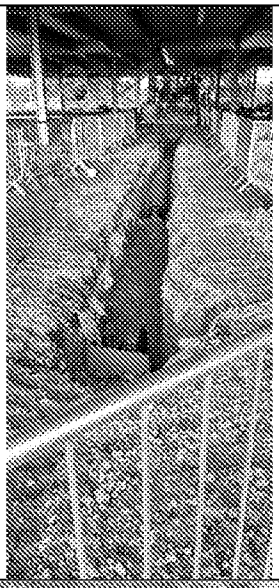
Client Comments

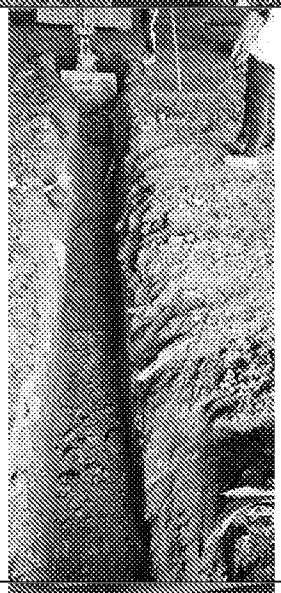
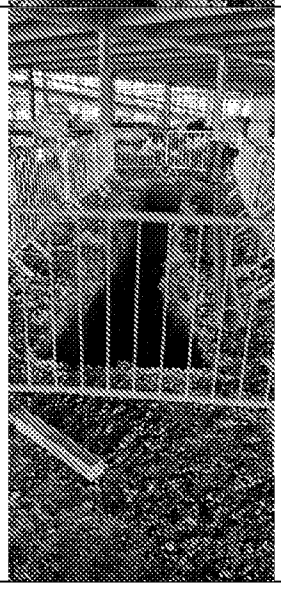
Other Sign-offs

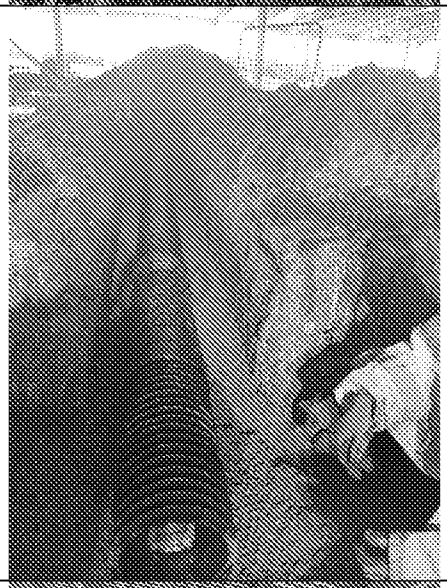
Signature	Name	Company	Date	Comments
			25-09-2023	

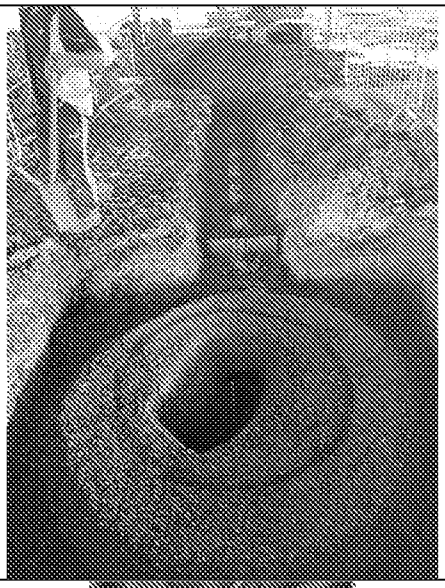
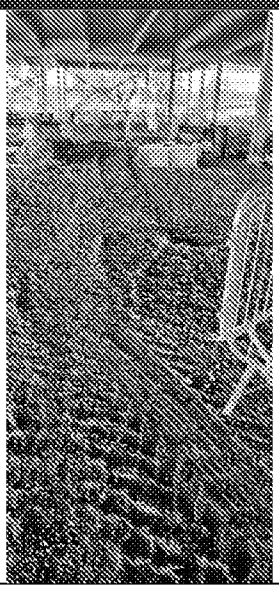
Attachments

Pipe Photos	Comments
	
	
	

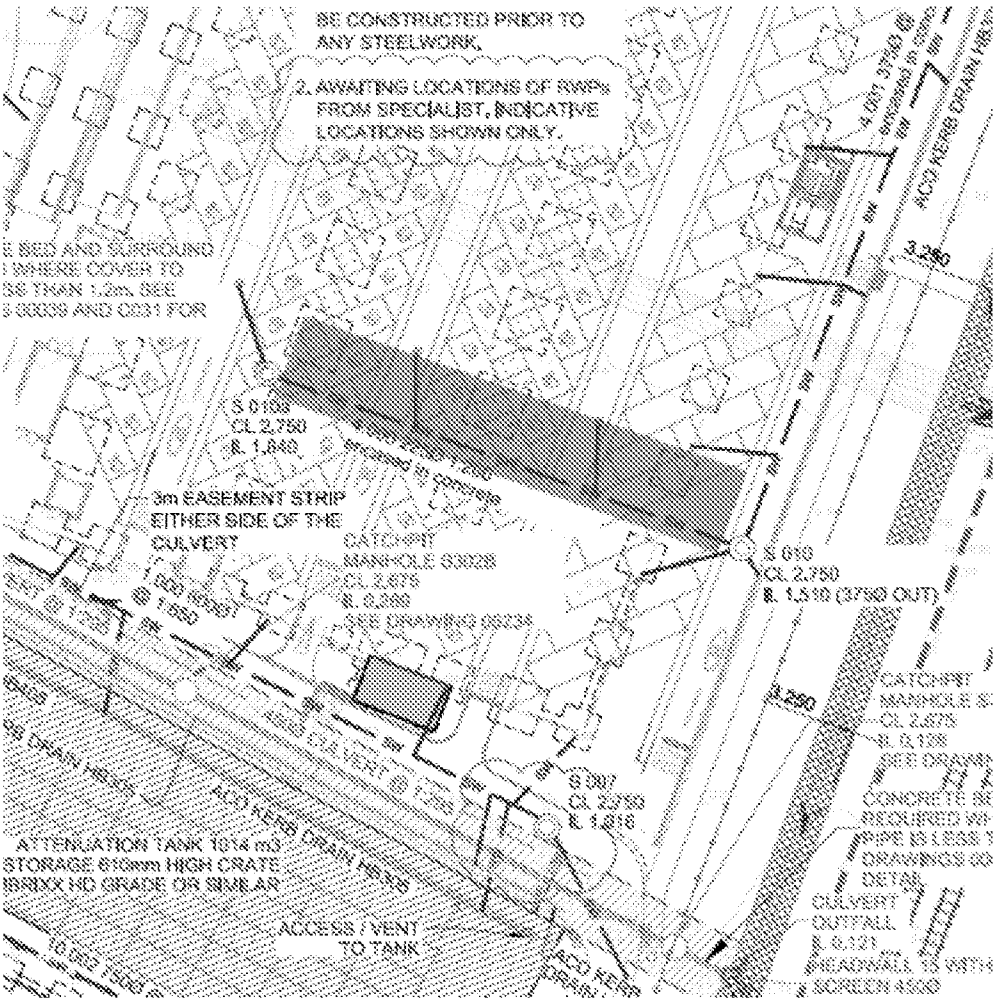
		

Backfill Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	BN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 58 - S011B to S011	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
1.296	1.221	23.848	0.314

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
1.299	1.221	23.848	0.327

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Twinwall	375mm	GEN3

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments

Type 1	Rammax	

Pipe Test (Results)	Comments
Pass	

Client Comments

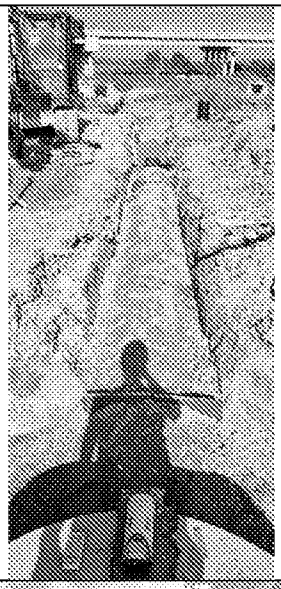
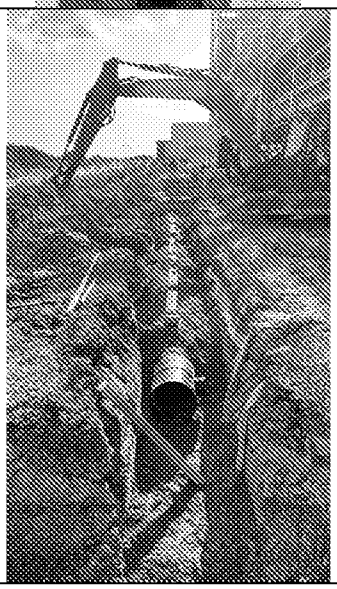
Post-Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

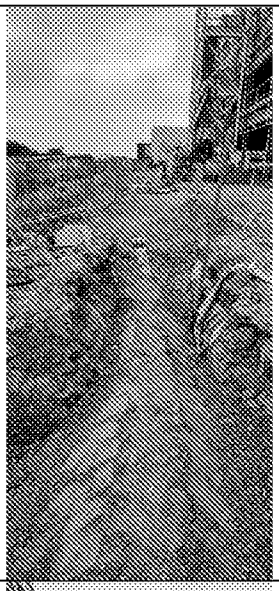
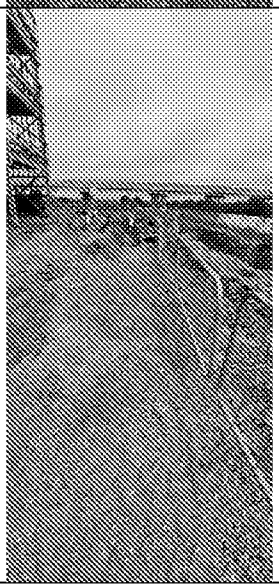
Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
03-10-2023		04-10-2023

Client Comments

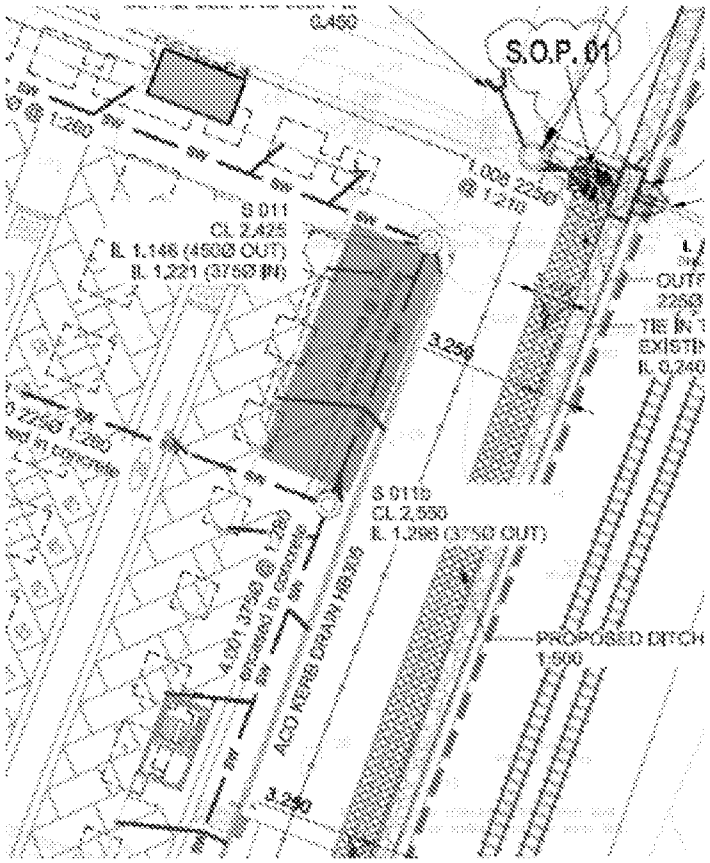
Other Sign-offs

Signature	Name	Company	Date	Comments
			03-10-2023	

Attachments	
Pipe Photos	Comments
	
	

Backfill Photos	Comments
	
	

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01- EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01- DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01- DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01- DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01- DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01- DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01- DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]- Schedule		
Area/Location:	Drainage 60 - S011 to S012	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
1.146	0.837	77.601	0.398

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
1.148	0.831	77.601	0.408

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Twinwall	450mm	GEN3

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments
Type 1	Rammax	

Pipe Test (Results)	Comments
Pass	

Client Comments

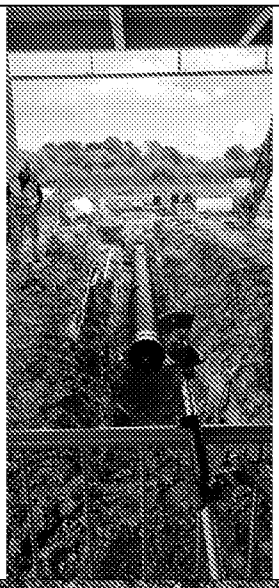
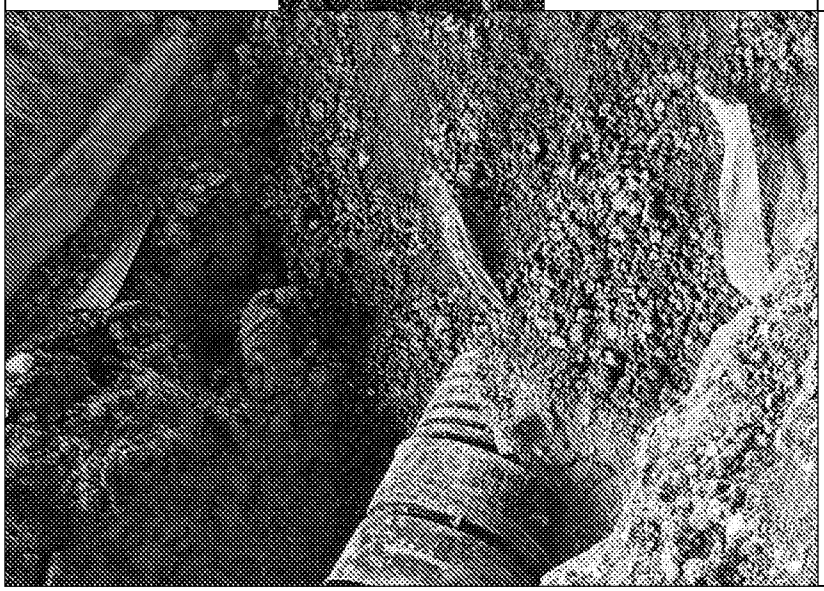
Post-Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

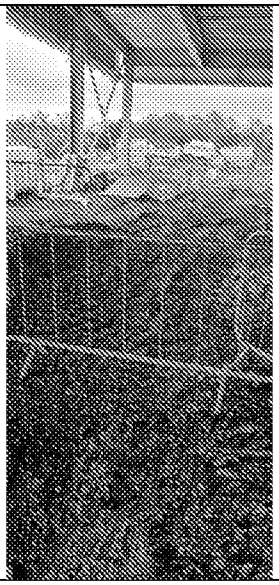
Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
28-11-2023		29-11-2023

Client Comments

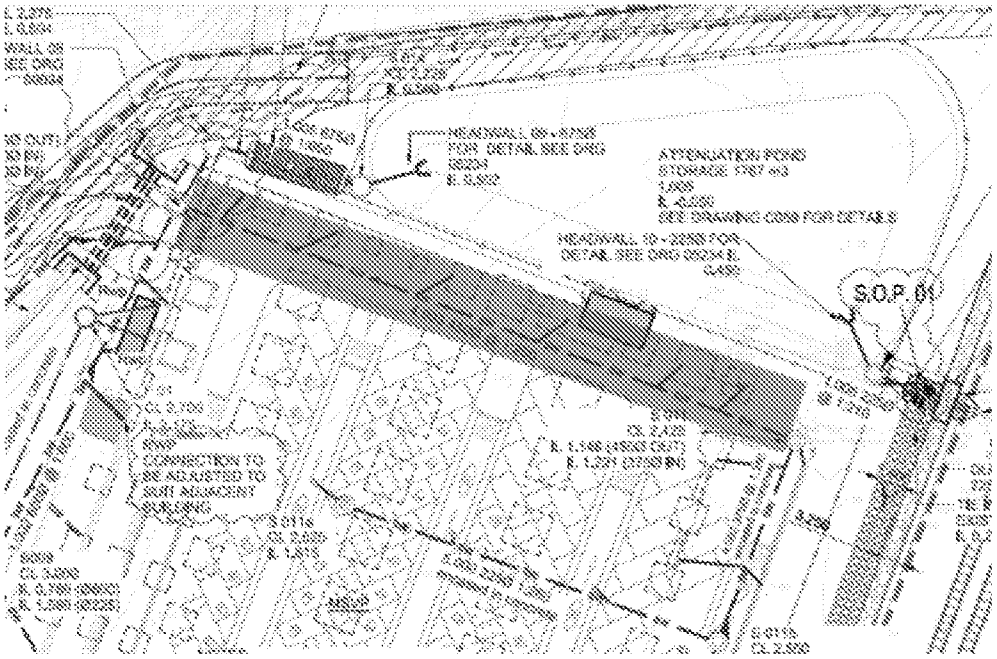
Other Sign-offs

Signature	Name	Company	Date	Comments
			28-11-2023	

Attachments	
Pipe Photos	Comments
	
	

Backfill Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date	15-05-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location	S001	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
1.660	N/A	

Concrete Level	Concrete Type	Comments
1.910	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1200mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	150mm	1.912	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	225mm	1.905	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	
Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
28-11-2023		12-12-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
D400	150	600*600	

IMPORTANT NOTE – The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

Final Testing	
Clean & Final Testing	Comments
Yes	

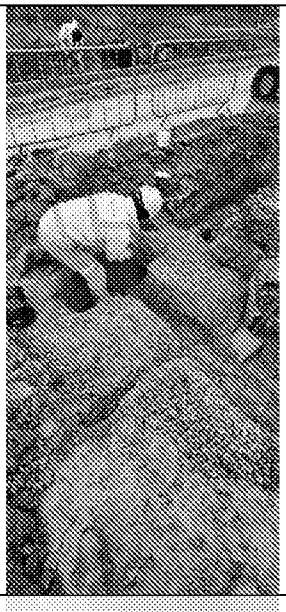
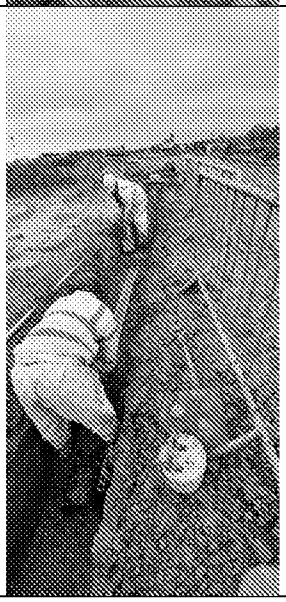
Post Construction		
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
16-01-2024		17-01-2024
Client Comments		

Other sign-off Signatures				
Signature	Name	Company	Date	Comments

Excavation / Temporary Works Photos	Comments

Benching	Comments

Surround Photos	Comments
	
	

QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 72 - S001 to S002 and ACO	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
1.905	1.725	44.909	0.401

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
1.912	1.723	44.909	0.421

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Twinwall	225mm	GEN3

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments
Type 1	Rammax	

Pipe Test (Results)	Comments
Pass	

ARUN DISTRICT COUNCIL AL/87/21/PL

Client Comments

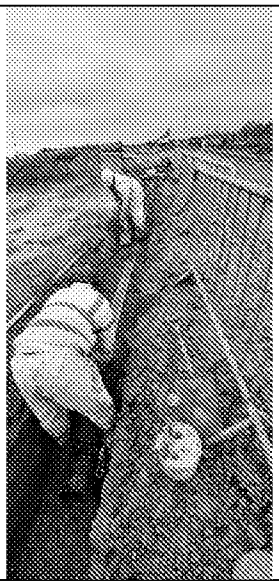
Post-Construction	
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

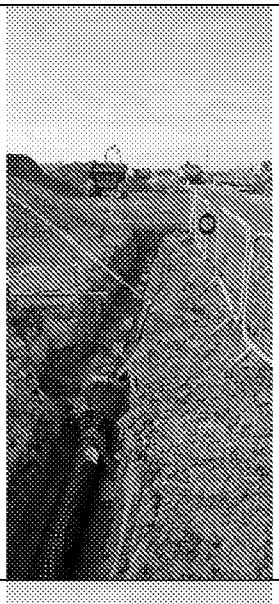
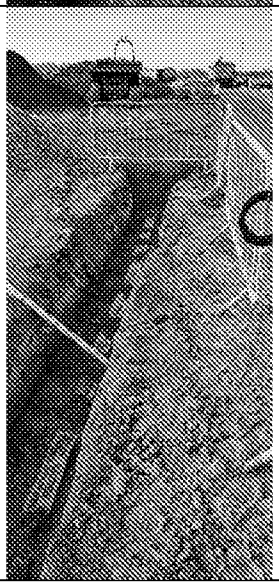
Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
06-12-2023		11-12-2023

Client Comments

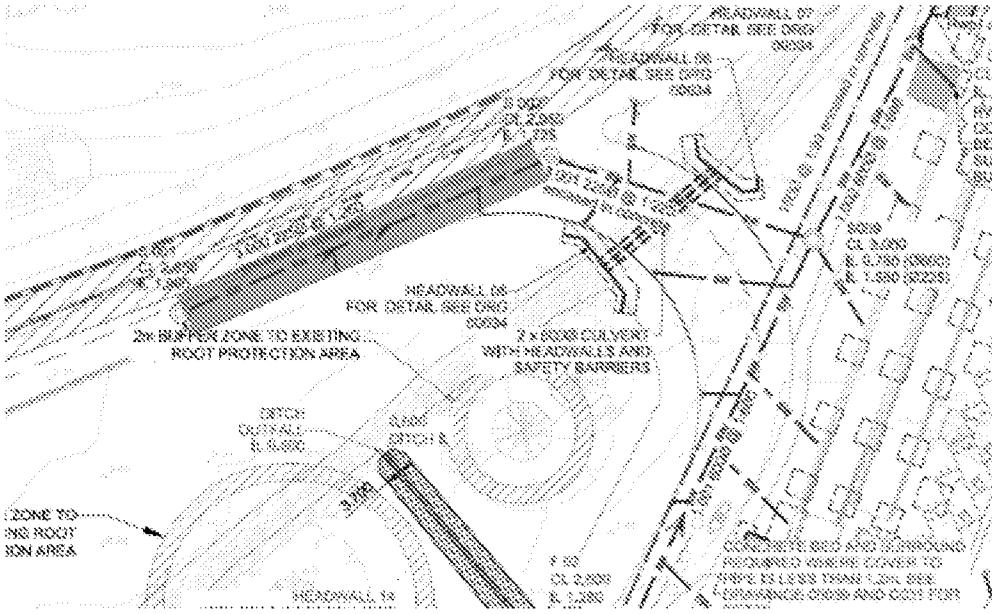
Other Sign-offs

Signature	Name	Company	Date	Comments
			06-12-2023	

Attachments	
Pipe Photos	Comments
	

Backfill Photos	Comments
	
	

Marked-up Drawing



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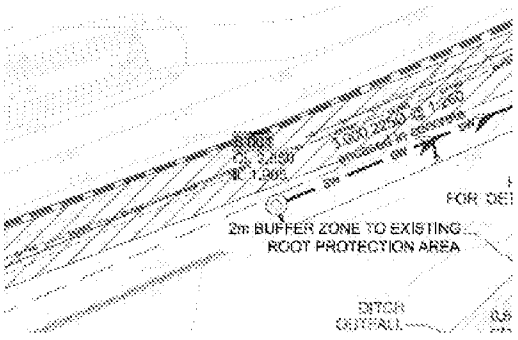


QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date	15-05-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location	S002	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
1.472	N/A	

Concrete Level	Concrete Type	Comments
1.722	GEN 3	

Type	Size / Diameter	Comments
Precast	1200mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	225mm	1.723	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	225mm	1.722	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
28-11-2023		29-11-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

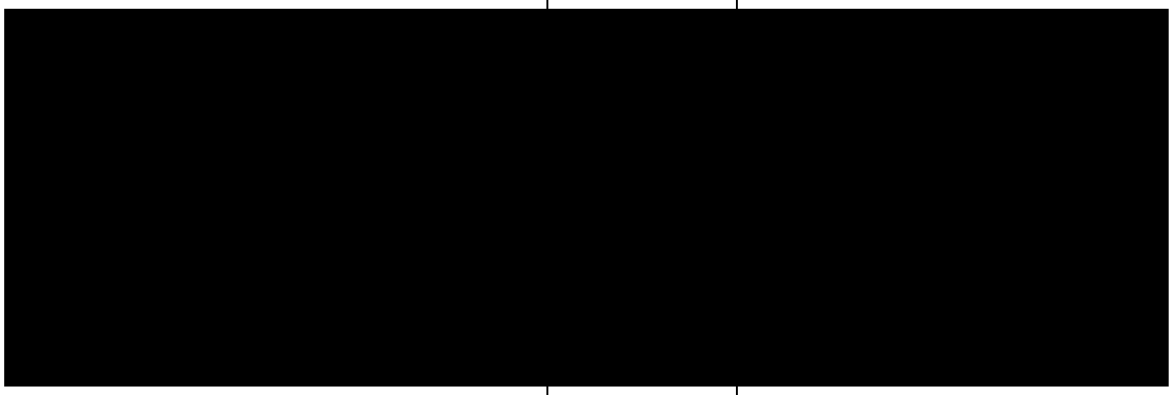
Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
D400	150	600*600	

IMPORTANT NOTE – The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

Final Testing	
Clean & Final Testing	Comments
Yes	

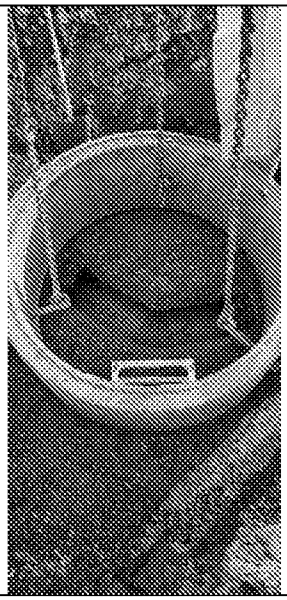
Post Construction		
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

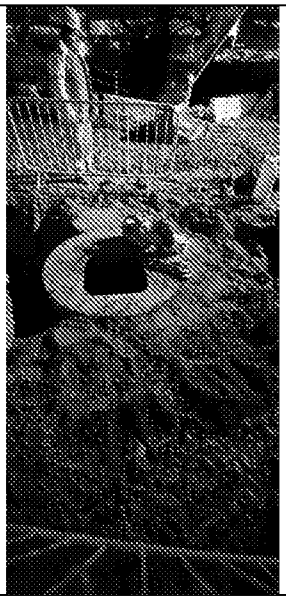


Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
11-12-2023		16-01-2024
Client Comments		

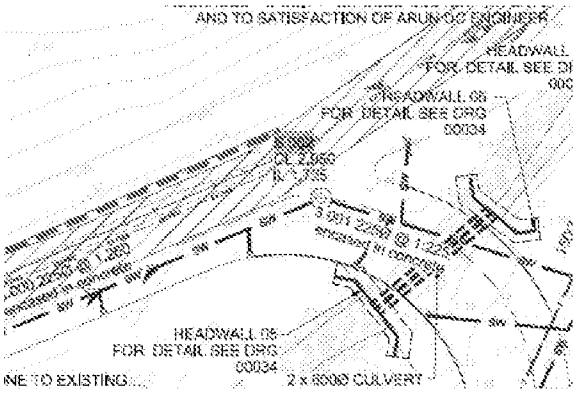
Other sign-off Signatures				
Signature	Name	Company	Date	Comments

Excavation / Temporary Works Photos	Comments

Benching	Comments
	WIP - Benching to be completed when weather allows.

Surround Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 73 - S002 to S009	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
1.725	1.580	30.145	0.481

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
1.722	1.562	30.145	0.531

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Twinwall	225mm	GEN3

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments
Type 1	Rammax	

Pipe Test (Results)	Comments
Pass	

Client Comments

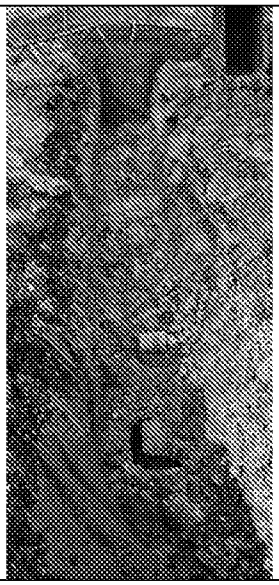
	Post-Construction
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

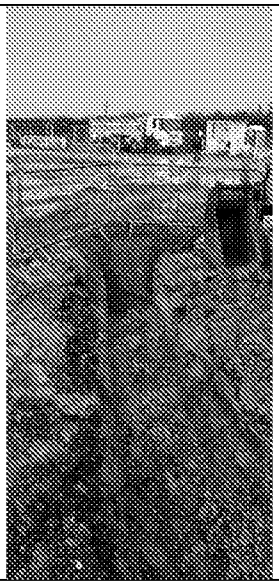
Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
11-12-2023		11-12-2023

Client Comments

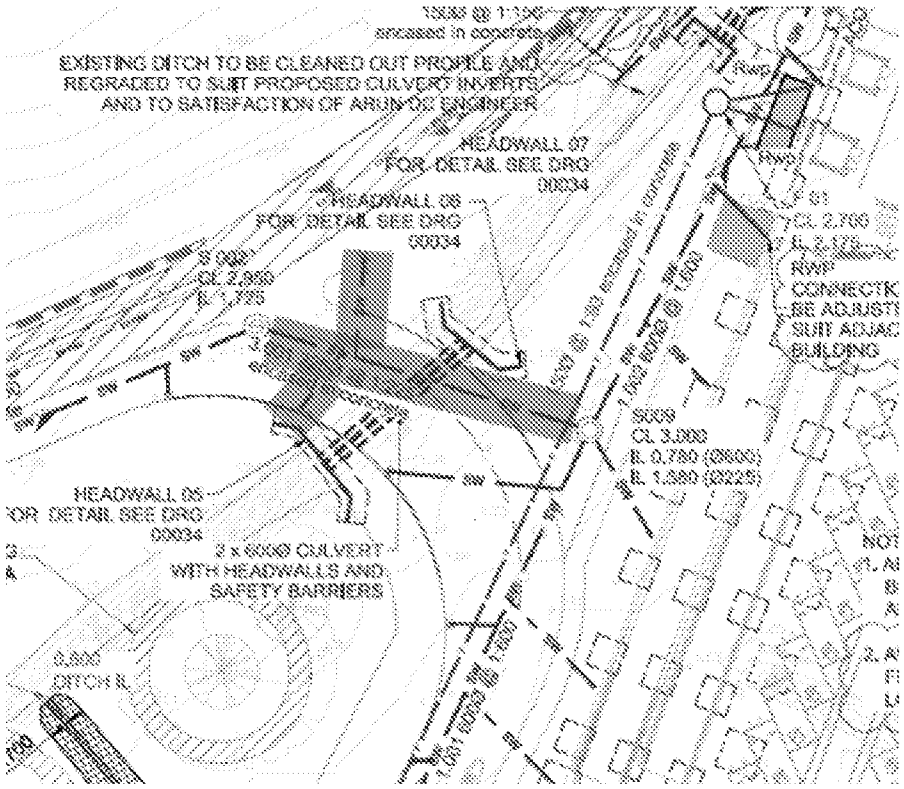
Other Sign-offs

Signature	Name	Company	Date	Comments
			11-12-2023	

Attachments	
Pipe Photos	Comments
	

Backfill Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date	15-05-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location	S006	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
1.255	N/A	

Concrete Level	Concrete Type	Comments
1.505	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1200mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	150mm	1.507	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	150mm	1.505	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
06-11-2023		07-11-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
D400	150	600*600	

IMPORTANT NOTE – The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

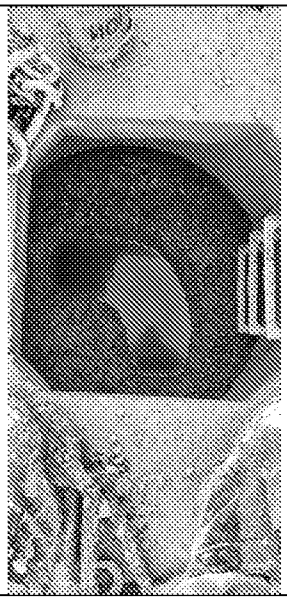
Final Testing	
Clean & Final Testing	Comments
Yes	

Post Construction		
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
07-11-2023		07-11-2023
Client Comments		

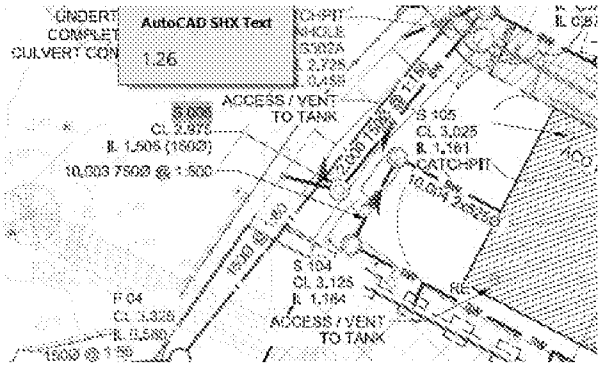
Other sign-off Signatures				
Signature	Name	Company	Date	Comments

Excavation / Temporary Works Photos	Comments

Benching	Comments
	Topping to be added. WIP

Surround Photos	Comments

Marked-up Drawing



QA Check Sheet – Manholes

Project Title:	Amazon Bognor Regis	Project #:	Project Number	Date:	15-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	S007	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
0.766	N/A	

Concrete Level	Concrete Type	Comments
1.016	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1500mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	150mm	1.327	

Pipe Type	Pipe Diameter	Invert Level	Comments

Twinwall	600mm	1.016	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
31-10-2023		31-10-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments

D400	150	600*600	

IMPORTANT NOTE - The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway

Final Testing

Clean & Final Testing	Comments
Yes	

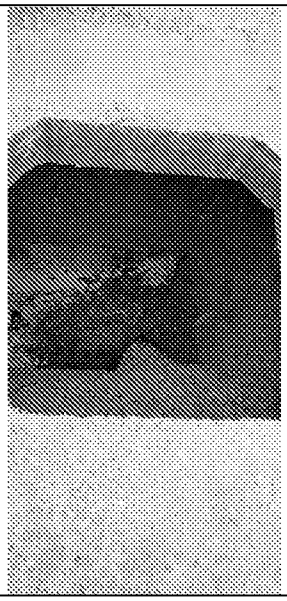
Post Construction

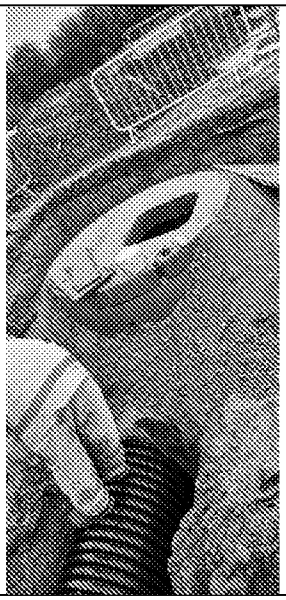
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
02-11-2023		02-11-2023
Client Comments		

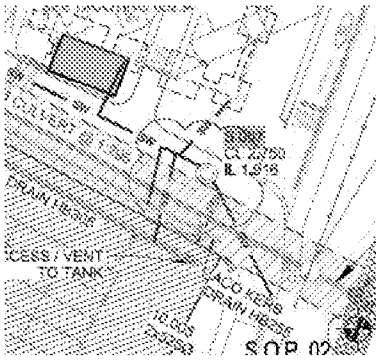
Other sign-off Signatures				
Signature	Name	Company	Date	Comments

Excavation / Temporary Works Photos	Comments

Benching	Comments
	

Surround Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date	15-05-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location	S008	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
0.616	N/A	

Concrete Level	Concrete Type	Comments
0.866	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1500mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	150mm	1.330	
Twinwall	150mm	1.332	

Pipe Type	Pipe Diameter	Invert Level	Comments

Twinwall	600mm	0.866	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
02-11-2023		02-11-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments

D400	150	600*600	

IMPORTANT NOTE - The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway

Final Testing

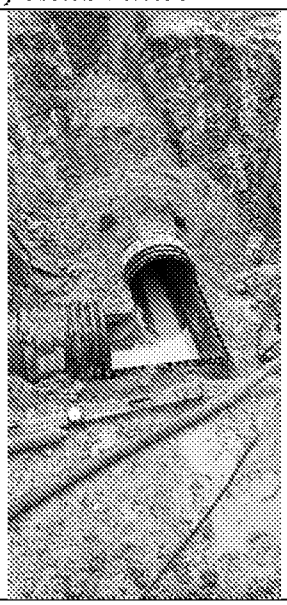
Clean & Final Testing	Comments
Yes	

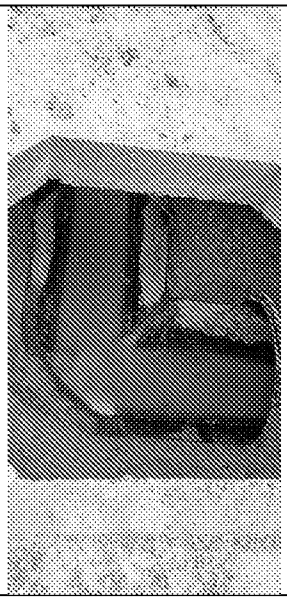
Post Construction

i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
02-11-2023		02-11-2023
Client Comments		

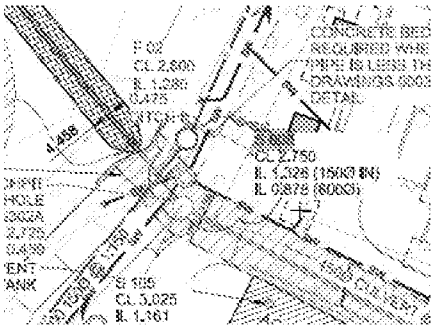
Other sign-off Signatures				
Signature	Name	Company	Date	Comments

Excavation / Temporary Works Photos	Comments
	

Benching	Comments
	

Surround Photos	Comments

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 66 - S008 to S009	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
0.878	0.780	56.145	0.175

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
0.866	0.763	56.145	0.183

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Twinwall	600mm	GEN3

Flexcell	Pipe Test (Results)	Comments
No	Pass	

Backfill Material	Compaction Method	Comments
Type 1	Rammax	

Pipe Test (Results)	Comments
Pass	

Client Comments

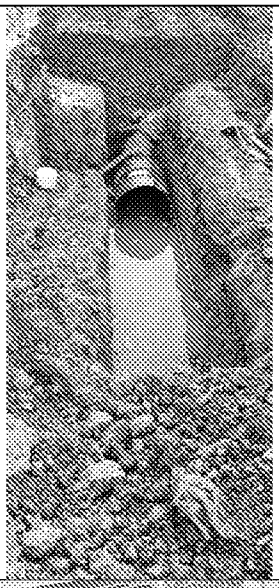
	Post-Construction
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

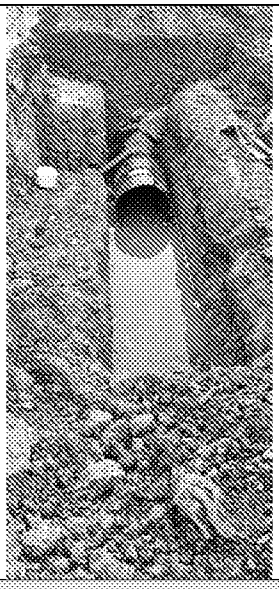
Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
23-11-2023		29-11-2023

Client Comments

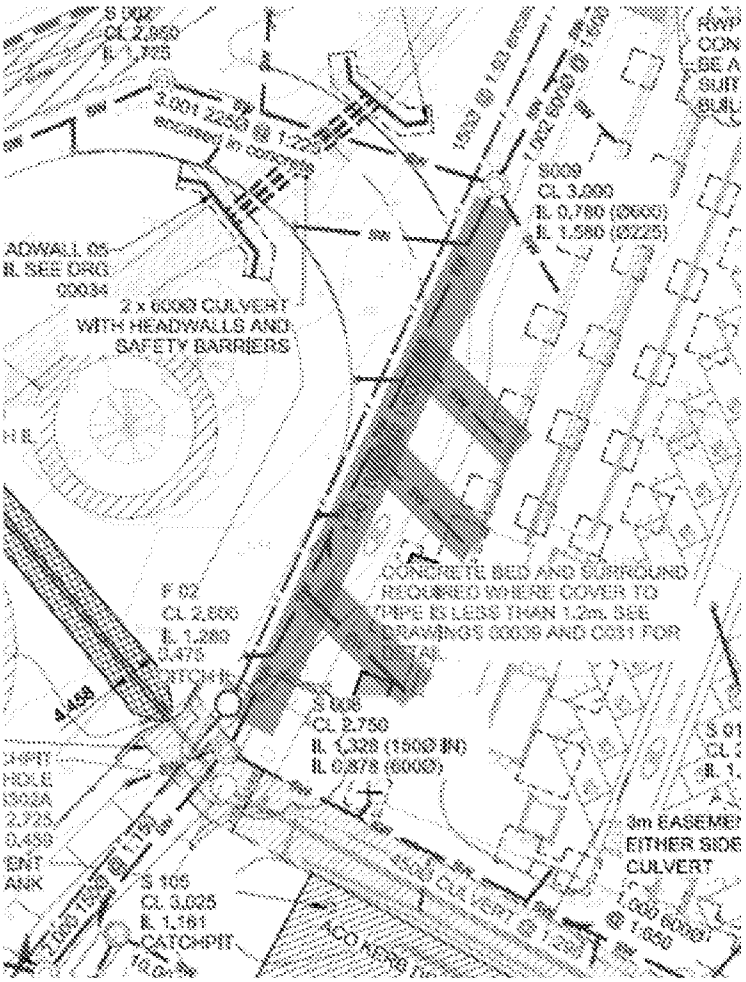
Other Sign-offs

Signature	Name	Company	Date	Comments
			24-11-2023	

Attachments	
Pipe Photos	Comments
	

Backfill Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date	15-05-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location	S009	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
0.511	Yes	

Concrete Level	Concrete Type	Comments
0.761	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1500mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	600mm	0.763	
Twinwall	225mm	1.562	

Pipe Type	Pipe Diameter	Invert Level	Comments

Twinwall	600mm	0.762	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
20-11-2023		11-12-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments

D400	150	600*600	

IMPORTANT NOTE - The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway

Final Testing

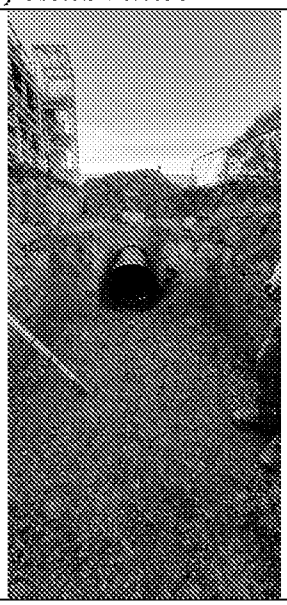
Clean & Final Testing	Comments
Yes	

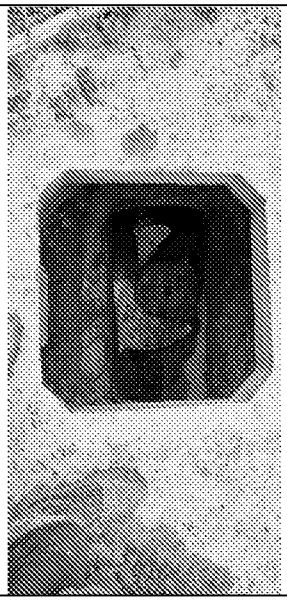
Post Construction

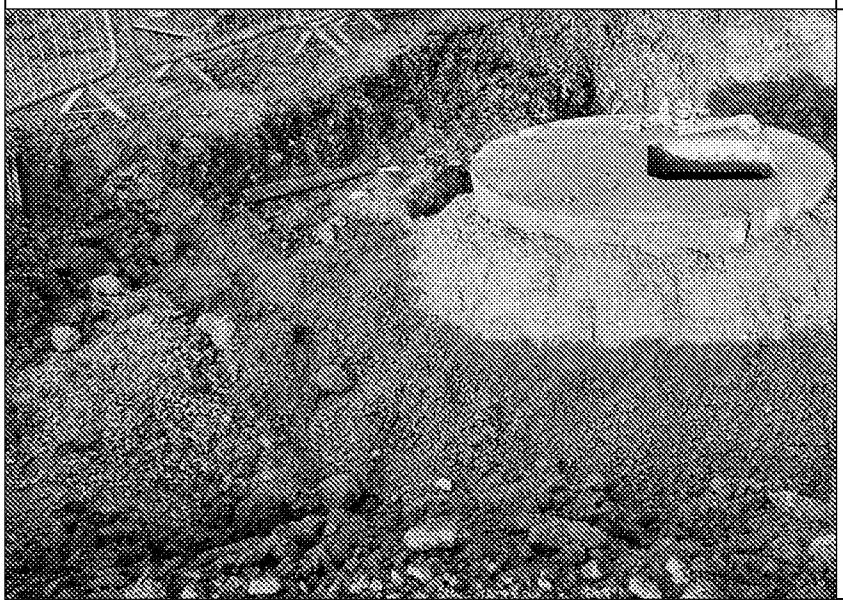
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
11-12-2023		16-01-2024
Client Comments		

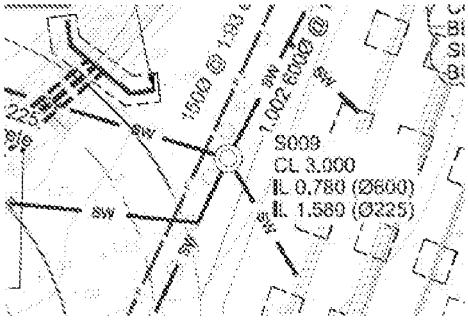
Other sign-off Signatures				
Signature	Name	Company	Date	Comments

Excavation / Temporary Works Photos	Comments
	

Benching	Comments
	WIP - Benching to be completed when weather allows.

