CONSULTING CIVIL AND STRUCTURAL ENGINEERS

WORTHING HIGH SCHOOL, WEST SUSSEX

SUSTAINABLE DRAINAGE STRATEGY

JULY 2026

Ref: 14943/08/HOP/RPT/01

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ISO 14001 Environmental Management CERTIFIED EMS 702968
CNF 799246
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Client : Worthing High School
South Farm Road
West Sussex
BN14 7AR

Prepared by	Checked by	Approved by	Status	Revision
Izzy Al-Shimmeri	**Andrew Keen**	**Andrew Keen**	**S1**	**P01 31.07.2026**

1.0 INTRODUCTION

1.1 HOP Consulting Ltd (HOP) has been instructed by Worthing High School to undertake a Sustainable Drainage (SuDS) Strategy report for the modular classrooms on the site of Worthing High School, South Farm Road, Worthing, West Sussex BN14 7AR.

1.2 The development proposals are to build two 2-storey modular classrooms connected by a central access ramp, located within the current hard play area at the school.

1.3 The site is located within the West Sussex County Council (WSCC) area, which acts as the Lead Local Flood Authority (LLFA). The LLFA have been consulted at the pre-application stage for general guidance for the SuDS approach at the site in line with the National Standards for SuDS (NSfS).

1.4 This report also uses guidance from the National Planning Policy Framework (NPPF) and associated Planning Practice Guidance (PPG) for Development and Flood Risk; the CIRIA SuDS Manual (CIRIA 753); data from the Environment Agency (EA) flood maps; and information provided within the local authority's Strategic Flood Risk Assessment (SFRA).

1.5 Site investigation work has been undertaken at the site including a topographic and utilities survey and a CCTV drainage survey. Southern water sewer records have also been provided.

1.6 Details of the development have been provided by Philips Surveyors LLP and its agents to indicate the extent of the proposals. Reference should be made to the additional details submitted by others for a comprehensive overview of the scheme. This report focuses on the sustainable management of surface water at the site and its content and conclusions reflect the scale of the development.

1.7 Information in this report has been received from a number of external parties and HOP does not accept liability for the accuracy of this information. Should there be material change in the development proposals, this report will need to be revised accordingly.

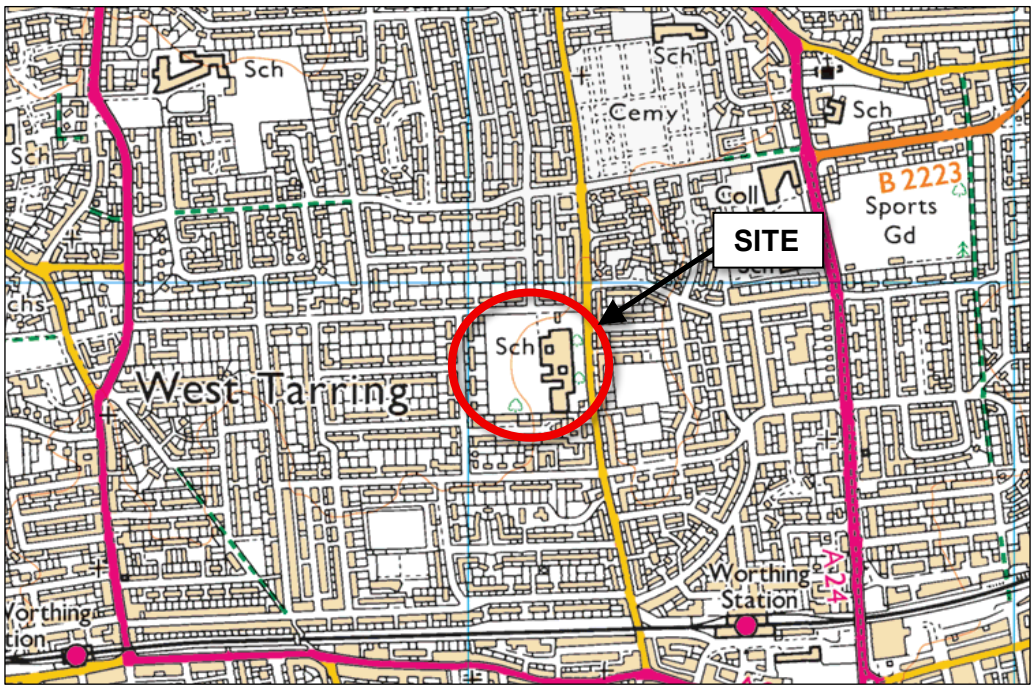


Figure 1.1 Location map

2.0 SITE SETTING AND LOCATION

2.1 As can be seen in the location map in Figure 1.1, Worthing High School is approximately 1.6km north-west of the main shopping centre, 590m northwest of Worthing station and approximately 1km north-east of West Worthing station. The school is set in extensive grounds and one large playing field and is bounded on all sides by predominantly residential properties which characterise this part of the town.

2.2 Vehicular and pedestrian access is gained off South Farm Road which runs adjacent the eastern boundary of the school.

2.3 The school falls slightly from northwest to southeast. The proposed modular classrooms are located within the existing hard play area with buildings to the southern and western sides. Topographic survey data for this area indicates that the ground level ranges from approximately 10.00m Above Ordnance Datum (AOD) to approximately 9.40m AOD.

2.4 An aerial image of the location where the replacement classroom is proposed is shown in Figure 2.1 for context, with a photograph of the existing area shown in Figure 2.2. Topographic and sub-surface survey information is included in Appendix A.

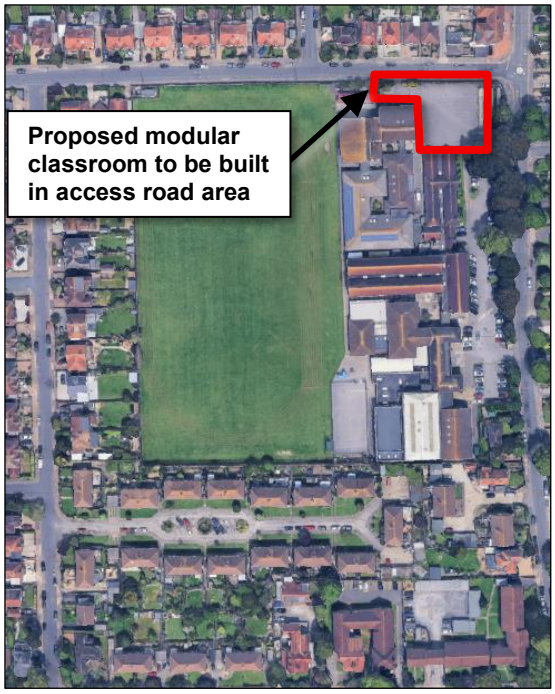


Figure 2.1 Aerial image of site

Figure 2.2 Photograph of proposed classroom location

2.5 Survey data indicates that the existing site area is served by separate below ground systems of foul and surface water drainage. The current area is impermeable hardstanding and surface water run-off is directed to gullies, from where it is conveyed to the wider surface water drainage network. Data from the CCTV drainage survey (Appendix B) indicates the routes of the below ground drainage and states that the surface water pipework is in poor condition, however, the connectivity is proven for an off-site connection to the public sewer.

2.6 As indicated by the British Geological Survey mapping website, the underlying bedrock geology of the site is of the London Clay formation, silt and sand, with superficial deposits of river terrace deposits (Undifferentiated) of sand, silt and clay recorded. Therefore, it is unlikely that infiltration SuDS methods can be successfully utilised for the management of surface water runoff at the site.

3.0 DEVELOPMENT PROPOSALS

3.1 The proposals are to construct two 2-storey modular classrooms connected by a central access ramp over the existing impermeable hard play area. Full plans have been submitted by Philips Surveyors LLP and should be referred to for a comprehensive overview of the development proposals. An extract of the site plan is shown in Figure 3.1, with further scheme drawings included in Appendix C.

3.2 As can be seen, the new classroom is detached from the surrounding school buildings. The existing site is currently impermeable hardstanding; therefore, the total impermeable area will remain the same on a like-for-like basis. However, SuDS Planters have been introduced to provide betterment by reducing the discharge of surface water runoff into the existing sewer system.

3.3 The existing area is currently an impermeable hard play area with an area of approximately 1,550m2. The proposed classrooms and ramp have an area of approximately 325m2. As the existing area is also impermeable, there is no change in the overall impermeable area on the site.

Figure 3.1 Extract of proposed site plan layout (Philips Surveyors)

4.0 SURFACE WATER DRAINAGE STRATEGY

Existing

4.1 The surface water run-off from the existing hardstanding discharges directly into gullies and is directed to the wider network discharging into a combined sewer south of the site. Existing runoff rates from the 325m^2 contributing catchment are considered impractical to model accurately using industry standard hydraulic modelling software and therefore existing runoff rates have been indicated for a range of storm intensities, as indicated in Table 4.1

Table 4.1 Existing runoff rates for range of storm intensities prior to mitigation

Rainfall intensity (mm/hour)	*10*	*30*	*50*	*75*	*100*
Runoff rate (litres/second)	**0.90**	**2.71**	**4.51**	**6.77**	**9.03**

4.2 No existing SuDS features (e.g. attenuation tanks or flow limiting devices) have been identified as serving the surface water drainage system at the school.

Proposed

4.3 The scale of the proposed new classrooms and central access ramp development, together with the like-for-like impermeable areas due to the scheme, has been considered in the SuDS approach to manage surface water runoff from the new modular buildings. The primary strategy is to install SuDS Planters below rainwater downpipes to intercept and slow runoff as a secondary measure before discharging to the existing piped drainage network. Additionally, channel drains will be installed to capture surface water runoff at ground level.

4.4 The surface water system will ultimately discharge to the public sewer via the piped network, which will be intercepted by the SuDS planters. There will be no increase in flows to the sewer due to the impermeable area remaining the same.

4.5 There are several examples of SuDS Planters available as proprietary products that would suit the Worthing High School application. For referencing purposes, the Meristem Design systems are considered to be a suitable option.

4.6 These systems operate by intercepting runoff directly from rainwater downpipes and directing the flow into the raised planter unit. The water then infiltrates through the soil and growing material, as well as into the storage medium located at the base of the unit, before discharging via an outlet to the downstream drainage network. Figure 4.1 provides an illustration of how the SuDS Planter system operates. Figure 4.2 shows an image of a SuDS Planter installation.

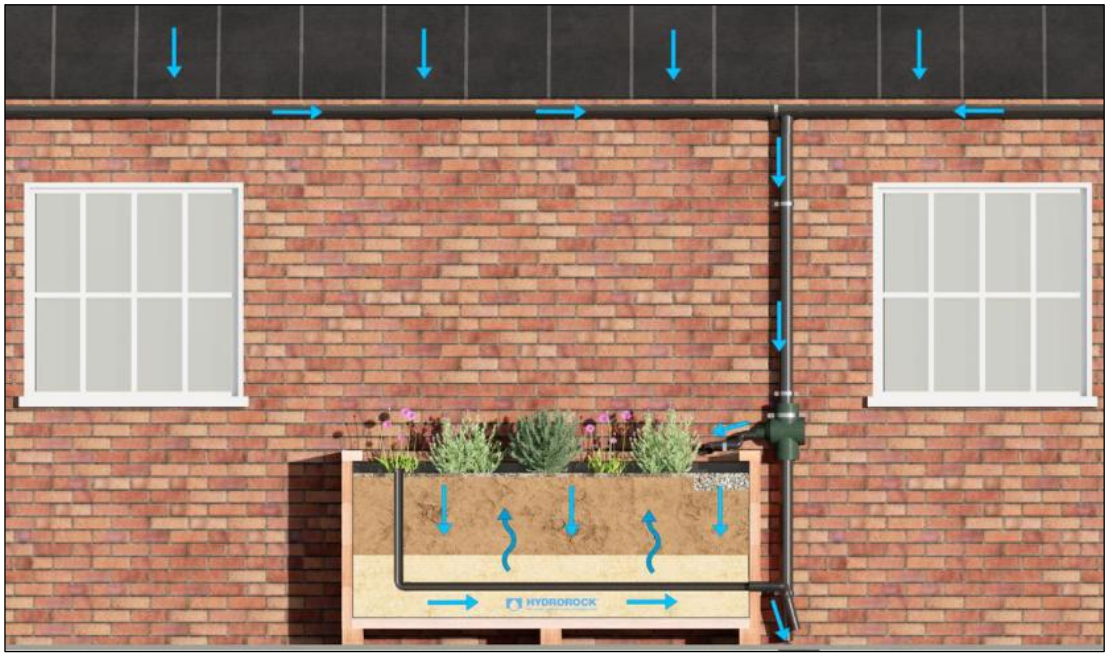


Figure 4.1 SuDS Planter diagrammatic section (Meristem Design 2026)

Figure 4.2 SuDS Planter installation (Meristem Design 2026)

4.7 The system is available in modular units of varying sizes, with the largest planter unit being able to provide 800 litres of rainwater storage. The arrangement of these planters adjacent the new modular classroom, along with the additional new drainage infrastructure required to serve the scheme, are shown in drainage layout drawings included in Appendix E.