Surround Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750I	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 68 - S009 to S012	Specification Ref.:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
0.780	0.693	49.347	0.176

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
0.762	0.674	49.347	0.178

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Twinwall	600mm	GEN3

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

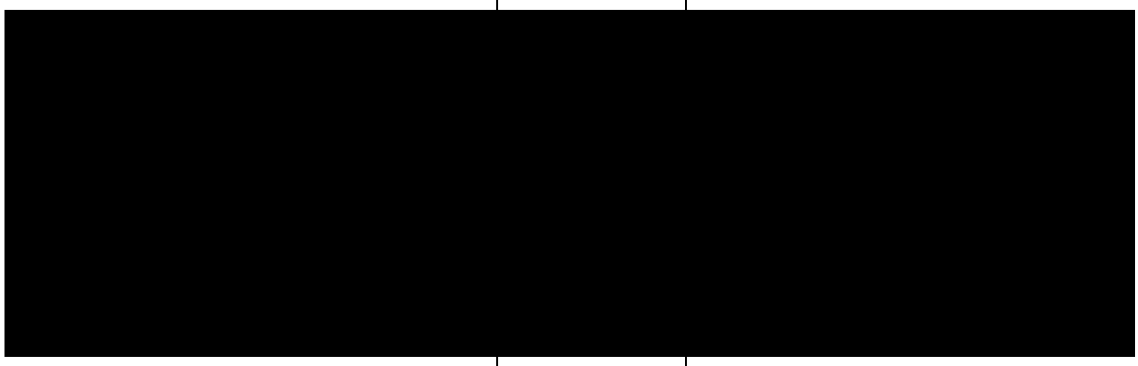
Backfill Material	Compaction Method	Comments
Type 1	Rammax	

Pipe Test (Results)	Comments
Pass	

Client Comments

Post-Construction

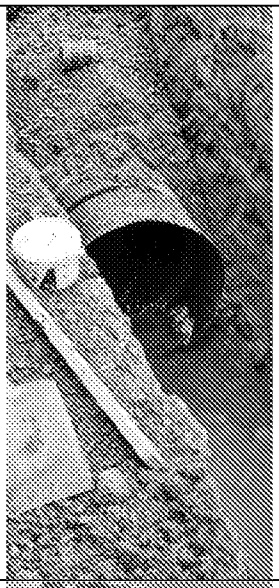
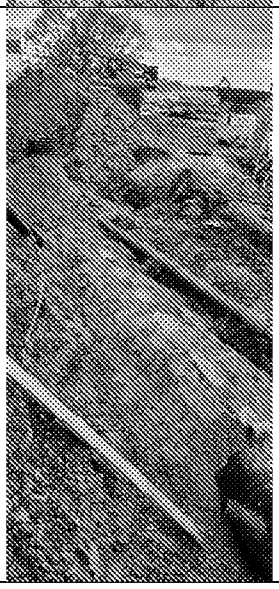
i	**Ensure all completed items are protected from weather and third-party damage**
ii	**CCTV survey completed prior to any hard landscaping / floor construction over runs?**
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

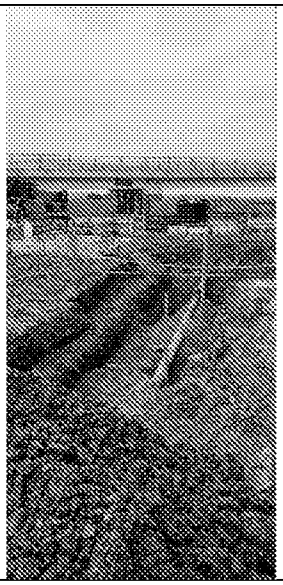
Sign-off		
Gallagher		Client
		
George Mcgearty		Bren Starbuck
29-11-2023		01-12-2023

Client Comments

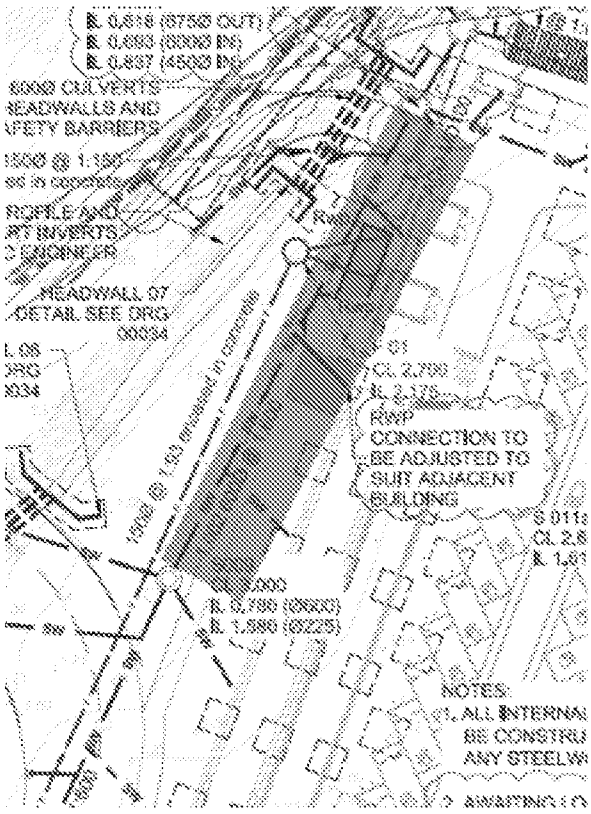
Other Sign-offs

Signature	Name	Company	Date	Comments
			29-11-2023	

Attachments	
Pipe Photos	Comments
	
	

Backfill Photos	Comments
	Shingle round Y junctions (exposed at later date)

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date:	15-05-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location	S010	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
1.272	N/A	

Concrete Level	Concrete Type	Comments
1.522	GEN 3	

Type	Size / Diameter	Comments
Precast Ring	1350mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments

Twinwall	225mm	1.573	
Twinwall	150mm	1.722	
Twinwall	150mm	1.729	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	375mm	1.522	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck

20-09-2023		20-09-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
F900	150	600*600	

IMPORTANT NOTE - The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

Final Testing

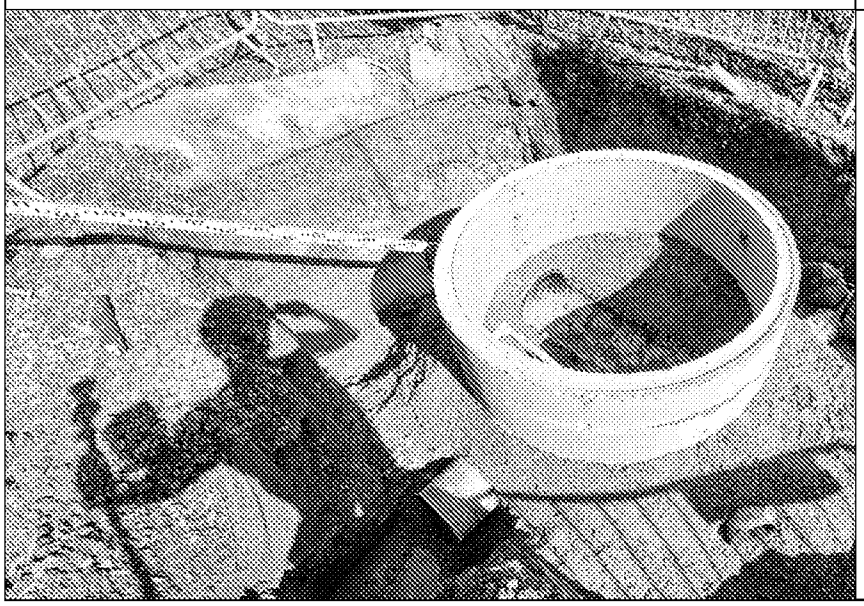
Clean & Final Testing	Comments
Yes	

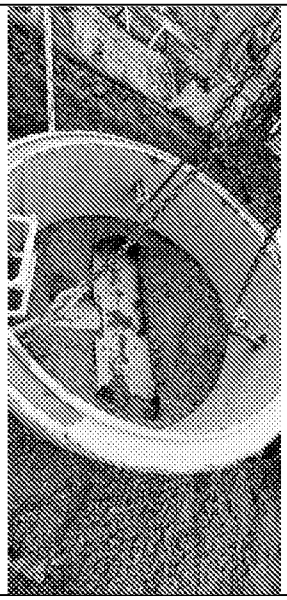
Post-Construction

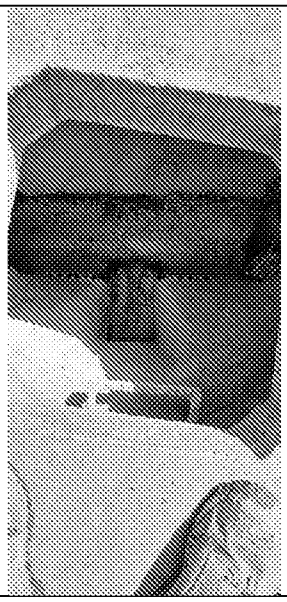
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

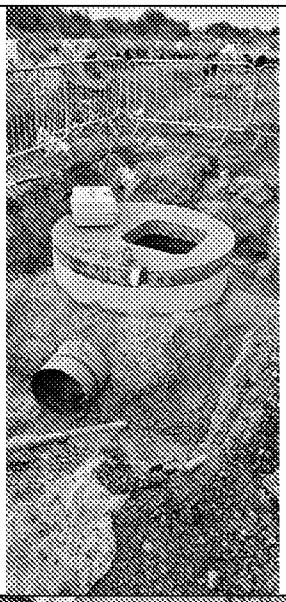
Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
22-09-2023		25-09-2023
Client Comments		

Other sign-off Signatures				
Signature	Name	Company	Date	Comments

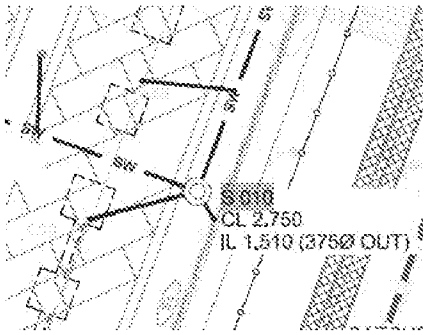
Excavation / Temporary Works Photos	Comments
	

Benching	Comments
	

Surround Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date:	15-05-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location	S010A	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
1.604	N/A	

Concrete Level	Concrete Type	Comments
1.829	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1200mm	Biscuit only

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments

Twinwall	150mm	1.835	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	225mm	1.829	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
22-09-2023		25-09-2023

Client Comments

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
F900	150	600*600	

IMPORTANT NOTE - The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

Final Testing

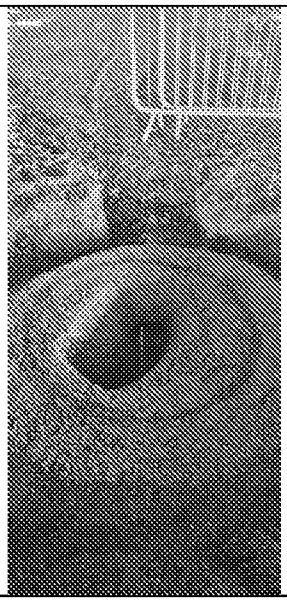
Clean & Final Testing	Comments
Yes	

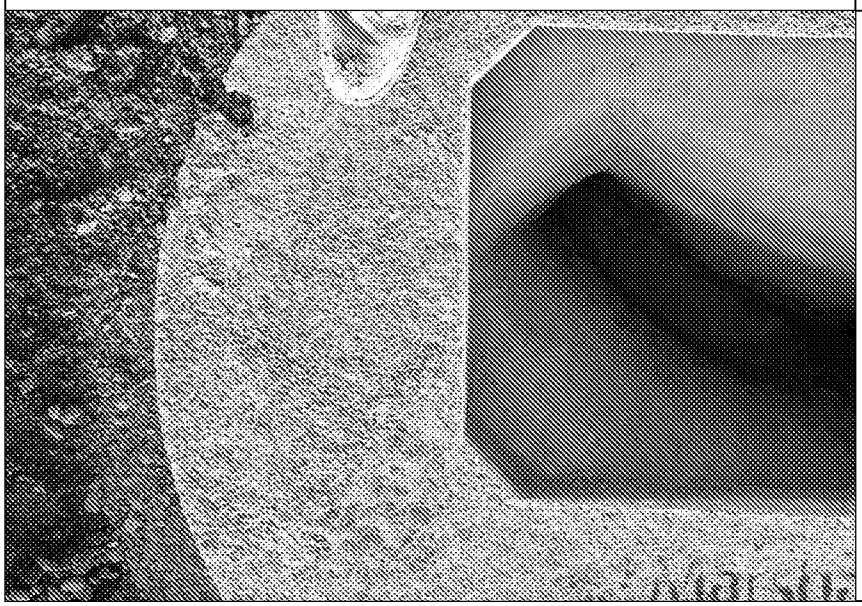
Post-Construction

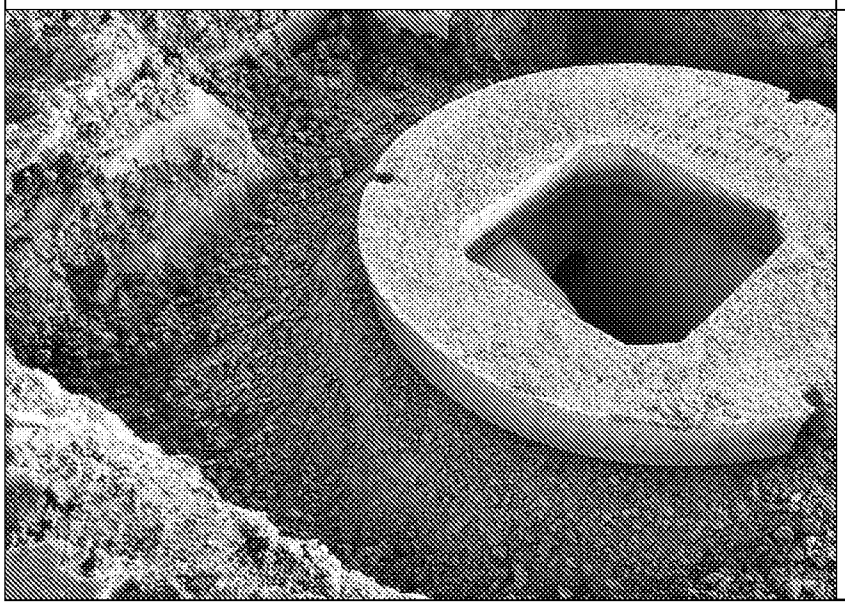
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
25-09-2023		26-09-2023
Client Comments		

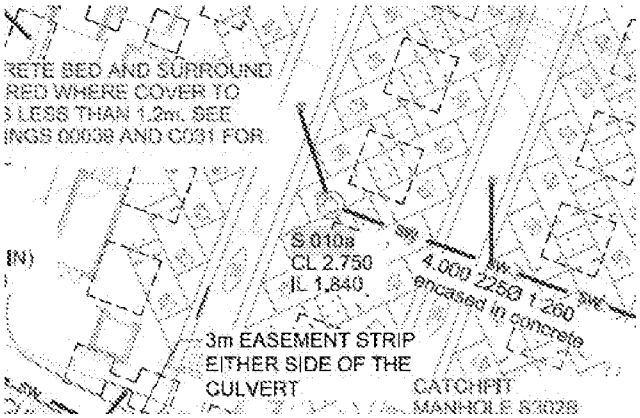
Other sign-off Signatures				
Signature	Name	Company	Date	Comments

Excavation / Temporary Works Photos	Comments
	

Benching	Comments
	

Surround Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date:	15-05-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location	S011	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
0.898	N/A	

Concrete Level	Concrete Type	Comments
1.148	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1350mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments

Twinwall	375mm	1.221	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	450mm	1.148	

Benching (If Applicable)	Comments
Yes	

Surrounds

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
02-10-2023		04-10-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
D400	150	600*600	

IMPORTANT NOTE - The full size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

Final Testing

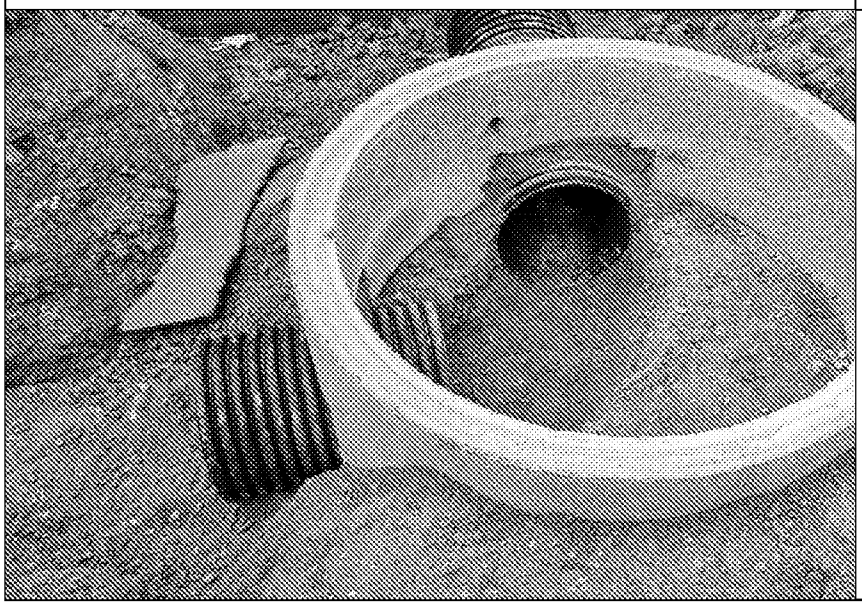
Clean & Final Testing	Comments
Yes	

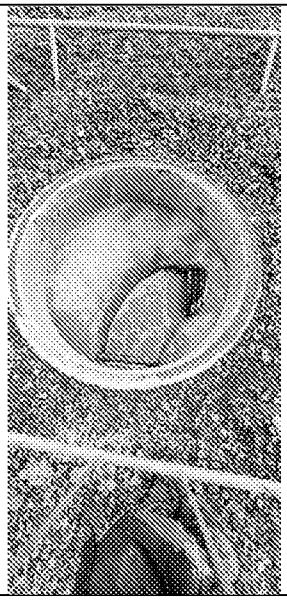
Post-Construction

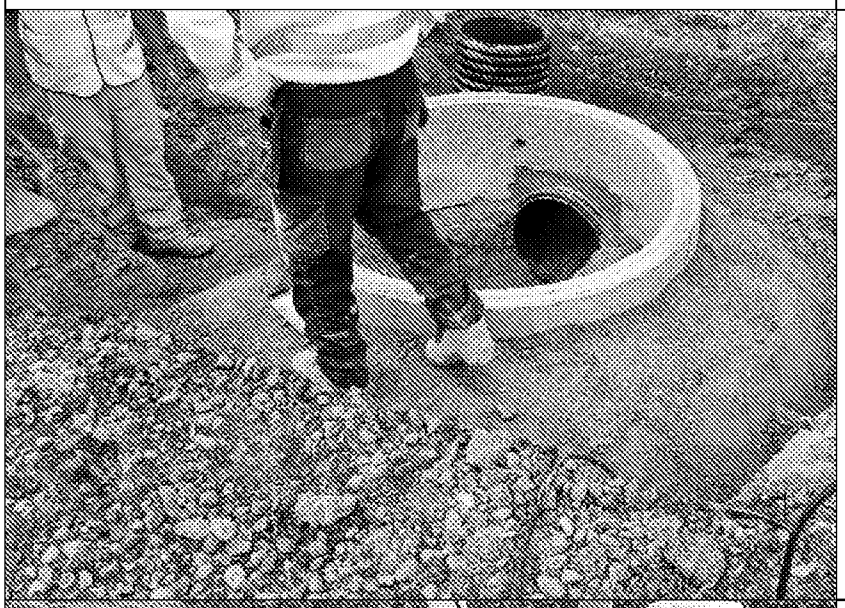
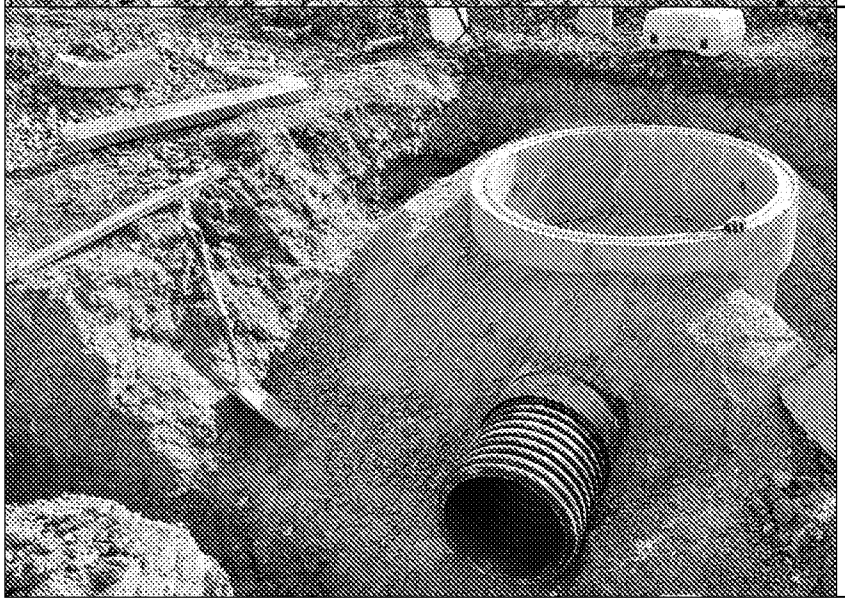
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
16-10-2023		16-10-2023
Client Comments		

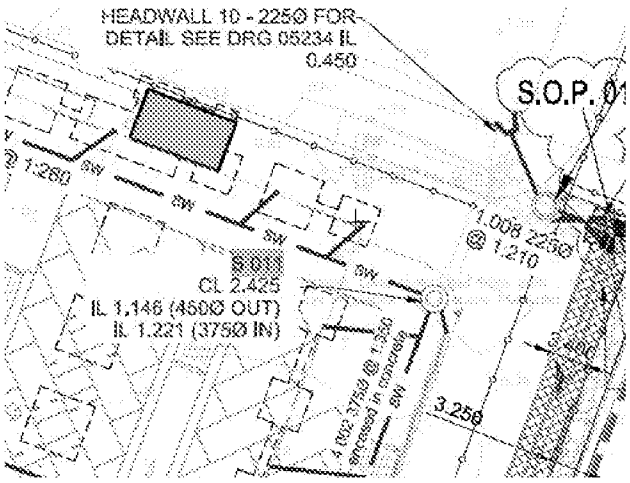
Other sign-off Signatures				
Signature	Name	Company	Date	Comments

Excavation / Temporary Works Photos	Comments
	

Benching	Comments
	

Surround Photos	Comments
	
	

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date:	15-05-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location	S011A	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
1.356	N/A	

Concrete Level	Concrete Type	Comments
1.606	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1200mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments

Twinwall	150mm	1.616	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	225mm	1.606	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
28-09-2023		29-09-2023

Client Comments

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
F900	150	600*600	

IMPORTANT NOTE - The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

Final Testing

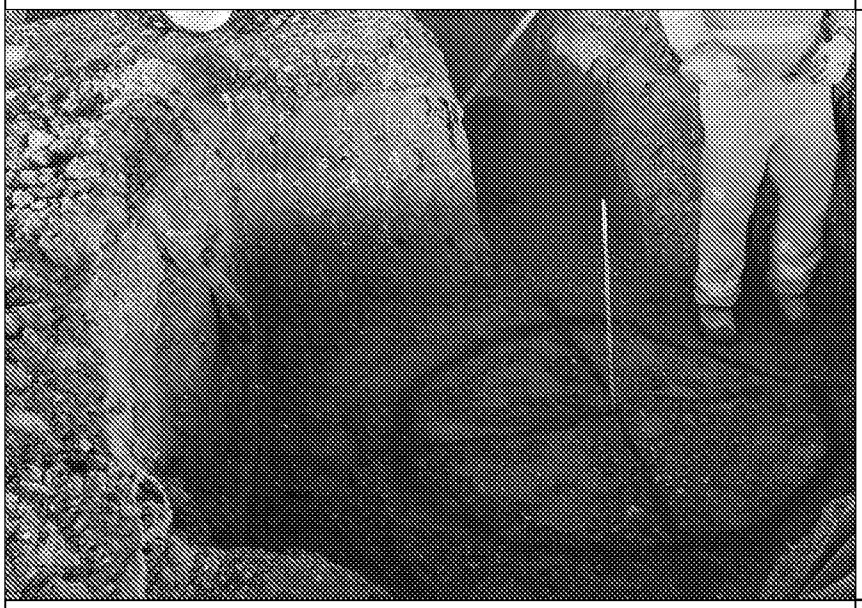
Clean & Final Testing	Comments
Yes	

Post-Construction

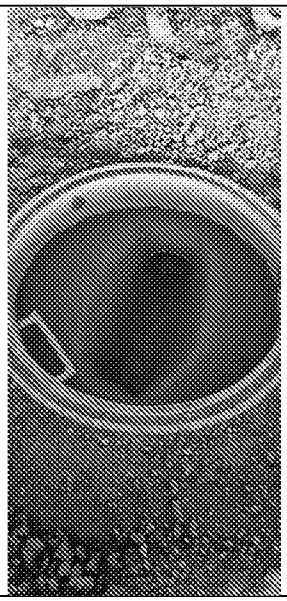
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

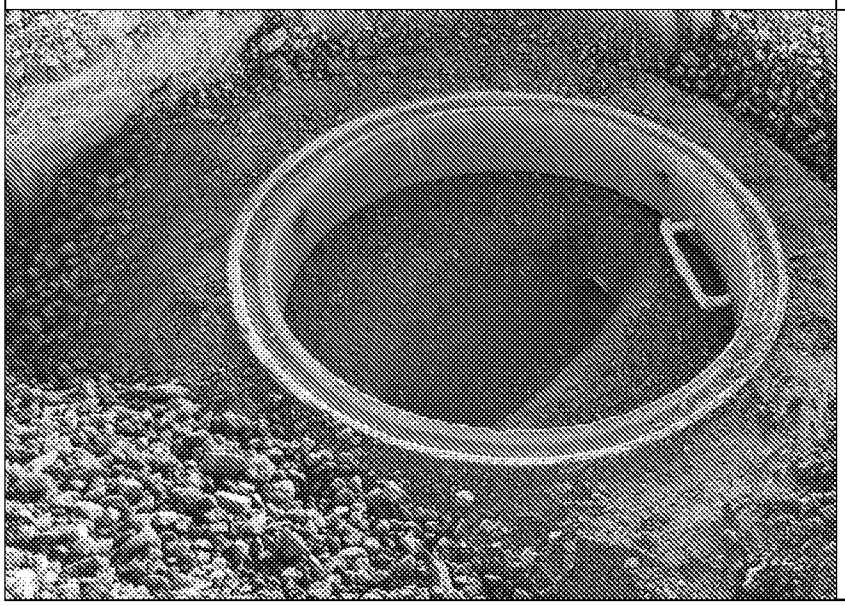
Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
29-09-2023		02-10-2023
Client Comments		

Other sign-off Signatures				
Signature	Name	Company	Date	Comments

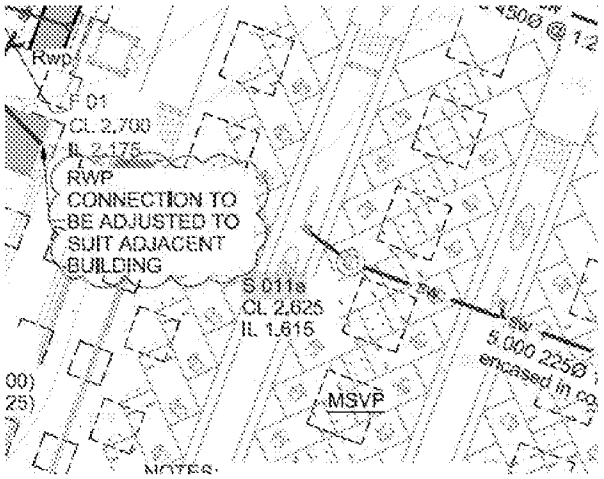
Excavation / Temporary Works Photos	Comments
	

Benching	Comments

Surround Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date:	15-05-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location	S011B	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
1.053	N/A	

Concrete Level	Concrete Type	Comments
1.303	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1350mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments

Twinwall	375mm	1.305	
Twinwall	225mm	1.338	
Twinwall	150mm	1.400	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	375mm	1.299	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	
GEN 3	150	

Cover Slab	Comments
Yes	
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Rammax	

Section Sign-off

Gallagher		Client

[redacted]		
George Mcgearty		Bren Starbuck
25-09-2023		26-09-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
F900	150	600*600	

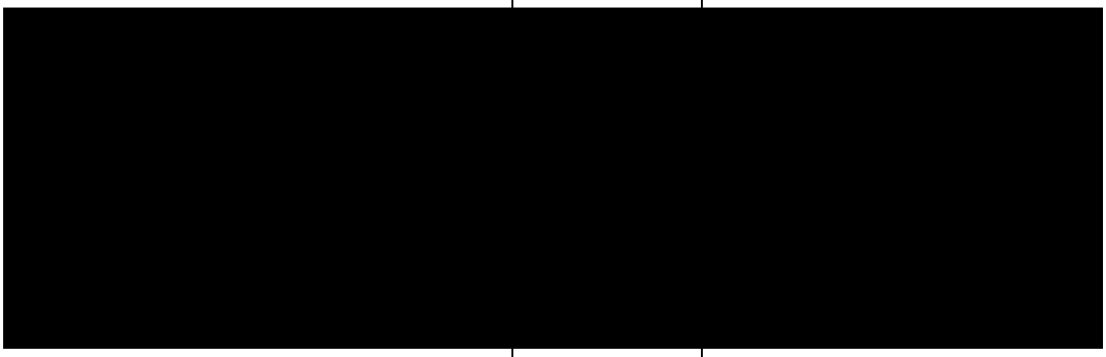
IMPORTANT NOTE - The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

Final Testing

Clean & Final Testing	Comments
Yes	

Post-Construction

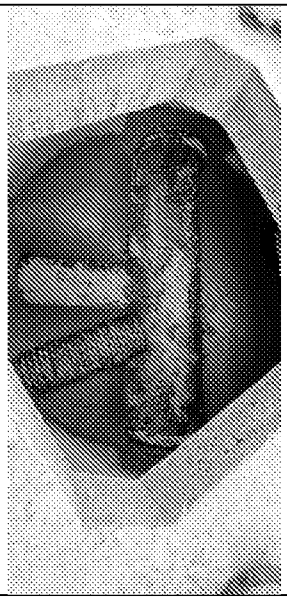
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

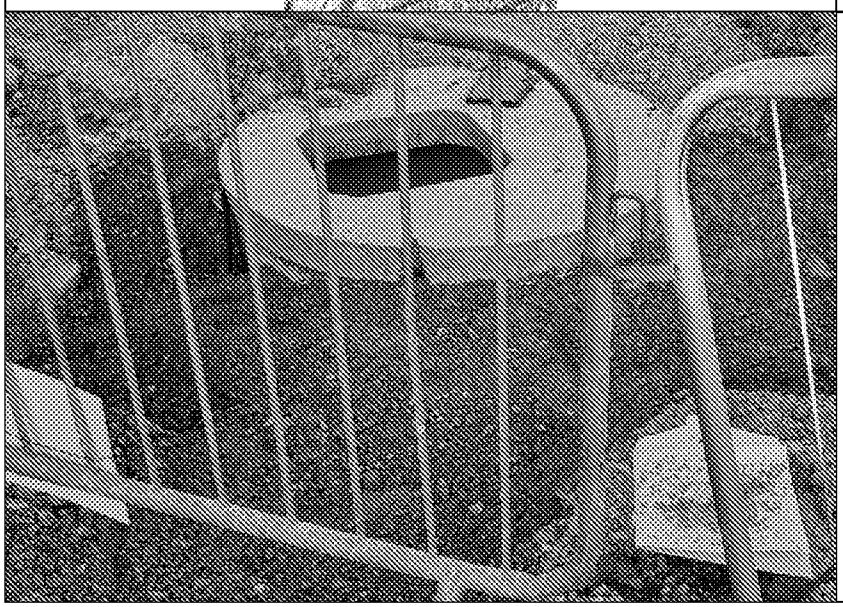


Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
03-10-2023		04-10-2023
Client Comments		

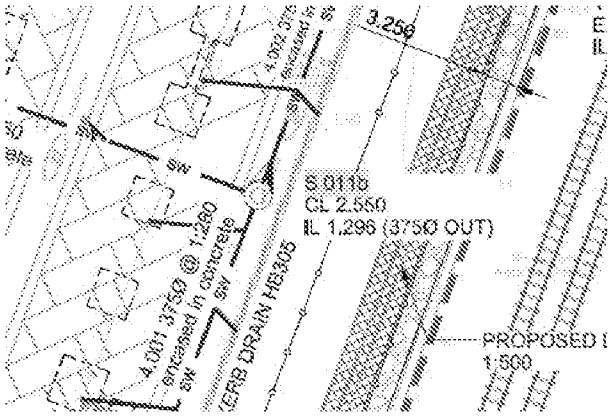
Other sign-off Signatures				
Signature	Name	Company	Date	Comments

Excavation / Temporary Works Photos	Comments

Benching	Comments
	

Surround Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date	15-05-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location	S012	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
0.151	N/A	

Concrete Level	Concrete Type	Comments
0.601	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1500mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	600mm	0.674	
Twinwall	450mm	0.831	

Pipe Type	Pipe Diameter	Invert Level	Comments

Twinwall	675mm	0.601	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
28-11-2023		29-11-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments

D400	150	600*600	

IMPORTANT NOTE - The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway

Final Testing

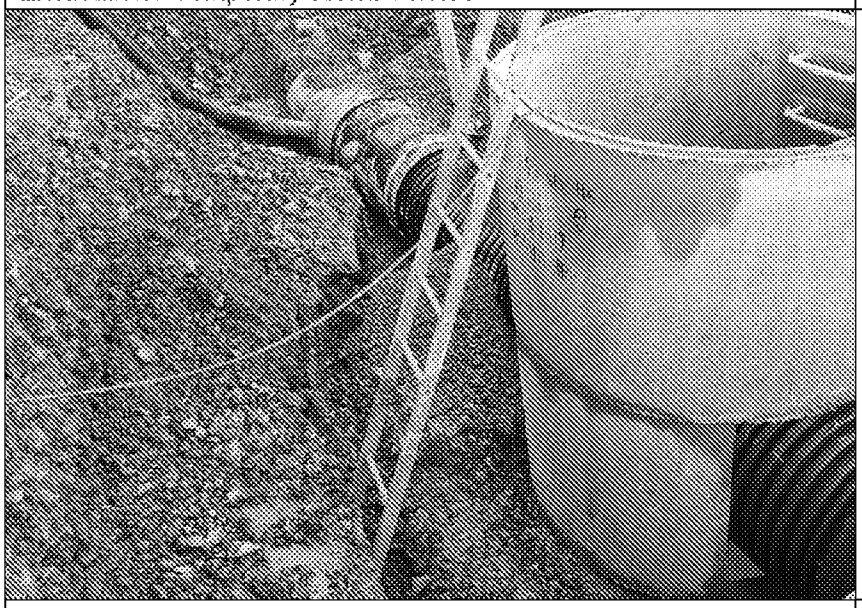
Clean & Final Testing	Comments
Yes	

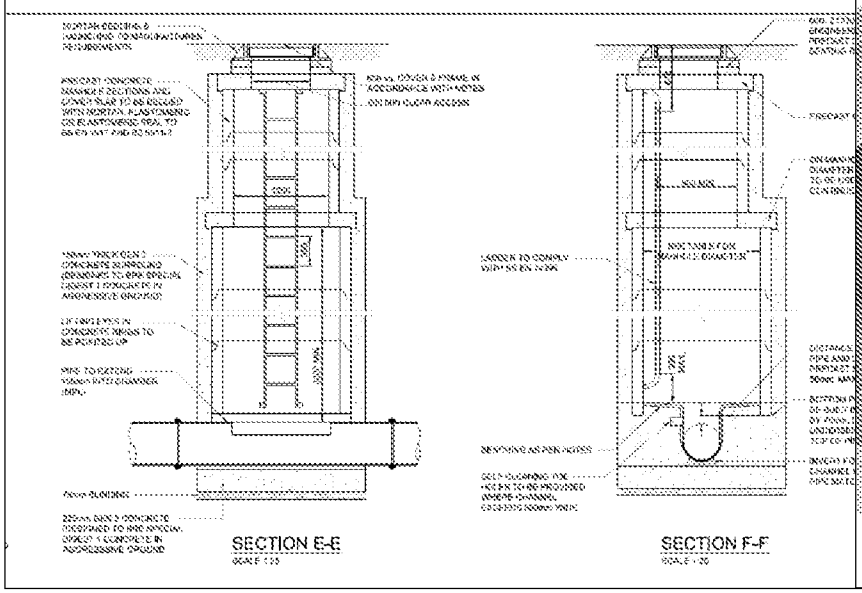
Post Construction

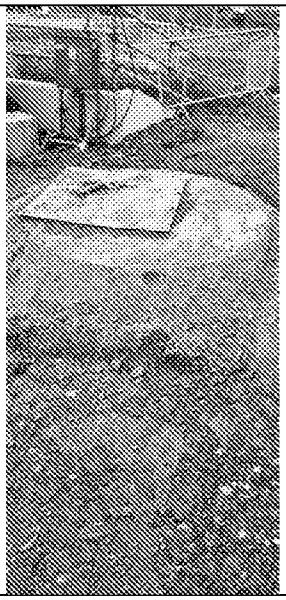
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
16-01-2024		17-01-2024
Client Comments		

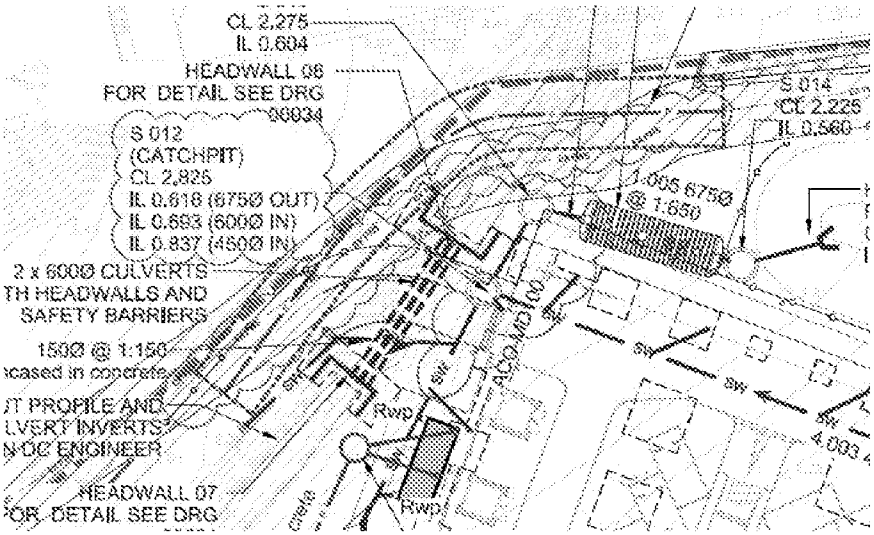
Other sign-off Signatures				
Signature	Name	Company	Date	Comments

Excavation / Temporary Works Photos	Comments
	450 IL to be cut

Benching	Comments
	

Surround Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Drainage

Project Title:	Amazon Bognor Regis	Project #:	750l	Date:	16-05-2023
Inspected By:	George Mcgearty	Drawing Ref:	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location:	Drainage 70 - S012 to S013	Specification Ref:	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

Construction Phase

Design

Upstream IL	Downstream IL	Linear Meterage	Calculated Gradient (%)
0.618	0.604	5.400	0.259

As-built

Upstream IL	Downstream IL	Linear Meterage	Gradient %
0.601	0.588	5.400	0.241

Pipe Installation & Backfill

Pipe Type	Pipe Diameter	Pipe Bed & Surround
Twinwall	675mm	GEN3

Flexcell	Pipe Test (Results)	Comments
Yes	Pass	

Backfill Material	Compaction Method	Comments
Type 1	Rammax	

Pipe Test (Results)	Comments
Pass	

Client Comments

	Post-Construction
i	Ensure all completed items are protected from weather and third-party damage
ii	CCTV survey completed prior to any hard landscaping / floor construction over runs?
CCTV comments	
iii	Attach a copy of the marked drawing to this check sheet