4.8 This strategy has been developed from consideration of the site constraints and the suitability of available SuDS options. Pre-application discussions with the LLFA were favourable to the acceptance of such an approach, as it was acknowledged that there was to be no increase in the impermeable area of the site post-development.

4.9 With regard to the Standards as set out in the NSfS, the following sections provide a brief description of how these are addressed at the site.

Standard 1: runoff destinations

4.10 As demonstrated in Section 2.0, infiltration opportunities are restricted by the clayey ground conditions and cannot be practically pursued. The existing arrangement is for surface water to discharge to the below ground drainage network and this strategy is to be retained for the developed site for the runoff destination.

Standard 2: management of everyday rainfall (interception)

4.11 The introduction of SuDS Planters provides interception to the first 5mm of rainfall with flows prevented from entering the downstream piped network by diverting runoff into the soil and attenuation medium.

Standard 3: management of extreme rainfall and flooding

4.12 Flow rates to the downstream piped network are greatly reduced through the use of SuDS Planters, as these act as above ground attenuation features that capture and slow the flow prior to discharge to the existing system.

4.13 With attenuation storage potential of 800 litres available to be accommodated in one unit, it can be seen that this provides significant betterment over the existing drainage arrangement where runoff from the impermeable surfacing at the site is discharged directly into the below ground system with no SuDS features present.

4.14 The Meristem Design SuDS Planters can be designed to bespoke sizes with flow restricting orifice plates on the outlet pipes. This means that the rate of flow from the roof runoff can be slowed down and limited for a specific range of storm events resulting in a reduction of the hydraulic load on the downstream piped drainage network.

4.15 Detailed hydraulic calculations are outside the scope of this strategy report, however, it is considered that a 30% reduction of runoff rates could be achieved for up to a storm intensity of 50mm/hour, with more intense storms subject to a 10% reduction up to the 1 in 100-year event. Table 4.2 indicates the reduced runoff rate that could potentially be introduced through SuDS Planter mitigation.

Table 4.2 Reduced runoff rates for range of storm intensities after SuDS Planter mitigation

Rainfall intensity (mm/hour)	*10*	*30*	*50*	*75*	*100*
Runoff rate (litres/second)	**0.60**	**1.81**	**3.01**	**6.09**	**8.13**
Reduction from existing (litres/second)	***-0.3***	***-0.90***	***-1.50***	***-0.68***	***-0.90***

4.16 This is considered to be a betterment over the existing situation and also over the general assumption that replacing like-for-like impermeable catchment areas with new development does not have an adverse effect on the overall drainage arrangement. It can be seen that the introduction of SuDS Planters will have a beneficial impact on the school site and downstream public sewer network in terms of drainage capacity, despite the small-scale nature of the works.

Standard 4: water quality

4.17 Runoff from small, non-industrial roofs and pedestrian hardstanding areas is considered in the SuDS Manual to be at low risk of containing potential contaminants and minimal intervention is needed to improve the quality of discharge to downstream receptors. As with Standard 3, the introduction of SuDS Planters provides the opportunity to significantly improve the runoff treatment through filtration to a better standard than via a direct connection to the below ground drainage.

Standard 5: amenity

4.18 As shown in the photograph in Figure 2.2, the development of the existing courtyard area presents an opportunity to add educational and recreational value to the external spaces. The SuDS Planters are particularly suited to a school environment, with many products available featuring interactive elements and information boards that explain the benefits of SuDS and the importance of rainwater as a resource. These add to the amenity of the courtyard space and the new teaching accommodation.

Standard 6: biodiversity

4.19 It can also be seen how biodiversity is enhanced through the additional planting and habitat created from the proposed SuDS features.

Standard 7: design of drainage for construction, operation, maintenance, decommissioning and structural integrity

4.20 Proprietary planter units are installed and maintained to the manufacturer's guidance, which will be made available to the school facilities management team. The anticipated routine inspections will focus on the unobstructed conveyance of runoff through the system with the removal of any blockages, siltation, litter and other debris conducted monthly and after periods of heavy rainfall.

4.21 The plants and growing medium should be inspected as required to ensure plant health. This is envisaged to be incorporated into the existing landscape management schedule and maintenance programme, with the school responsible for the maintenance and management of the SuDS features for their operational lifetime.

4.22 With the planters being stand-alone above ground features, it is considered that the installation and decommissioning of these units can be achieved independently of the wider construction requirements of the classroom building.

5.0 FLOOD RISK

5.1 A Flood Risk Assessment is not required for the development as the scale of the project is less than one hectare and is located wholly within Flood Zone 1, as indicated by the EA online flood maps for planning. Additional sources of flood risk have been reviewed and the risk of flooding from all sources, including surface water flood risk, is considered to be low.

6.0 CONCLUSIONS

6.1 This Sustainable Drainage Strategy has been prepared in support of the proposed modular classrooms and ramp development at Worthing High School, West Sussex. The proposals comprise two 2-storey modular classrooms with a central access ramp over an existing impermeable play area.

6.2 Topographic and drainage surveys have been undertaken to inform the drainage strategy. The investigation findings confirm that infiltration opportunities at the site are limited and therefore, infiltration-based SuDS techniques are not considered feasible for this development.