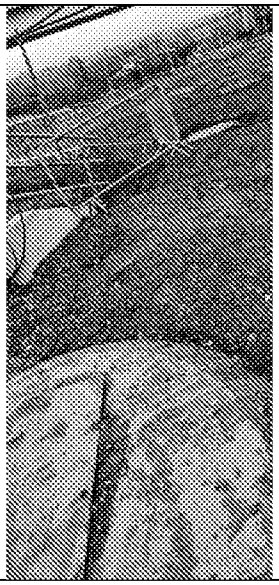
Sign-off		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
01-12-2023		06-12-2023

Client Comments

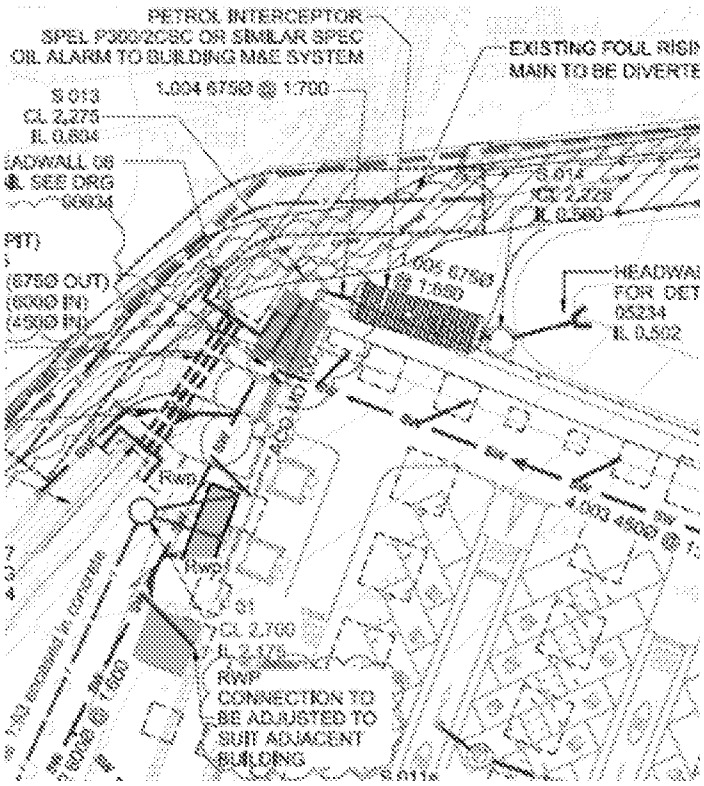
Other Sign-offs

Signature	Name	Company	Date	Comments
			01-12-2023	

Attachments	
Pipe Photos	Comments

Backfill Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date	15-05-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location	S013	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
0.337	N/A	

Concrete Level	Concrete Type	Comments
0.587	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1500mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	675mm	0.588	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	675mm	0.587	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
28-11-2023		29-11-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

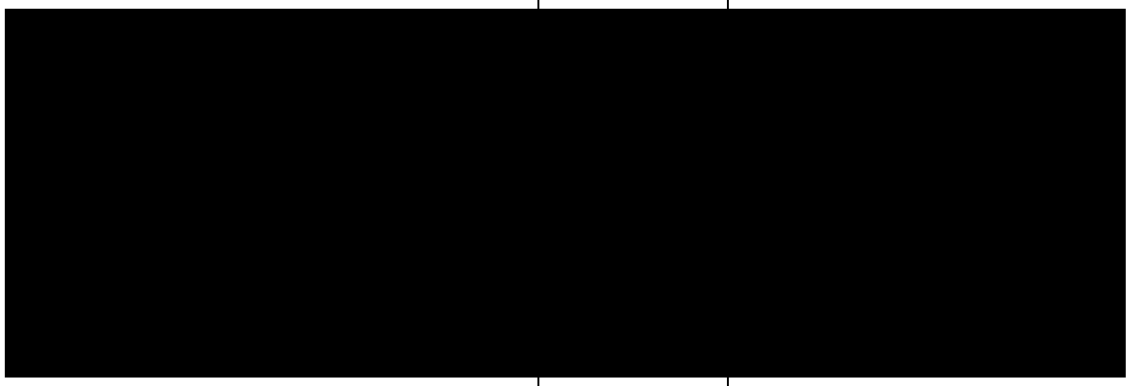
Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
D400	150	600*600	

IMPORTANT NOTE – The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

Final Testing	
Clean & Final Testing	Comments
Yes	

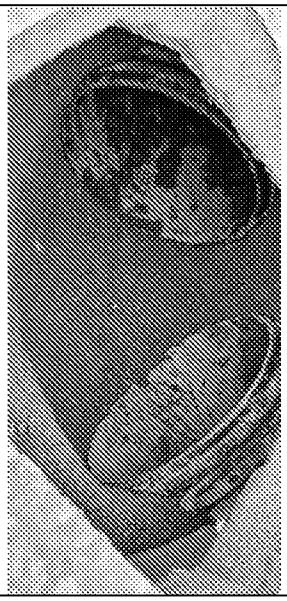
Post Construction		
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	



Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
11-12-2023		16-01-2024
Client Comments		

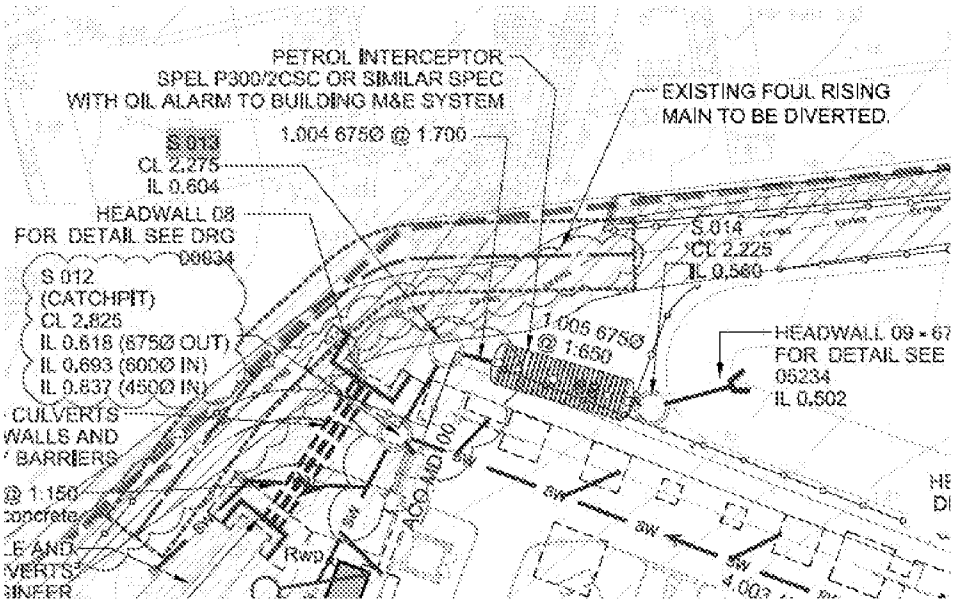
Other sign-off Signatures				
Signature	Name	Company	Date	Comments

Excavation / Temporary Works Photos	Comments

Benching	Comments
	WIP - Benching to be completed when weather permits.

Surround Photos	Comments

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date	15-05-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location	S014	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
0.204	Yes	

Concrete Level	Concrete Type	Comments
0.490	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1500	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	675mm	0.492	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	675mm	0.490	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Wacker Plate	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
28-11-2023		29-11-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
D400	150	600*600	

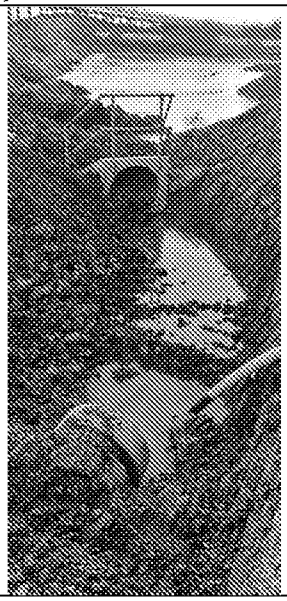
IMPORTANT NOTE – The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

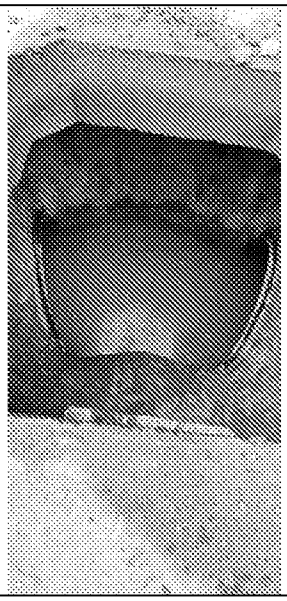
Final Testing	
Clean & Final Testing	Comments
Yes	

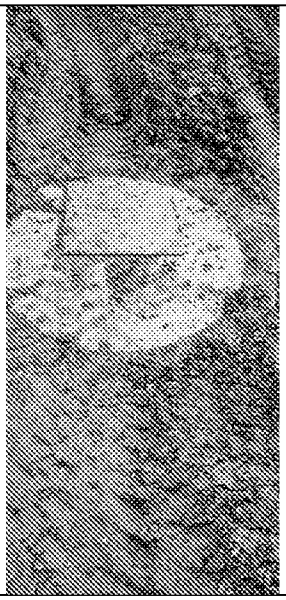
Post Construction		
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
24-01-2024		24-01-2024
Client Comments		

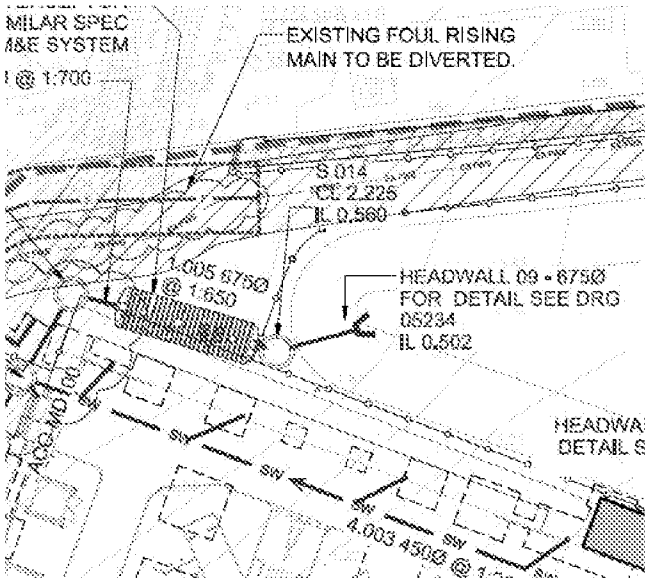
Other sign-off Signatures				
Signature	Name	Company	Date	Comments

Excavation / Temporary Works Photos	Comments
	

Benching	Comments
	

Surround Photos	Comments
	

Marked-up Drawing



QA Check Sheet – Manholes

Project Title	Amazon Bognor Regis	Project #	Project Number	Date	26-09-2023
Inspected By	George Mcgearty	Drawing Ref.	DBN5-ECE-ST-ZZ-D-C-05210-C01-EXTERNAL DRAINAGE LAYOUT DBN5-ECE-ST-ZZ-D-C-05230-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 1 DBN5-ECE-ST-ZZ-D-C-05231-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 2 DBN5-ECE-ST-ZZ-D-C-05232-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 3 DBN5-ECE-ST-ZZ-D-C-05233-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 4 DBN5-ECE-ST-ZZ-D-C-05234-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 5 DBN5-ECE-ST-ZZ-D-C-05235-C01-DRAINAGE CONSTRUCTION DETAILS SHEET 6 DBN5-ECE-ST-ZZ-L-C-00036-DWG[C02]-Schedule		
Area/Location	S015	Specification Ref.	DBN5 Specification		

Pre-Construction Phase

a) Ensure all relevant risk assessments and method statements are approved and operatives briefed.

b) Check all relevant designs/drawings are approved and operatives working to latest revisions.

c) Check that all materials used are approved and have been stored in accordance with manufacturers guidelines.

d) Ensure all required permits are issued to carry out the works, such as: Permit to dig, Permit to load, etc.

e) If Manhole position has been changed (eg: RFI, email), please note the changes in the comments box below.

Construction Phase

Setting Out - Line and Level	Yes

Level	Temp Works Req'd	Comments
0.168	N/A	

Concrete Level	Concrete Type	Comments
0.418	GEN 3	

Type	Size / Diameter	Comments
PCC Rings / Sections	1500mm	

Manhole Installation

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	225mm	0.418	

Pipe Type	Pipe Diameter	Invert Level	Comments
Twinwall	225mm	0.418	

Benching (If Applicable)	Comments
Yes	

Surround

Surround Type	Thickness (mm)	Comments
GEN 3	150	

Cover Slab	Comments
Yes	

Cover slab orientated to kerb line (where applicable)?	Yes

Backfilling

Material Type	Compaction Method	Comments
Type 1	Rammax	

Section Sign-off

Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
26-09-2023		15-11-2023
Client Comments		

PHASE 1 SIGN OFF TO BE PRINTED PRIOR TO CONTINUING TO NEXT STAGE

Covers & Frames

Cover Grade	Cover Depth (mm)	Cover Size	Comments
D400	150	600*600	

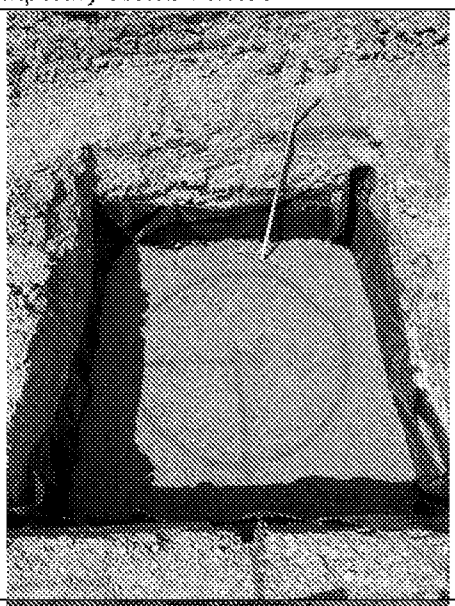
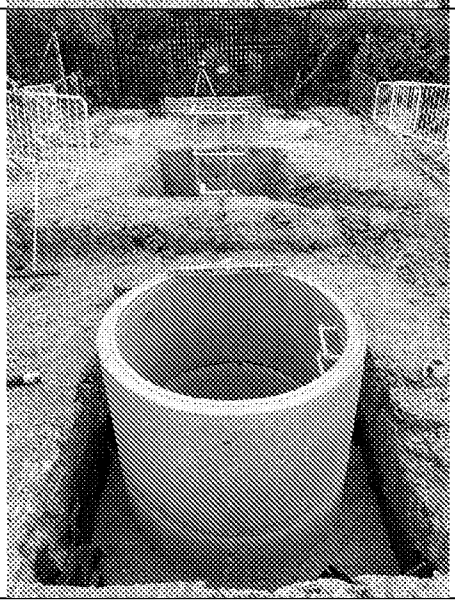
IMPORTANT NOTE – The full-size opening must be maintained when fitting the cover & frame. Any brickwork must be square with the cover slab opening & not impinge or overhang in anyway.

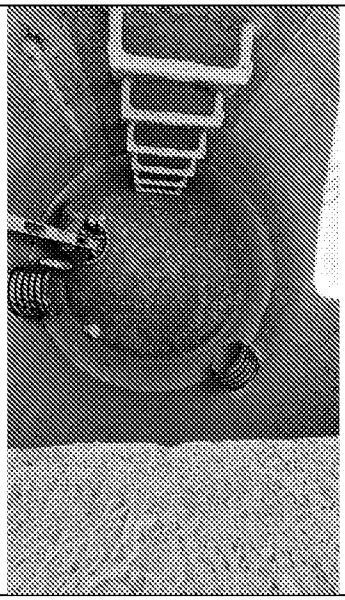
Final Testing	
Clean & Final Testing	Comments
Yes	

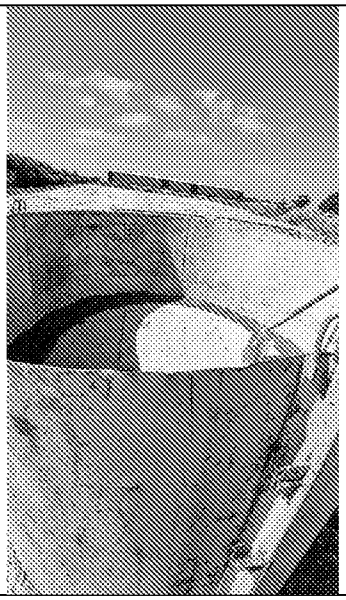
Post Construction		
i	Ensure all completed items are protected from weather and third-party damage	**Yes**
ii	Issue handover certificate to the client once all post-construction activities are completed, (as-built survey, snagging, NCR closeout and GL final inspection).	**Yes**
iii	Attach a copy of the marked drawing to this check sheet	

Final Sign-offs		
Gallagher		Client
[redacted]		
George Mcgearty		Bren Starbuck
15-11-2023		01-12-2023
Client Comments		

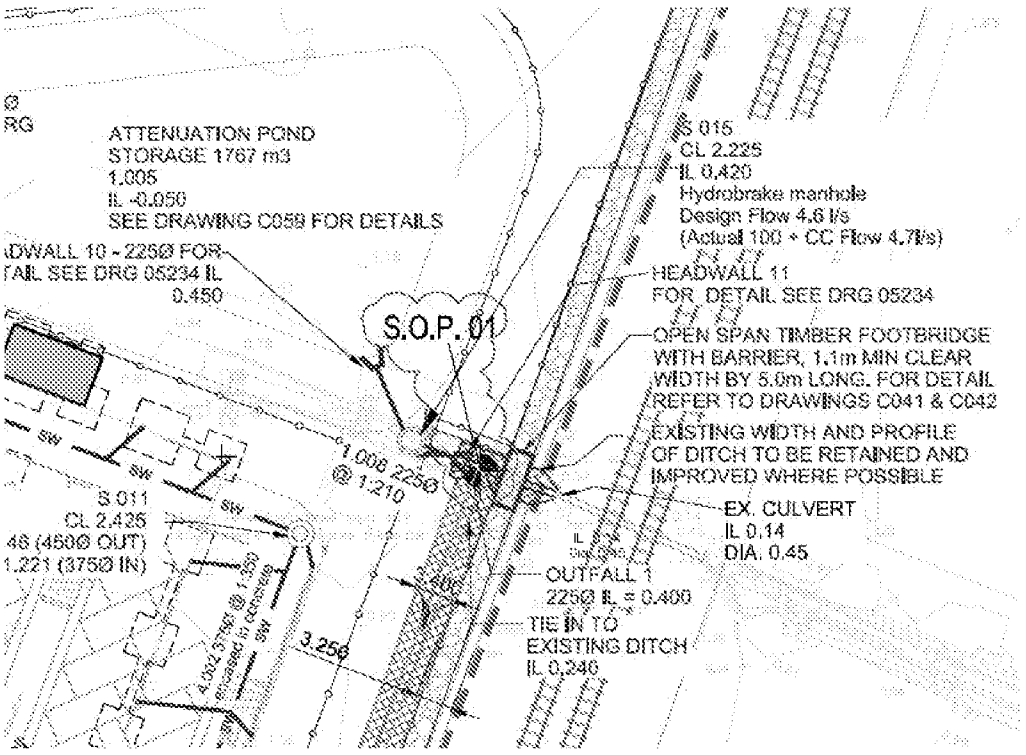
Other sign-off Signatures				
Signature	Name	Company	Date	Comments

Excavation / Temporary Works Photos	Comments
	
	

Benching	Comments
	

Surround Photos	Comments
	

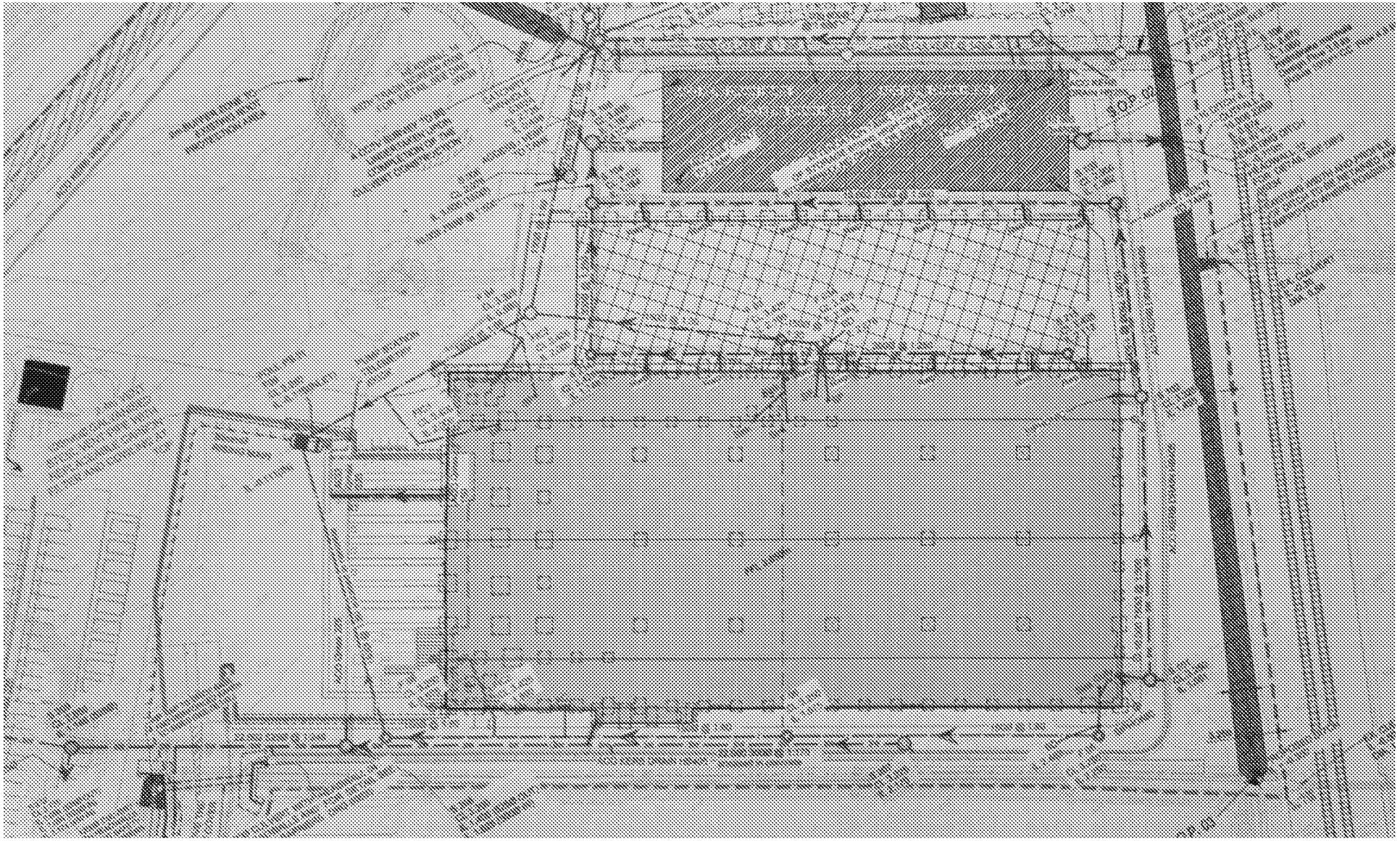
Marked-up Drawing



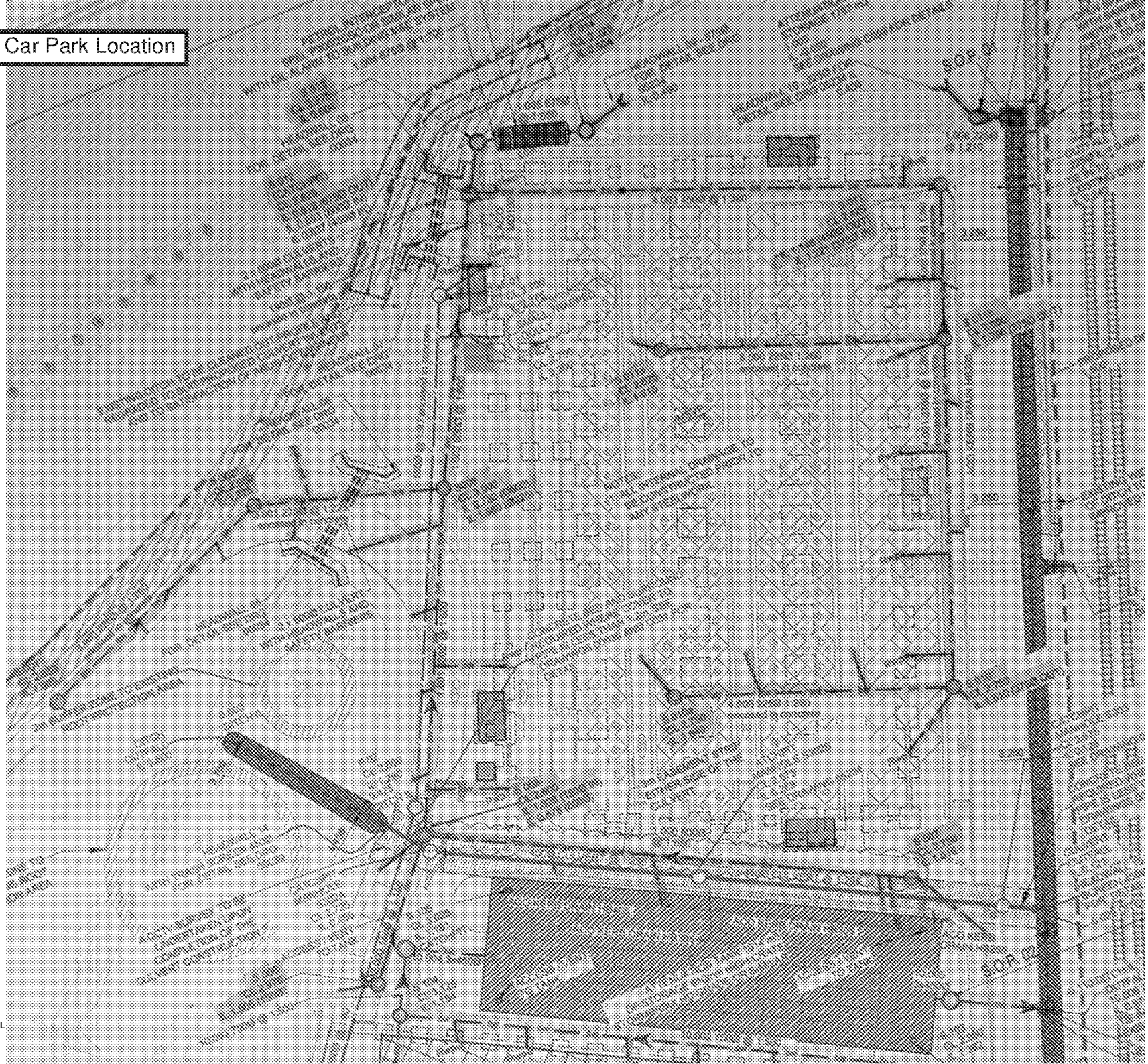
Appendix B – Locations

ARUN DISTRICT COUNCIL AL/87/21/PL

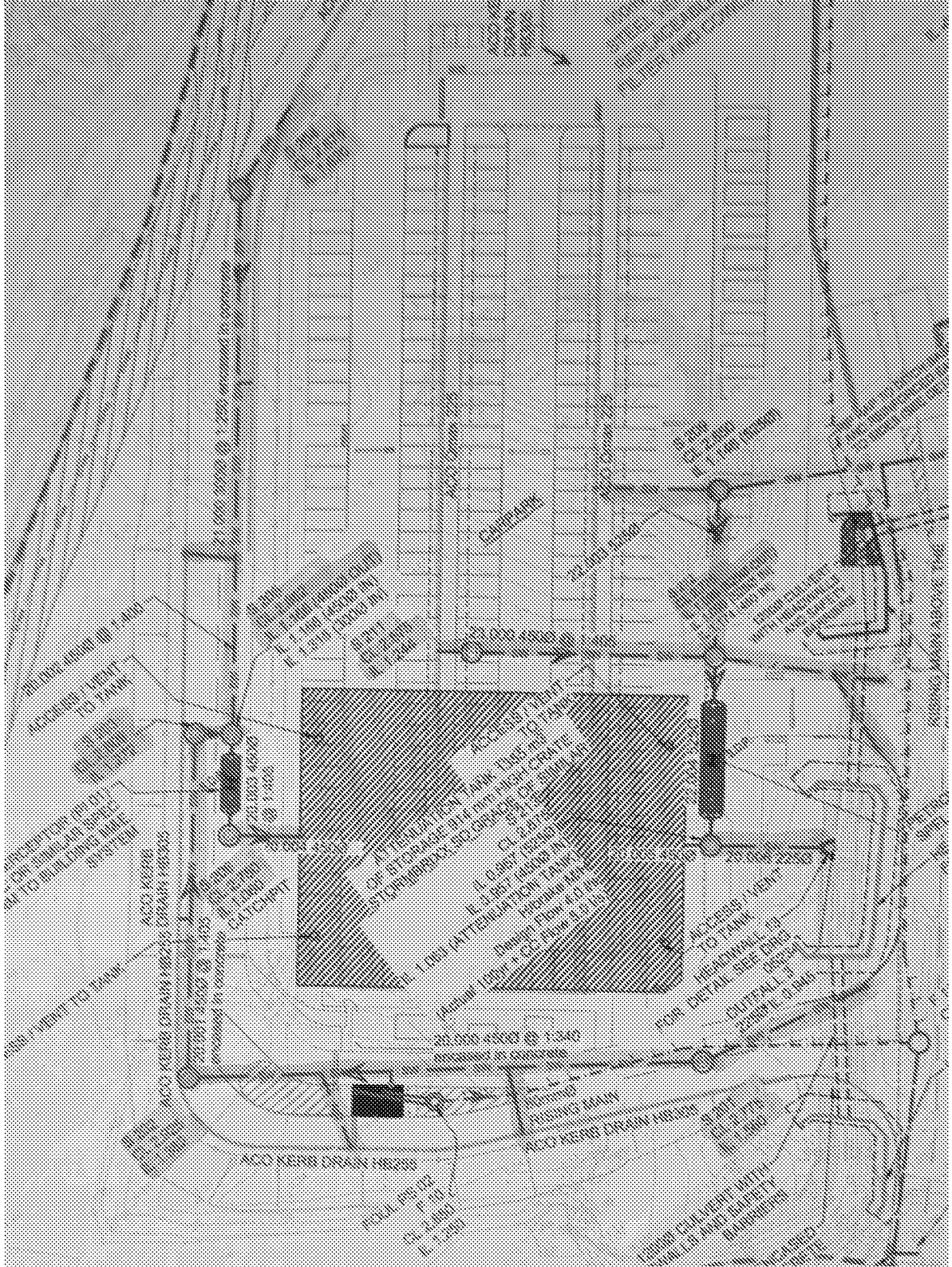
Warehouse Location

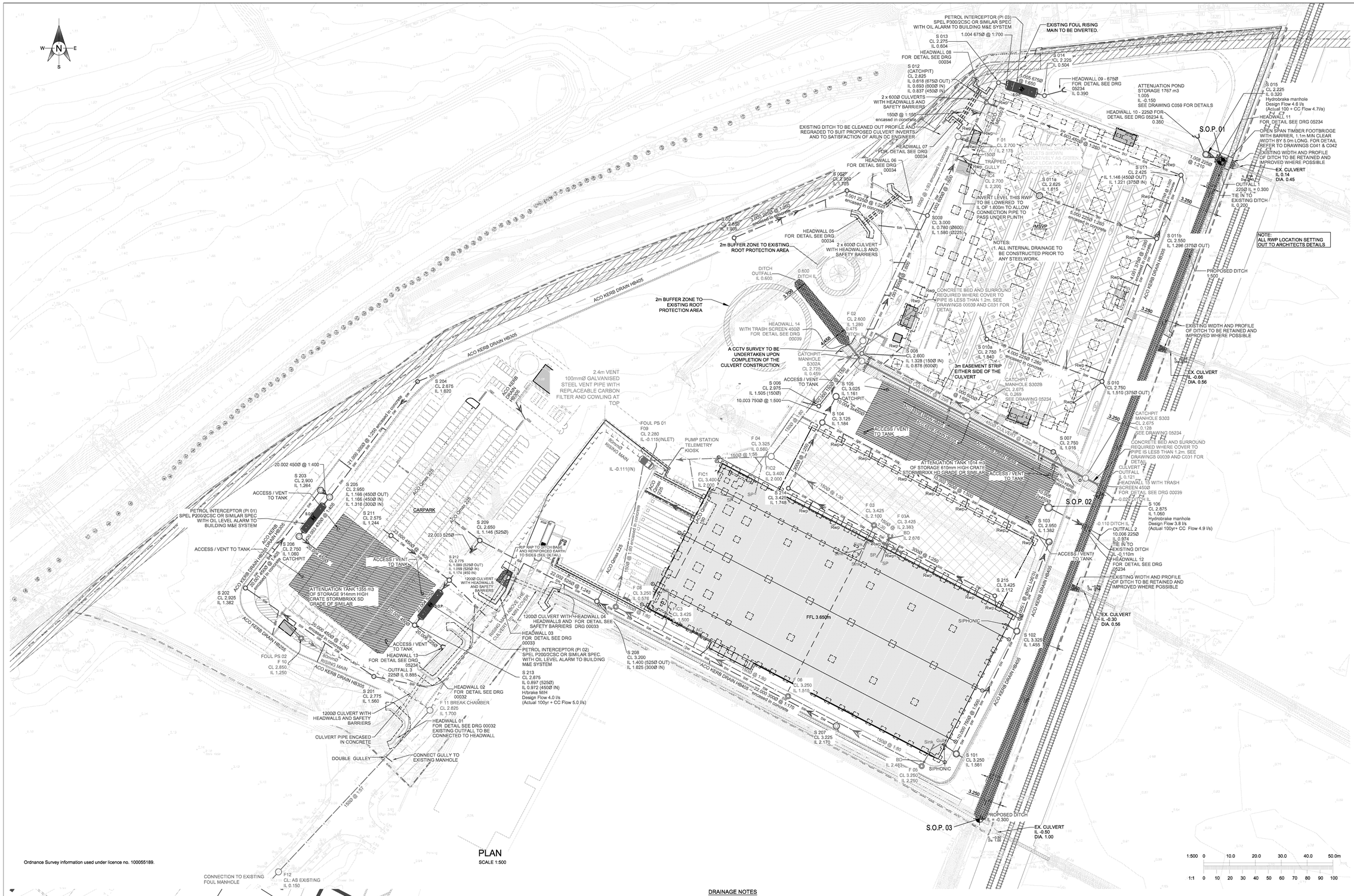


Multi-Storey Car Park Location



Car Park Location





Ordnance Survey information used under licence no. 100055189.

EASTERN DITCH SETTING OUT POINTS

SOP	Position X	Position Y	Position Z
S.O.P. 01	494700.265	101947.868	0.240m
S.O.P. 02	494653.132	101818.578	-0.029m
S.O.P. 03	494606.727	101693.470	-0.300m

NOTE:
SETTING OUT POINT ARE ON THE CENTRELINE AT THE BOTTOM OF THE CHANNEL.

DRAINAGE NOTES

1. All private drainage works are to be carried out in accordance with BS EN 752:2008 and Building Regulations Part H.
2. All drainage works to comply with the requirements of the Water UK/Water Research Centre publication 'Sewers for Adoption' (current edition).
3. All connections to existing public sewers to be in accordance with and to the satisfaction of the Local Authority.
4. Concrete protection (bedding class 'Z') to pipework to be provided as follows;
(i) all pipework within soft areas with a cover of less than 600mm.
(ii) all pipework beneath roads, car parks and all other trafficked hardstanding areas with a cover less than 1200mm.
(iii)all pipework adjacent to existing and proposed trees/dense vegetation in landscaped areas.
An expansion joint shall be provided at all joint locations.
5.All below ground foul drainage from within building footprint to be 100mm dia. @ 1:40 unless stated otherwise. all external below ground drainage outlet pipes (rwp's,gullies, slot/channel drains etc) to be 150mm dia. @ min 1:150 unless stated otherwise.
6. All pipework in manholes are to be laid soffit to soffit unless noted otherwise. all chamber invert levels, shown on the drawing, are for the outgoing pipe.
7. This drawing to be read in conjunction with all other relevant engineer's and architect's drawings, specifications and documentation.
8. The position and invert levels of all existing drains, sewers and manholes to be confirmed by the contractor prior to the commencement of the proposed works and any discrepancies reported immediately to Eireng consulting engineers.
9.All pipes are to have a class 's' bed and surround unless noted otherwise (see note 4 above).
10. All concrete pipes are to be high strength and to be in accordance with BS EN 1916 and BS 5911.
11. All vitrified clay pipes are to be in accordance with BS EN 295.
12. Drainage channels, slot drains and silt pits to be designed by a specialist manufacturer for critical storms of 75mm rainfall depth, to suit site conditions and in accordance with load class requirements as shown on the plan.location of all rodding access, inspection chambers & outlet boxes to be as per specialist manufacturers design.design to be submitted for comment to Eireng consulting engineers prior to ordering.
13. All external finished levels and manhole cover levels shown on this drawing are indicative and subject to adjustment on site to suit the finished ground levels. all existing manhole covers to be amended to suit finished ground levels and converted to trafficable where required including manhole build up and surround.
14.All levels are in metres and all dimensions are in millimetres unless noted otherwise.
15. Any coordinates provided for manholes or inspection chambers are relevant to the main drainage run intersection and not the centre of the manhole.
16. A CCTV drainage survey is to be carried out both at the pre-commencement of construction and at the completion of the contract to prove the integrity of the as-built drainage systems. at the completion of the contract this is to be carried out prior to the issue of the practical completion certificate.
17. Sewers, manholes, gullies, drainage channels and silt pits should be inspected at 6 monthly intervals and cleaned out at 12 monthly intervals. a full cctv survey should also be carried out at 10 yearly intervals. refer also to specialist drainage channel and petrol interceptor manufacturer's information and maintenance requirements.in all instances, inspection and cleaning should be carried out only by a specialist contractor and in accordance with the guidelines given in 'Safe Working In Sewers And At Sewage Works' published by national joint health and safety committee for the water services.
18.All covers to be in accordance with BS EN124 and the following load class;
- F900 - service yards
- D400 - carriageways, service roads and car parks. class F900 cover to be used if located in direct wheel track on service roads.
19. Contractor to allow for underground utility survey of existing site foul and surface water drainage network to confirm information provided. survey to be carried out and issued to Eireng consulting engineers at the outset of works
20. All manholes in concrete paved areas to be coordinated with concrete jointing layout. the contractor to prepare jointing layout before any manholes are installed.
19.Petrol interceptors to be installed to manufacturers requirements and must comply with BS EN 857-1 with appropriate silt capacity and oil & water level monitor and alarm systems.interceptors alarms to be connected to bms. all vent pipes for intercepters to be 75mm dia. and terminate 2.4m above ground, location to architects detail.
20. Petrol interceptors located in trafficable areas must be installed with a reinforced concrete slab beneath pavement finish designed to take vehicle loading.
23. Contractor to allow for dealing with surface water run off into excavations and groundwater by means of pumps, sumps and dewatering as appropriate, including all approvals/ permits necessary to keep the excavation as reasonably dry as possible.
24. For purposes of interceptor supplier detailing assume a depth of water table at subgrade level at interceptor location.
25. Existing ditches where affected by works to be filled in.

NO DIMENSION SHALL BE SCALED FROM THIS DRAWING. ALL DIMENSIONS SHALL BE STE CHECKED. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES BEFORE WORK PROCEEDS

Notes :-

1. If this drawing has been received electronically it is the recipients responsibility to print the document to the correct scale.
2. All dimensions are in (m) unless otherwise noted.
3. All levels are in metres above datum unless otherwise noted.
4. This drawing is to be read in conjunction with all the relevant Engineers', Services Engineers, Manufacturers & Architects drawings and specifications.
5. Manhole cover levels are approximate.
6. No part of any headwall to encroach into the profile of any ditch.
7. Root barrier to be Terram 'Rootguard' root barrier non woven geotextile or similar.
8. For manhole details see Drg No's 05230, 05232 & 05234
9. For tank and hydrobrake details see Drg 05235
10. For headwall details see Drg No's 05234 and Drgs 00032 - 00034.
11. All drawings subject to change resulting from planning conditions

LEGEND:

- PROPOSED SURFACE WATER SEWER
- PROPOSED SURFACE WATER MANHOLE
- PROPOSED SURFACE WATER CHANNEL DRAIN
- PROPOSED SURFACE WATER SLOT DRAIN
- PROPOSED KERB DRAIN
- FULL RETENTION PETROL INTERCEPTOR
- ATTENUATION TANK
- RODDING EYE
- GREEN WALL DRAINAGE OUTLET (SHOWN INDICATIVELY)
- PROPOSED FOUL SEWER
- PROPOSED FOUL SEWER MANHOLE
- PROPOSED FOUL INSPECTION ACCESS CHAMBER
- PROPOSED SOIL PIPE POP-UP.
- PROPOSED FOUL RISING MAIN
- ROAD GULLY
- PROPOSED CULVERT AND 3m EASEMENT
- PROPOSED SURFACE WATER SWALE
- EXISTING FOUL RISING MAIN AND 6m EASEMENT
- PROPOSED FOUL RISING MAIN DIVERSION AND EASEMENT. ASSUMED ROUTE TO BE VERIFIED ON SITE.
- PROPOSED FOUL RISING MAIN DIVERSION AND EASEMENT
- DENOTES RIP RAP APRON
- DENOTES REINFORCED EARTH
- FOOTPATH - PUBLIC RIGHT OF WAY FOOTPATH 152
- PROPOSED BUILDING
- PROPOSED CANOPY
- PROPOSED RETAINING WALL
- EXISTING TOPOGRAPHICAL INFORMATION
- EXISTING BUILDING
- SITE BOUNDARY

REV	DATE	BY	Aprvd.	DESCRIPTION
C11	16.10.23	LL	GW	CONSTRUCTION ISSUE - REVISED AS CLOUDED
C10	28.09.23	LL	GW	CONSTRUCTION ISSUE - REVISED AS CLOUDED
C09	12.09.23	LL	GW	CONSTRUCTION ISSUE - REVISED AS CLOUDED
C08	28.07.23	LL	GW	CONSTRUCTION ISSUE - REVISED AS CLOUDED
C07	21.07.23	LL	GW	CONSTRUCTION ISSUE - REVISED AS CLOUDED
C06	19.07.23	LL	GW	CONSTRUCTION ISSUE - REVISED AS CLOUDED
C05	06.07.23	LL	GW	CONSTRUCTION ISSUE - REVISED AS CLOUDED
C04	15.06.23	LL	GW	CONSTRUCTION ISSUE - REVISED AS CLOUDED
C03	01.06.23	LL	GW	CONSTRUCTION ISSUE - REVISED AS CLOUDED
REVISIONS				

CLIENT: amazon

PROJECT TITLE: OLDLANDS FARM, BOGNOR

DRAWING TITLE: EXTERNAL DRAINAGE LAYOUT

EIR ENG CONSULTING ENGINEERS
IRELAND - Arena Court, Patrick Street, Tullamore, Co. Offaly, R35 F5W2 T: +353 1 5676767 E: info@eireng.com
UNITED KINGDOM - Cambridge House, Kestrel Way, Worthing, Sussex, BN13 3RT T: +44 1 903 814242 E: eireng.com

DRAWN BY	J Matveev	DATE 25.04.2021
ENG CHECK	G Webb	DATE 25.04.2021
APPROVED	E.Deasy	DATE 25.04.2021
SCALE	1:500 @ A0	JOB No. 212039
STATUS	CONSTRUCTION	REVISION C11
DWG No.	DBN5-ECE-ST-ZZ-D-C-05210	

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COLOUR DRAWING

Appendix C – DRAFT CCTV Survey

ARUN DISTRICT COUNCIL AL/87/21/PL

Project

Project Name:	Oldlands Farm (Proof Survey)
Project Description:	CCTV Survey
Project Status:	Pending
Project Date:	29/09/2023
Inspection Standard:	MSCC5 Sewers & Drainage GB (SRM5 Scoring)

EYES ON DRAINAGE

CCTV-Trace-Plot-Map-Repair

ARUN DISTRICT COUNCIL AL/87/21/PL

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

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Section Item 6: FIC3 > JN (FIC3X) 12
Section Item 7: SP1 > JN (SP1X) 14
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ARUN DISTRICT COUNCIL AL/87/21/PL

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Project Information

Project Name	Project Number	Project Date
Oldlands Farm (Proof Survey)		29/09/2023

Client

Company: Gallagher Group
Department: Leitrim House
Street: Little Preston
Town or City: Aylesford
County: Kent
Post Code: ME20 7NS
Phone: 01622 716543
Email: Info@gallagher-group.co.uk

Site

Department: Oldlands Farm
Town or City: Bognor Regis
County: West Sussex
Post Code: PO22 9FJ

Contractor

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

ARUN DISTRICT COUNCIL AL/87/21/PL

Scoring Summary

Project Name	Project Number	Project Date
Oldlands Farm (Proof Survey)		29/09/2023

Structural Defects

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

Service / Operational Condition

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

Abandoned Surveys

Section	PLR	Description
All inspections complete, none are abandoned.		

Information

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

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Profile

Project Name	Project Number	Project Date
Oldlands Farm (Proof Survey)		29/09/2023

Circular, 100 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
4	FP1	FIC3	26/09/2023	Oldlands Farm	Vitrified clay	12.30 m	12.30 m
5	FP2	FIC3	26/09/2023	Oldlands Farm	Polyvinyl chloride	8.60 m	8.60 m
6	FIC3	JN	26/09/2023	Oldlands Farm	Polyvinyl chloride	3.30 m	3.30 m
7	SP1	JN	26/09/2023	Oldlands Farm	Polyvinyl chloride	9.00 m	9.00 m
8	SP2	F 03A	26/09/2023	Oldlands Farm	Polyvinyl chloride	8.90 m	8.90 m
9	SINK1	F 03	26/09/2023	Oldlands Farm	Polyvinyl chloride	15.80 m	15.80 m
10	SINK2	JN	26/09/2023	Oldlands Farm	Polyvinyl chloride	9.10 m	9.10 m

Total: 7 Inspections x Circular 100 mm, 0 mm = 67.00 m Total Length and 67.00 m Inspected Length

Circular, 150 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
1	RWP	S 215	26/09/2023	Oldlands Farm	Polyvinyl chloride	3.60 m	3.60 m
3	F 05	F 06	26/09/2023	Oldlands Farm	Polyvinyl chloride	60.30 m	60.30 m
11	F 03A	F 03	26/09/2023	Oldlands Farm	Polyvinyl chloride	7.20 m	7.20 m
12	F 03	F 01	26/09/2023	Oldlands Farm	Polyvinyl chloride	48.70 m	48.70 m
13	F 06	F 08	26/09/2023	Oldlands Farm	Polyvinyl chloride	58.30 m	58.30 m
14	F 08	F 09	26/09/2023	Oldlands Farm	Polyvinyl chloride	44.40 m	44.40 m
15	F 01	F 09	26/09/2023	Oldlands Farm	Polyvinyl chloride	38.50 m	38.50 m
18	GY1	S 010a	27/09/2023	Oldlands Farm	Polyvinyl chloride	8.50 m	8.50 m
20	GY2	JN	27/09/2023	Oldlands Farm	Polyvinyl chloride	8.70 m	8.70 m
21	GY3	JN	27/09/2023	Oldlands Farm	Polyvinyl chloride	8.60 m	8.60 m
24	GY4	S 201	27/09/2023	Oldlands Farm	Polyvinyl chloride	20.80 m	20.80 m
25	GY5	JN	27/09/2023	Oldlands Farm	Polyvinyl chloride	11.00 m	11.00 m
26	GY6	S 212	27/09/2023	Oldlands Farm	Polyvinyl chloride	20.30 m	20.30 m
27	RWP1	JN	05/10/2023	Oldlands Farm	Polyvinyl chloride	3.90 m	3.90 m
28	RWP2	JN	05/10/2023	Oldlands Farm	Polyvinyl chloride	3.50 m	3.50 m
29	RWP3	JN	05/10/2023	Oldlands Farm	Polyvinyl chloride	3.50 m	3.50 m
30	RWP4	JN	05/10/2023	Oldlands Farm	Polyvinyl chloride	4.40 m	4.40 m
31	RWP5	JN	05/10/2023	Oldlands Farm	Polyvinyl chloride	4.70 m	4.70 m
32	RWP6	JN	05/10/2023	Oldlands Farm	Polyvinyl chloride	4.70 m	4.70 m
33	RWP7	JN	05/10/2023	Oldlands Farm	Polyvinyl chloride	4.70 m	4.70 m
34	RWP8	JN	05/10/2023	Oldlands Farm	Polyvinyl chloride	4.50 m	4.50 m
35	RWP9	JN	05/10/2023	Oldlands Farm	Polyvinyl chloride	4.50 m	4.50 m
36	RWP10	JN	05/10/2023	Oldlands Farm	Polyvinyl chloride	3.80 m	3.80 m
47	GY	S 011a	05/10/2023	Oldlands Farm	Polyvinyl chloride	4.00 m	4.00 m
48	GY7	JN	05/10/2023	Oldlands Farm	Polyvinyl chloride	15.20 m	15.20 m
52	GY8	JN	05/10/2023	Oldlands Farm	Polyvinyl chloride	11.60 m	11.60 m
53	GY9	S 212	05/10/2023	Oldlands Farm	Polyvinyl chloride	20.30 m	20.30 m
55	F 02	F 04	05/10/2023	Oldlands Farm	Polyvinyl chloride	58.20 m	58.20 m

Total: 28 Inspections x Circular 150 mm, 0 mm = 490.40 m Total Length and 490.40 m Inspected Length

Circular, 225 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
19	S 010a	S 101	27/09/2023	Oldlands Farm	Polyvinyl chloride	47.90 m	47.90 m
22	S106	Outfall 2	27/09/2023	Oldlands Farm	Polyvinyl chloride	14.00 m	14.00 m
46	S 011a	S 011b	05/10/2023	Oldlands Farm	Polyvinyl chloride	48.90 m	48.90 m

Total: 3 Inspections x Circular 225 mm, 0 mm = 110.80 m Total Length and 110.80 m Inspected Length

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Profile

Project Name	Project Number	Project Date
Oldlands Farm (Proof Survey)		29/09/2023

Circular, 300 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
2	S 215	S 214	26/09/2023	Oldlands Farm	Polyvinyl chloride	92.50 m	92.50 m
16	S 207	S 208	27/09/2023	Oldlands Farm	Polyvinyl chloride	108.20 m	108.20 m
17	S 214	S 104	27/09/2023	Oldlands Farm	Polyvinyl chloride	30.20 m	30.20 m
39	SRWP	S 101	05/10/2023	Oldlands Farm	Polyvinyl chloride	5.70 m	5.70 m
40	SRWP	S 102	05/10/2023	Oldlands Farm	Polyvinyl chloride	5.00 m	5.00 m

Total: 5 Inspections x Circular 300 mm, 0 mm = 241.60 m Total Length and 241.60 m Inspected Length

Circular, 375 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
44	S 010	S 011b	05/10/2023	Oldlands Farm	Polyvinyl chloride	57.70 m	57.70 m
45	S 011b	S 011	05/10/2023	Oldlands Farm	Polyvinyl chloride	24.90 m	24.90 m

Total: 2 Inspections x Circular 375 mm, 0 mm = 82.60 m Total Length and 82.60 m Inspected Length

Circular, 450 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
23	S 206	AT	27/09/2023	Oldlands Farm	Polyvinyl chloride	7.80 m	7.80 m
43	S 105	AT	05/10/2023	Oldlands Farm	Polyvinyl chloride	11.80 m	11.80 m
51	S 211	S 212	05/10/2023	Oldlands Farm	Polyvinyl chloride	26.00 m	26.00 m
54	S 201	S 202	05/10/2023	Oldlands Farm	Polyvinyl chloride	58.90 m	58.90 m

Total: 4 Inspections x Circular 450 mm, 0 mm = 104.50 m Total Length and 104.50 m Inspected Length

Circular, 525 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
49	S 208	S 209	05/10/2023	Oldlands Farm	Polyvinyl chloride	49.50 m	49.50 m
50	S 209	S 212	05/10/2023	Oldlands Farm	Polyvinyl chloride	17.40 m	17.40 m

Total: 2 Inspections x Circular 525 mm, 0 mm = 66.90 m Total Length and 66.90 m Inspected Length

Circular, 750 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
37	S 101	S 102	05/10/2023	Oldlands Farm	Polyvinyl chloride	50.60 m	50.60 m
38	S 102	S 103	05/10/2023	Oldlands Farm	Polyvinyl chloride	35.20 m	35.20 m
41	S 103	S 104	05/10/2023	Oldlands Farm	Polyvinyl chloride	97.50 m	97.50 m
42	S 104	S 105	05/10/2023	Oldlands Farm	Polyvinyl chloride	10.00 m	10.00 m

Total: 4 Inspections x Circular 750 mm, 0 mm = 193.30 m Total Length and 193.30 m Inspected Length

Total: 55 Inspections = 1357.10 m Total Length and 1357.10 m Inspected Length

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Summary

Project Name	Project Number	Project Date
Oldlands Farm (Proof Survey)		29/09/2023

Number of sections	55
Total length of sections	1357.10 m
Total length of inspected sections	1357.10 m
Total length of not inspected sections	0.00 m
Number of abandoned inspections	0
Number of section inspection photos	180
Number of section inspection videos	55
Number of section inspection scans	0
Number of section inclination measurements	0

PLR:	RWPX	**Upstream Node:**	RWP
Inspection Direction:	Upstream	**Downstream Node:**	S 215
Inspected Length:	3.60 m	**Dia/Height:**	150 mm
Total Length:	3.60 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: S 215
2	0.00	WL	Water level, 0% of the vertical dimension
3	3.10	LU	Line deviates up
4	3.60	MHF	Finish node, manhole, reference: RWP

PLR:	S 215X	**Upstream Node:**	S 215
Inspection Direction:	Downstream	**Downstream Node:**	S 214
Inspected Length:	92.50 m	**Dia/Height:**	300 mm
Total Length:	92.50 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: S 215.
2	0.00	WL	Water level, 0% of the vertical dimension
3	6.20	JN	Junction at 10 o'clock, 150mm dia
4	25.30	JN	Junction at 10 o'clock, 150mm dia
5	41.70	JN	Junction at 9 o'clock, 150mm dia
6	52.80	JN	Junction at 11 o'clock, 150mm dia
7	66.50	JN	Junction at 9 o'clock, 150mm dia
8	82.20	JN	Junction at 10 o'clock, 150mm dia
9	92.50	MHF	Finish node, manhole, reference: S 214

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Section Summary

Project Name	Project Number	Project Date
Oldlands Farm (Proof Survey)		29/09/2023

PLR:	F 05X	**Upstream Node:**	F 05
Inspection Direction:	Downstream	**Downstream Node:**	F 06
Inspected Length:	60.30 m	**Dia/Height:**	150 mm
Total Length:	60.30 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F 05
2	0.00	WL	Water level, 0% of the vertical dimension
3	60.30	MHF	Finish node, manhole, reference: F 06

PLR:	FP1X	**Upstream Node:**	FP1
Inspection Direction:	Upstream	**Downstream Node:**	FIC3
Inspected Length:	12.30 m	**Dia/Height:**	100 mm
Total Length:	12.30 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: FIC3
2	0.00	WL	Water level, 0% of the vertical dimension
3	11.80	LU	Line deviates up
4	12.30	MHF	Finish node, manhole, reference: FP1

PLR:	FP2X	**Upstream Node:**	FP2
Inspection Direction:	Upstream	**Downstream Node:**	FIC3
Inspected Length:	8.60 m	**Dia/Height:**	100 mm
Total Length:	8.60 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: FIC3
2	0.00	WL	Water level, 0% of the vertical dimension
3	2.30	LL	Line deviates left
4	2.50	LR	Line deviates right
5	7.90	LU	Line deviates up
6	8.60	MHF	Finish node, manhole, reference: FP2

PLR:	FIC3X	**Upstream Node:**	FIC3
Inspection Direction:	Downstream	**Downstream Node:**	JN
Inspected Length:	3.30 m	**Dia/Height:**	100 mm
Total Length:	3.30 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: FIC3
2	0.00	WL	Water level, 0% of the vertical dimension
3	1.00	LL	Line deviates left
4	1.00	LD	Line deviates down
5	1.80	LR	Line deviates right
6	3.30	BRF	Finish node, major connection without manhole, reference: JN

PLR:	SP1X	**Upstream Node:**	SP1
Inspection Direction:	Downstream	**Downstream Node:**	JN
Inspected Length:	9.00 m	**Dia/Height:**	100 mm
Total Length:	9.00 m	**Material:**	Polyvinyl chloride

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Summary

Project Name	Project Number	Project Date
Oldlands Farm (Proof Survey)		29/09/2023

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: SP1
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.50	REM	General remark
4	8.40	LL	Line deviates left
5	9.00	BRF	Finish node, major connection without manhole, reference: JN

PLR:	SP2X	**Upstream Node:**	SP2
Inspection Direction:	Downstream	**Downstream Node:**	F 03A
Inspected Length:	8.90 m	**Dia/Height:**	100 mm
Total Length:	8.90 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: SP2
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.50	REM	General remark
4	8.10	JN	Junction at 3 o'clock, 100mm dia
5	8.90	JN	Junction at 4 o'clock, 100mm dia

PLR:	SINK1X	**Upstream Node:**	SINK1
Inspection Direction:	Downstream	**Downstream Node:**	F 03
Inspected Length:	15.80 m	**Dia/Height:**	100 mm
Total Length:	15.80 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: SINK1
2	6.20	JN	Junction at 10 o'clock, 100mm dia
3	9.10	JN	Junction at 3 o'clock, 100mm dia
4	15.80	MHF	Finish node, manhole, reference: F 03

PLR:	SINK2X	**Upstream Node:**	SINK2
Inspection Direction:	Downstream	**Downstream Node:**	JN
Inspected Length:	9.10 m	**Dia/Height:**	100 mm
Total Length:	9.10 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: SINK2
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.50	REM	General remark
4	9.10	BRF	Finish node, major connection without manhole, reference: JN

PLR:	F 03AX	**Upstream Node:**	F 03A
Inspection Direction:	Upstream	**Downstream Node:**	F 03
Inspected Length:	7.20 m	**Dia/Height:**	150 mm
Total Length:	7.20 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F 03
2	0.00	WL	Water level, 0% of the vertical dimension
3	7.20	MHF	Finish node, manhole, reference: F 03A

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Section Summary

Project Name	Project Number	Project Date
Oldlands Farm (Proof Survey)		29/09/2023

PLR:	F 03X	**Upstream Node:**	F 03
Inspection Direction:	Downstream	**Downstream Node:**	F 01
Inspected Length:	48.70 m	**Dia/Height:**	150 mm
Total Length:	48.70 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F 03
2	0.00	WL	Water level, 0% of the vertical dimension
3	48.70	MHF	Finish node, manhole, reference: F 01

PLR:	F 06X	**Upstream Node:**	F 06
Inspection Direction:	Downstream	**Downstream Node:**	F 08
Inspected Length:	58.30 m	**Dia/Height:**	150 mm
Total Length:	58.30 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F 06
2	0.00	WL	Water level, 0% of the vertical dimension
3	32.20	JN	Junction at 12 o'clock, 100mm dia
4	42.90	JN	Junction at 2 o'clock, 100mm dia
5	58.30	MHF	Finish node, manhole, reference: F 08

PLR:	F 08X	**Upstream Node:**	F 08
Inspection Direction:	Downstream	**Downstream Node:**	F 09
Inspected Length:	44.40 m	**Dia/Height:**	150 mm
Total Length:	44.40 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F 08
2	0.00	WL	Water level, 10% of the vertical dimension
3	44.40	MHF	Finish node, manhole, reference: F 09

PLR:	F 01X	**Upstream Node:**	F 01
Inspection Direction:	Downstream	**Downstream Node:**	F 09
Inspected Length:	38.50 m	**Dia/Height:**	150 mm
Total Length:	38.50 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F 01
2	0.00	WL	Water level, 0% of the vertical dimension
3	4.80	JN	Junction at 10 o'clock, 100mm dia
4	24.60	JN	Junction at 10 o'clock, 150mm dia
5	38.50	MHF	Finish node, manhole, reference: F 09

PLR:	S 207X	**Upstream Node:**	S 207
Inspection Direction:	Upstream	**Downstream Node:**	S 208
Inspected Length:	108.20 m	**Dia/Height:**	300 mm
Total Length:	108.20 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: S 208
2	0.00	WL	Water level, 0% of the vertical dimension

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Section Summary

Project Name	Project Number	Project Date
Oldlands Farm (Proof Survey)		29/09/2023

No.	m+	Code	Observation
3	48.70	JN	Junction at 11 o'clock, 150mm dia
4	49.80	JN	Junction at 1 o'clock, 150mm dia
5	108.20	MHF	Finish node, manhole, reference: S 207

PLR:	S 214X	**Upstream Node:**	S 214
Inspection Direction:	Downstream	**Downstream Node:**	S 104
Inspected Length:	30.20 m	**Dia/Height:**	300 mm
Total Length:	30.20 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: S 214
2	0.00	WL	Water level, 0% of the vertical dimension
3	30.20	MHF	Finish node, manhole, reference: S 104

PLR:	GY1X	**Upstream Node:**	GY1
Inspection Direction:	Upstream	**Downstream Node:**	S 010a
Inspected Length:	8.50 m	**Dia/Height:**	150 mm
Total Length:	8.50 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: S 010a
2	0.00	WL	Water level, 0% of the vertical dimension
3	8.50	GYF	Finish node, gully, reference: GY1

PLR:	S 010aX	**Upstream Node:**	S 010a
Inspection Direction:	Downstream	**Downstream Node:**	S 101
Inspected Length:	47.90 m	**Dia/Height:**	225 mm
Total Length:	47.90 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: S 010a
2	0.00	WL	Water level, 0% of the vertical dimension
3	17.00	JN	Junction at 9 o'clock, 150mm dia
4	35.90	JN	Junction at 9 o'clock, 150mm dia
5	47.90	MHF	Finish node, manhole, reference: S 101

PLR:	GY2X	**Upstream Node:**	GY2
Inspection Direction:	Downstream	**Downstream Node:**	JN
Inspected Length:	8.70 m	**Dia/Height:**	150 mm
Total Length:	8.70 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	GY	Start node, gully, reference: GY2
2	0.00	WL	Water level, 0% of the vertical dimension
3	8.70	BRF	Finish node, major connection without manhole, reference: JN

PLR:	GY3X	**Upstream Node:**	GY3
Inspection Direction:	Downstream	**Downstream Node:**	JN
Inspected Length:	8.60 m	**Dia/Height:**	150 mm
Total Length:	8.60 m	**Material:**	Polyvinyl chloride

Section Summary

Project Name	Project Number	Project Date
Oldlands Farm (Proof Survey)		29/09/2023

No.	m+	Code	Observation
1	0.00	GY	Start node, gully, reference: GY3
2	0.00	WL	Water level, 0% of the vertical dimension
3	8.60	BRF	Finish node, major connection without manhole, reference: JN

PLR:	S106X	**Upstream Node:**	S106
Inspection Direction:	Upstream	**Downstream Node:**	Outfall 2
Inspected Length:	14.00 m	**Dia/Height:**	225 mm
Total Length:	14.00 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: Outfall 2
2	0.00	WL	Water level, 5% of the vertical dimension
3	14.00	CPF	Finish node, catchpit, reference: S106

PLR:	S 206X	**Upstream Node:**	S 206
Inspection Direction:	Downstream	**Downstream Node:**	AT
Inspected Length:	7.80 m	**Dia/Height:**	450 mm
Total Length:	7.80 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	CP	Start node, catchpit, reference: S 206
2	0.00	WL	Water level, 0% of the vertical dimension
3	7.80	MHF	Finish node, manhole, reference: AT

PLR:	GY4X	**Upstream Node:**	GY4
Inspection Direction:	Upstream	**Downstream Node:**	S 201
Inspected Length:	20.80 m	**Dia/Height:**	150 mm
Total Length:	20.80 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: S 201
2	0.00	WL	Water level, 0% of the vertical dimension
3	20.80	GYF	Finish node, gully, reference: GY4

PLR:	GY5X	**Upstream Node:**	GY5
Inspection Direction:	Downstream	**Downstream Node:**	JN
Inspected Length:	11.00 m	**Dia/Height:**	150 mm
Total Length:	11.00 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	GY	Start node, gully, reference: GY5
2	0.00	WL	Water level, 0% of the vertical dimension
3	11.00	BRF	Finish node, major connection without manhole, reference: JN

PLR:	GY6X	**Upstream Node:**	GY6
Inspection Direction:	Downstream	**Downstream Node:**	S 212
Inspected Length:	20.30 m	**Dia/Height:**	150 mm
Total Length:	20.30 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	GY	Start node, gully, reference: GY6
2	0.00	WL	Water level, 0% of the vertical dimension

Section Summary

Project Name	Project Number	Project Date
Oldlands Farm (Proof Survey)		29/09/2023

No.	m+	Code	Observation
3	6.40	JN	Junction at 9 o'clock, 150mm dia
4	20.30	MHF	Finish node, manhole, reference: S 212

PLR:	RWP1X	**Upstream Node:**	RWP1
Inspection Direction:	Downstream	**Downstream Node:**	JN
Inspected Length:	3.90 m	**Dia/Height:**	150 mm
Total Length:	3.90 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: RWP1
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.90	REM	General remark
4	3.20	LL	Line deviates left
5	3.20	LD	Line deviates down
6	3.90	BRF	Finish node, major connection without manhole, reference: JN

PLR:	RWP2X	**Upstream Node:**	RWP2
Inspection Direction:	Downstream	**Downstream Node:**	JN
Inspected Length:	3.50 m	**Dia/Height:**	150 mm
Total Length:	3.50 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: RWP2
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.50	REM	General remark
4	3.20	LD	Line deviates down
5	3.50	BRF	Finish node, major connection without manhole, reference: JN

PLR:	RWP3X	**Upstream Node:**	RWP3
Inspection Direction:	Downstream	**Downstream Node:**	JN
Inspected Length:	3.50 m	**Dia/Height:**	150 mm
Total Length:	3.50 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: RWP3
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.60	REM	General remark
4	3.50	BRF	Finish node, major connection without manhole, reference: JN

PLR:	RWP4X	**Upstream Node:**	RWP4
Inspection Direction:	Downstream	**Downstream Node:**	JN
Inspected Length:	4.40 m	**Dia/Height:**	150 mm
Total Length:	4.40 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: RWP4
2	0.00	WL	Water level, 0% of the vertical dimension
3	1.30	REM	General remark
4	4.40	BRF	Finish node, major connection without manhole, reference: JN

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Section Summary

Project Name	Project Number	Project Date
Oldlands Farm (Proof Survey)		29/09/2023

PLR:	RWP5X	**Upstream Node:**	RWP5
Inspection Direction:	Downstream	**Downstream Node:**	JN
Inspected Length:	4.70 m	**Dia/Height:**	150 mm
Total Length:	4.70 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: RWP5
2	0.00	WL	Water level, 0% of the vertical dimension
3	1.50	REM	General remark
4	4.70	BRF	Finish node, major connection without manhole, reference: JN

PLR:	RWP6X	**Upstream Node:**	RWP6
Inspection Direction:	Downstream	**Downstream Node:**	JN
Inspected Length:	4.70 m	**Dia/Height:**	150 mm
Total Length:	4.70 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: RWP6
2	0.00	WL	Water level, 0% of the vertical dimension
3	1.60	REM	General remark
4	4.70	BRF	Finish node, major connection without manhole, reference: JN

PLR:	RWP7X	**Upstream Node:**	RWP7
Inspection Direction:	Downstream	**Downstream Node:**	JN
Inspected Length:	4.70 m	**Dia/Height:**	150 mm
Total Length:	4.70 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: RWP7
2	0.00	WL	Water level, 0% of the vertical dimension
3	1.60	REM	General remark
4	4.70	BRF	Finish node, major connection without manhole, reference: JN

PLR:	RWP8X	**Upstream Node:**	RWP8
Inspection Direction:	Downstream	**Downstream Node:**	JN
Inspected Length:	4.50 m	**Dia/Height:**	150 mm
Total Length:	4.50 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: RWP8
2	0.00	WL	Water level, 0% of the vertical dimension
3	1.60	REM	General remark
4	4.50	BRF	Finish node, major connection without manhole, reference: JN

PLR:	RWP9X	**Upstream Node:**	RWP9
Inspection Direction:	Downstream	**Downstream Node:**	JN
Inspected Length:	4.50 m	**Dia/Height:**	150 mm
Total Length:	4.50 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: RWP9
2	0.00	WL	Water level, 0% of the vertical dimension

Section Summary

Project Name	Project Number	Project Date
Oldlands Farm (Proof Survey)		29/09/2023

No.	m+	Code	Observation
3	1.80	REM	General remark
4	4.50	BRF	Finish node, major connection without manhole, reference: JN

PLR:	RWP10X	**Upstream Node:**	RWP10
Inspection Direction:	Downstream	**Downstream Node:**	JN
Inspected Length:	3.80 m	**Dia/Height:**	150 mm
Total Length:	3.80 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: RWP10
2	0.00	WL	Water level, 0% of the vertical dimension
3	1.70	REM	General remark
4	3.80	BRF	Finish node, major connection without manhole, reference: JN

PLR:	S 101X	**Upstream Node:**	S 101
Inspection Direction:	Downstream	**Downstream Node:**	S 102
Inspected Length:	50.60 m	**Dia/Height:**	750 mm
Total Length:	50.60 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: S 101
2	0.00	WL	Water level, 0% of the vertical dimension
3	50.60	MHF	Finish node, manhole, reference: S 102

PLR:	S 102X	**Upstream Node:**	S 102
Inspection Direction:	Downstream	**Downstream Node:**	S 103
Inspected Length:	35.20 m	**Dia/Height:**	750 mm
Total Length:	35.20 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: S 102
2	0.00	WL	Water level, 0% of the vertical dimension
3	35.20	MHF	Finish node, manhole, reference: S 103

PLR:	SRWPX	**Upstream Node:**	SRWP
Inspection Direction:	Upstream	**Downstream Node:**	S 101
Inspected Length:	5.70 m	**Dia/Height:**	300 mm
Total Length:	5.70 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: S 101
2	0.00	WL	Water level, 0% of the vertical dimension
3	1.00	SC	Pipe size changes, new size(s), 225mm high
4	3.20	SC	Pipe size changes, new size(s), 150mm high
5	3.40	LU	Line deviates up
6	3.80	REM	General remark
7	5.40	LU	Line deviates up
8	5.70	MHF	Finish node, manhole, reference: SRWP

Section Summary

Project Name	Project Number	Project Date
Oldlands Farm (Proof Survey)		29/09/2023

PLR:	SRWPX	**Upstream Node:**	SRWP
Inspection Direction:	Upstream	**Downstream Node:**	S 102
Inspected Length:	5.00 m	**Dia/Height:**	300 mm
Total Length:	5.00 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: S 102
2	0.00	WL	Water level, 0% of the vertical dimension
3	0.80	SC	Pipe size changes, new size(s), 225mm high
4	2.20	SC	Pipe size changes, new size(s), 150mm high
5	2.40	LU	Line deviates up
6	2.70	REM	General remark
7	4.40	LU	Line deviates up
8	5.00	MHF	Finish node, manhole, reference: SRWP

PLR:	S 103X	**Upstream Node:**	S 103
Inspection Direction:	Upstream	**Downstream Node:**	S 104
Inspected Length:	97.50 m	**Dia/Height:**	750 mm
Total Length:	97.50 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: S 104
2	0.00	WL	Water level, 0% of the vertical dimension
3	8.50	JN	Junction at 2 o'clock, 150mm dia
4	20.20	JN	Junction at 2 o'clock, 150mm dia
5	37.60	JN	Junction at 2 o'clock, 150mm dia
6	49.50	JN	Junction at 2 o'clock, 150mm dia
7	62.90	JN	Junction at 3 o'clock, 150mm dia
8	80.90	JN	Junction at 3 o'clock, 150mm dia
9	92.20	JN	Junction at 3 o'clock, 150mm dia
10	97.50	MHF	Finish node, manhole, reference: S 103

PLR:	S 104X	**Upstream Node:**	S 104
Inspection Direction:	Downstream	**Downstream Node:**	S 105
Inspected Length:	10.00 m	**Dia/Height:**	750 mm
Total Length:	10.00 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: S 104
2	0.00	WL	Water level, 0% of the vertical dimension
3	10.00	CPF	Finish node, catchpit, reference: S 105

PLR:	S 105X	**Upstream Node:**	S 105
Inspection Direction:	Downstream	**Downstream Node:**	AT
Inspected Length:	11.80 m	**Dia/Height:**	450 mm
Total Length:	11.80 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	CP	Start node, catchpit, reference: S 105
2	0.00	WL	Water level, 0% of the vertical dimension

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Summary

Project Name	Project Number	Project Date
Oldlands Farm (Proof Survey)		29/09/2023

No.	m+	Code	Observation
3	11.80	OCF	Finish node, other special chamber, reference: AT

PLR:	S 010X	**Upstream Node:**	S 010
Inspection Direction:	Upstream	**Downstream Node:**	S 011b
Inspected Length:	57.70 m	**Dia/Height:**	375 mm
Total Length:	57.70 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: S 011b
2	0.00	WL	Water level, 0% of the vertical dimension
3	9.10	JN	Junction at 10 o'clock, 100mm dia
4	18.80	JN	Junction at 3 o'clock, 150mm dia
5	31.70	JN	Junction at 9 o'clock, 100mm dia
6	35.80	JN	Junction at 3 o'clock, 150mm dia
7	52.80	JN	Junction at 2 o'clock, 150mm dia
8	57.70	MHF	Finish node, manhole, reference: S 010

PLR:	S 011bX	**Upstream Node:**	S 011b
Inspection Direction:	Downstream	**Downstream Node:**	S 011
Inspected Length:	24.90 m	**Dia/Height:**	375 mm
Total Length:	24.90 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: S 011b
2	0.00	WL	Water level, 0% of the vertical dimension
3	9.60	JN	Junction at 3 o'clock, 150mm dia
4	13.30	JN	Junction at 9 o'clock, 150mm dia
5	24.90	MHF	Finish node, manhole, reference: S 011

PLR:	S 011aX	**Upstream Node:**	S 011a
Inspection Direction:	Upstream	**Downstream Node:**	S 011b
Inspected Length:	48.90 m	**Dia/Height:**	225 mm
Total Length:	48.90 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: S 011b
2	0.00	WL	Water level, 0% of the vertical dimension
3	15.10	JN	Junction at 2 o'clock, 100mm dia
4	33.70	JN	Junction at 2 o'clock, 100mm dia
5	48.90	MHF	Finish node, manhole, reference: S 011a

PLR:	GYX	**Upstream Node:**	GY
Inspection Direction:	Upstream	**Downstream Node:**	S 011a
Inspected Length:	4.00 m	**Dia/Height:**	150 mm
Total Length:	4.00 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: S 011a
2	0.00	WL	Water level, 0% of the vertical dimension
3	4.00	GYF	Finish node, gully, reference: GY

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Summary

Project Name	Project Number	Project Date
Oldlands Farm (Proof Survey)		29/09/2023

PLR:	GY7X	**Upstream Node:**	GY7
Inspection Direction:	Downstream	**Downstream Node:**	JN
Inspected Length:	15.20 m	**Dia/Height:**	150 mm
Total Length:	15.20 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	GY	Start node, gully, reference: GY7
2	0.00	WL	Water level, 0% of the vertical dimension
3	14.30	LD	Line deviates down
4	15.20	BRF	Finish node, major connection without manhole, reference: JN

PLR:	S 208X	**Upstream Node:**	S 208
Inspection Direction:	Upstream	**Downstream Node:**	S 209
Inspected Length:	49.50 m	**Dia/Height:**	525 mm
Total Length:	49.50 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: S 209
2	0.00	WL	Water level, 0% of the vertical dimension
3	18.00	JN	Junction at 12 o'clock, 150mm dia
4	35.30	JN	Junction at 2 o'clock, 150mm dia
5	49.50	MHF	Finish node, manhole, reference: S 208

PLR:	S 209X	**Upstream Node:**	S 209
Inspection Direction:	Downstream	**Downstream Node:**	S 212
Inspected Length:	17.40 m	**Dia/Height:**	525 mm
Total Length:	17.40 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: S 209
2	0.00	WL	Water level, 0% of the vertical dimension
3	17.40	MHF	Finish node, manhole, reference: S 212

PLR:	S 211X	**Upstream Node:**	S 211
Inspection Direction:	Upstream	**Downstream Node:**	S 212
Inspected Length:	26.00 m	**Dia/Height:**	450 mm
Total Length:	26.00 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: S 212
2	0.00	WL	Water level, 0% of the vertical dimension
3	26.00	MHF	Finish node, manhole, reference: S 211

PLR:	GY8X	**Upstream Node:**	GY8
Inspection Direction:	Downstream	**Downstream Node:**	JN
Inspected Length:	11.60 m	**Dia/Height:**	150 mm
Total Length:	11.60 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	GY	Start node, gully, reference: GY8
2	0.00	WL	Water level, 0% of the vertical dimension
3	11.60	BRF	Finish node, major connection without manhole, reference: JN

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Summary

Project Name	Project Number	Project Date
Oldlands Farm (Proof Survey)		29/09/2023

PLR:	GY9X	**Upstream Node:**	GY9
Inspection Direction:	Downstream	**Downstream Node:**	S 212
Inspected Length:	20.30 m	**Dia/Height:**	150 mm
Total Length:	20.30 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	GY	Start node, gully, reference: GY9
2	0.00	WL	Water level, 0% of the vertical dimension
3	6.20	JN	Junction at 9 o'clock, 150mm dia
4	20.30	MHF	Finish node, manhole, reference: S 212

PLR:	S 201X	**Upstream Node:**	S 201
Inspection Direction:	Downstream	**Downstream Node:**	S 202
Inspected Length:	58.90 m	**Dia/Height:**	450 mm
Total Length:	58.90 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: S 201
2	0.00	WL	Water level, 0% of the vertical dimension
3	21.60	JN	Junction at 9 o'clock, 150mm dia
4	43.50	JN	Junction at 9 o'clock, 150mm dia
5	58.90	MHF	Finish node, manhole, reference: S 202

PLR:	F 02X	**Upstream Node:**	F 02
Inspection Direction:	Downstream	**Downstream Node:**	F 04
Inspected Length:	58.20 m	**Dia/Height:**	150 mm
Total Length:	58.20 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: F 02
2	0.00	WL	Water level, 0% of the vertical dimension
3	58.20	MHF	Finish node, manhole, reference: F 04

ARUN DISTRICT COUNCIL AL/87/21/PL

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 26/09/2023 - RWPX

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
1	1	26/09/23	9:43	Not Specified	No Rain Or Snow	Yes	RWPX

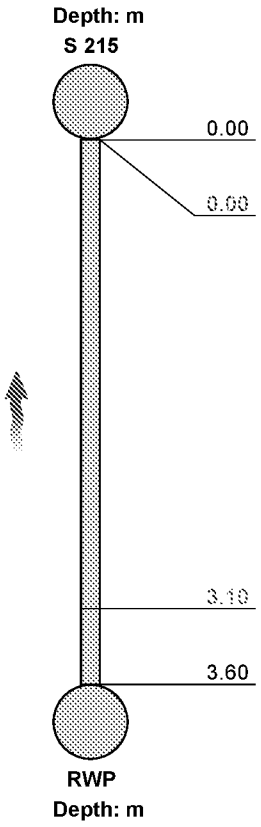
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Upstream	**Upstream Node:**	RWP
Road:	Oldlands Farm	**Inspected Length:**	3.60 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	3.60 m	**Downstream Node:**	S 215
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: S 215	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:00	1	
3.10	LU	Line deviates up	00:00:14	2	
3.60	MHF	Finish node, manhole, reference: RWP	00:00:21	3	

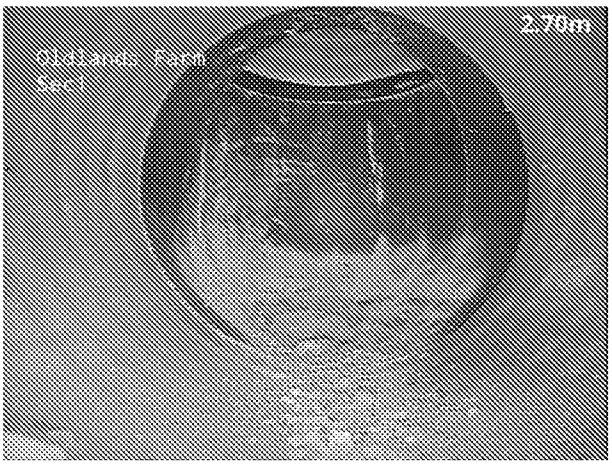
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

ARUN DISTRICT COUNCIL AL/87/21/PL

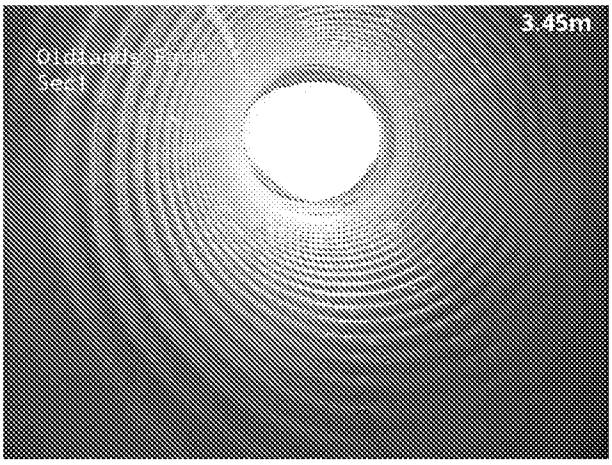
Section Pictures - 26/09/2023 - RWPX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
1	Upstream	RWPX		

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



2, 00:00:14, 3.10 m
Line deviates up



3, 00:00:21, 3.60 m
Finish node, manhole, reference: RWP

ARUN DISTRICT COUNCIL AL/87/21/PL

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 26/09/2023 - S 215X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
2	1	26/09/23	10:12	Not Specified	No Rain Or Snow	Yes	S 215X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	S 215
Road:	Oldlands Farm	**Inspected Length:**	92.50 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	92.50 m	**Downstream Node:**	S 214
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:801

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: S 215.	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:01	1	
6.20	JN	Junction at 10 o'clock, 150mm dia	00:00:22	2	
25.30	JN	Junction at 10 o'clock, 150mm dia	00:05:37	3	
41.70	JN	Junction at 9 o'clock, 150mm dia	00:04:37	4	
52.80	JN	Junction at 11 o'clock, 150mm dia	00:03:42	5	
66.50	JN	Junction at 9 o'clock, 150mm dia	00:02:35	6	
82.20	JN	Junction at 10 o'clock, 150mm dia	00:01:08	7	
92.50	MHF	Finish node, manhole, reference: S 214	00:00:01	8	

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

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 26/09/2023 - S 215X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
2	Downstream	S 215X		

1, 00:00:01, 0.00 m
Water level, 0% of the vertical dimension

2, 00:00:22, 6.20 m
Junction at 10 o'clock, 150mm dia

3, 00:05:37, 25.30 m
Junction at 10 o'clock, 150mm dia

4, 00:04:37, 41.70 m
Junction at 9 o'clock, 150mm dia

5, 00:03:42, 52.80 m
Junction at 11 o'clock, 150mm dia

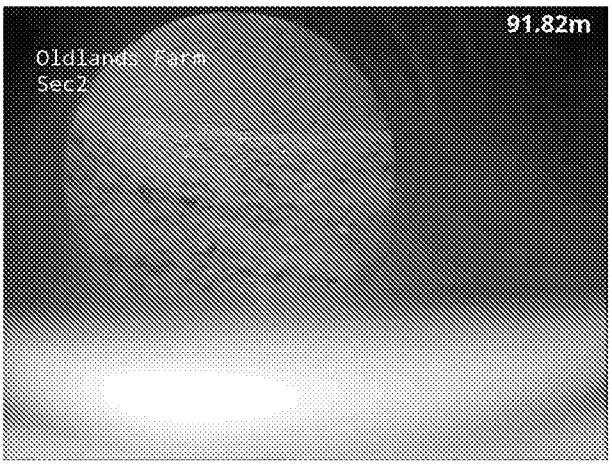
6, 00:02:35, 66.50 m
Junction at 9 o'clock, 150mm dia

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 26/09/2023 - S 215X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
2	Downstream	S 215X		

7, 00:01:08, 82.20 m
Junction at 10 o'clock, 150mm dia



8, 00:00:01, 92.50 m
Finish node, manhole, reference: S 214

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Inspection - 26/09/2023 - F 05X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
3	1	26/09/23	10:37	Not Specified	No Rain Or Snow	Yes	F 05X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	F 05
Road:	Oldlands Farm	**Inspected Length:**	60.30 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	60.30 m	**Downstream Node:**	F 06
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:523

Position [m]	Code	Observation	MPEG	Photo	Grade
		Depth: m			
		F 05			
0.00	MH	Start node, manhole, reference: F 05	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:00	1	
60.30	MHF	Finish node, manhole, reference: F 06	00:02:15	2	
		F 06			
		Depth: m			

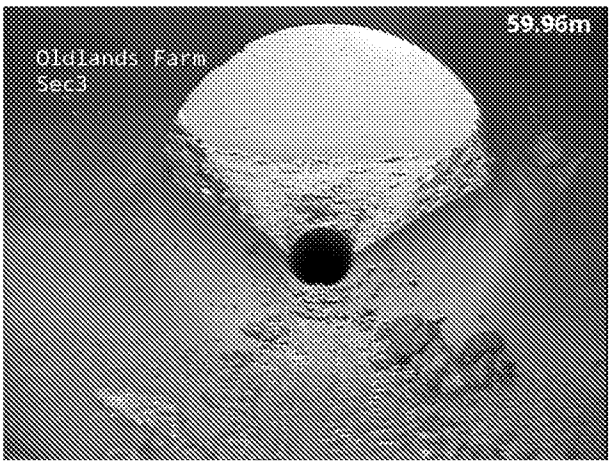
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 26/09/2023 - F 05X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
3	Downstream	F 05X		

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



2, 00:02:15, 60.30 m
Finish node, manhole, reference: F 06

Section Inspection - 26/09/2023 - FP1X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
4	1	26/09/23	11:31	Not Specified	No Rain Or Snow	Yes	FP1X