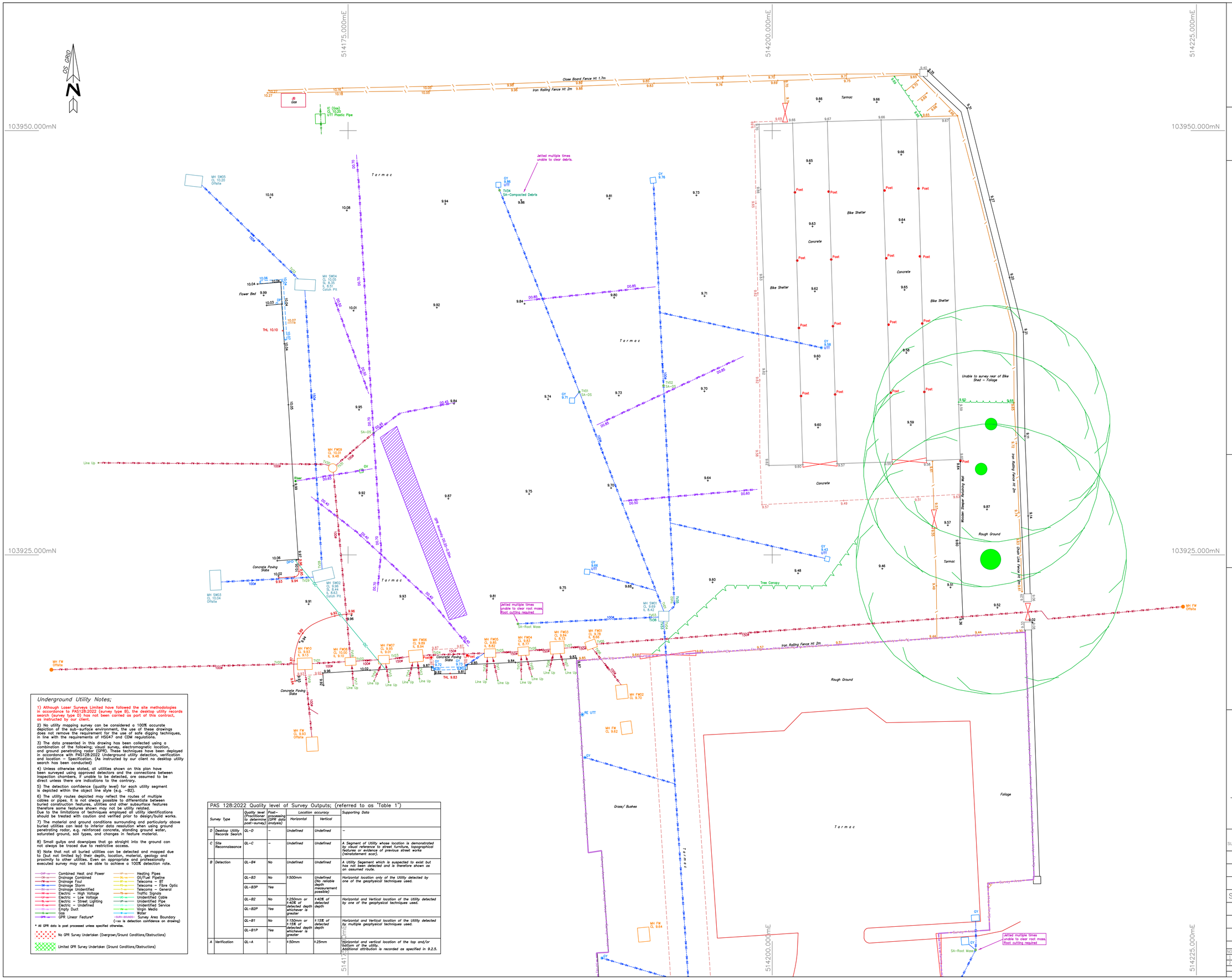
6.3 The proposed development represents a like-for-like replacement of existing impermeable areas. Surface water runoff from the proposed classroom roof will continue to discharge to the existing drainage network. However, the proposed strategy introduces SuDS Planters to provide interception, attenuation and treatment of runoff prior to discharge.

6.4 SuDS measures proposed for the scheme are considered appropriate and proportionate to the scale and nature of the development and provide an overall betterment compared with the existing drainage arrangement.

6.5 The strategy aims to reduce and slow runoff entering the downstream drainage network through interception and attenuation. The planters are considered to improve surface water runoff and contribute to enhancing biodiversity, amenity and educational benefits within the school environment.

6.6 The SuDS strategy detailed within this report is considered to be compliant with the principles of the NSfS, the NPPF and CIRIA SuDS guidance. The site is located wholly within Flood Zone 1 and is considered to be at low risk of flooding from rivers and the sea, surface water or other sources. The development is therefore considered acceptable in flood risk and drainage terms and this report is considered to be suitable to support the proposed modular classrooms development at Worthing High School.

APPENDIX A – TOPOGRAPHIC & SUB-SURFACE SURVEY



Underground Utility Notes;

1) Although Laser Surveys Limited have followed the site methodologies in accordance to PAS128:2022 (survey type B), the desktop utility records search (survey type D) has not been carried as part of this contract, as instructed by our client.

2) No utility mapping survey can be considered a 100% accurate depiction of the sub-surface environment, the use of these drawings does not remove the requirement for the use of safe digging techniques, in line with the requirements of HSG47 and CDM regulations.

3) The data presented in this drawing has been collected using a combination of the following; visual survey, electromagnetic location, and ground penetrating radar (GPR). These techniques have been deployed in accordance with PAS128:2022 Underground utility detection, verification and location – Specification. (As instructed by our client no desktop utility search has been conducted)

4) Unless otherwise stated, all utilities shown on this plan have been surveyed using approved detectors and the connections between inspection chambers, if unable to be detected, are assumed to be direct unless there are indications to the contrary.

5) The detection confidence (quality level) for each utility segment is depicted within the object line style (e.g. –B2).

6) The utility routes depicted may reflect the routes of multiple cables or pipes. It is not always possible to differentiate between buried construction features, utilities and other subsurface features therefore some features shown may not be utility related. Due to the limitations of techniques employed all utility identifications should be treated with caution and verified prior to design/build works.

7) The material and ground conditions surrounding and particularly above buried utilities can lead to inferior data resolution when using ground penetrating radar, e.g. reinforced concrete, standing ground water, saturated ground, soil types, and changes in feature material.

8) Small gullys and downpipes that go straight into the ground can not always be traced due to restrictive access.

9) Note that not all buried utilities can be detected and mapped due to (but not limited by) their depth, location, material, geology and proximity to other utilities. Even an appropriate and professionally executed survey may not be able to achieve a 100% detection rate.

CHP	Combined Heat and Power	HP	Heating Pipes
CD	Drainage Combined	OL	Oil/Fuel Pipeline
FW	Drainage Foul	BT	Telecoms – BT
SW	Drainage Storm	FO	Telecoms – Fibre Optic
DU	Drainage Unidentified	T	Telecoms – General
HV	Electric – High Voltage	TS	Traffic Signals
LV	Electric – Low Voltage	UC	Unidentified Cable
SL	Electric – Street Lighting	UP	Unidentified Pipe
E	Electric – Undefined	US	Unidentified Service
ED	Empty Duct	VM	Virgin Media
G	Gas	W	Water
GPR	GPR Linear Feature*	SAB	Survey Area Boundary

(–xx is detection confidence on drawing)

* All GPR data is post processed unless specified otherwise.

No GPR Survey Undertaken (Overgrown/Ground Conditions/Obstructions)

Limited GPR Survey Undertaken (Ground Conditions/Obstructions)

PAS 128:2022 Quality level of Survey Outputs; (referred to as 'Table 1')

Survey Type		Quality level (Practitioner to determine post-survey)	Post-processing (GPR data analysis)	Location accuracy		Supporting Data
				Horizontal	Vertical	
D	Desktop Utility Records Search	QL–D	–	Undefined	Undefined	–
C	Site Reconnaissance	QL–C	–	Undefined	Undefined	A Segment of Utility whose location is demonstrated by visual reference to street furniture, topographical features or evidence of previous street works (reinstatement scar).
B	Detection	QL–B4	No	Undefined	Undefined	A Utility Segement which is suspected to exist but has not been detected and is therefore shown as an assumed route.
		QL–B3	No	±500mm	Undefined (No reliable depth measurement possible)	Horizontal location only of the Utility detected by one of the geophysical techniques used.
		QL–B3P	Yes			
		QL–B2	No	±250mm or ±40% of detected depth whichever is greater	±40% of detected depth	Horizontal and Vertical location of the Utility detected by one of the geophysical techniques used.
		QL–B2P	Yes			
		QL–B1	No	±150mm or ±15% of detected depth whichever is greater	±15% of detected depth	Horizontal and Vertical location of the Utility detected by multiple geophysical techniques used.
		QL–B1P	Yes			
A	Verification	QL–A	–	±50mm	±25mm	Horizontal and vertical location of the top and/or bottom of the utility. Additional attribution is recorded as specified in 9.2.5.

LASER SURVEYS.

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DATUM NOTES

CO-ORDINATES USED ARE BASED ON ORDNANCE SURVEY NATIONAL GRID, OBTAINED USING THE ACTIVE GPS NETWORK AND ADJUSTED TO A LOCAL GRID WITH A SCALE FACTOR OF 1.0000.

LEVELS ARE RELATED TO :- ORDNANCE SURVEY ACTIVE GPS NETWORK.

ABBREVIATIONS (where applicable)

(A)	Assumed/Approx.	I/R	Iron Railings	S/C	Surcharged
A/C	Assumed Connection	JB	Junction Box	SD	Silt Depth
A/R	Assumed Route	JN	Junction	SK	Soakaway
A	Arch Height	KO	Kerb Outlet	SL	Silt Level
AC	Air-Con Unit	LB	Litter Bin	SP	Spring Height
AG	Above Ground	LP	Lamp Post	SPT	Septic Tank
AV	Air Valve Cover	LU	Line Up	ST	Silt Trap
B	Beam Ht	MC	Material Change	SV	Stop Valve Cover
BIL	Backdrop Invert Level	MG	Multi Girth Tree	SVC	Security Video Camera
BK	Brick	MH	Manhole Cover	SW	Storm Water
BL	Bollard	MK	Marker	TCB	Telephone Call Box
BS	Bus Stop	NDP	No Depths Possible	THL	Threshold Level
BSU	Beam Slopes Up	NPV	No Pipes Visible	TL	Traffic Light
BT	British Telecom Cover	NOPV	No Other Pipes Visible	TK	Tank
C	Ceiling Height	NVV	No Valve Visible	TP	Telegraph Pole
C/B	Close Boarded	OH	Overhead	TVxx	Item Number in CCTV Report
C/F	Coverfast	-C-	Overhead Cables	UG	Underground
CL	Cover Level	-E-	Overhead Electric	UTC-	Unable to Camera-
CLK	Chainlink	-T-	Overhead Telecoms	-A	-No Access
CN	Connection	PAV	Paving	-D	-Debris
CO	Column	PB	Post Box	-CRP	-Crop Pipe
Conc	Concrete	PD	Pit Depth	-F	-Flow/Water Level
CP	Catch Pit	PE	Pipe	-RM	-Root Mass
CPS	Concrete Paving Slabs	PL	Pit Level	-RT	-Roots
CSU	Ceiling Slopes Up	PM	Parking Meter	-S/C	-Surcharged
CATV	Cable Television Cover	PP	Pump Pit	UTF	Unable to Trace Further
CTV	Cable Television Cover	P/R	Post and Rail	UTL	Unable to Locate
CW	Combined Water	PSC	Pipe Size Change	UTR	Unable to Raise
DC	Drainage Channel	PT	Post	UTT	Unable to Trace
D	Depth of Utility	P/W	Post and Wire	VP	Vent Pipe
D	Door Ht (Building)	RE	Rodding Eye	WL	Water Level
DP	Drain Pipe	RET	Retaining	WM	Water Meter Cover
EP	Electricity Pole	RS	Road Sign	WO	Wash Out Cover
ER	Earthing Rod	RSI	Road Sign Illuminated	WPR	Wooden Post & Rail
FC	False Ceiling Ht	RSJ	Rolled Steel Joist		
FB	Flower Bed	S	Sill Height		
FE	Fence	SA-	Survey Abandoned-		
FH	Fire Hydrant Cover	-BE	-Stuck at Bend		
FL	Floor Level	-CXI	-Intruding Connection		
FP	Flag Pole	-DA	-Debris Attached		
FW	Foul Water	-DS	-Debris Settled		
GP	Gate Post	-JD	-Joint Displaced		
GV	Gas Valve Cover	-LT	-Loss of Traction		
GY/G	Gully	-OB	-Obstruction		
H	Head Height	-OL	-Operating Limit		
HIL	High Level Invert	-RT	-Roots		
HT	Height	-SDP	-Small Diameter Pipe		
IC	Inspection Cover	-ST	-Camera Stuck		
IL	Invert Level	-UW	-Under Water		
INJNT	Interceptor	SC	Pipe Size Change		

NOTES

- Drainage pipe sizes (where shown) have been gauged from the surface for safety reasons and should be regarded as approximate only.
- Drainage pipe sizes are 100Ø unless stated otherwise along the length.
- Tree species (where shown) should be treated with caution and expert identification is advised.
- Although this is a digital survey the accuracy and amount of detail shown is only commensurate with the graphical scale of mapping as specified. Care should be exercised when working to larger scales.
- Visible features in the vicinity of the boundaries as shown above, may not represent the extent of legally conveyed ownership.
- Whilst every effort has been made to achieve accuracy on this plan, CRUCIAL clearance dimensions, levels and invert levels should be checked prior to design and construction.
- Kerb levels have been taken in the bottom of the channel.