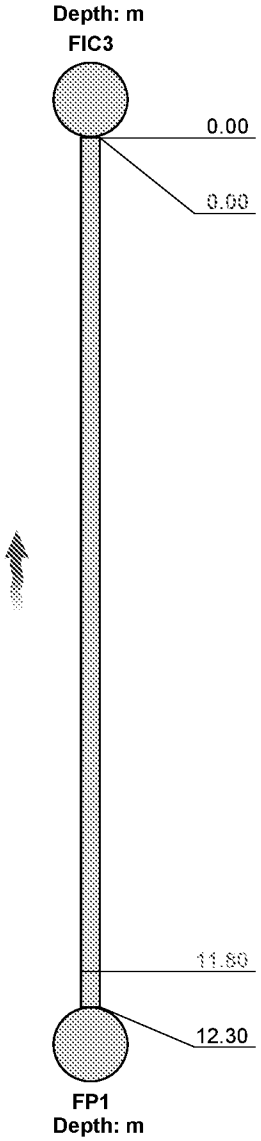
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Upstream	**Upstream Node:**	FP1
Road:	Oldlands Farm	**Inspected Length:**	12.30 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	12.30 m	**Downstream Node:**	FIC3
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:107



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: FIC3	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:00	1	
11.80	LU	Line deviates up	00:00:32	2	
12.30	MHF	Finish node, manhole, reference: FP1	00:00:36	3	

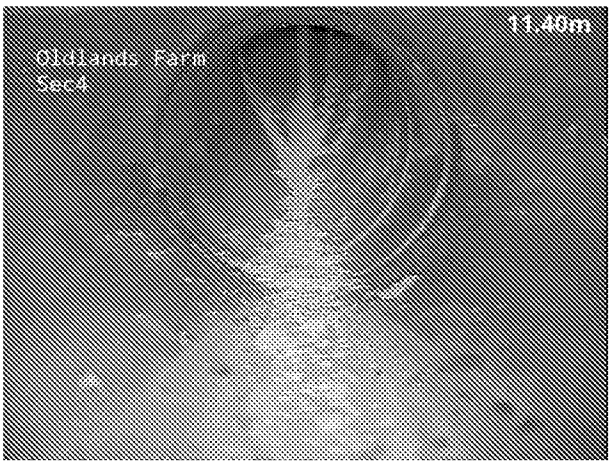
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

ARUN DISTRICT COUNCIL AL/87/21/PL

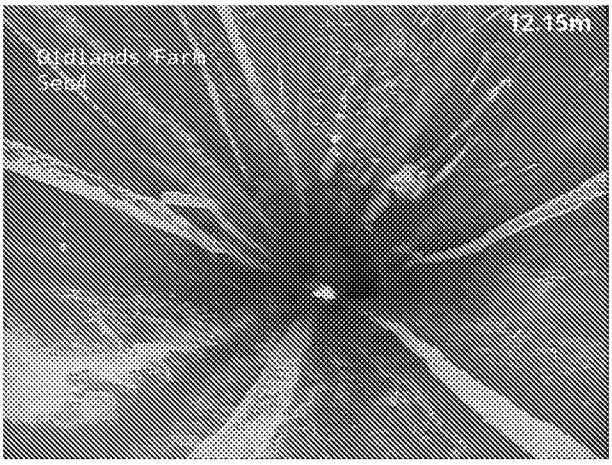
Section Pictures - 26/09/2023 - FP1X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
4	Upstream	FP1X		

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



2, 00:00:32, 11.80 m
Line deviates up



3, 00:00:36, 12.30 m
Finish node, manhole, reference: FP1

ARUN DISTRICT COUNCIL AL/87/21/PL

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 26/09/2023 - FP2X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
5	1	26/09/23	11:34	Not Specified	No Rain Or Snow	Yes	FP2X

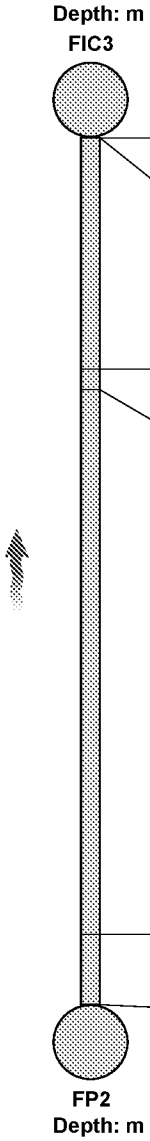
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Upstream	**Upstream Node:**	FP2
Road:	Oldlands Farm	**Inspected Length:**	8.60 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	8.60 m	**Downstream Node:**	FIC3
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:75



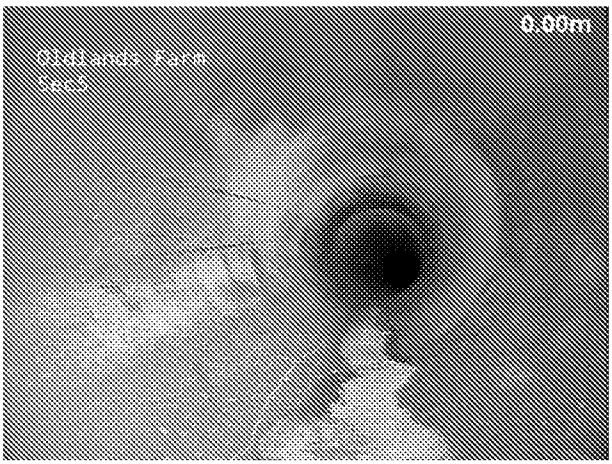
Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: FIC3	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:00	1	
2.30	LL	Line deviates left	00:00:14	2	
2.50	LR	Line deviates right	00:00:19	3	
7.90	LU	Line deviates up	00:00:40	4	
8.60	MHF	Finish node, manhole, reference: FP2	00:00:46	5	

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

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 26/09/2023 - FP2X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
5	Upstream	FP2X		



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

2, 00:00:14, 2.30 m
Line deviates left

3, 00:00:19, 2.50 m
Line deviates right

4, 00:00:40, 7.90 m
Line deviates up

5, 00:00:46, 8.60 m
Finish node, manhole, reference: FP2

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Inspection - 26/09/2023 - FIC3X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
6	1	26/09/23	11:35	Not Specified	No Rain Or Snow	Yes	FIC3X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	FIC3
Road:	Oldlands Farm	**Inspected Length:**	3.30 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	3.30 m	**Downstream Node:**	JN
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: FIC3	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:01	1	
1.00	LL	Line deviates left	00:00:17		
1.00	LD	Line deviates down	00:00:17	2	
1.80	LR	Line deviates right	00:00:28	3	
3.30	BRF	Finish node, major connection without manhole, reference: JN	00:00:35	4	

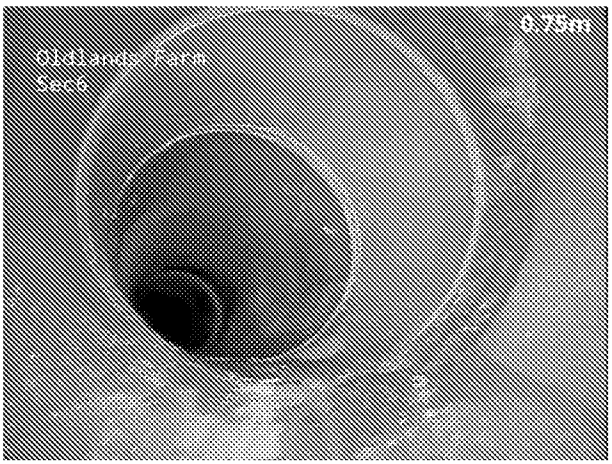
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 26/09/2023 - FIC3X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
6	Downstream	FIC3X		

1, 00:00:01, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:17, 1.00 m
Line deviates down

3, 00:00:28, 1.80 m
Line deviates right

4, 00:00:35, 3.30 m
Finish node, major connection without manhole, reference: JN

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Inspection - 26/09/2023 - SP1X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
7	1	26/09/23	11:59	Not Specified	No Rain Or Snow	Yes	SP1X

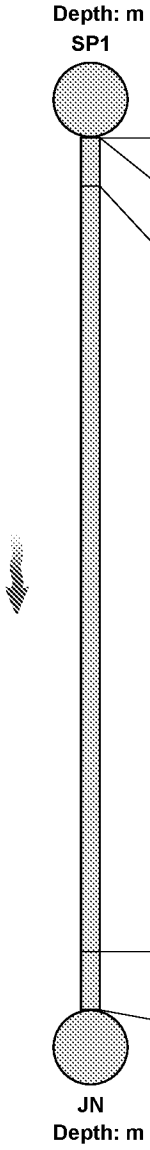
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	SP1
Road:	Oldlands Farm	**Inspected Length:**	9.00 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	9.00 m	**Downstream Node:**	JN
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:78

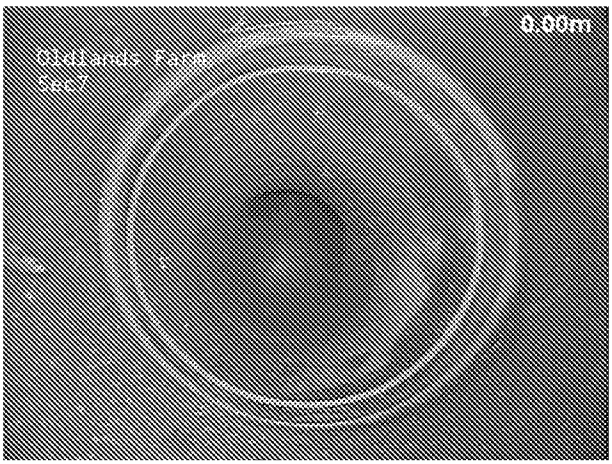


Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: SP1	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:00	1	
0.50	REM	General remark: Rest bend	00:00:05	2	
8.40	LL	Line deviates left	00:00:43	3	
9.00	BRF	Finish node, major connection without manhole, reference: JN	00:00:50	4	

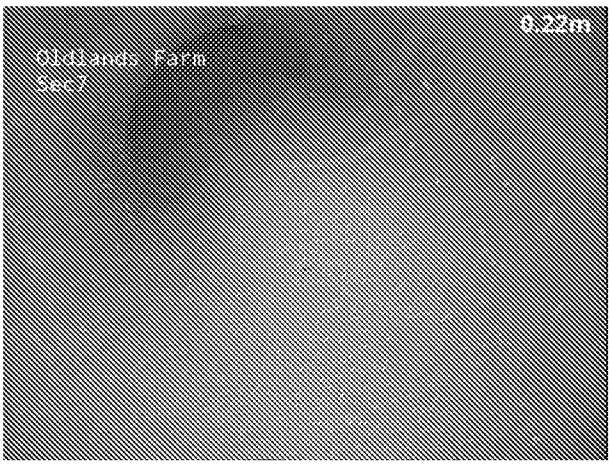
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 26/09/2023 - SP1X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	Downstream	SP1X		

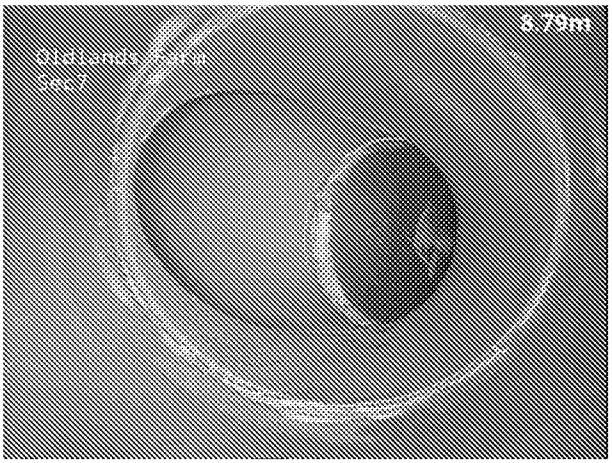


1, 00:00:00, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:05, 0.50 m
General remark, Rest bend

3, 00:00:43, 8.40 m
Line deviates left



4, 00:00:50, 9.00 m
Finish node, major connection without manhole, reference: JN

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Inspection - 26/09/2023 - SP2X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
8	1	26/09/23	12:01	Not Specified	No Rain Or Snow	Yes	SP2X

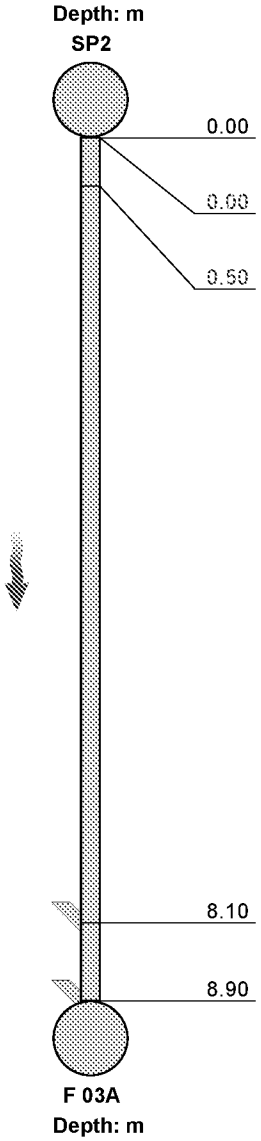
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	SP2
Road:	Oldlands Farm	**Inspected Length:**	8.90 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	8.90 m	**Downstream Node:**	F 03A
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:78

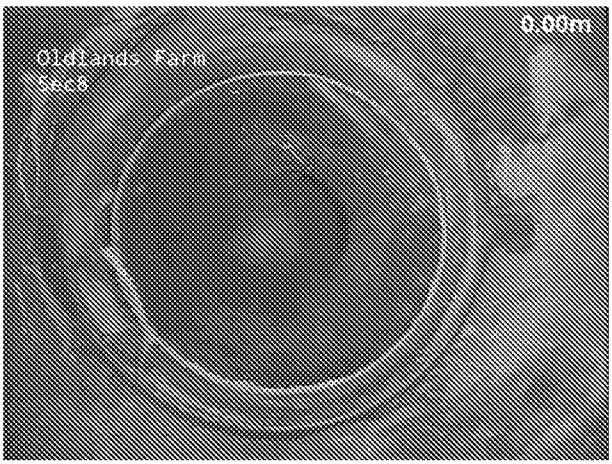


Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: SP2	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:01	1	
0.50	REM	General remark: Rest bend	00:00:06	2	
8.10	JN	Junction at 3 o'clock, 100mm dia	00:00:47	3	
8.90	JN	Junction at 4 o'clock, 100mm dia: Tumbler	00:01:20	4	

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	0.0	0	0.0	0.0	0.0	0.0

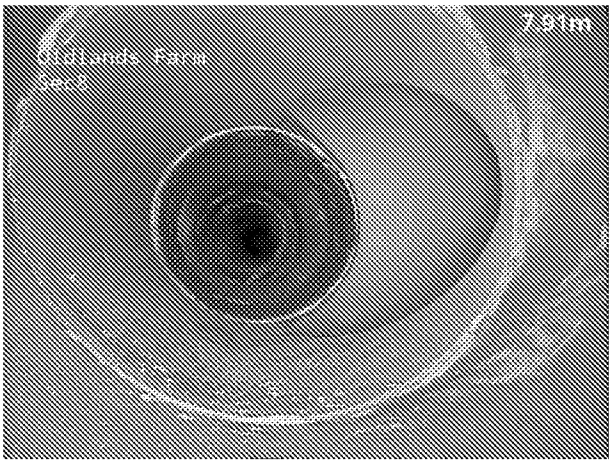
Section Pictures - 26/09/2023 - SP2X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
8	Downstream	SP2X		

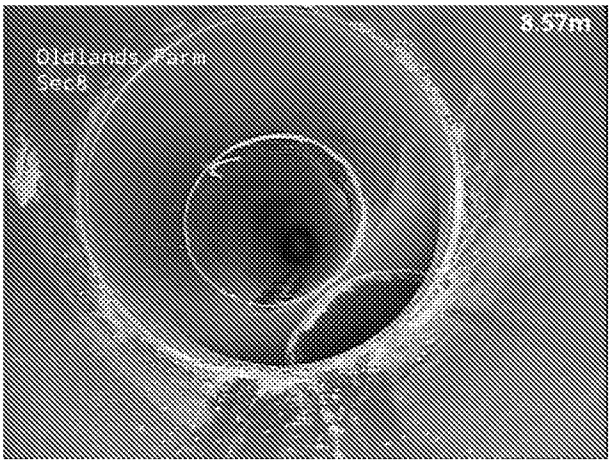


1, 00:00:01, 0.00 m
Water level, 0% of the vertical dimension

2, 00:00:06, 0.50 m
General remark, Rest bend



3, 00:00:47, 8.10 m
Junction at 3 o'clock, 100mm dia



4, 00:01:20, 8.90 m
Junction at 4 o'clock, 100mm dia, Tumbler

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Inspection - 26/09/2023 - SINK1X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
9	1	26/09/23	12:08	Not Specified	No Rain Or Snow	Yes	SINK1X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	SINK1
Road:	Oldlands Farm	**Inspected Length:**	15.80 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	15.80 m	**Downstream Node:**	F 03
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:137

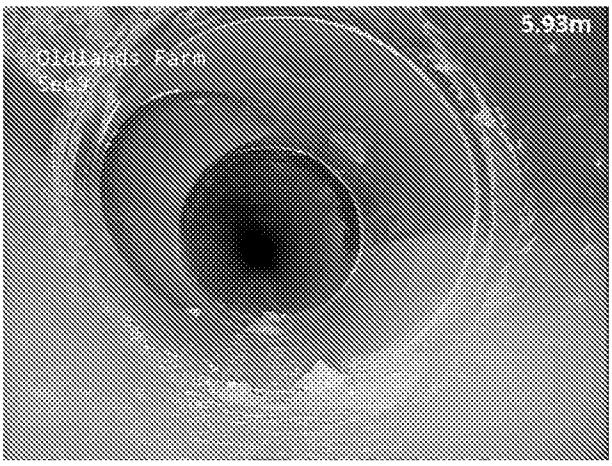
Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: SINK1	00:00:00		
6.20	JN	Junction at 10 o'clock, 100mm dia	00:00:30	1	
9.10	JN	Junction at 3 o'clock, 100mm dia	00:00:41	2	
15.80	MHF	Finish node, manhole, reference: F 03	00:01:18	3	

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

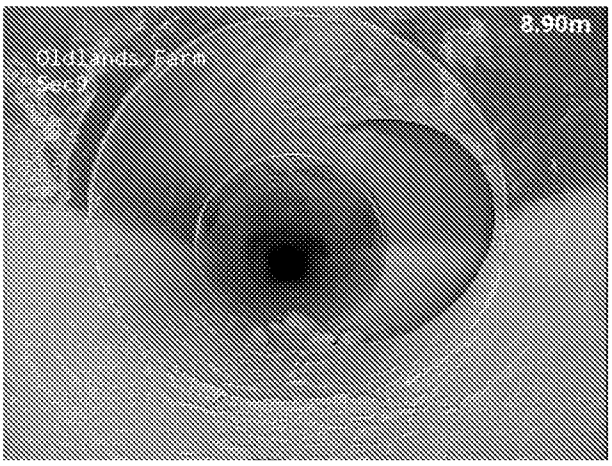
ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 26/09/2023 - SINK1X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
9	Downstream	SINK1X		



1, 00:00:30, 6.20 m
Junction at 10 o'clock, 100mm dia



2, 00:00:41, 9.10 m
Junction at 3 o'clock, 100mm dia

3, 00:01:18, 15.80 m
Finish node, manhole, reference: F 03

Section Inspection - 26/09/2023 - SINK2X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
10	1	26/09/23	12:10	Not Specified	No Rain Or Snow	Yes	SINK2X

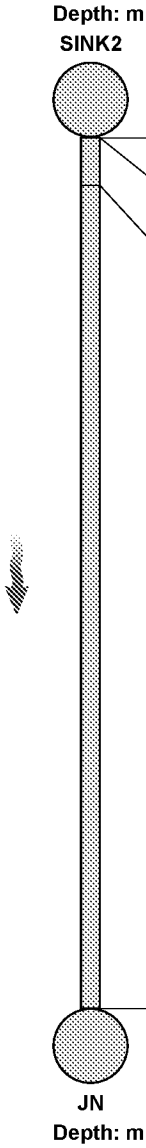
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	SINK2
Road:	Oldlands Farm	**Inspected Length:**	9.10 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	9.10 m	**Downstream Node:**	JN
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:79

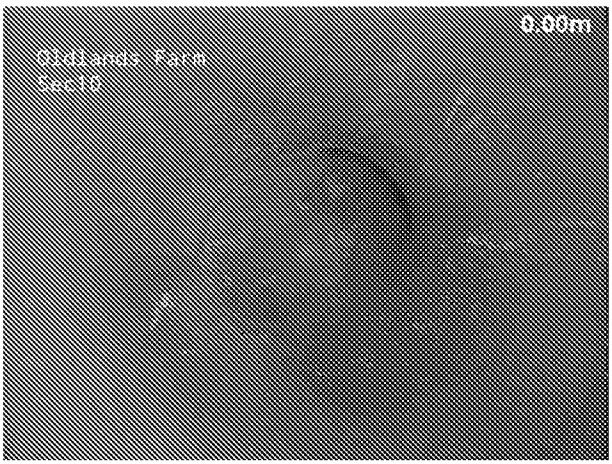


Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: SINK2	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:00	1	
0.50	REM	General remark: Rest bend	00:00:07	2	
9.10	BRF	Finish node, major connection without manhole, reference: JN	00:00:44	3	

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

Section Pictures - 26/09/2023 - SINK2X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
10	Downstream	SINK2X		



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

2, 00:00:07, 0.50 m
General remark, Rest bend

3, 00:00:44, 9.10 m
Finish node, major connection without manhole, reference: JN

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Inspection - 26/09/2023 - F 03AX

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
11	1	26/09/23	12:23	Not Specified	No Rain Or Snow	Yes	F 03AX

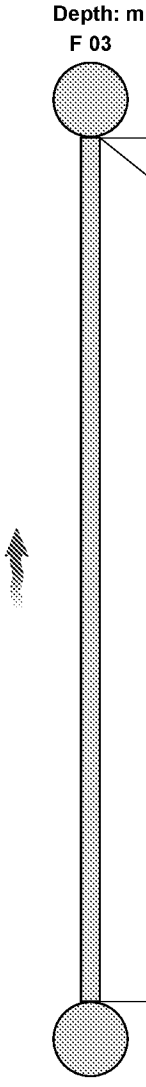
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Upstream	**Upstream Node:**	F 03A
Road:	Oldlands Farm	**Inspected Length:**	7.20 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	7.20 m	**Downstream Node:**	F 03
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:63

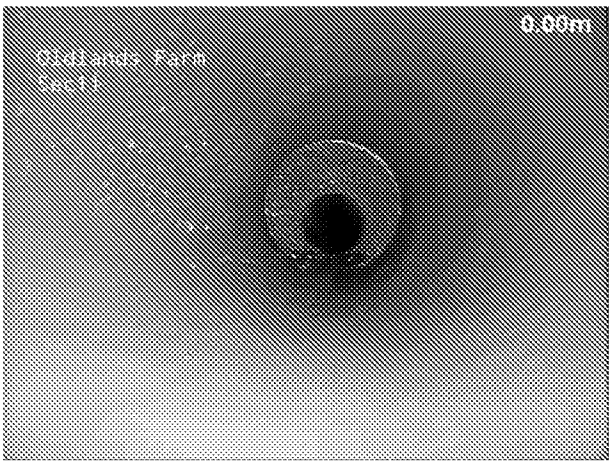


Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: F 03	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:01	1	
7.20	MHF	Finish node, manhole, reference: F 03A	00:00:34	2	

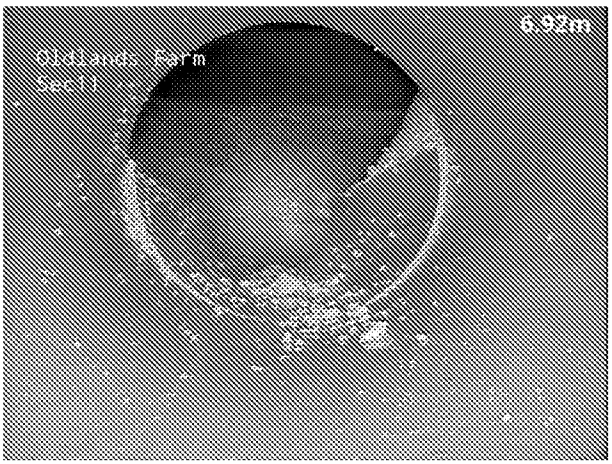
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 26/09/2023 - F 03AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
11	Upstream	F 03AX		



1, 00:00:01, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:34, 7.20 m
Finish node, manhole, reference: F 03A

Section Inspection - 26/09/2023 - F 03X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
12	1	26/09/23	12:31	Not Specified	No Rain Or Snow	Yes	F 03X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	F 03
Road:	Oldlands Farm	**Inspected Length:**	48.70 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	48.70 m	**Downstream Node:**	F 01
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:422

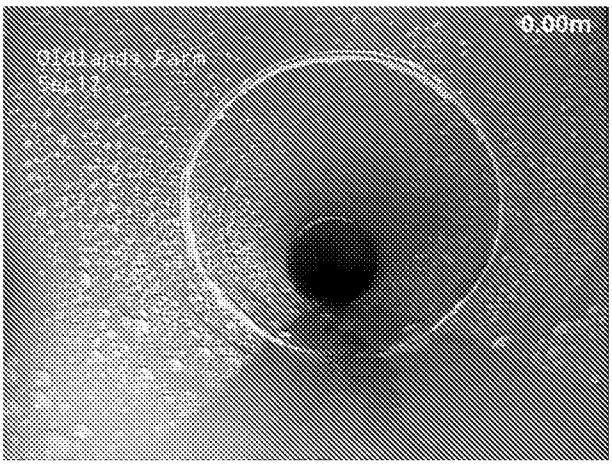
Position [m]	Code	Observation	MPEG	Photo	Grade
		Depth: m			
		F 03			
0.00	MH	Start node, manhole, reference: F 03	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:00	1	
48.70	MHF	Finish node, manhole, reference: F 01	00:00:29	2	
		F 01			
		Depth: m			

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

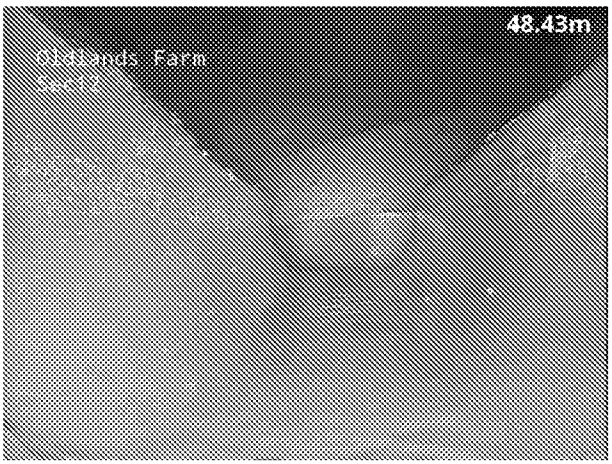
ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 26/09/2023 - F 03X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
12	Downstream	F 03X		



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



2, 00:00:29, 48.70 m
Finish node, manhole, reference: F 01

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 26/09/2023 - F 06X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
13	1	26/09/23	13:44	Not Specified	No Rain Or Snow	Yes	F 06X

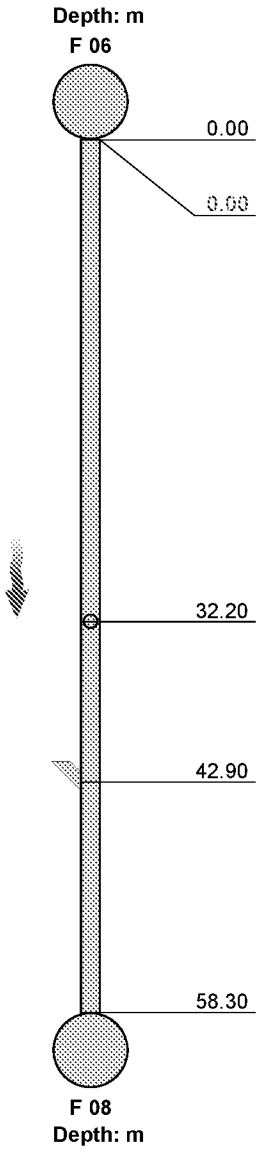
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	F 06
Road:	Oldlands Farm	**Inspected Length:**	58.30 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	58.30 m	**Downstream Node:**	F 08
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:505



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: F 06	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:00	1	
32.20	JN	Junction at 12 o'clock, 100mm dia	00:01:47	2	
42.90	JN	Junction at 2 o'clock, 100mm dia	00:03:06	3	
58.30	MHF	Finish node, manhole, reference: F 08: Ground water intruding due to benching not complete	00:04:26	4	

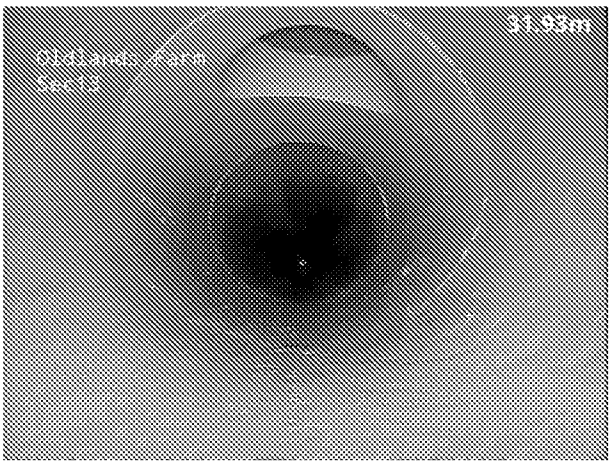
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 26/09/2023 - F 06X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
13	Downstream	F 06X		

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



2, 00:01:47, 32.20 m
Junction at 12 o'clock, 100mm dia

3, 00:03:06, 42.90 m
Junction at 2 o'clock, 100mm dia

4, 00:04:26, 58.30 m
Finish node, manhole, reference: F 08, Ground water intruding due to benching not complete

ARUN DISTRICT COUNCIL AL/87/21/PL

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 26/09/2023 - F 08X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
14	1	26/09/23	14:15	Not Specified	No Rain Or Snow	Yes	F 08X

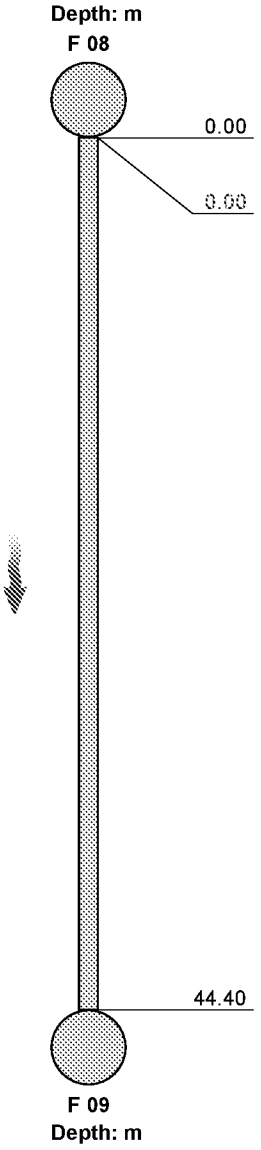
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	F 08
Road:	Oldlands Farm	**Inspected Length:**	44.40 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	44.40 m	**Downstream Node:**	F 09
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:385



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: F 08	00:00:00		
0.00	WL	Water level, 10% of the vertical dimension: Live	00:00:00	1	
44.40	MHF	Finish node, manhole, reference: F 09	00:02:42	2	

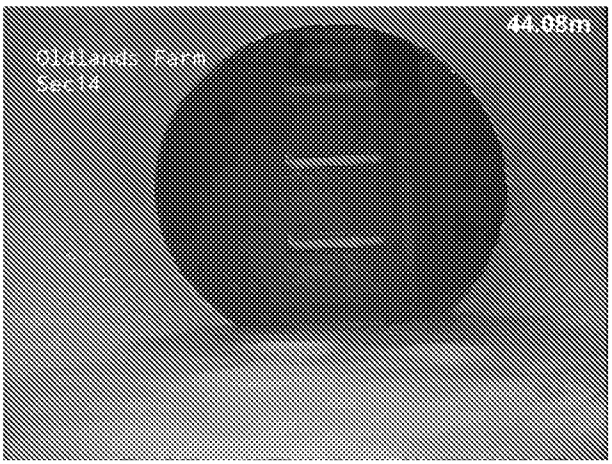
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 26/09/2023 - F 08X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
14	Downstream	F 08X		

1, 00:00:00, 0.00 m
Water level, 10% of the vertical dimension, Live



2, 00:02:42, 44.40 m
Finish node, manhole, reference: F 09

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Inspection - 26/09/2023 - F 01X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
15	1	26/09/23	14:41	Not Specified	No Rain Or Snow	Yes	F 01X

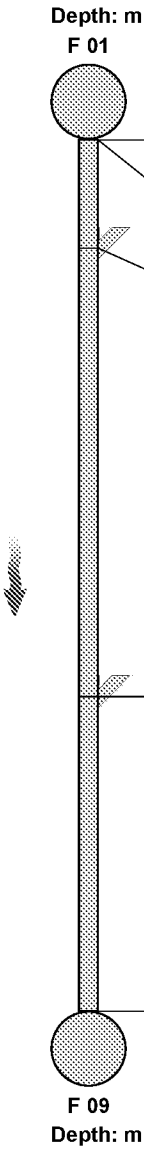
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	F 01
Road:	Oldlands Farm	**Inspected Length:**	38.50 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	38.50 m	**Downstream Node:**	F 09
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:334



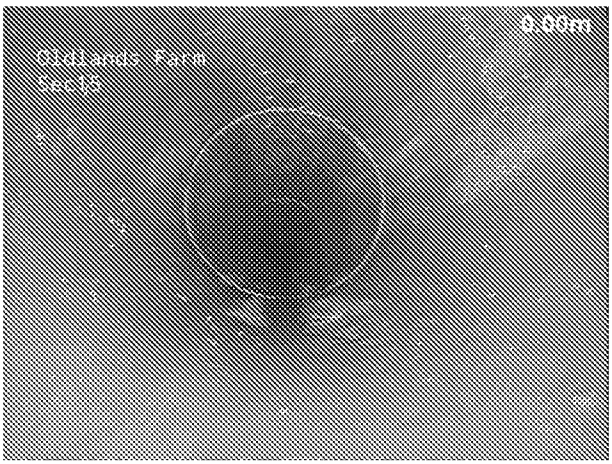
Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: F 01	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:00	1	
4.80	JN	Junction at 10 o'clock, 100mm dia	00:00:16	2	
24.60	JN	Junction at 10 o'clock, 150mm dia	00:01:41	3	
38.50	MHF	Finish node, manhole, reference: F 09	00:02:52	4	

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

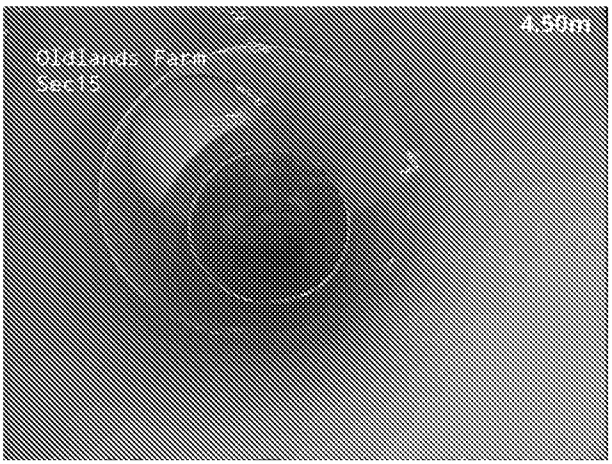
ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 26/09/2023 - F 01X

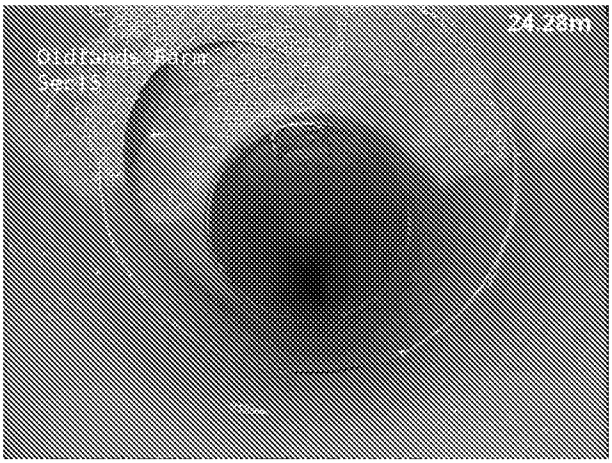
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
15	Downstream	F 01X		



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



2, 00:00:16, 4.80 m
Junction at 10 o'clock, 100mm dia



3, 00:01:41, 24.60 m
Junction at 10 o'clock, 150mm dia

4, 00:02:52, 38.50 m
Finish node, manhole, reference: F 09

ARUN DISTRICT COUNCIL AL/87/21/PL

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 27/09/2023 - S 207X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
16	1	27/09/23	8:45	Not Specified	No Rain Or Snow	Yes	S 207X

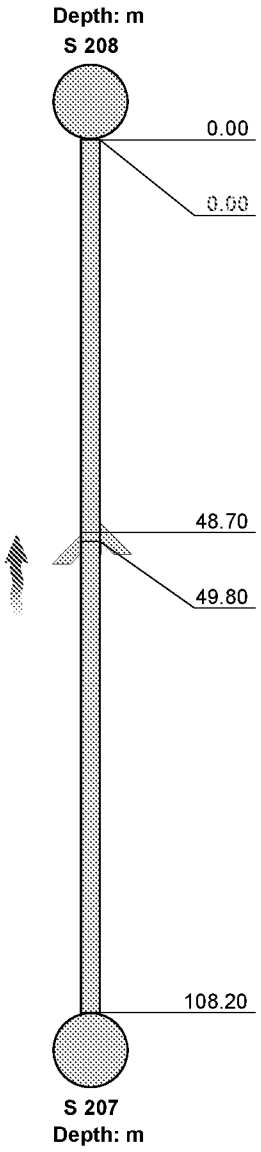
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Upstream	**Upstream Node:**	S 207
Road:	Oldlands Farm	**Inspected Length:**	108.20 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	108.20 m	**Downstream Node:**	S 208
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:937



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: S 208	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:00	1	
48.70	JN	Junction at 11 o'clock, 150mm dia	00:01:11	2	
49.80	JN	Junction at 1 o'clock, 150mm dia	00:01:16	3	
108.20	MHF	Finish node, manhole, reference: S 207	00:03:34	4	

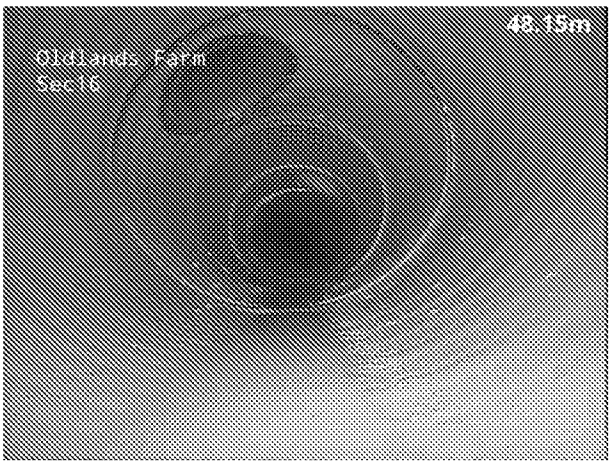
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

ARUN DISTRICT COUNCIL AL/87/21/PL

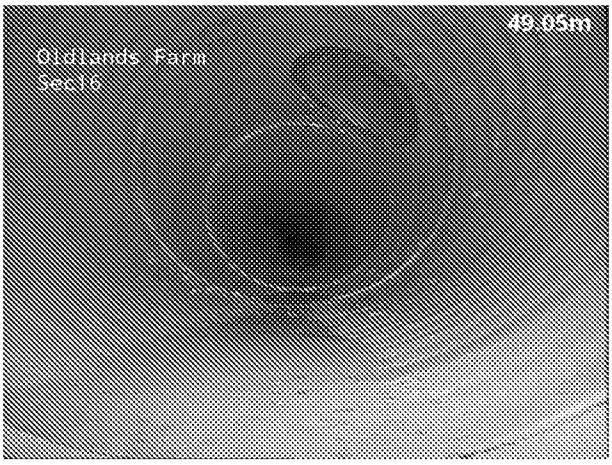
Section Pictures - 27/09/2023 - S 207X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
16	Upstream	S 207X		

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



2, 00:01:11, 48.70 m
Junction at 11 o'clock, 150mm dia



3, 00:01:16, 49.80 m
Junction at 1 o'clock, 150mm dia

4, 00:03:34, 108.20 m
Finish node, manhole, reference: S 207

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 27/09/2023 - S 214X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
17	1	27/09/23	10:15	Not Specified	No Rain Or Snow	Yes	S 214X

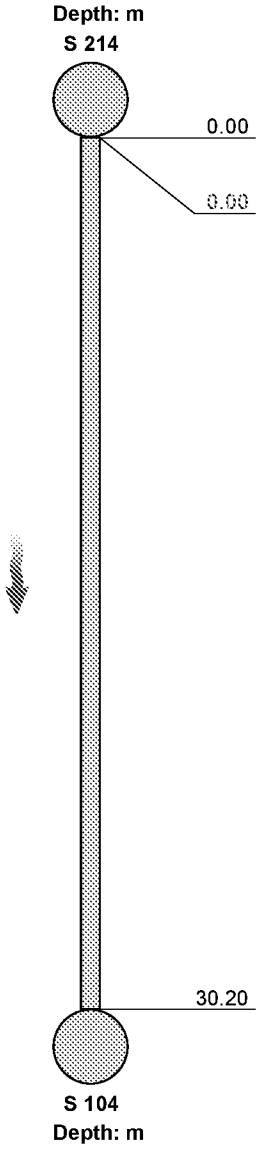
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	S 214
Road:	Oldlands Farm	**Inspected Length:**	30.20 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	30.20 m	**Downstream Node:**	S 104
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:262



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: S 214	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:00	1	
30.20	MHF	Finish node, manhole, reference: S 104	00:01:52	2	

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

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 27/09/2023 - S 214X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
17	Downstream	S 214X		

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

2, 00:01:52, 30.20 m
Finish node, manhole, reference: S 104

Section Inspection - 27/09/2023 - GY1X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
18	1	27/09/23	10:39	Not Specified	No Rain Or Snow	Yes	GY1X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Upstream	**Upstream Node:**	GY1
Road:	Oldlands Farm	**Inspected Length:**	8.50 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	8.50 m	**Downstream Node:**	S 010A
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:74

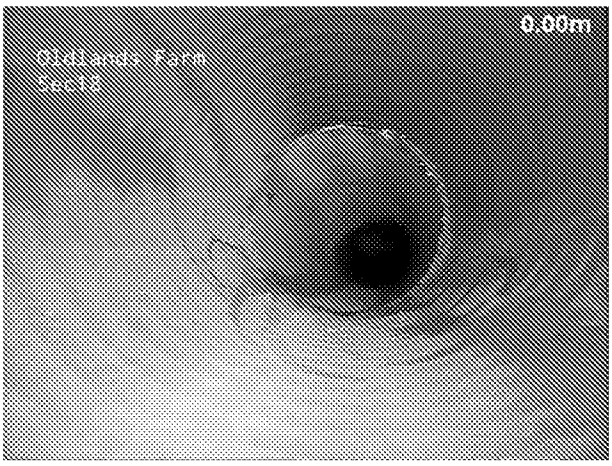
Position [m]	Code	Observation	MPEG	Photo	Grade
		Depth: m			
		S 010a			
0.00	MH	Start node, manhole, reference: S 010a	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:00	1	
8.50	GYF	Finish node, gully, reference: GY1	00:00:18	2	
		GY1			
		Depth: m			