SHEET LAYOUT
(NOT TO SCALE)

1
2

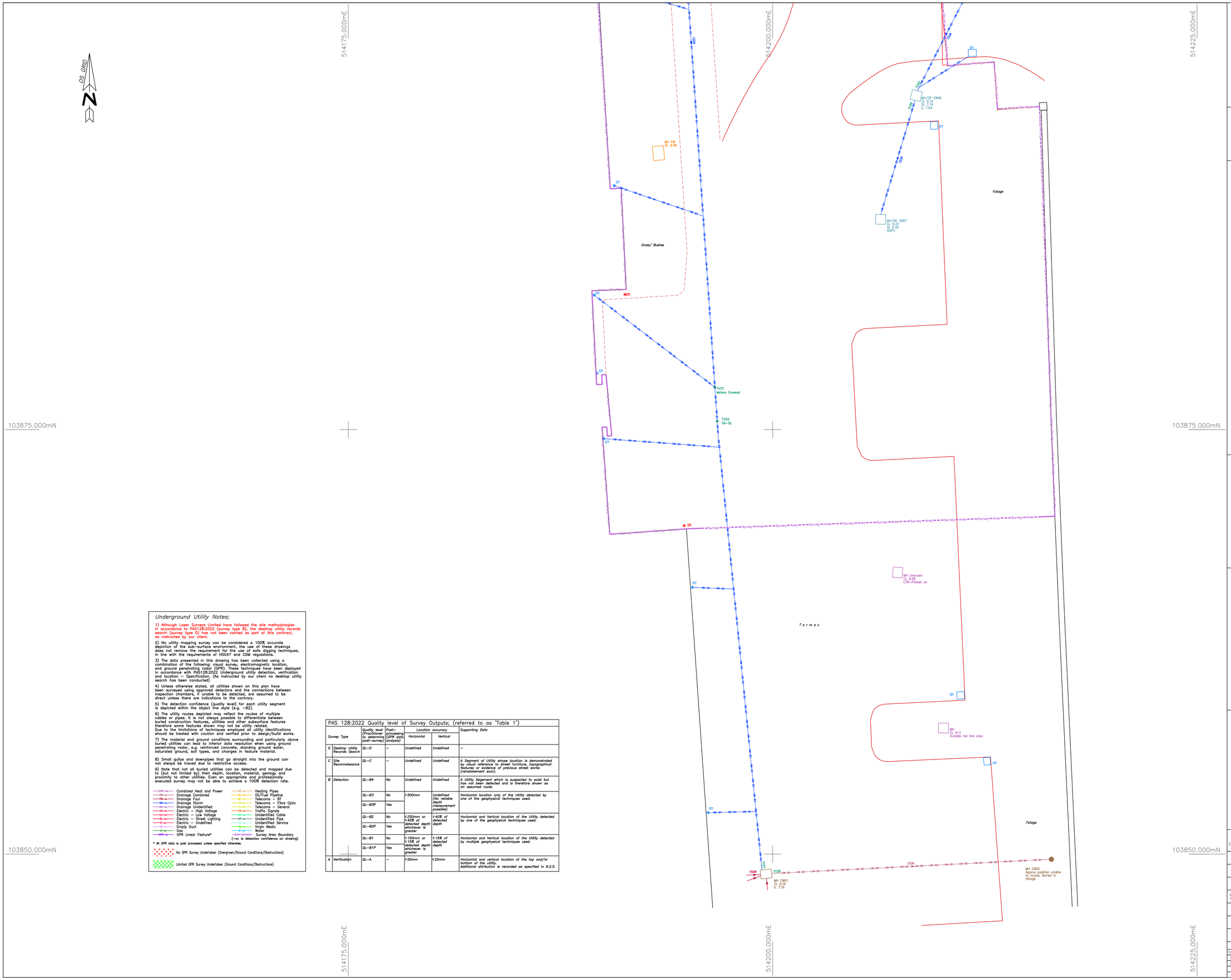
WORTHING HIGH SCHOOL, BN14 7AR

TOPOGRAPHICAL & UTILITY DETECTION SURVEY

CLIENT:	PHILLIPS SURVEYORS	DRAWN BY:	A.R / L.S
SURVEY DATE:	MARCH 2026	CHECKED BY:	C.W
SHEET NUMBER	N 3091/1	Revision 2	
DRAWING TITLE	TOPO / UTILITES		
SCALE	1 : 100 (@A1)		
SEE ALSO DRAWING NOS.			
SHEET	1 of 2		
JOB NUMBER	N 3091		

REVISION INFORMATION

NO.	DATE	NOTES
1	25/3/26	Annotations amended (RM - Root Mass)
2	16/06/26	Jetwash previous silted drainage runs and extend survey southwards through car park (MR)



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- CHP Combined Heat and Power
- CW Drainage Combined
- FW Drainage Foul
- SW Drainage Storm
- DU Drainage Unidentified
- HV Electric – High Voltage
- LV Electric – Low Voltage
- SL Electric – Street Lighting
- E Electric – Undefined
- ED Empty Duct
- G Gas
- GPR GPR Linear Feature*
- HP Heating Pipes
- OIL Oil/Fuel Pipeline
- BT Telecoms – BT
- FO Telecoms – Fibre Optic
- T Telecoms – General
- TS Traffic Signals
- UC Unidentified Cable
- UP Unidentified Pipe
- US Unidentified Service
- VM Virgin Media
- W Water
- SURV BOUND Survey Area Boundary (+xx is detection confidence on drawing)

* All GPR data is post processed unless specified otherwise.

- No GPR Survey Undertaken (Overgrown/Ground Conditions/Obstructions)
- Limited GPR Survey Undertaken (Ground Conditions/Obstructions)

PAS 128:2022 Quality level of Survey Outputs; (referred to as 'Table 1')

Survey Type		Quality level (Practitioner to determine post-survey)	Post-processing (GPR data analysis)	Location accuracy		Supporting Data
				Horizontal	Vertical	
D	Desktop Utility Records Search	QL–D	–	Undefined	Undefined	–
C	Site Reconnaissance	QL–C	–	Undefined	Undefined	A Segment of Utility whose location is demonstrated by visual reference to street furniture, topographical features or evidence of previous street works (reinstatement scar).
B	Detection	QL–B4	No	Undefined	Undefined	A Utility Segement which is suspected to exist but has not been detected and is therefore shown as an assumed route.
		QL–B3	No	±500mm	Undefined (No reliable depth measurement possible)	Horizontal location only of the Utility detected by one of the geophysical techniques used.
		QL–B3P	Yes			
		QL–B2	No	±250mm or ±40% of detected depth whichever is greater	±40% of detected depth	Horizontal and Vertical location of the Utility detected by one of the geophysical techniques used.
		QL–B2P	Yes			
		QL–B1	No	±150mm or ±15% of detected depth whichever is greater	±15% of detected depth	Horizontal and Vertical location of the Utility detected by multiple geophysical techniques used.
		QL–B1P	Yes			
A	Verification	QL–A	–	±50mm	±25mm	Horizontal and vertical location of the top and/or bottom of the utility. Additional attribution is recorded as specified in 9.2.5.

LASER SURVEYS.

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Established 1975. Member of The Survey Association.

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DATUM NOTES

CO-ORDINATES USED ARE BASED ON ORDNANCE SURVEY NATIONAL GRID, OBTAINED USING THE ACTIVE GPS NETWORK AND ADJUSTED TO A LOCAL GRID WITH A SCALE FACTOR OF 1.0000.

LEVELS ARE RELATED TO :- ORDNANCE SURVEY ACTIVE GPS NETWORK.

ABBREVIATIONS (where applicable)

(A)	Assumed/Approx.	I/R	Iron Railings	S/C	Surcharged
A/C	Assumed Connection	JB	Junction Box	SD	Silt Depth
A/R	Assumed Route	JN	Junction	SK	Soakaway
A	Arch Height	KO	Kerb Outlet	SL	Silt Level
AC	Air-Con Unit	LB	Litter Bin	SP	Spring Height
AG	Above Ground	LP	Lamp Post	SPT	Septic Tank
AV	Air Valve Cover	LU	Line Up	ST	Silt Trap
B	Beam Ht	MC	Material Change	SV	Stop Valve Cover
BIL	Backdrop Invert Level	MG	Multi Girth Tree	SVC	Security Video Camera
BK	Brick	MH	Manhole Cover	SW	Storm Water
BL	Bollard	MK	Marker	TCB	Telephone Call Box
BS	Bus Stop	NDP	No Depths Possible	THL	Threshold Level
BSU	Beam Slopes Up	NPV	No Pipes Visible	TL	Traffic Light
BT	British Telecom Cover	NOPV	No Other Pipes Visible	TK	Tank
C	Ceiling Height	NVV	No Valve Visible	TP	Telegraph Pole
C/B	Close Boarded	OH	Overhead	TVxx	Item Number in CCTV Report
C/F	Coverfast	-C-	Overhead Cables	UG	Underground
CL	Cover Level	-E-	Overhead Electric	UTC-	Unable to Camera-
CLK	Chainlink	-T-	Overhead Telecoms	-A	-No Access
CN	Connection	PAV	Paving	-D	-Debris
CO	Column	PB	Post Box	-DRP	-Drop Pipe
Conc	Concrete	PD	Pit Depth	-F	-Flow/Water Level
CP	Catch Pit	PE	Pipe	-RM	-Root Mass
CPS	Concrete Paving Slabs	PL	Pit Level	-RT	-Roots
CSU	Ceiling Slopes Up	PM	Parking Meter	-S/C	-Surcharged
CATV	Cable Television Cover	PP	Pump Pit	UTF	Unable to Trace Further
CTV	Cable Television Cover	P/R	Post and Rail	UTL	Unable to Locate
CW	Combined Water	PSC	Pipe Size Change	UTR	Unable to Raise
DC	Drainage Channel	PT	Post	UTT	Unable to Trace
D	Depth of Utility	P/W	Post and Wire	VP	Vent Pipe
D	Door Ht (Building)	RE	Rodding Eye	WL	Water Level
DP	Drain Pipe	RET	Retaining	WM	Water Meter Cover
EP	Electricity Pole	RS	Road Sign	WO	Wash Out Cover
ER	Earthing Rod	RSI	Road Sign Illuminated	WPR	Wooden Post & Rail
FC	False Ceiling Ht	RSJ	Rolled Steel Joist		
FB	Flower Bed	S	Sill Height		
FE	Fence	SA-	Survey Abandoned-		
FH	Fire Hydrant Cover	-BE	-Stuck at Bend		
FL	Floor Level	-CXI	-Intruding Connection		
FP	Flag Pole	-DA	-Debris Attached		
FW	Foul Water	-DS	-Debris Settled		
GP	Gate Post	-JD	-Joint Displaced		
GV	Gas Valve Cover	-LT	-Loss of Traction		
GY,G	Gully	-OB	-Obstruction		
H	Head Height	-OL	-Operating Limit		
HIL	High Level Invert	-RT	-Roots		
HT	Height	-SDP	-Small Diameter Pipe		
IC	Inspection Cover	-ST	-Camera Stuck		
IL	Invert Level	-UW	-Under Water		
INJNT	Interceptor	SC	Pipe Size Change		

NOTES

- Drainage pipe sizes (where shown) have been gauged from the surface for safety reasons and should be regarded as approximate only.
- Drainage pipe sizes are 100Ø unless stated otherwise along the length.
- Tree species (where shown) should be treated with caution and expert identification is advised.
- Although this is a digital survey the accuracy and amount of detail shown is only commensurate with the graphical scale of mapping as specified. Care should be exercised when working to larger scales.
- Visible features in the vicinity of the boundaries as shown above, may not represent the extent of legally conveyed ownership.
- Whilst every effort has been made to achieve accuracy on this plan, CRUCIAL clearance dimensions, levels and invert levels should be checked prior to design and construction.
- Kerb levels have been taken in the bottom of the channel.

SHEET LAYOUT
(NOT TO SCALE)

1
2

WORTHING HIGH SCHOOL, BN14 7AR

TOPOGRAPHICAL & UTILITY DETECTION SURVEY

CLIENT:	PHILLIPS SURVEYORS	DRAWN BY:	A.R / L.S
SURVEY DATE:	MARCH 2026	CHECKED BY:	C.W
SHEET NUMBER	N 3091/2	Revision 2	
DRAWING TITLE	TOPO / DRAINAGE		
SCALE	1 : 100 (@A1)		
SEE ALSO DRAWING NOS.			
SHEET	2 of 2		
JOB NUMBER	N 3091		

REVISION INFORMATION

NO.	DATE	NOTES
1	25/3/26	Annotations amended (RM - Root Mass)
2	16/06/26	Jetwash previous silted drainage runs and extend survey southwards through car park (AR)

APPENDIX B – CCTV DRAINAGE SURVEY REPORT

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Project Information

Project Name	Project Number	Project Date
N3091-Worthing High School	N3091	20/03/2026

Client

Company: Phillips Surveyors
Contact: Will Court
Department: The Old Coach House
Street: 78 Lower Street
Town or City: Pulborough
Post Code: RH20 2AA
Phone: 07917224872
Email: will@phillips-surveyors.co.uk

Site

Department: Worthing High School
Street: S Farm Road
Town or City: Worthing
Post Code: BN14 7AR

Contractor

Company: Laser Surveys Limited
Department: Open Space
Street: Leigh Sinton Road
Town or City: Malvern
County: Worcestershire
Post Code: WR14 1UT
Phone: 01886 833 173
Email: worcester@lasersurveys.com

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Scoring Summary

Project Name	Project Number	Project Date
N3091-Worthing High School	N3091	20/03/2026

Structural Defects

Grade 3: Best practice suggests consideration should be given to repairs in the medium term.