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

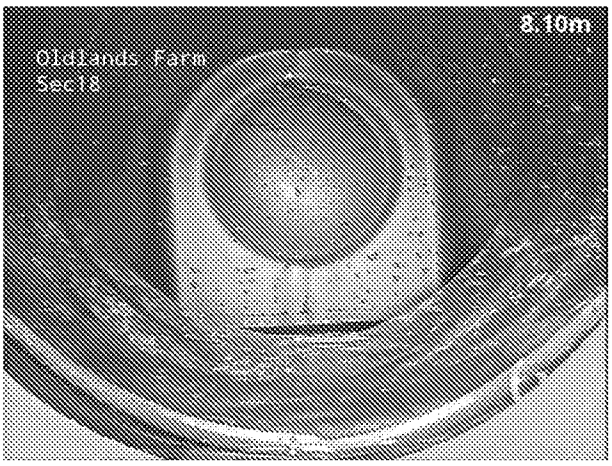
ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 27/09/2023 - GY1X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
18	Upstream	GY1X		



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



2, 00:00:18, 8.50 m
Finish node, gully, reference: GY1

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 27/09/2023 - S 010aX

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
19	1	27/09/23	10:43	Not Specified	No Rain Or Snow	Yes	S 010AX

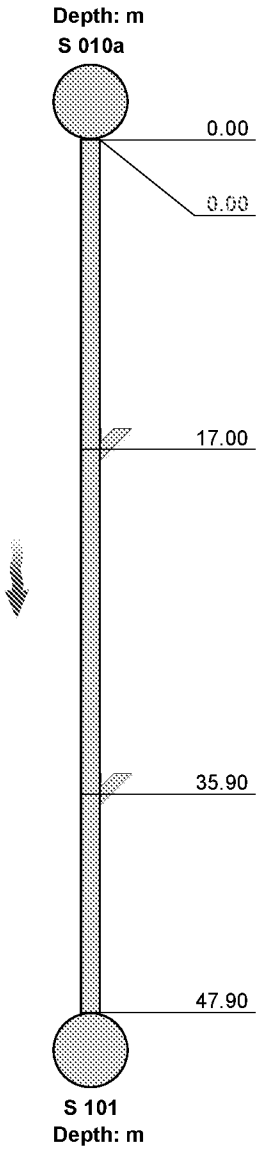
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	S 010A
Road:	Oldlands Farm	**Inspected Length:**	47.90 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	47.90 m	**Downstream Node:**	S 101
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	225 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:415



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: S 010a	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:00	1	
17.00	JN	Junction at 9 o'clock, 150mm dia	00:00:37	2	
35.90	JN	Junction at 9 o'clock, 150mm dia	00:01:14	3	
47.90	MHF	Finish node, manhole, reference: S 101	00:01:51	4	

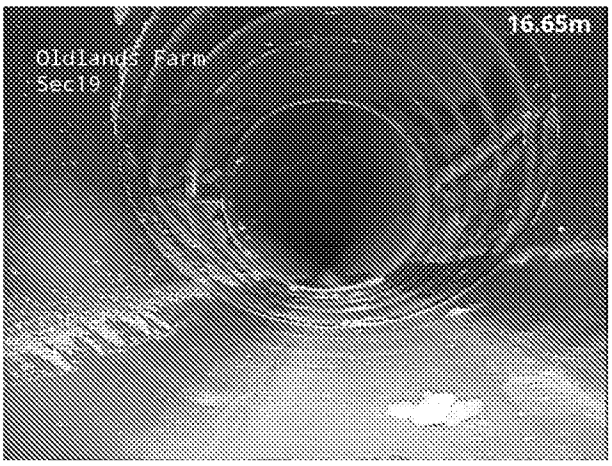
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 27/09/2023 - S 010aX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
19	Downstream	S 010AX		

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



2, 00:00:37, 17.00 m
Junction at 9 o'clock, 150mm dia

3, 00:01:14, 35.90 m
Junction at 9 o'clock, 150mm dia

4, 00:01:51, 47.90 m
Finish node, manhole, reference: S 101

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 27/09/2023 - GY2X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
20	1	27/09/23	10:47	Not Specified	No Rain Or Snow	Yes	GY2X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	GY2
Road:	Oldlands Farm	**Inspected Length:**	8.70 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	8.70 m	**Downstream Node:**	JN
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:76

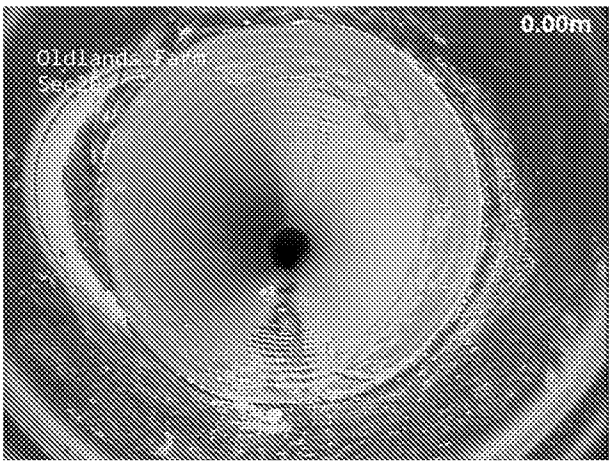
Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY2	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:01:50	1	
8.70	BRF	Finish node, major connection without manhole, reference: JN	00:01:05	2	

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

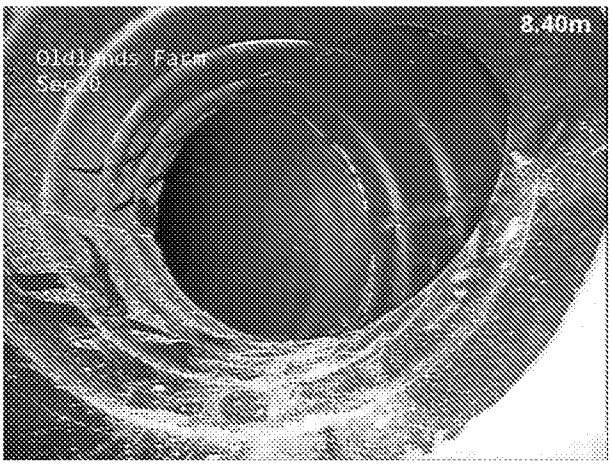
ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 27/09/2023 - GY2X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
20	Downstream	GY2X		



1, 00:01:50, 0.00 m
Water level, 0% of the vertical dimension



2, 00:01:05, 8.70 m
Finish node, major connection without manhole, reference: JN

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 27/09/2023 - GY3X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
21	1	27/09/23	10:50	Not Specified	No Rain Or Snow	Yes	GY3X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	GY3
Road:	Oldlands Farm	**Inspected Length:**	8.60 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	8.60 m	**Downstream Node:**	JN
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:75

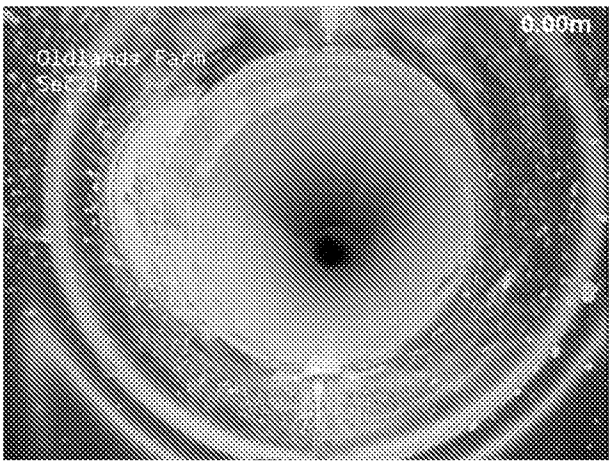
Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY3	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:08	1	
8.60	BRF	Finish node, major connection without manhole, reference: JN	00:00:31	2	

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

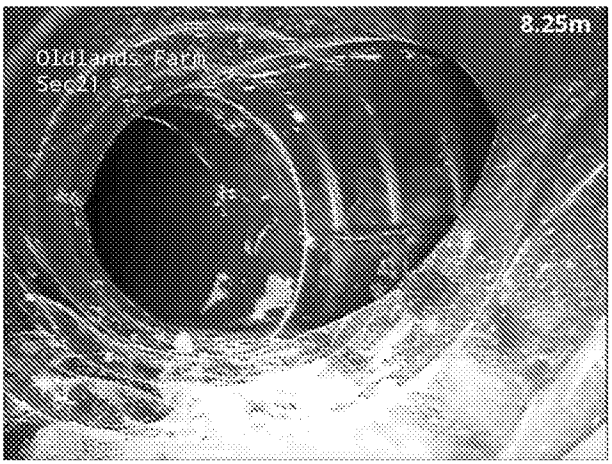
ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 27/09/2023 - GY3X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
21	Downstream	GY3X		



1, 00:00:08, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:31, 8.60 m
Finish node, major connection without manhole, reference: JN

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 27/09/2023 - S106X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
22	1	27/09/23	12:12	Not Specified	No Rain Or Snow	Yes	S106X

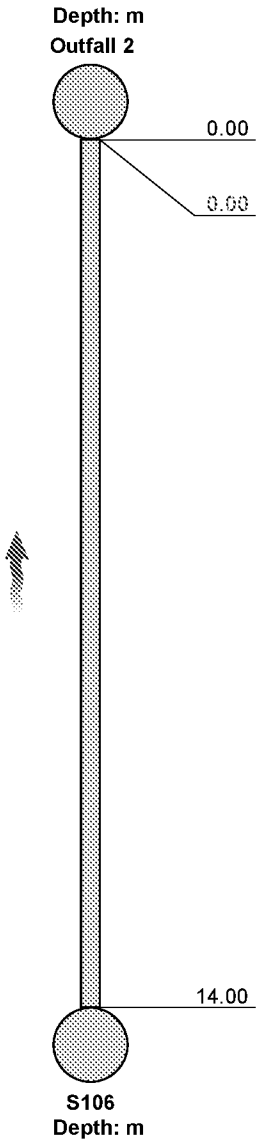
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Upstream	**Upstream Node:**	S106
Road:	Oldlands Farm	**Inspected Length:**	14.00 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	14.00 m	**Downstream Node:**	OUTFALL 2
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	225 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:122



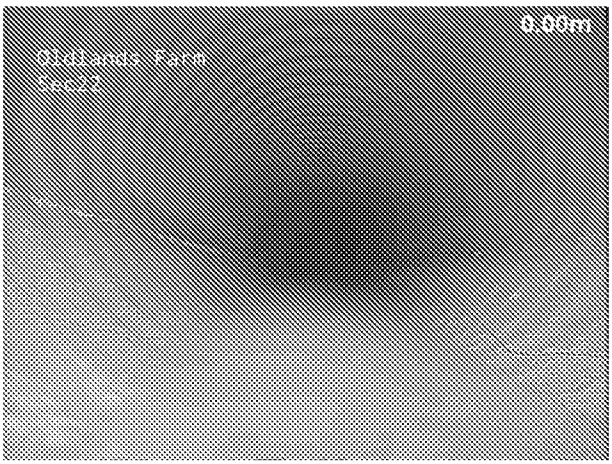
Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: Outfall 2	00:00:00		
0.00	WL	Water level, 5% of the vertical dimension: Live	00:00:12	1	
14.00	CPF	Finish node, catchpit, reference: S106	00:01:02	2	

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

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 27/09/2023 - S106X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
22	Upstream	S106X		



1, 00:00:12, 0.00 m
Water level, 5% of the vertical dimension, Live

2, 00:01:02, 14.00 m
Finish node, catchpit, reference: S106

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Inspection - 27/09/2023 - S 206X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
23	1	27/09/23	12:44	Not Specified	No Rain Or Snow	Yes	S 206X

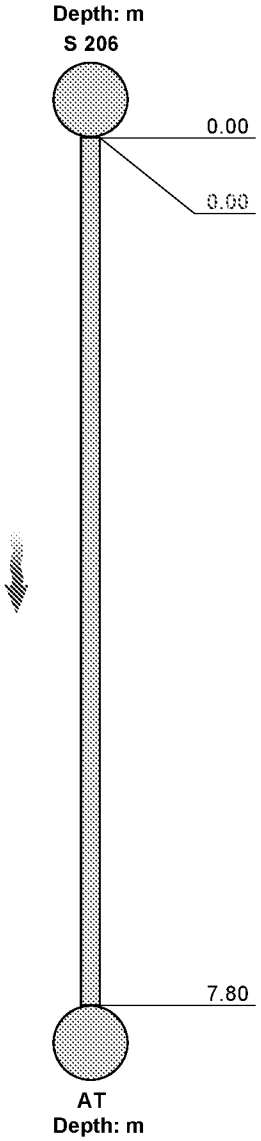
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	S 206
Road:	Oldlands Farm	**Inspected Length:**	7.80 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	7.80 m	**Downstream Node:**	AT
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	450 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:68



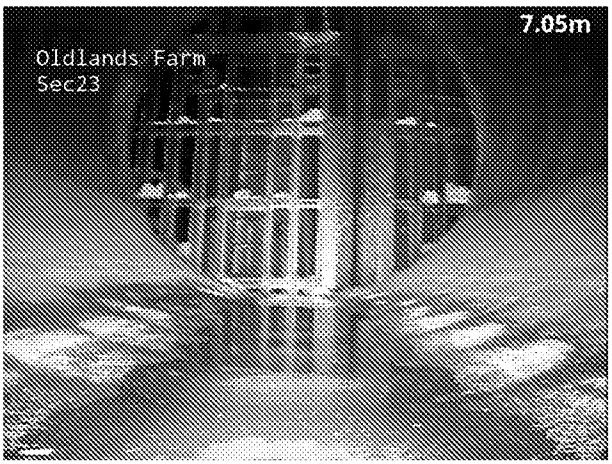
Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	CP	Start node, catchpit, reference: S 206	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:00	1	
7.80	MHF	Finish node, manhole, reference: AT	00:00:47	2	

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

Section Pictures - 27/09/2023 - S 206X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
23	Downstream	S 206X		

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



2, 00:00:47, 7.80 m
Finish node, manhole, reference: AT

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Inspection - 27/09/2023 - GY4X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
24	1	27/09/23	13:06	Not Specified	No Rain Or Snow	Yes	GY4X

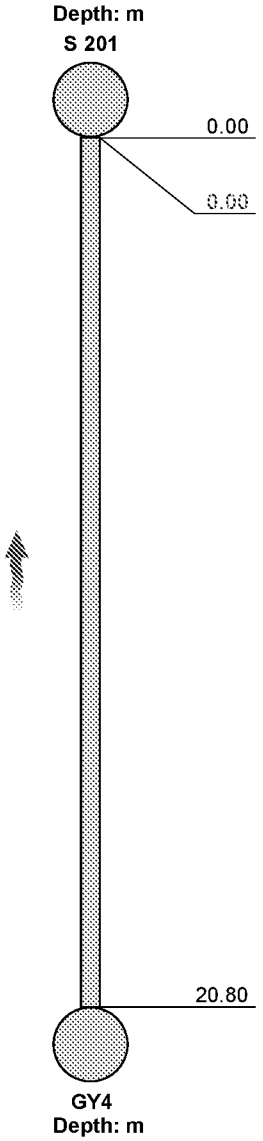
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Upstream	**Upstream Node:**	GY4
Road:	Oldlands Farm	**Inspected Length:**	20.80 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	20.80 m	**Downstream Node:**	S 201
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:181

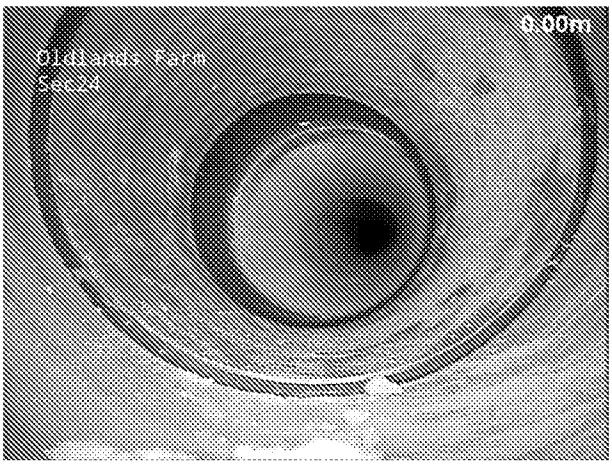


Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: S 201	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:00	1	
20.80	GYF	Finish node, gully, reference: GY4	00:01:21	2	

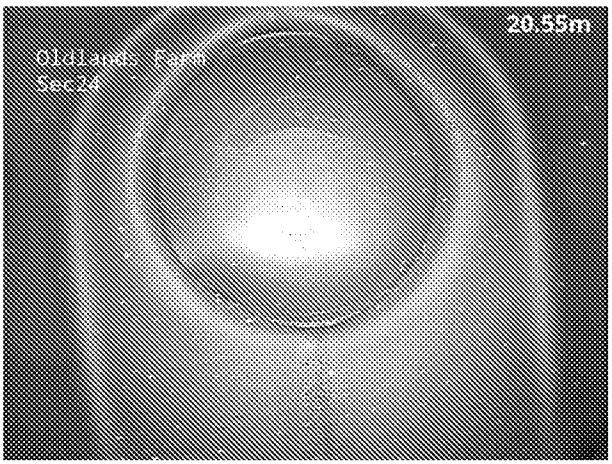
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 27/09/2023 - GY4X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
24	Upstream	GY4X		



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



2, 00:01:21, 20.80 m
Finish node, gully, reference: GY4

Section Inspection - 27/09/2023 - GY5X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
25	1	27/09/23	13:22	Not Specified	No Rain Or Snow	Yes	GY5X

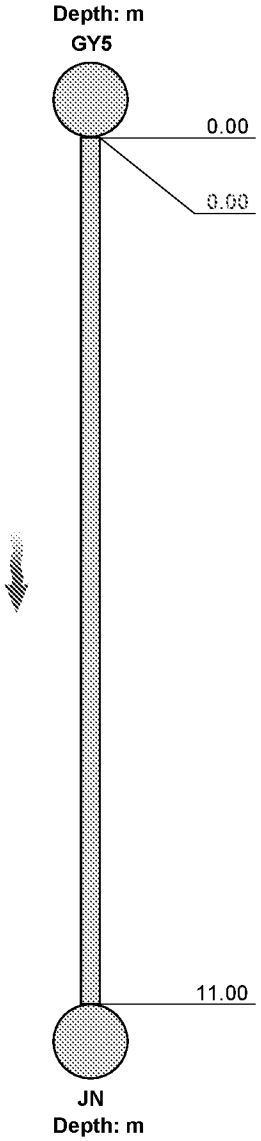
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	GY5
Road:	Oldlands Farm	**Inspected Length:**	11.00 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	11.00 m	**Downstream Node:**	JN
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:96



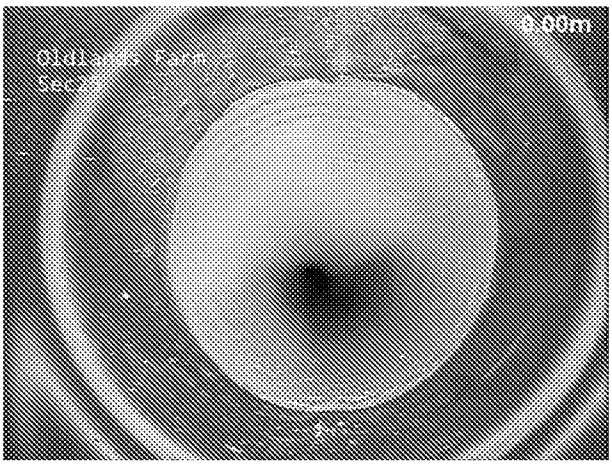
Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY5	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:08	1	
11.00	BRF	Finish node, major connection without manhole, reference: JN	00:00:39	2	

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

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 27/09/2023 - GY5X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
25	Downstream	GY5X		



1, 00:00:08, 0.00 m
Water level, 0% of the vertical dimension

2, 00:00:39, 11.00 m
Finish node, major connection without manhole, reference: JN

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Inspection - 27/09/2023 - GY6X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
26	1	27/09/23	13:28	Not Specified	No Rain Or Snow	Yes	GY6X

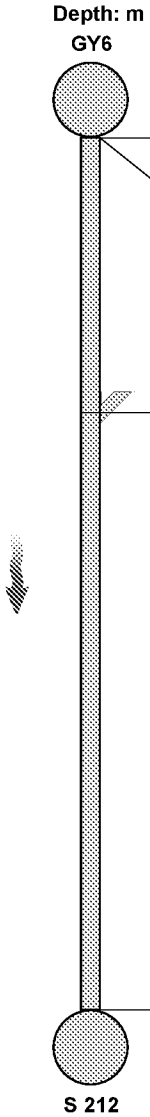
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	GY6
Road:	Oldlands Farm	**Inspected Length:**	20.30 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	20.30 m	**Downstream Node:**	S 212
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:176

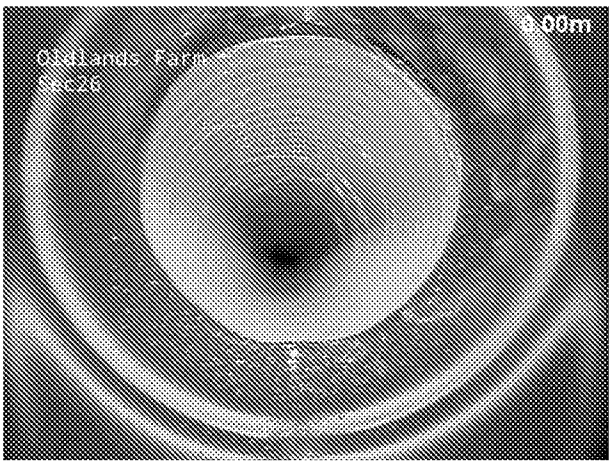


Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY6	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:06	1	
6.40	JN	Junction at 9 o'clock, 150mm dia	00:00:24	2	
20.30	MHF	Finish node, manhole, reference: S 212	00:01:00	3	

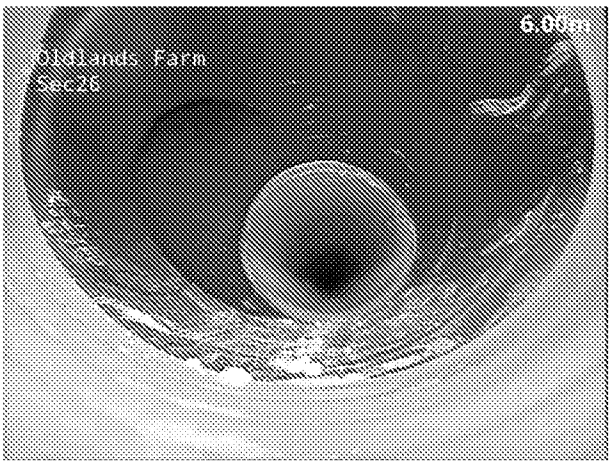
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 27/09/2023 - GY6X

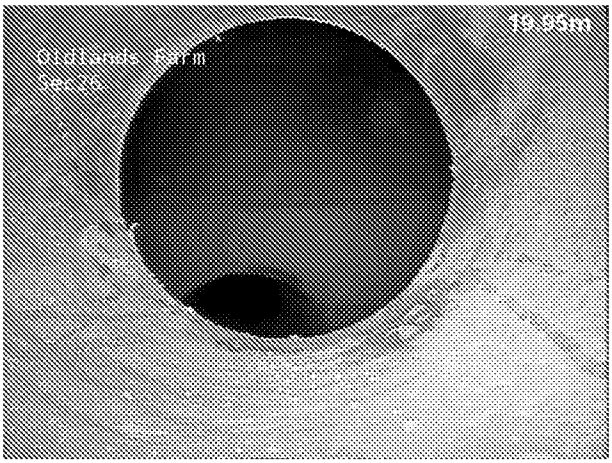
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
26	Downstream	GY6X		



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



2, 00:00:24, 6.40 m
Junction at 9 o'clock, 150mm dia



3, 00:01:00, 20.30 m
Finish node, manhole, reference: S 212

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Inspection - 05/10/2023 - RWP1X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
27	1	05/10/23	9:17	Not Specified	No Rain Or Snow	Yes	RWP1X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	RWP1
Road:	Oldlands Farm	**Inspected Length:**	3.90 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	3.90 m	**Downstream Node:**	JN
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

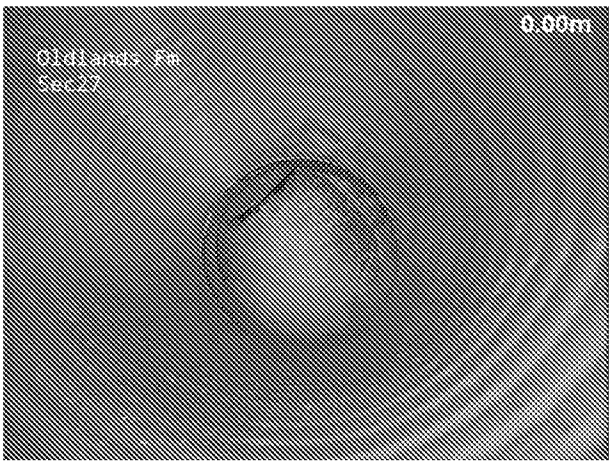
Scale: 1:50

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: RWP1	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:00	1	
0.90	REM	General remark: Rest bend	00:00:07	2	
3.20	LL	Line deviates left	00:00:28		
3.20	LD	Line deviates down	00:00:28	3	
3.90	BRF	Finish node, major connection without manhole, reference: JN	00:00:37	4	

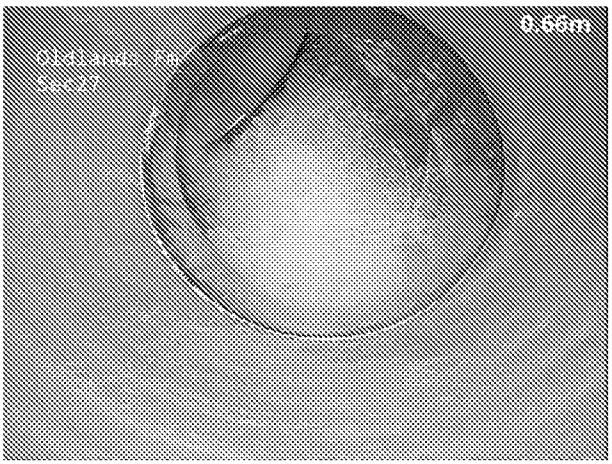
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 05/10/2023 - RWP1X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
27	Downstream	RWP1X		

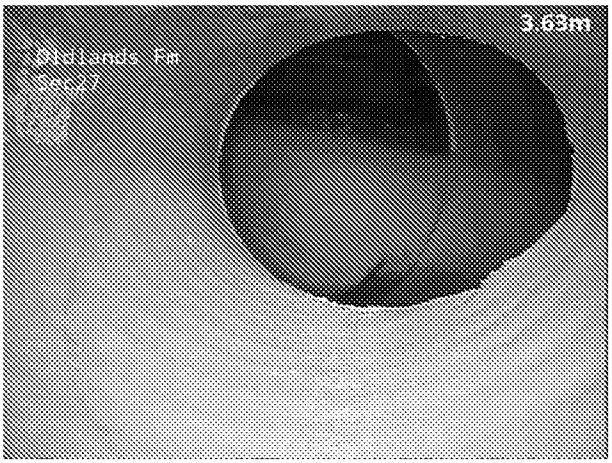


1, 00:00:00, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:07, 0.90 m
General remark, Rest bend

3, 00:00:28, 3.20 m
Line deviates down



4, 00:00:37, 3.90 m
Finish node, major connection without manhole, reference: JN

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 05/10/2023 - RWP2X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
28	1	05/10/23	9:21	Not Specified	No Rain Or Snow	Yes	RWP2X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	RWP2
Road:	Oldlands Farm	**Inspected Length:**	3.50 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	3.50 m	**Downstream Node:**	JN
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

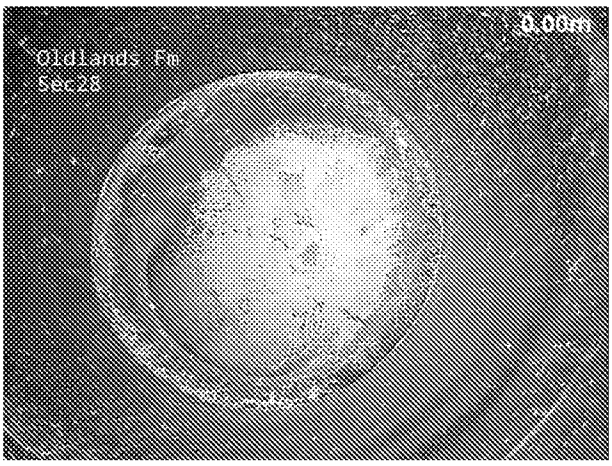
Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: RWP2	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:01	1	
0.50	REM	General remark: Rest bend	00:00:06		
3.20	LD	Line deviates down	00:00:13	2	
3.50	BRF	Finish node, major connection without manhole, reference: JN	00:00:20	3	

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

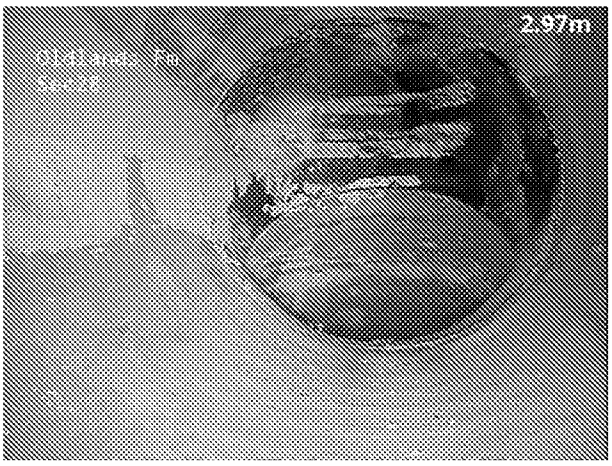
ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 05/10/2023 - RWP2X

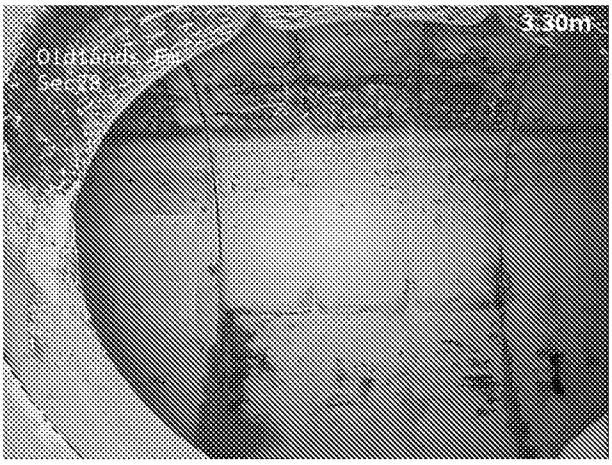
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
28	Downstream	RWP2X		



1, 00:00:01, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:13, 3.20 m
Line deviates down



3, 00:00:20, 3.50 m
Finish node, major connection without manhole, reference: JN

ARUN DISTRICT COUNCIL AL/87/21/PL

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 05/10/2023 - RWP3X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
29	1	05/10/23	9:23	Not Specified	No Rain Or Snow	Yes	RWP3X

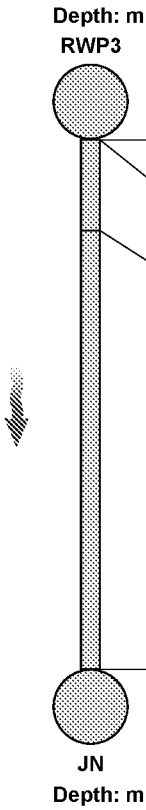
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	RWP3
Road:	Oldlands Farm	**Inspected Length:**	3.50 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	3.50 m	**Downstream Node:**	JN
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: RWP3	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:03	1	
0.60	REM	General remark: Rest bend	00:00:06	2	
3.50	BRF	Finish node, major connection without manhole, reference: JN	00:00:21	3	

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

ARUN DISTRICT COUNCIL AL/87/21/PL

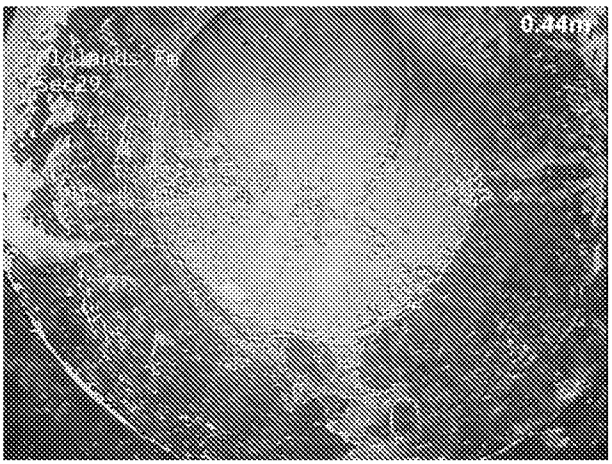
EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

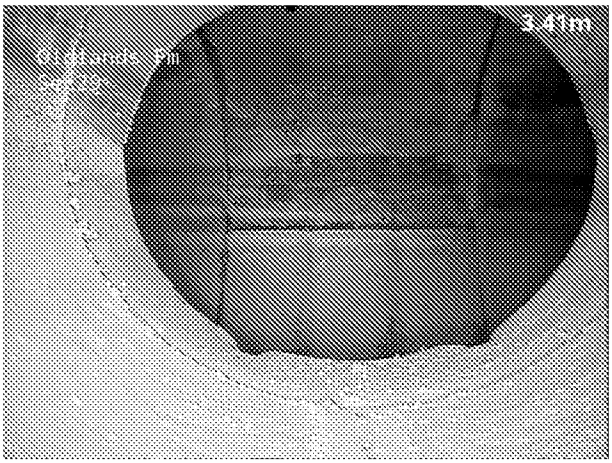
Section Pictures - 05/10/2023 - RWP3X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
29	Downstream	RWP3X		

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



2, 00:00:06, 0.60 m
General remark, Rest bend



3, 00:00:21, 3.50 m
Finish node, major connection without manhole, reference: JN

ARUN DISTRICT COUNCIL AL/87/21/PL

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 05/10/2023 - RWP4X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
30	1	05/10/23	9:26	Not Specified	No Rain Or Snow	Yes	RWP4X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	RWP4
Road:	Oldlands Farm	**Inspected Length:**	4.40 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	4.40 m	**Downstream Node:**	JN
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

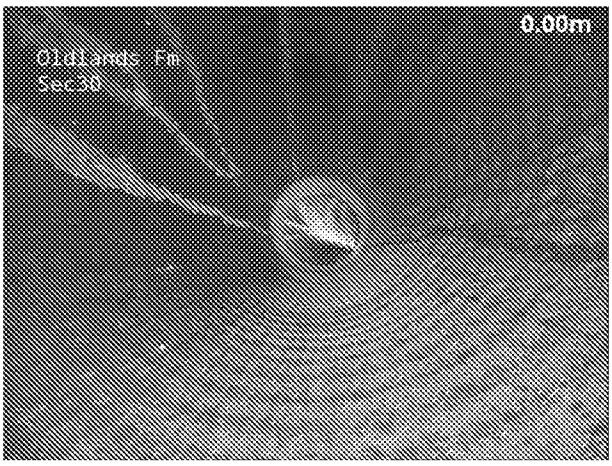
Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: RWP4	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:01	1	
1.30	REM	General remark. Rest bend	00:00:12	2	
4.40	BRF	Finish node, major connection without manhole, reference: JN	00:00:36	3	

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

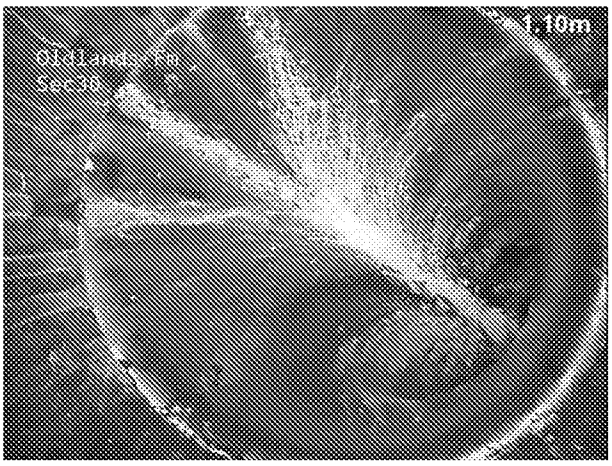
ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 05/10/2023 - RWP4X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
30	Downstream	RWP4X		



1, 00:00:01, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:12, 1.30 m
General remark, Rest bend

3, 00:00:36, 4.40 m
Finish node, major connection without manhole, reference: JN

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Inspection - 05/10/2023 - RWP5X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
31	1	05/10/23	9:28	Not Specified	No Rain Or Snow	Yes	RWP5X

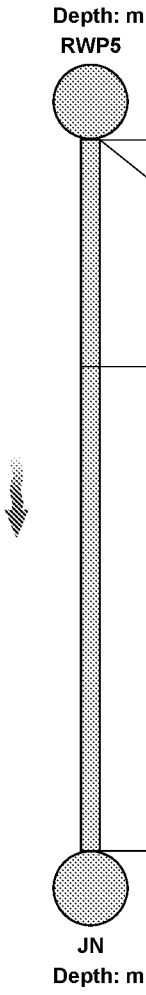
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	RWP5
Road:	Oldlands Farm	**Inspected Length:**	4.70 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	4.70 m	**Downstream Node:**	JN
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



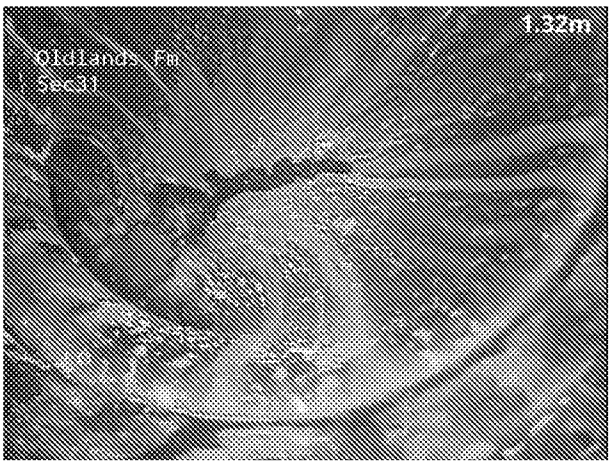
Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: RWP5	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:01	1	
1.50	REM	General remark: Rest bend	00:00:11	2	
4.70	BRF	Finish node, major connection without manhole, reference: JN	00:00:39	3	

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

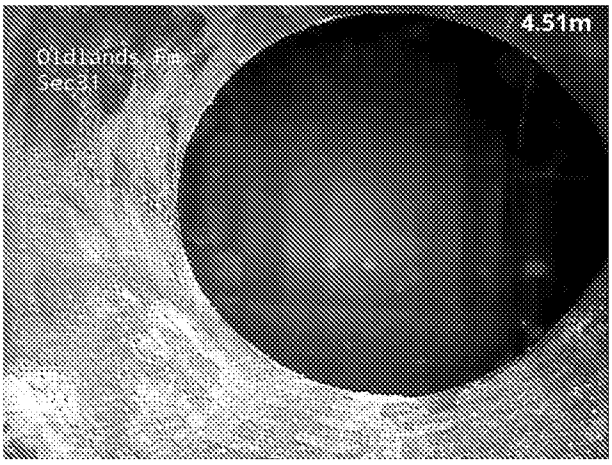
Section Pictures - 05/10/2023 - RWP5X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
31	Downstream	RWP5X		

1, 00:00:01, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:11, 1.50 m
General remark, Rest bend



3, 00:00:39, 4.70 m
Finish node, major connection without manhole, reference: JN

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Inspection - 05/10/2023 - RWP6X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
32	1	05/10/23	9:31	Not Specified	No Rain Or Snow	Yes	RWP6X

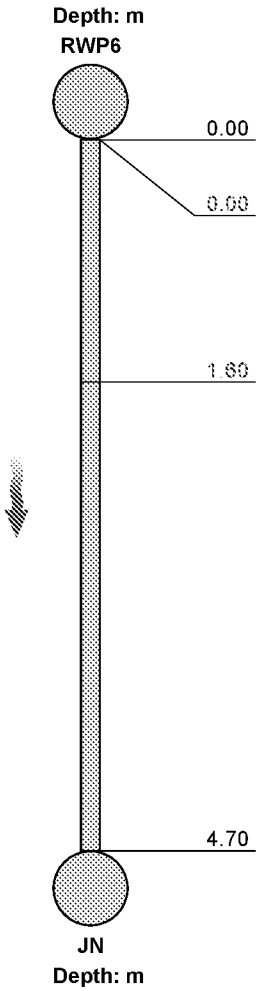
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	RWP6
Road:	Oldlands Farm	**Inspected Length:**	4.70 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	4.70 m	**Downstream Node:**	JN
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: RWP6	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:02	1	
1.60	REM	General remark: Rest bend	00:00:10	2	
4.70	BRF	Finish node, major connection without manhole, reference: JN	00:00:25	3	

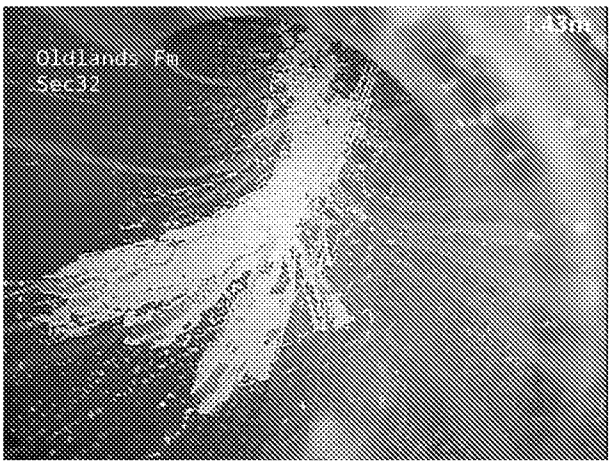
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

ARUN DISTRICT COUNCIL AL/87/21/PL

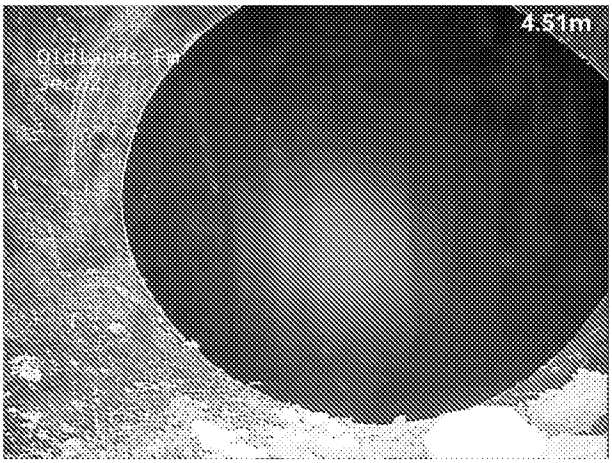
Section Pictures - 05/10/2023 - RWP6X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
32	Downstream	RWP6X		

1, 00:00:02, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:10, 1.60 m
General remark, Rest bend



3, 00:00:25, 4.70 m
Finish node, major connection without manhole, reference: JN

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Inspection - 05/10/2023 - RWP7X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
33	1	05/10/23	9:32	Not Specified	No Rain Or Snow	Yes	RWP7X

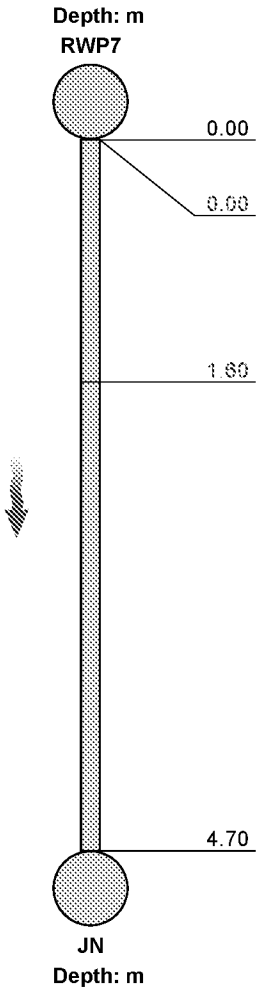
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	RWP7
Road:	Oldlands Farm	**Inspected Length:**	4.70 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	4.70 m	**Downstream Node:**	JN
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



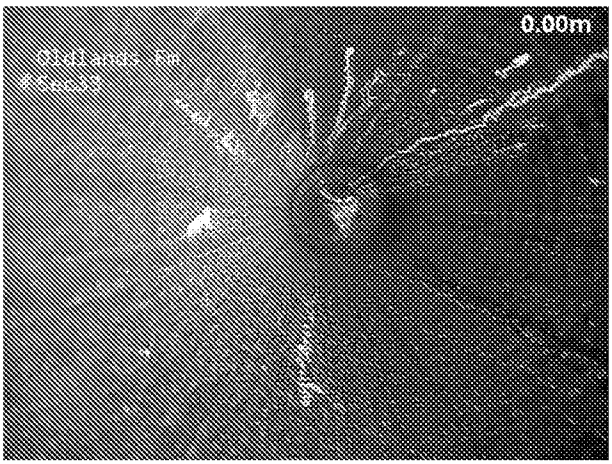
Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: RWP7	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:01	1	
1.60	REM	General remark: Rest bend	00:00:14	2	
4.70	BRF	Finish node, major connection without manhole, reference: JN	00:00:31	3	

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

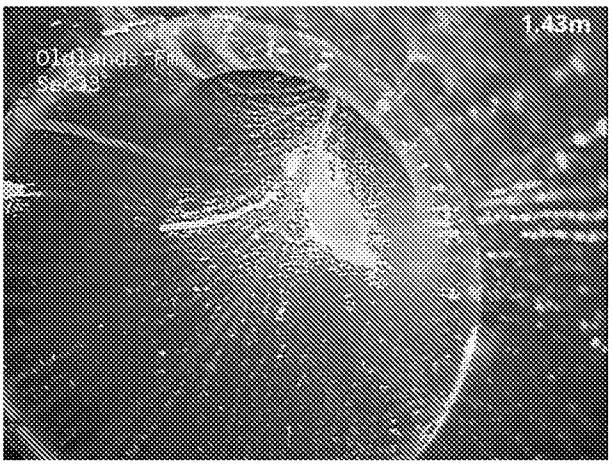
ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 05/10/2023 - RWP7X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
33	Downstream	RWP7X		



1, 00:00:01, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:14, 1.60 m
General remark, Rest bend

3, 00:00:31, 4.70 m
Finish node, major connection without manhole, reference: JN

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Inspection - 05/10/2023 - RWP8X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
34	1	05/10/23	9:34	Not Specified	No Rain Or Snow	Yes	RWP8X

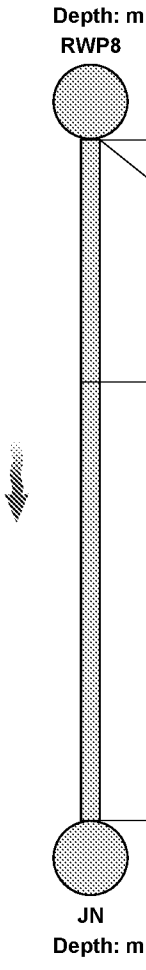
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	RWP8
Road:	Oldlands Farm	**Inspected Length:**	4.50 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	4.50 m	**Downstream Node:**	JN
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: RWP8	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:02	1	
1.60	REM	General remark: Rest bend	00:00:09	2	
4.50	BRF	Finish node, major connection without manhole, reference: JN	00:00:24	3	

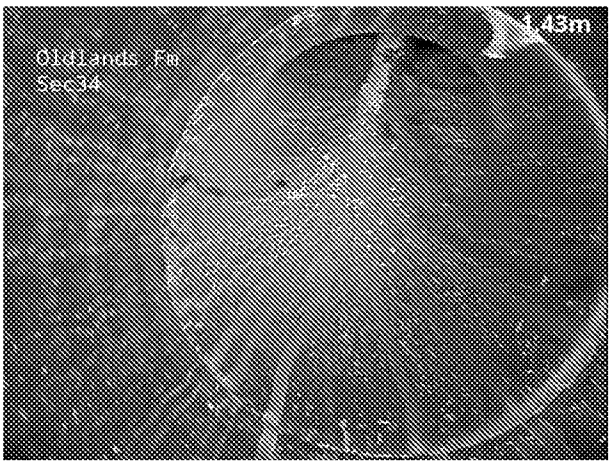
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

ARUN DISTRICT COUNCIL AL/87/21/PL

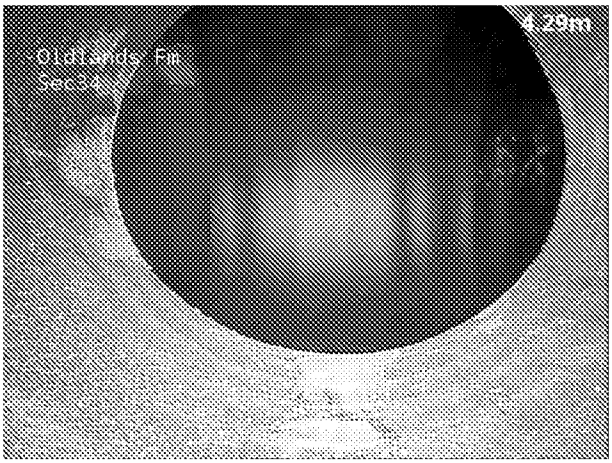
Section Pictures - 05/10/2023 - RWP8X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
34	Downstream	RWP8X		

1, 00:00:02, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:09, 1.60 m
General remark, Rest bend



3, 00:00:24, 4.50 m
Finish node, major connection without manhole, reference: JN

ARUN DISTRICT COUNCIL AL/87/21/PL

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 05/10/2023 - RWP9X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
35	1	05/10/23	9:35	Not Specified	No Rain Or Snow	Yes	RWP9X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	RWP9
Road:	Oldlands Farm	**Inspected Length:**	4.50 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	4.50 m	**Downstream Node:**	JN
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

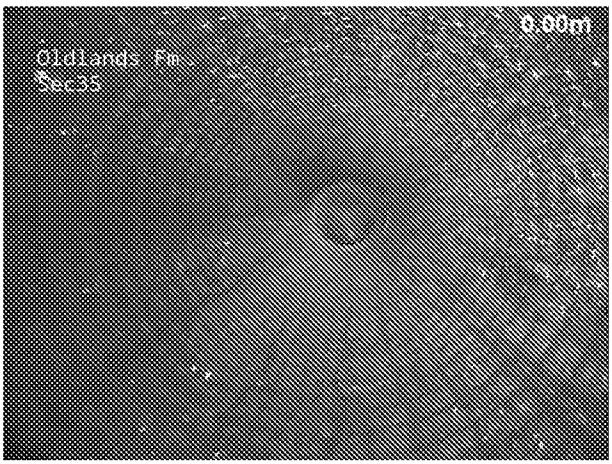
Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: RWP9	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:06	1	
1.80	REM	General remark: Rest bend	00:00:15	2	
4.50	BRF	Finish node, major connection without manhole, reference: JN	00:00:31	3	

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

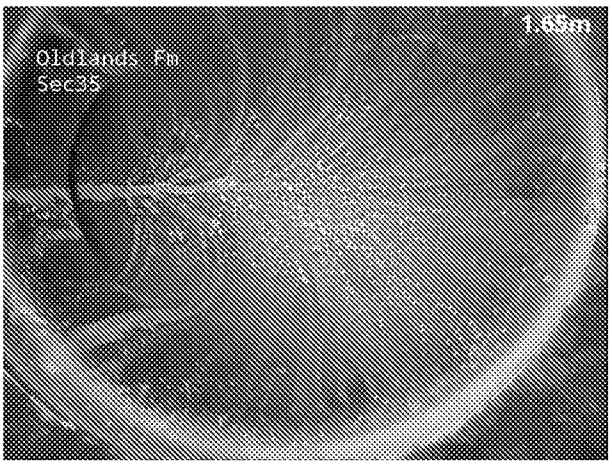
ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 05/10/2023 - RWP9X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
35	Downstream	RWP9X		



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



2, 00:00:15, 1.80 m
General remark, Rest bend

3, 00:00:31, 4.50 m
Finish node, major connection without manhole, reference: JN

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Inspection - 05/10/2023 - RWP10X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
36	1	05/10/23	9:41	Not Specified	No Rain Or Snow	Yes	RWP10X

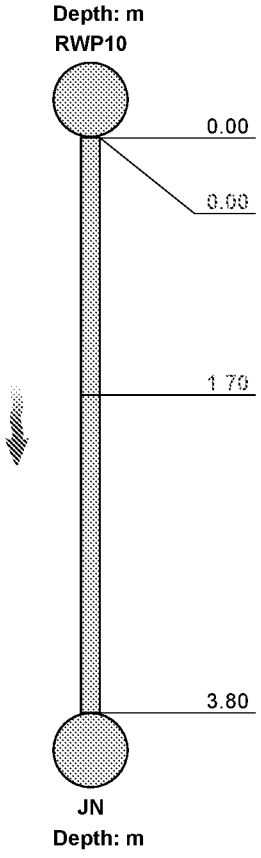
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	RWP10
Road:	Oldlands Farm	**Inspected Length:**	3.80 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	3.80 m	**Downstream Node:**	JN
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: RWP10	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:04	1	
1.70	REM	General remark: Rest bend	00:00:14	2	
3.80	BRF	Finish node, major connection without manhole, reference: JN	00:00:28	3	

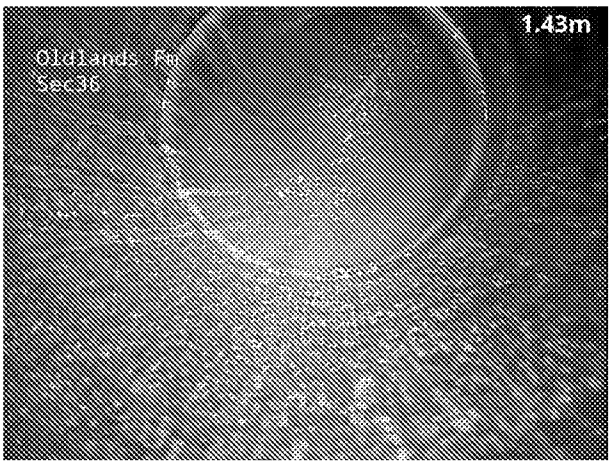
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 05/10/2023 - RWP10X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
36	Downstream	RWP10X		

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



2, 00:00:14, 1.70 m
General remark, Rest bend

3, 00:00:28, 3.80 m
Finish node, major connection without manhole, reference: JN

ARUN DISTRICT COUNCIL AL/87/21/PL

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 05/10/2023 - S 101X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
37	1	05/10/23	15:11	Not Specified	No Rain Or Snow	Yes	S 101X

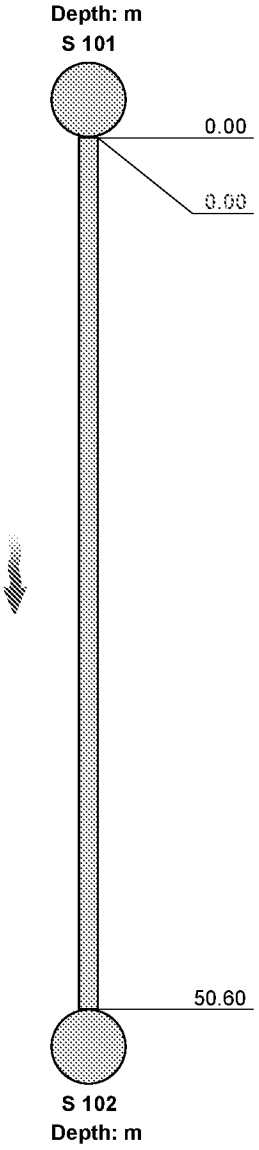
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	S 101
Road:	Oldlands Farm	**Inspected Length:**	50.60 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	50.60 m	**Downstream Node:**	S 102
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	750 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:439



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: S 101	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:01	1	
50.60	MHF	Finish node, manhole, reference: S 102	00:00:43	2	

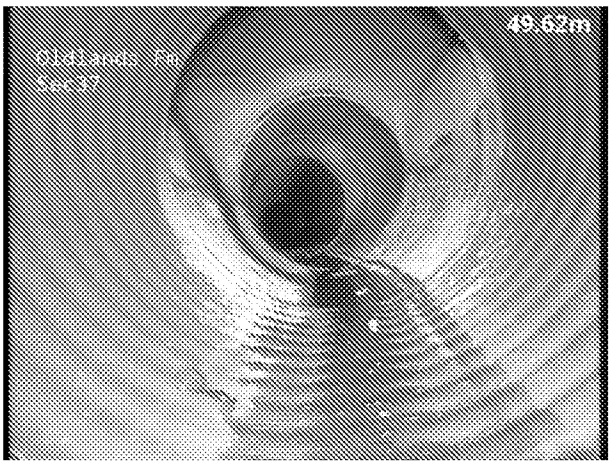
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 05/10/2023 - S 101X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
37	Downstream	S 101X		

1, 00:00:01, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:43, 50.60 m
Finish node, manhole, reference: S 102

Section Inspection - 05/10/2023 - S 102X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
38	1	05/10/23	15:06	Not Specified	No Rain Or Snow	Yes	S 102X

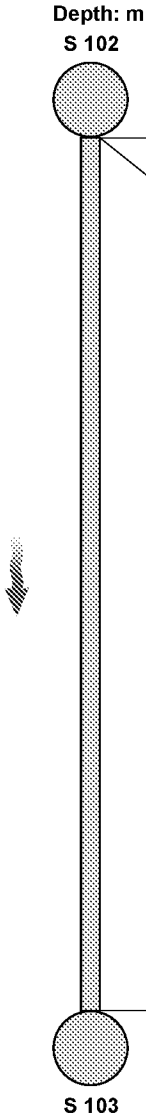
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	S 102
Road:	Oldlands Farm	**Inspected Length:**	35.20 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	35.20 m	**Downstream Node:**	S 103
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	750 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:305



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: S 102	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:02:09	1	
35.20	MHF	Finish node, manhole, reference: S 103	00:02:07	2	

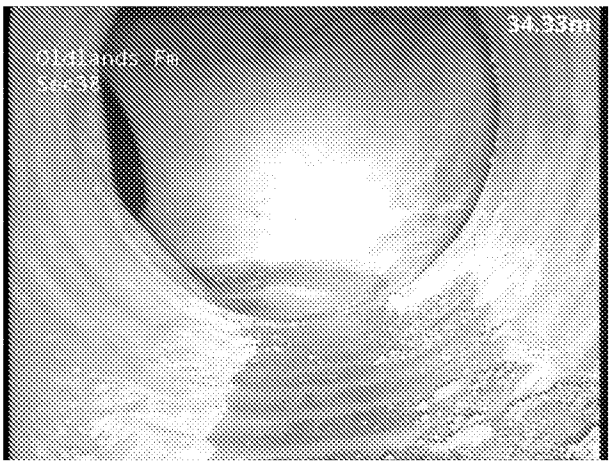
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 05/10/2023 - S 102X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
38	Downstream	S 102X		

1, 00:02:09, 0.00 m
Water level, 0% of the vertical dimension



2, 00:02:07, 35.20 m
Finish node, manhole, reference: S 103

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 05/10/2023 - SRWPX

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
39	1	05/10/23	10:16	Not Specified	No Rain Or Snow	Yes	SRWPX

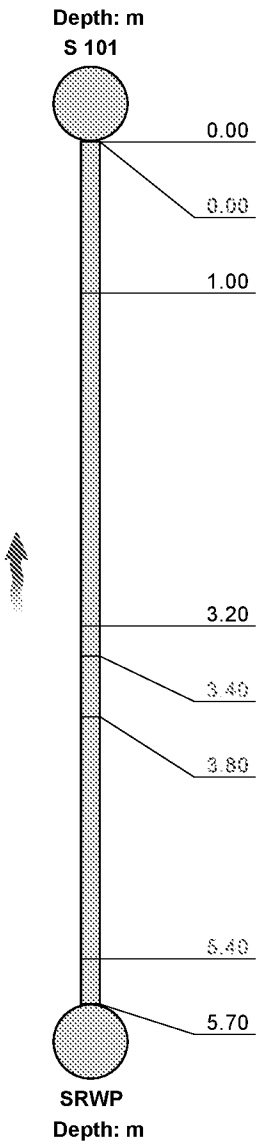
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Upstream	**Upstream Node:**	SRWP
Road:	Oldlands Farm	**Inspected Length:**	5.70 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	5.70 m	**Downstream Node:**	S 101
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: S 101	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:02	1	
1.00	SC	Pipe size changes, new size(s), 225mm high	00:00:10	2	
3.20	SC	Pipe size changes, new size(s), 150mm high	00:00:23	3	
3.40	LU	Line deviates up	00:00:23	4	
3.80	REM	General remark: Line reverts horizontal	00:00:33	5	
5.40	LU	Line deviates up	00:00:46		
5.70	MHF	Finish node, manhole, reference: SRWP	00:00:45	6	

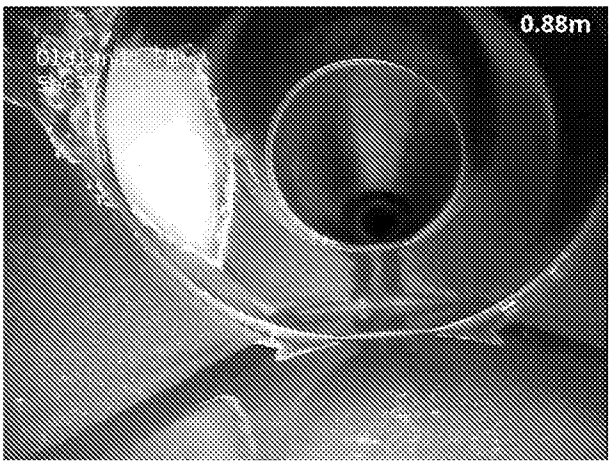
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

ARUN DISTRICT COUNCIL AL/87/21/PL

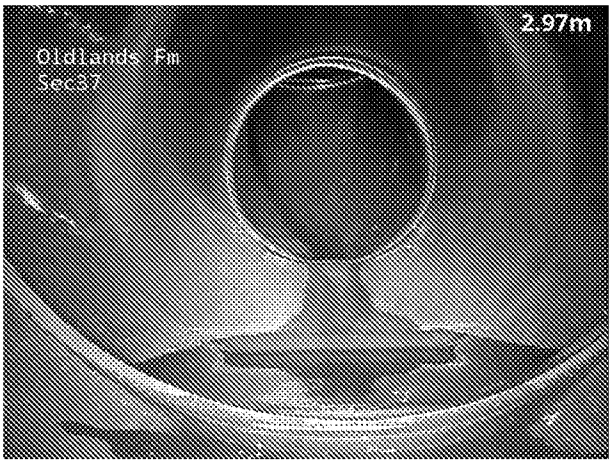
Section Pictures - 05/10/2023 - SRWPX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
39	Upstream	SRWPX		

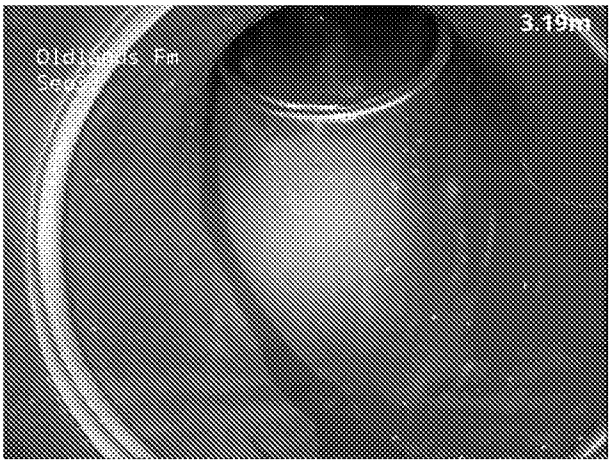
1, 00:00:02, 0.00 m
Water level, 0% of the vertical dimension



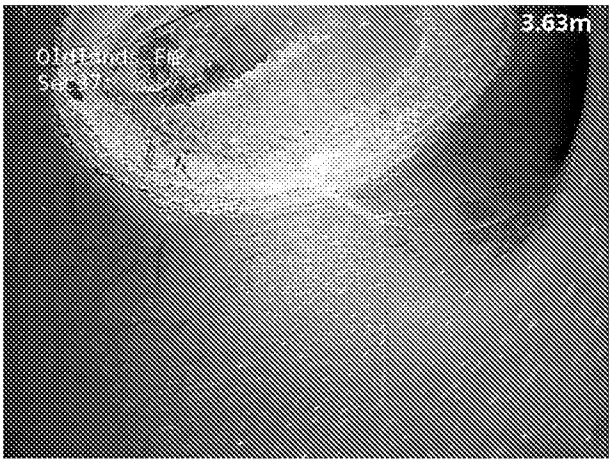
2, 00:00:10, 1.00 m
Pipe size changes, new size(s), 225mm high



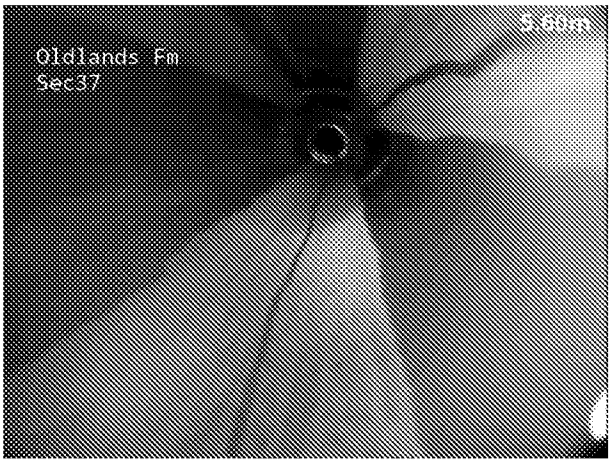
3, 00:00:23, 3.20 m
Pipe size changes, new size(s), 150mm high



4, 00:00:23, 3.40 m
Line deviates up



5, 00:00:33, 3.80 m
General remark, Line reverts horizontal



6, 00:00:45, 5.70 m
Finish node, manhole, reference: SRWP

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Inspection - 05/10/2023 - SRWPX

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
40	1	05/10/23	11:21	Not Specified	No Rain Or Snow	Yes	SRWPX

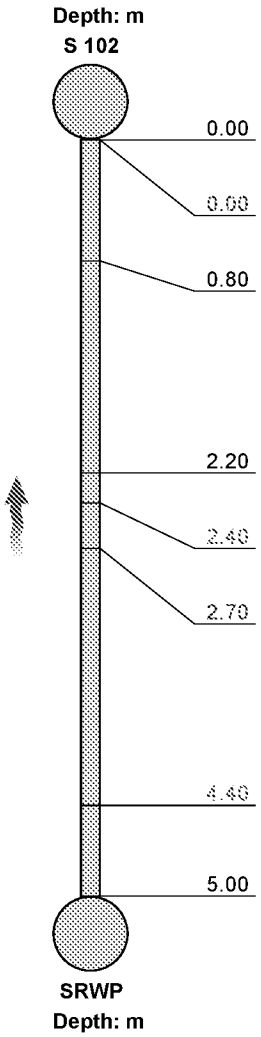
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Upstream	**Upstream Node:**	SRWP
Road:	Oldlands Farm	**Inspected Length:**	5.00 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	5.00 m	**Downstream Node:**	S 102
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	300 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50



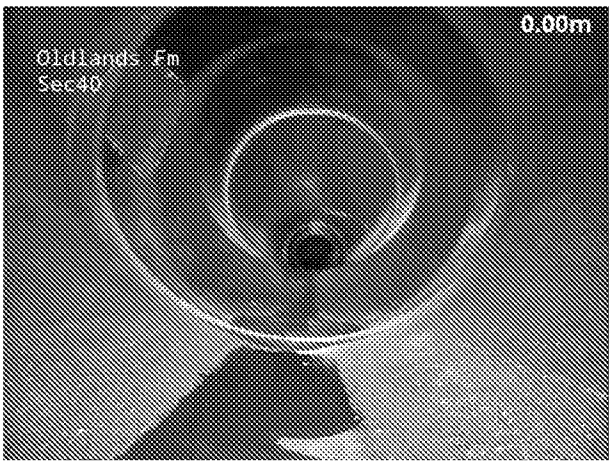
Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: S 102	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:01	1	
0.80	SC	Pipe size changes, new size(s), 225mm high	00:00:08	2	
2.20	SC	Pipe size changes, new size(s), 150mm high	00:00:15	3	
2.40	LU	Line deviates up	00:00:20	4	
2.70	REM	General remark: Line reverts horizontal	00:00:24	5	
4.40	LU	Line deviates up	00:00:34	6	
5.00	MHF	Finish node, manhole, reference: SRWP	00:00:43	7	

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

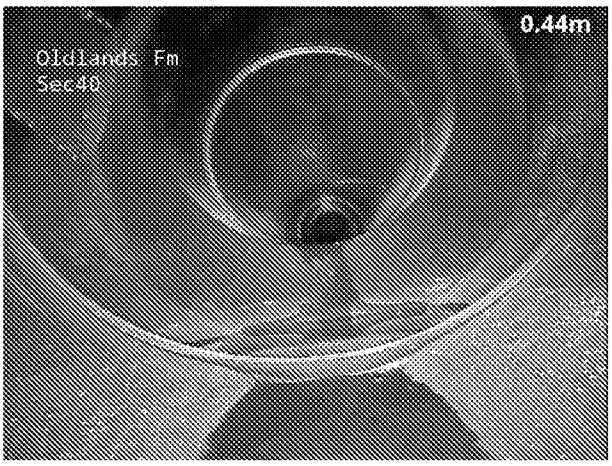
ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 05/10/2023 - SRWPX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
40	Upstream	SRWPX		

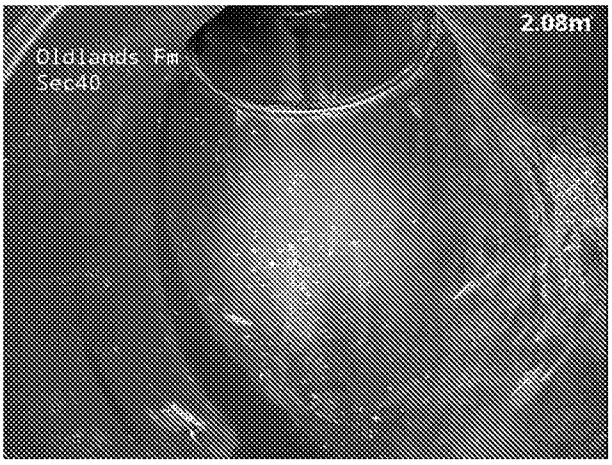


1, 00:00:01, 0.00 m
Water level, 0% of the vertical dimension

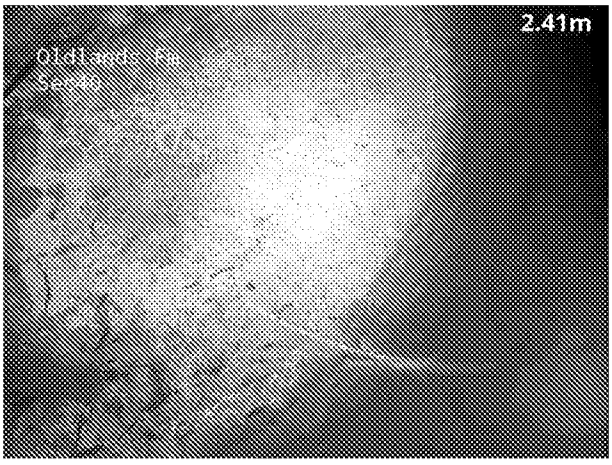


2, 00:00:08, 0.80 m
Pipe size changes, new size(s), 225mm high

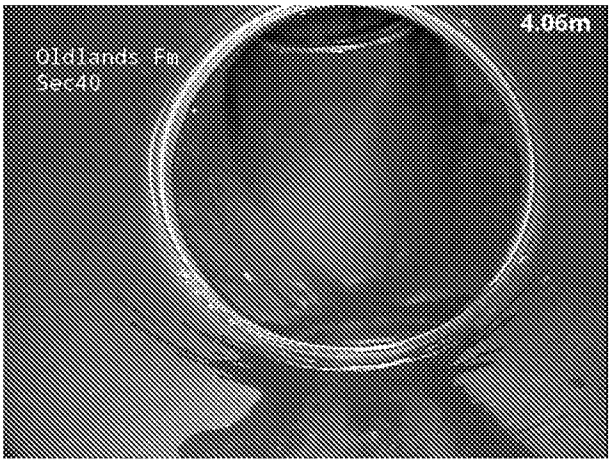
3, 00:00:15, 2.20 m
Pipe size changes, new size(s), 150mm high



4, 00:00:20, 2.40 m
Line deviates up



5, 00:00:24, 2.70 m
General remark, Line reverts horizontal



6, 00:00:34, 4.40 m
Line deviates up

Section Pictures - 05/10/2023 - SRWPX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
40	Upstream	SRWPX		

7, 00:00:43, 5.00 m
Finish node, manhole, reference: SRWP

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 05/10/2023 - S 103X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
41	1	05/10/23	16:09	Not Specified	No Rain Or Snow	Yes	S 103X

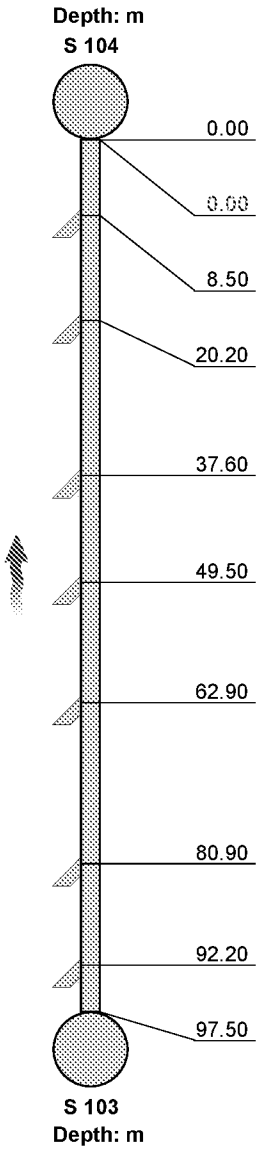
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Upstream	**Upstream Node:**	S 103
Road:	Oldlands Farm	**Inspected Length:**	97.50 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	97.50 m	**Downstream Node:**	S 104
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	750 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:845



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: S 104	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:02	1	
8.50	JN	Junction at 2 o'clock, 150mm dia	00:01:05	2	
20.20	JN	Junction at 2 o'clock, 150mm dia	00:02:14	3	
37.60	JN	Junction at 2 o'clock, 150mm dia	00:03:00	4	
49.50	JN	Junction at 2 o'clock, 150mm dia	00:03:36	5	
62.90	JN	Junction at 3 o'clock, 150mm dia	00:04:14	6	
80.90	JN	Junction at 3 o'clock, 150mm dia	00:05:22	7	
92.20	JN	Junction at 3 o'clock, 150mm dia	00:05:55	8	
97.50	MHF	Finish node, manhole, reference: S 103	00:06:18	9	

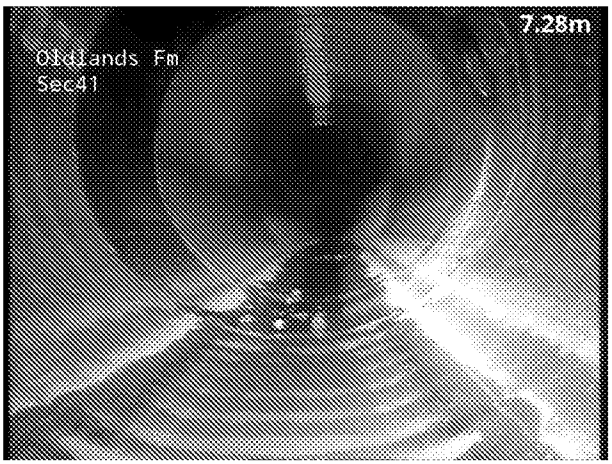
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

ARUN DISTRICT COUNCIL AL/87/21/PL

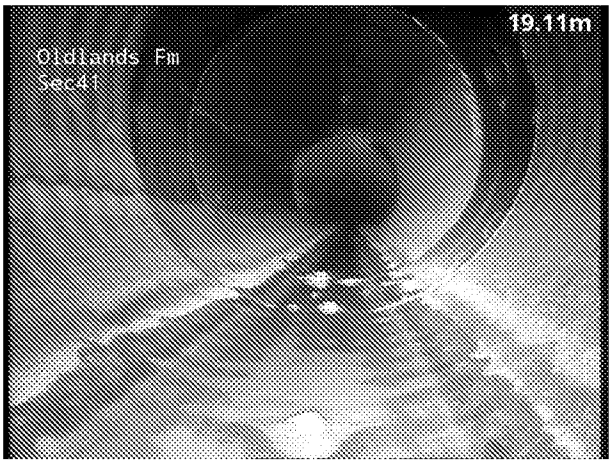
Section Pictures - 05/10/2023 - S 103X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
41	Upstream	S 103X		

1, 00:00:02, 0.00 m
Water level, 0% of the vertical dimension

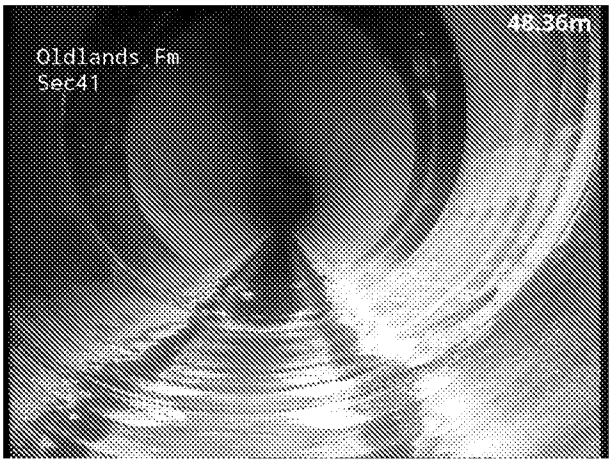


2, 00:01:05, 8.50 m
Junction at 2 o'clock, 150mm dia

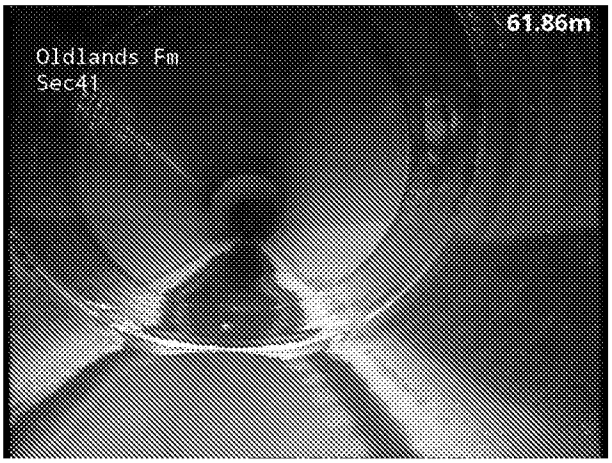


3, 00:02:14, 20.20 m
Junction at 2 o'clock, 150mm dia

4, 00:03:00, 37.60 m
Junction at 2 o'clock, 150mm dia



5, 00:03:36, 49.50 m
Junction at 2 o'clock, 150mm dia



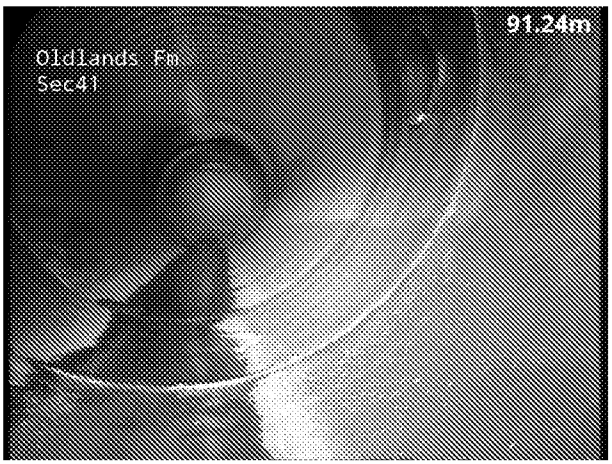
6, 00:04:14, 62.90 m
Junction at 3 o'clock, 150mm dia

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 05/10/2023 - S 103X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
41	Upstream	S 103X		

7, 00:05:22, 80.90 m
Junction at 3 o'clock, 150mm dia



8, 00:05:55, 92.20 m
Junction at 3 o'clock, 150mm dia

9, 00:06:18, 97.50 m
Finish node, manhole, reference: S 103

ARUN DISTRICT COUNCIL AL/87/21/PL

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 05/10/2023 - S 104X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
42	1	05/10/23	16:17	Not Specified	No Rain Or Snow	Yes	S 104X

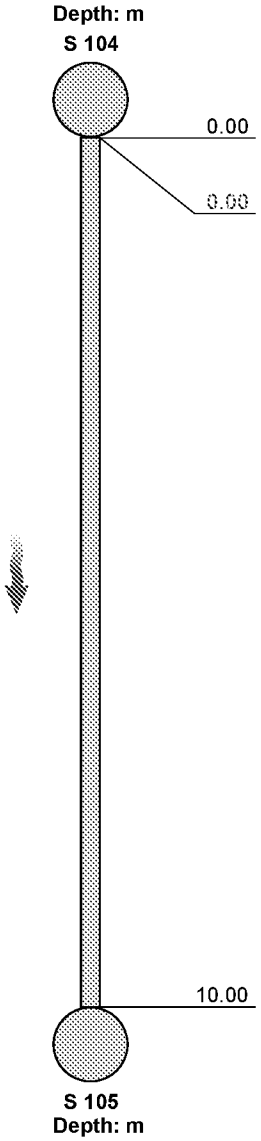
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	S 104
Road:	Oldlands Farm	**Inspected Length:**	10.00 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	10.00 m	**Downstream Node:**	S 105
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	750 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:87



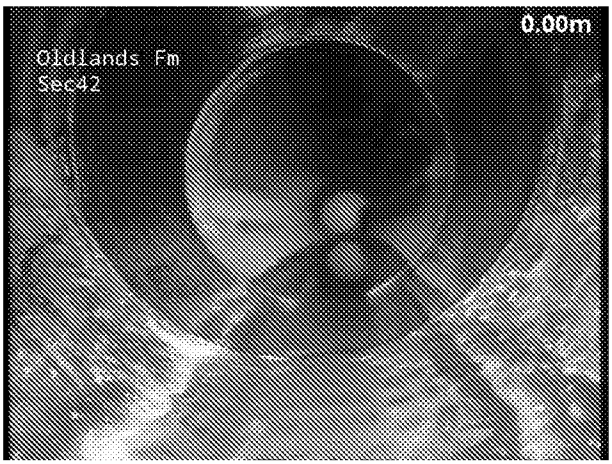
Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: S 104	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:11	1	
10.00	CPF	Finish node, catchpit, reference: S 105	00:01:19	2	

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

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 05/10/2023 - S 104X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
42	Downstream	S 104X		



1, 00:00:11, 0.00 m
Water level, 0% of the vertical dimension

2, 00:01:19, 10.00 m
Finish node, catchpit, reference: S 105

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 05/10/2023 - S 105X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
43	1	05/10/23	16:23	Not Specified	No Rain Or Snow	Yes	S 105X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	S 105
Road:	Oldlands Farm	**Inspected Length:**	11.80 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	11.80 m	**Downstream Node:**	AT
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	450 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

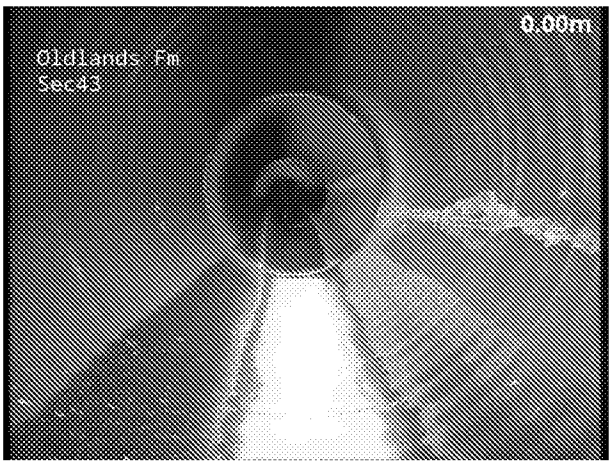
Scale: 1:103	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S 105						
	0.00	CP	Start node, catchpit, reference: S 105	00:00:00		
	0.00	WL	Water level, 0% of the vertical dimension	00:00:02	1	
	11.80	OCF	Finish node, other special chamber, reference: AT	00:00:48	2	
AT Depth: m						

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

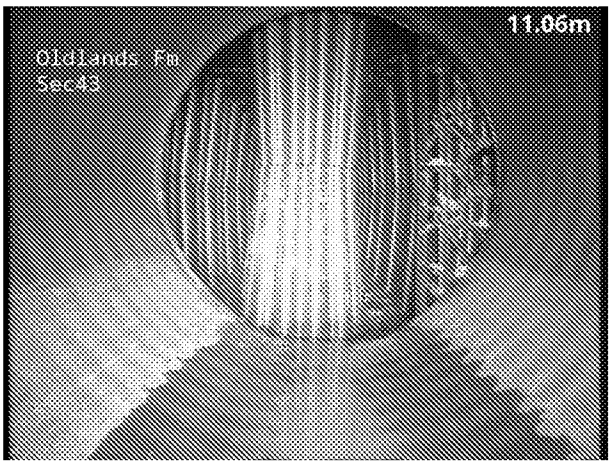
ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 05/10/2023 - S 105X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
43	Downstream	S 105X		



1, 00:00:02, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:48, 11.80 m
Finish node, other special chamber, reference: AT

Section Inspection - 05/10/2023 - S 010X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
44	1	05/10/23	17:05	Not Specified	No Rain Or Snow	Yes	S 010X

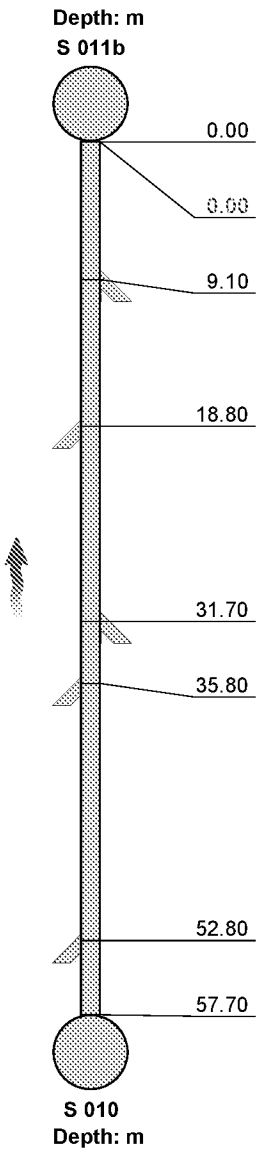
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Upstream	**Upstream Node:**	S 010
Road:	Oldlands Farm	**Inspected Length:**	57.70 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	57.70 m	**Downstream Node:**	S 011B
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	375 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:500

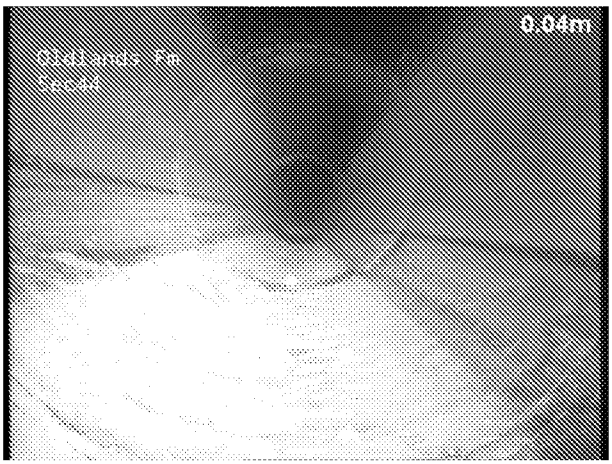


Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: S 011b	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:14	1	
9.10	JN	Junction at 10 o'clock, 100mm dia	00:01:04	2	
18.80	JN	Junction at 3 o'clock, 150mm dia	00:01:50	3	
31.70	JN	Junction at 9 o'clock, 100mm dia	00:02:53	4	
35.80	JN	Junction at 3 o'clock, 150mm dia	00:03:12	5	
52.80	JN	Junction at 2 o'clock, 150mm dia	00:04:05	6	
57.70	MHF	Finish node, manhole, reference: S 010	00:04:28	7	

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

Section Pictures - 05/10/2023 - S 010X

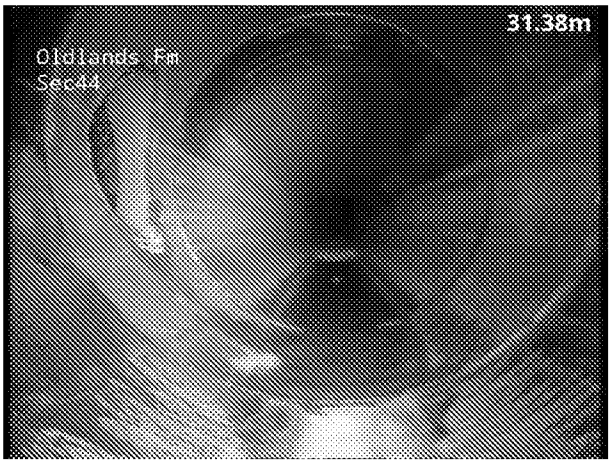
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
44	Upstream	S 010X		



1, 00:00:14, 0.00 m
Water level, 0% of the vertical dimension

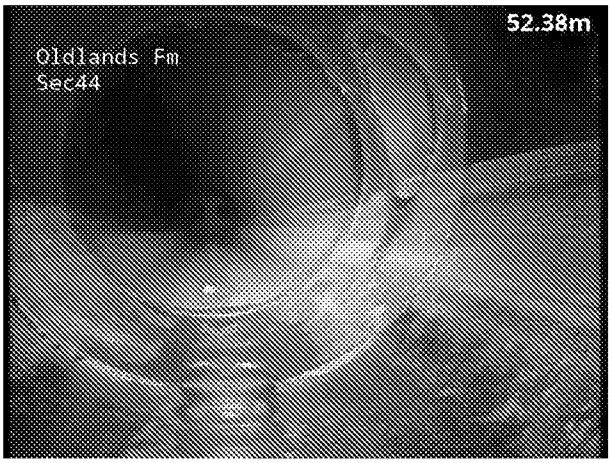
2, 00:01:04, 9.10 m
Junction at 10 o'clock, 100mm dia

3, 00:01:50, 18.80 m
Junction at 3 o'clock, 150mm dia



4, 00:02:53, 31.70 m
Junction at 9 o'clock, 100mm dia

5, 00:03:12, 35.80 m
Junction at 3 o'clock, 150mm dia



6, 00:04:05, 52.80 m
Junction at 2 o'clock, 150mm dia

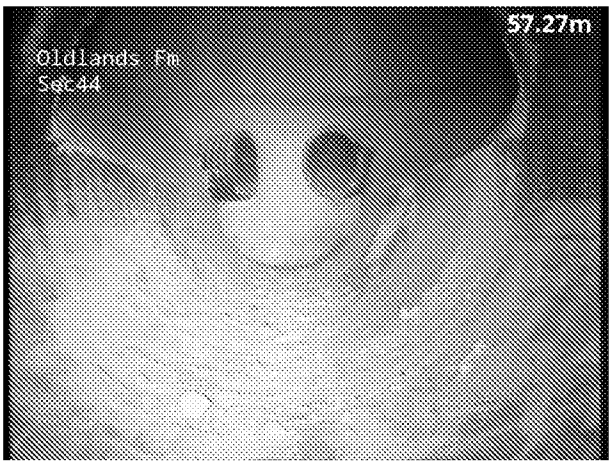
ARUN DISTRICT COUNCIL AL/87/21/PL

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Pictures - 05/10/2023 - S 010X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
44	Upstream	S 010X		



7, 00:04:28, 57.70 m
Finish node, manhole, reference: S 010

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Inspection - 05/10/2023 - S 011bX

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
45	1	05/10/23	17:08	Not Specified	No Rain Or Snow	Yes	S 011BX

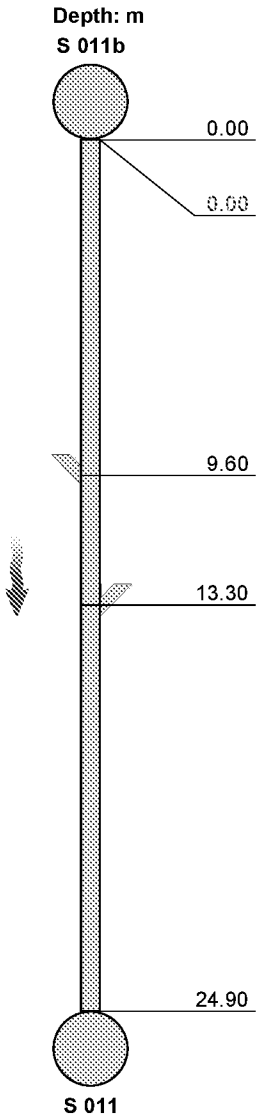
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	S 011B
Road:	Oldlands Farm	**Inspected Length:**	24.90 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	24.90 m	**Downstream Node:**	S 011
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	375 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:216

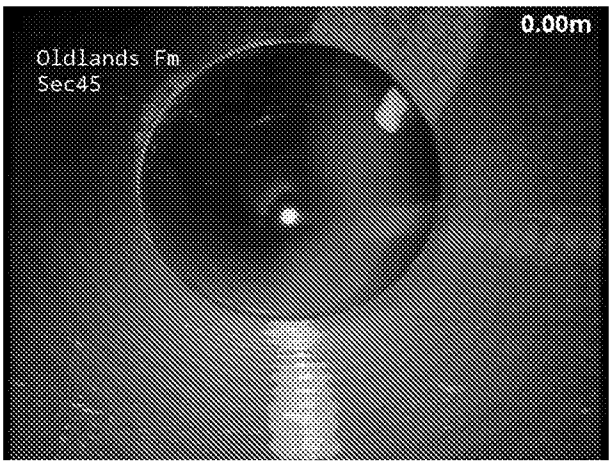


Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: S 011b	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:01	1	
9.60	JN	Junction at 3 o'clock, 150mm dia	00:00:40	2	
13.30	JN	Junction at 9 o'clock, 150mm dia	00:01:02	3	
24.90	MHF	Finish node, manhole, reference: S 011	00:01:53	4	

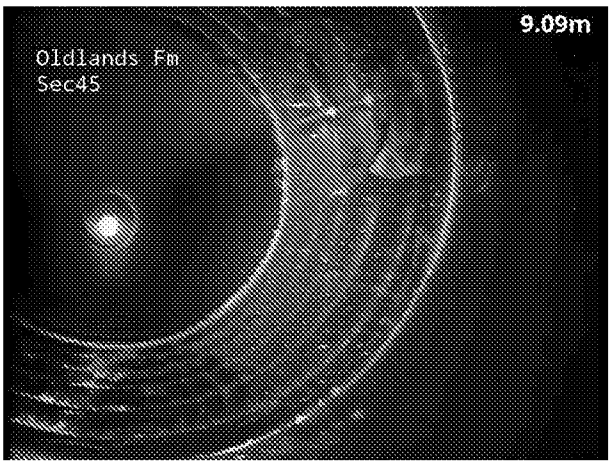
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Pictures - 05/10/2023 - S 011bX

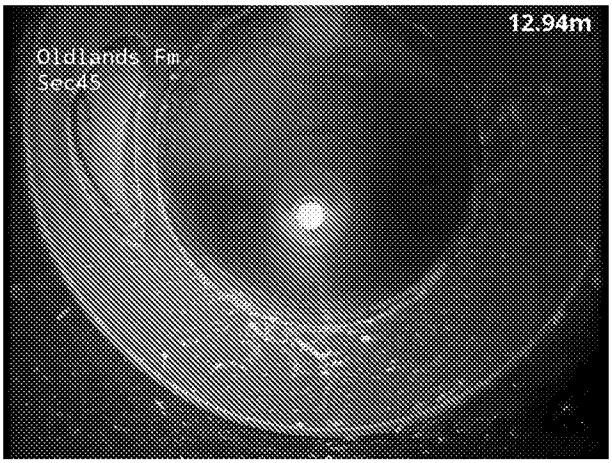
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
45	Downstream	S 011BX		



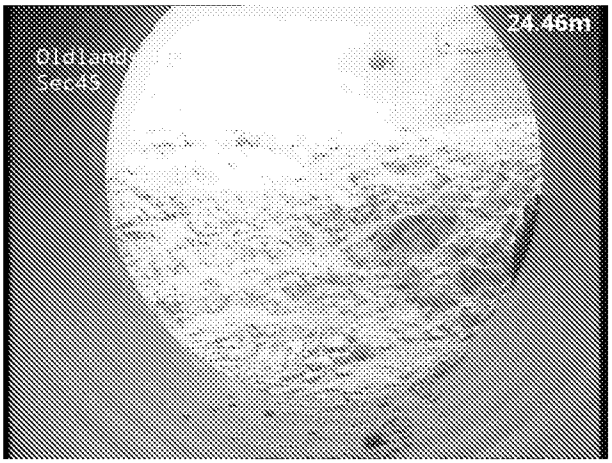
1, 00:00:01, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:40, 9.60 m
Junction at 3 o'clock, 150mm dia



3, 00:01:02, 13.30 m
Junction at 9 o'clock, 150mm dia



4, 00:01:53, 24.90 m
Finish node, manhole, reference: S 011

ARUN DISTRICT COUNCIL AL/87/21/PL

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 05/10/2023 - S 011aX

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
46	1	05/10/23	13:21	Not Specified	No Rain Or Snow	Yes	S 011AX

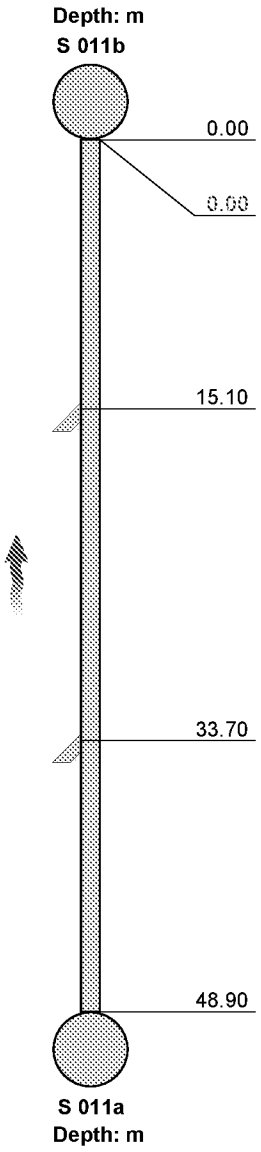
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Upstream	**Upstream Node:**	S 011A
Road:	Oldlands Farm	**Inspected Length:**	48.90 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	48.90 m	**Downstream Node:**	S 011B
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	225 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:424



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: S 011b	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:01	1	
15.10	JN	Junction at 2 o'clock, 100mm dia	00:00:48	2	
33.70	JN	Junction at 2 o'clock, 100mm dia	00:01:38	3	
48.90	MHF	Finish node, manhole, reference: S 011a	00:02:09	4	

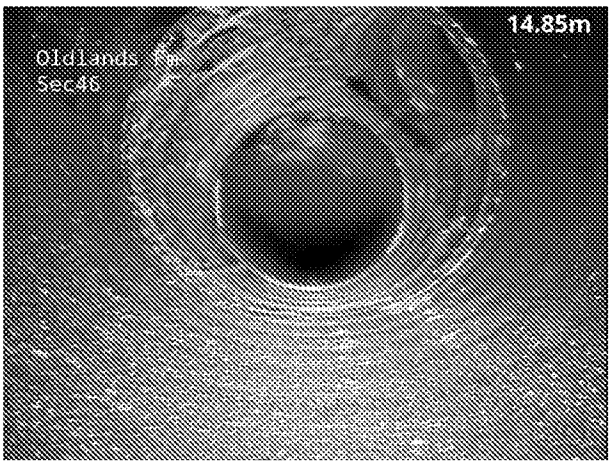
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

ARUN DISTRICT COUNCIL AL/87/21/PL

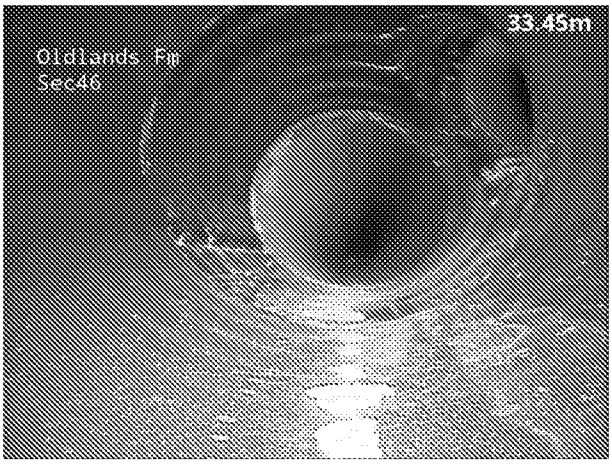
Section Pictures - 05/10/2023 - S 011aX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
46	Upstream	S 011AX		

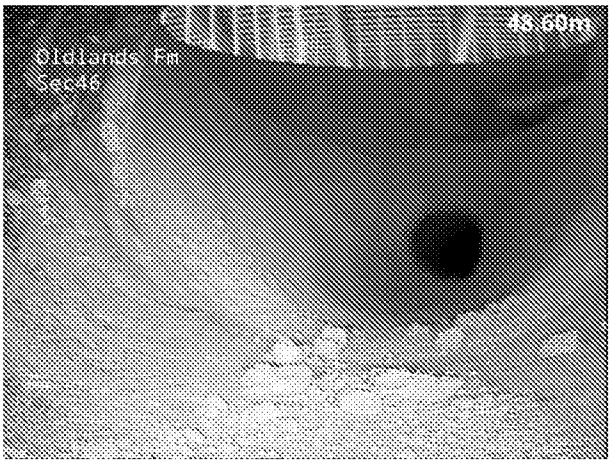
1, 00:00:01, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:48, 15.10 m
Junction at 2 o'clock, 100mm dia



3, 00:01:38, 33.70 m
Junction at 2 o'clock, 100mm dia



4, 00:02:09, 48.90 m
Finish node, manhole, reference: S 011a

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 05/10/2023 - GYX

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
47	1	05/10/23	13:21	Not Specified	No Rain Or Snow	Yes	GYX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Upstream	**Upstream Node:**	GY
Road:	Oldlands Farm	**Inspected Length:**	4.00 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	4.00 m	**Downstream Node:**	S 011A
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m S 011a						
	0.00	MH	Start node, manhole, reference: S 011a	00:00:00		
	0.00	WL	Water level, 0% of the vertical dimension	00:00:01	1	
	4.00	GYF	Finish node, gully, reference: GY	00:00:18	2	
GY Depth: m						

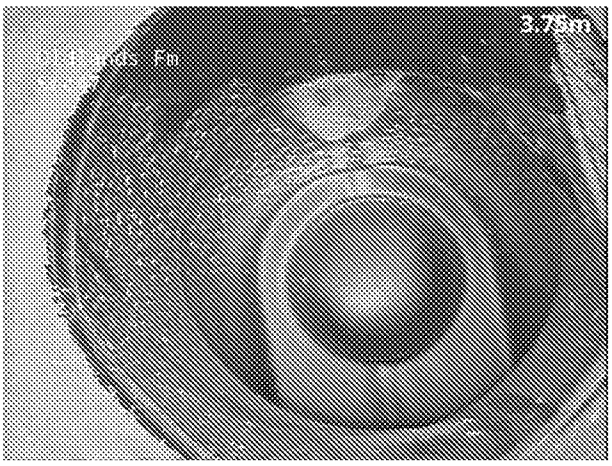
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 05/10/2023 - GYX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
47	Upstream	GYX		

1, 00:00:01, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:18, 4.00 m
Finish node, gully, reference: GY

Section Inspection - 05/10/2023 - GY7X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
48	1	05/10/23	13:43	Not Specified	No Rain Or Snow	Yes	GY7X

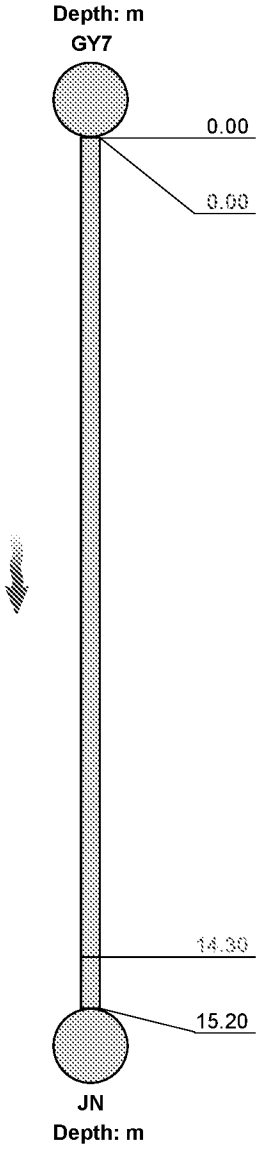
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	GY7
Road:	Oldlands Farm	**Inspected Length:**	15.20 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	15.20 m	**Downstream Node:**	JN
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:132



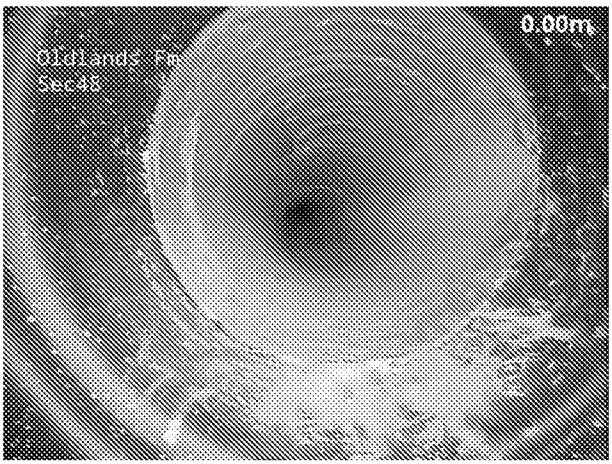
Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY7	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:01	1	
14.30	LD	Line deviates down	00:00:34	2	
15.20	BRF	Finish node, major connection without manhole, reference: JN	00:00:45	3	

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

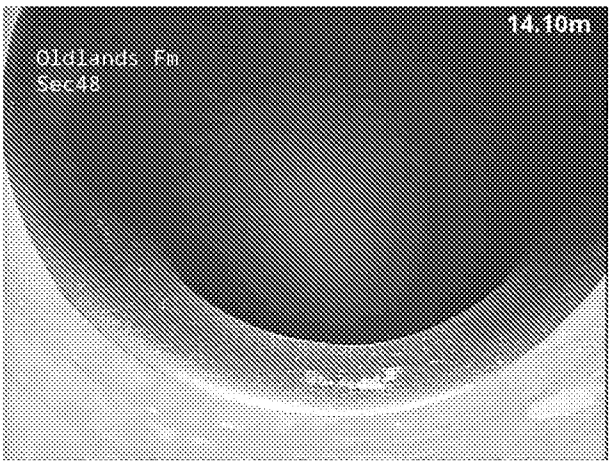
ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 05/10/2023 - GY7X

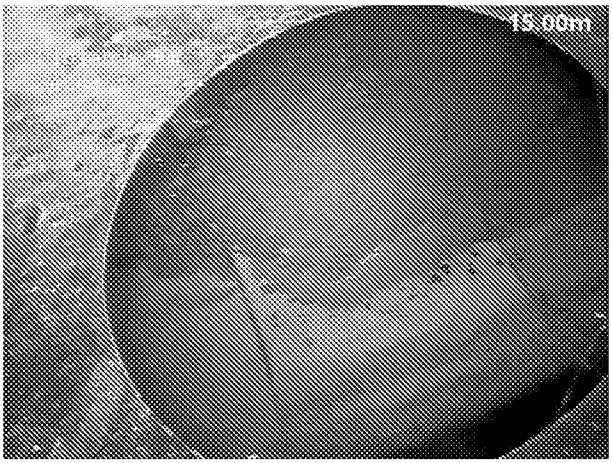
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
48	Downstream	GY7X		



1, 00:00:01, 0.00 m
Water level, 0% of the vertical dimension



2, 00:00:34, 14.30 m
Line deviates down



3, 00:00:45, 15.20 m
Finish node, major connection without manhole, reference: JN

ARUN DISTRICT COUNCIL AL/87/21/PL

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 05/10/2023 - S 208X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
49	1	05/10/23	18:11	Not Specified	No Rain Or Snow	Yes	S 208X

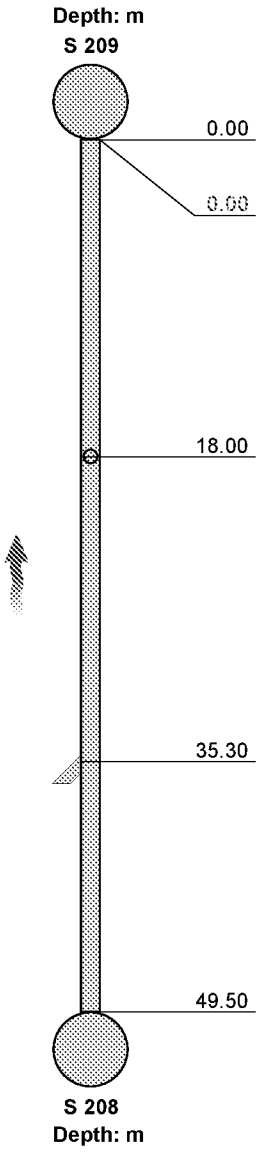
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Upstream	**Upstream Node:**	S 208
Road:	Oldlands Farm	**Inspected Length:**	49.50 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	49.50 m	**Downstream Node:**	S 209
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	525 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:429



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: S 209	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:05	1	
18.00	JN	Junction at 12 o'clock, 150mm dia	00:01:00	2	
35.30	JN	Junction at 2 o'clock, 150mm dia	00:01:41	3	
49.50	MHF	Finish node, manhole, reference: S 208	00:02:43	4	

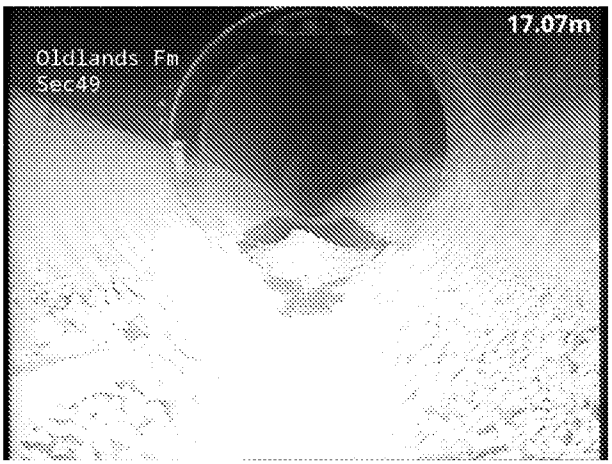
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	**STR Peak**	**STR Mean**	**STR Total**	**STR Grade**	**SER No. Def**	**SER Peak**	**SER Mean**	**SER Total**	**SER Grade**
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 05/10/2023 - S 208X

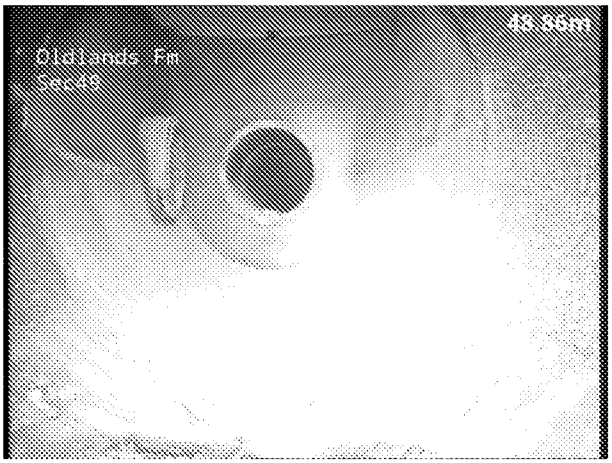
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
49	Upstream	S 208X		

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



2, 00:01:00, 18.00 m
Junction at 12 o'clock, 150mm dia

3, 00:01:41, 35.30 m
Junction at 2 o'clock, 150mm dia



4, 00:02:43, 49.50 m
Finish node, manhole, reference: S 208

Section Inspection - 05/10/2023 - S 209X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
50	1	05/10/23	18:15	Not Specified	No Rain Or Snow	Yes	S 209X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	S 209
Road:	Oldlands Farm	**Inspected Length:**	17.40 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	17.40 m	**Downstream Node:**	S 212
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	525 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:151

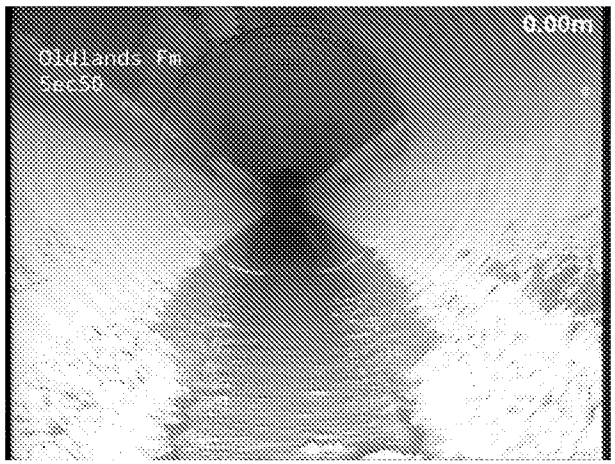
Position [m]	Code	Observation	MPEG	Photo	Grade
		Depth: m			
		S 209			
0.00	MH	Start node, manhole, reference: S 209	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:03	1	
17.40	MHF	Finish node, manhole, reference: S 212	00:00:53	2	
		S 212			
		Depth: m			

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

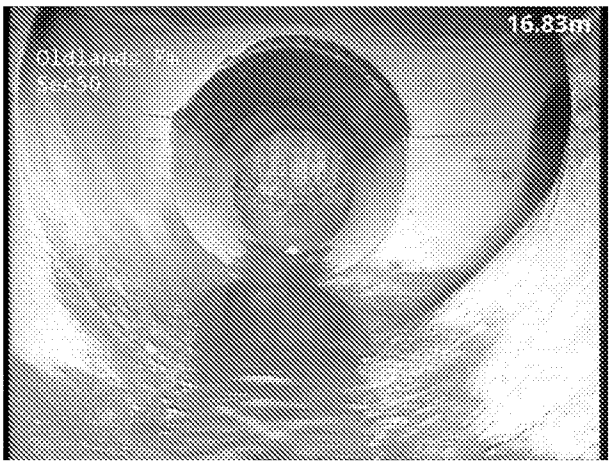
ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 05/10/2023 - S 209X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
50	Downstream	S 209X		



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



2, 00:00:53, 17.40 m
Finish node, manhole, reference: S 212

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 05/10/2023 - S 211X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
51	1	05/10/23	18:21	Not Specified	No Rain Or Snow	Yes	S 211X

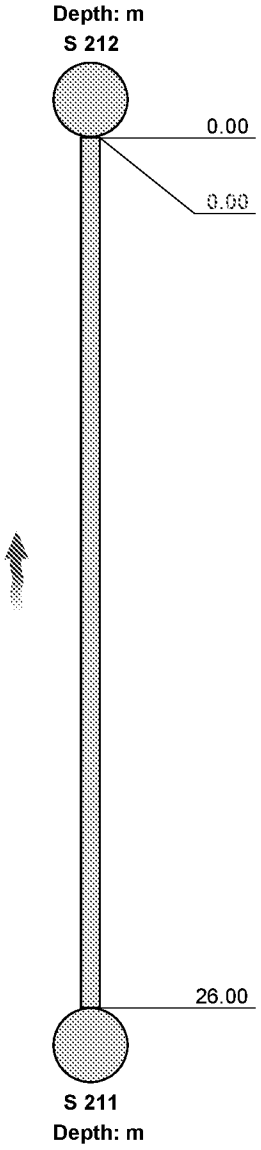
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Upstream	**Upstream Node:**	S 211
Road:	Oldlands Farm	**Inspected Length:**	26.00 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	26.00 m	**Downstream Node:**	S 212
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	450 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:226



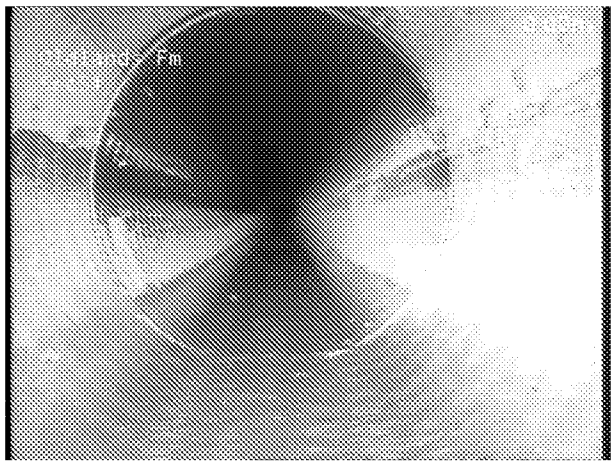
Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: S 212	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:02	1	
26.00	MHF	Finish node, manhole, reference: S 211	00:01:07	2	

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

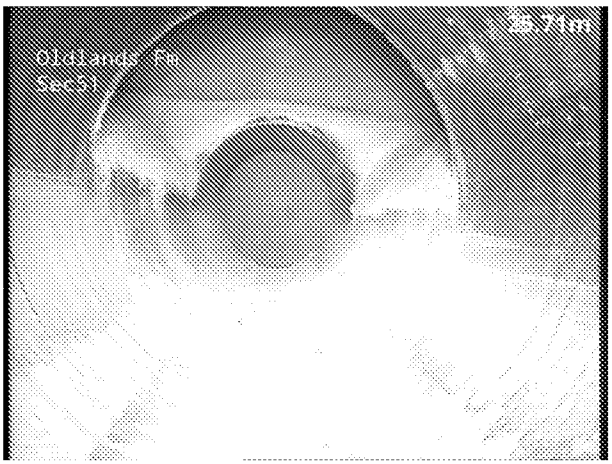
ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 05/10/2023 - S 211X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
51	Upstream	S 211X		



1, 00:00:02, 0.00 m
Water level, 0% of the vertical dimension



2, 00:01:07, 26.00 m
Finish node, manhole, reference: S 211

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 05/10/2023 - GY8X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
52	1	05/10/23	14:32	Not Specified	No Rain Or Snow	Yes	GY8X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	GY8
Road:	Oldlands Farm	**Inspected Length:**	11.60 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	11.60 m	**Downstream Node:**	JN
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

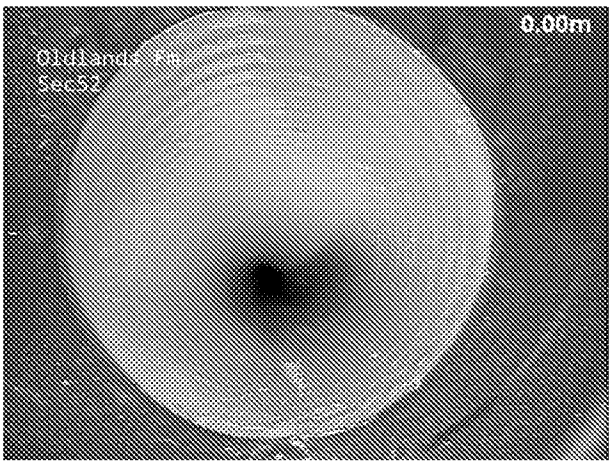
Scale: 1:101	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m GY8						
	0.00	GY	Start node, gully, reference: GY8	00:00:00		
	0.00	WL	Water level, 0% of the vertical dimension	00:00:04	1	
	11.60	BRF	Finish node, major connection without manhole, reference: JN	00:00:36	2	
JN Depth: m						

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

ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 05/10/2023 - GY8X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
52	Downstream	GY8X		



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

2, 00:00:36, 11.60 m
Finish node, major connection without manhole, reference: JN

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham
[redacted]

Section Inspection - 05/10/2023 - GY9X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
53	1	05/10/23	14:36	Not Specified	No Rain Or Snow	Yes	GY9X

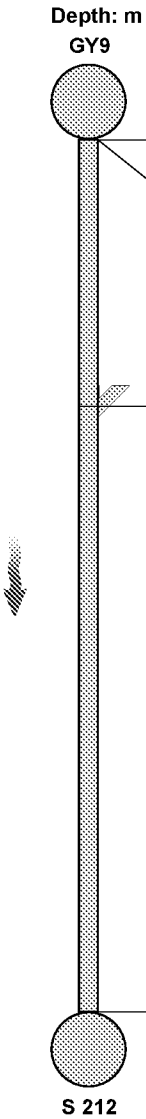
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	GY9
Road:	Oldlands Farm	**Inspected Length:**	20.30 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	20.30 m	**Downstream Node:**	S 212
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:176



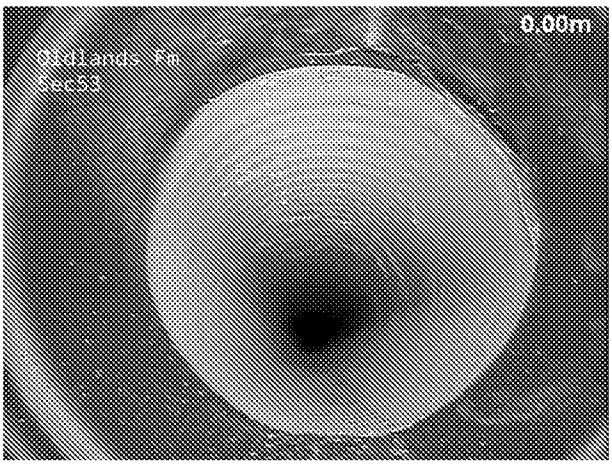
Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	GY	Start node, gully, reference: GY9	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:04	1	
6.20	JN	Junction at 9 o'clock, 150mm dia	00:00:21	2	
20.30	MHF	Finish node, manhole, reference: S 212	00:00:46	3	

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

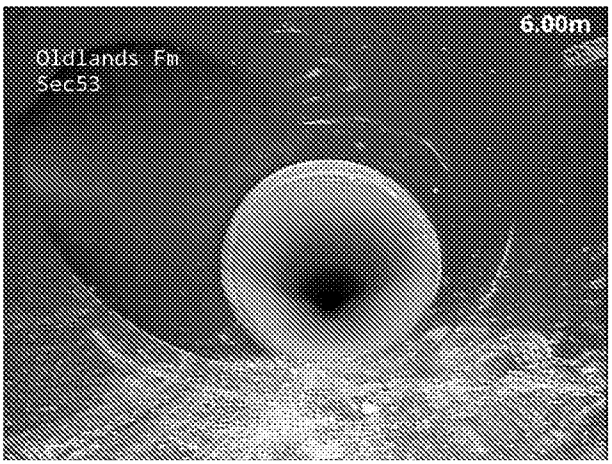
ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 05/10/2023 - GY9X

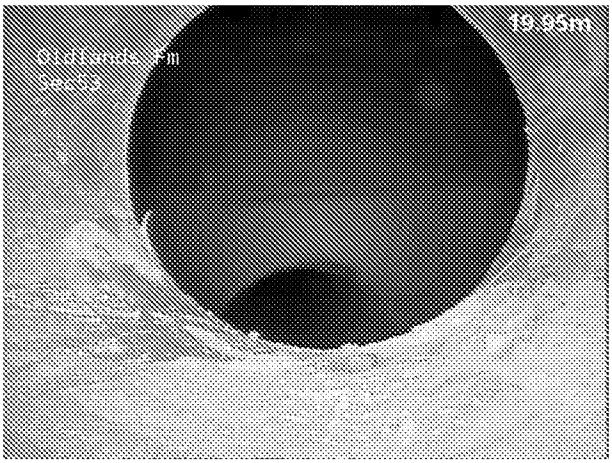
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
53	Downstream	GY9X		



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



2, 00:00:21, 6.20 m
Junction at 9 o'clock, 150mm dia



3, 00:00:46, 20.30 m
Finish node, manhole, reference: S 212

ARUN DISTRICT COUNCIL AL/87/21/PL

EYES ON DRAINAGE

Eyes On Drainage Services Ltd
Bines Green, Horsham

[redacted]

Section Inspection - 05/10/2023 - S 201X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
54	1	05/10/23	19:21	Not Specified	No Rain Or Snow	Yes	S 201X

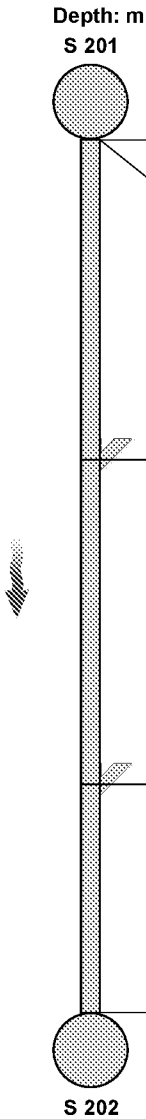
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	S 201
Road:	Oldlands Farm	**Inspected Length:**	58.90 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	58.90 m	**Downstream Node:**	S 202
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	450 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:510



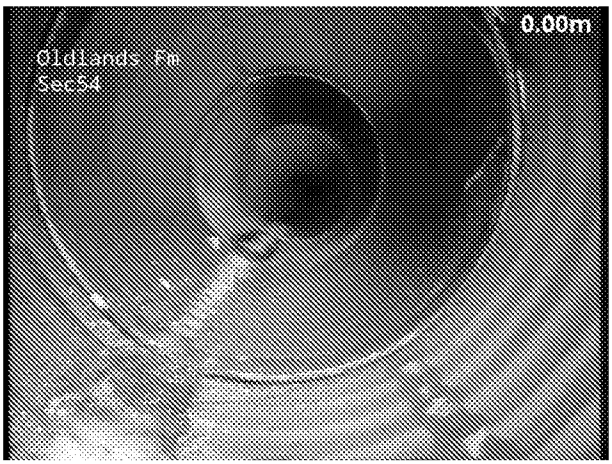
Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: S 201	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:02	1	
21.60	JN	Junction at 9 o'clock, 150mm dia	00:01:05	2	
43.50	JN	Junction at 9 o'clock, 150mm dia	00:02:10	3	
58.90	MHF	Finish node, manhole, reference: S 202	00:03:09	4	

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

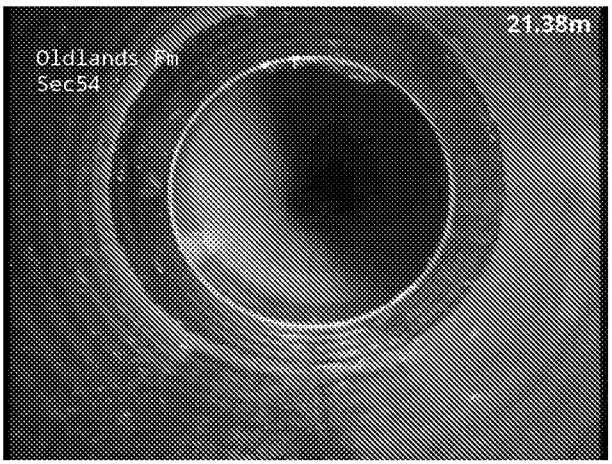
ARUN DISTRICT COUNCIL AL/87/21/PL

Section Pictures - 05/10/2023 - S 201X

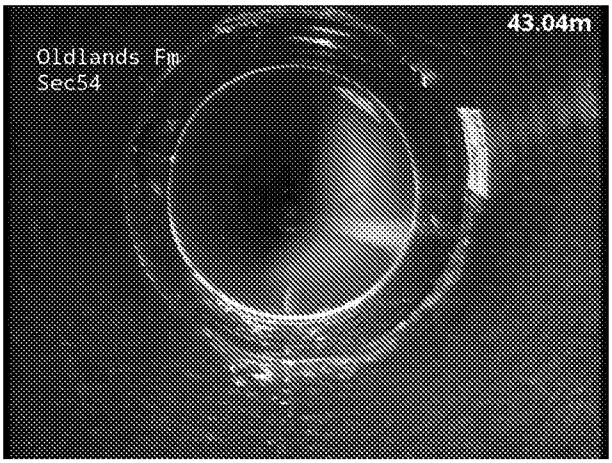
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
54	Downstream	S 201X		



1, 00:00:02, 0.00 m
Water level, 0% of the vertical dimension



2, 00:01:05, 21.60 m
Junction at 9 o'clock, 150mm dia



3, 00:02:10, 43.50 m
Junction at 9 o'clock, 150mm dia

4, 00:03:09, 58.90 m
Finish node, manhole, reference: S 202

Section Inspection - 05/10/2023 - F 02X

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
55	1	05/10/23	15:34	Not Specified	No Rain Or Snow	Yes	F 02X

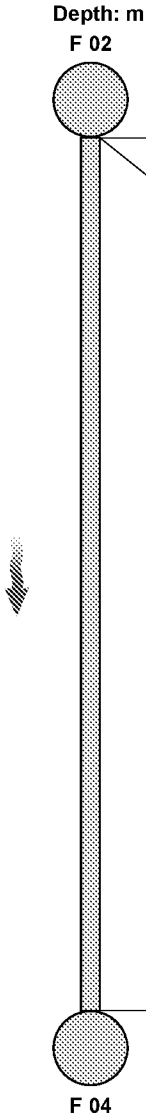
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
LW	HT71 WVX	Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Bognor Regis	**Inspection Direction:**	Downstream	**Upstream Node:**	F 02
Road:	Oldlands Farm	**Inspected Length:**	58.20 m	**Upstream Pipe Depth:**	
Location:	Property or buildings	**Total Length:**	58.20 m	**Downstream Node:**	F 04
Surface Type:	Various	**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:	Gravity drain/sewer	**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Sample condition survey	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:504



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	MH	Start node, manhole, reference: F 02	00:00:00		
0.00	WL	Water level, 0% of the vertical dimension	00:00:00	1	
58.20	MHF	Finish node, manhole, reference: F 04	00:02:14	2	

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

Section Pictures - 05/10/2023 - F 02X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
55	Downstream	F 02X		

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

2, 00:02:14, 58.20 m
Finish node, manhole, reference: F 04

Disclaimer

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