Grade 4: Best practice suggests consideration should be given to repairs to avoid a potential collapse.

Grade 5: Best practice suggests that this pipe is at risk of collapse at any time. Urgent consideration should be given to repairs to avoid total failure.

Section	PLR	Grade	Description
4	SW01 XX	4	Broken pipe from 12 o'clock to 4 o'clock

Service / Operational Condition

Grade 3: Best practice suggests consideration should be given to maintenance activities in the medium term.

Grade 4: Best practice suggests consideration should be given to maintenance activity to avoid potential blockages.

Grade 5: Best practice suggests that this pipe is at a high risk of backing up or causing flooding.

Section	PLR	Grade	Description
3	UTFX	5	Roots, mass, 75% cross-sectional area loss
4	SW01 XX	3	Multiple defects
28	SW02 XX	3	Joint displaced, medium
29	SW03X	3	Joint displaced, medium
39	SW06 XX	3	Multiple defects
40	GullyX	5	Roots, mass, 35% cross-sectional area loss

Abandoned Surveys

Section	PLR	Description
1	UTFX	Survey abandoned
2	UTFX	Survey abandoned
3	UTFX	Survey abandoned
4	SW01 XX	Survey abandoned
31	UTFX	Survey abandoned
34	GullyX	Survey abandoned
40	GullyX	Survey abandoned

Information

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

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Defect Grade Description (Section)

Project Name	Project Number	Project Date
N3091-Worthing High School	N3091	20/03/2026

1:	Brick: No structural defects. Other: No structural defects. **Acceptable structural condition.**
2:	Brick: Circumferential cracking; single longitudinal crack; surface mortar loss (depth missing < 15mm); surface damage - slight spalling (breaking away of small fragments from the surface); surface damage - slight wear (increased roughness). Other: Circumferential crack; moderate joint defects (i.e. medium open joint or medium displaced joint); surface damage - slight spalling (breaking away of small fragments from the surface) or slight wear (increased roughness). **Minimal collapse likelihood in the short term but potential for further deterioration.**
3:	Brick: Medium mortar loss (depth missing 15-50mm) without other defects; more than one longitudinal crack (at a single location); multiple cracking; single bricks displaced; deformation < 5%; no fracture and only moderate mortar loss; surface damage - medium spalling (large areas of chipped brick); surface damage - medium wear (large area of brick surface is missing). Other: Fracture with no deformation or deformation < 5%; longitudinal cracking or multiple cracking; minor loss of level; severe joint defects (i.e. large open joint or large displaced joint); surface damage - partial area of pipe surface is missing or worn. **Collapse unlikely in the near future but further deterioration likely.**
4:	Brick: Total mortar loss (depth missing > 50mm) with deformation > 10%; deformation up to 10% and fractured; displaced or hanging brickwork; small number of missing bricks; dropped invert (drop > 20mm); moderate loss of level; surface damage - large spalling (entire surface of brick is missing); surface damage - large wear (entire surface of brick is missing). Other: Broken; deformation up to 10% and broken; fracture with deformation 5-10%; multiple fractures; serious loss of level; serious joint defects with voids or soil visible (open joint with > 50mm soil or void visible or joint displacement > 25% of diameter); surface damage - entire area of pipe surface is missing or severly worn. **Collapse likely in the foreseeable future.**
5:	Brick: Already collapsed; missing Invert; deformation > 10% and fractured; displaced or hanging brickwork and deformation < 10%; extensive areas of missing brickwork. Other: Already collapsed; deformation > 10% and broken; extensive areas of pipe fabric missing; fractures with deformation > 10% **Collapsed or collapse imminent.**

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
1	1	20/03/26	8:48	Not Specified	No Rain Or Snow	No	UTFX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

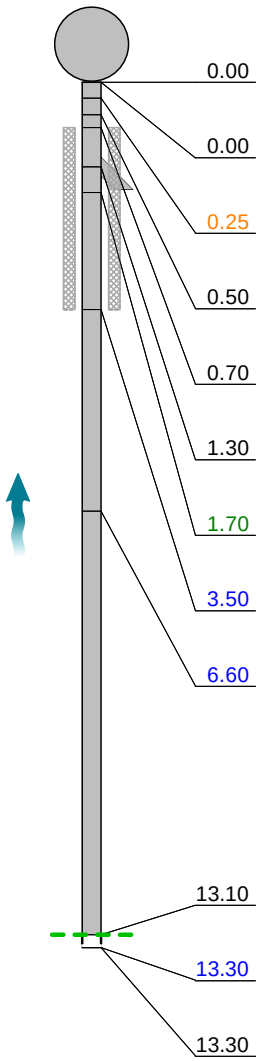
Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	UTF
Road:		**Inspected Length:**	13.30 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	13.30 m	**Downstream Node:**	SW01 A
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Start of N3091-Vid001 @ 00 00 00
Recommendations:

Scale: 1:116

Depth: m
SW01 A



Position [m]		Code	Observation	Photo	Grade
0.00		MH	Start node, manhole, reference: SW01 A		
0.00		WL	Water level, 5% of the vertical dimension		
0.25		JDL	Joint displaced, large		1 / 4
0.50		LL	Line deviates left		
0.70	S01	DES	Settled deposits, fine, 10% cross-sectional area loss, start		
1.30		JN	Junction at 9 o'clock, 100mm dia		
1.70		RF	Roots, fine		2
3.50	F01	DES	Settled deposits, fine, 10% cross-sectional area loss, finish		3
6.60		DES	Settled deposits, fine, 5% cross-sectional area loss		3
13.10		SA	Survey abandoned: Deposits Attached		
13.30		DEEJ	Attached deposits, encrustation at joint from 12 o'clock to 12 o'clock, 20% cross-sectional area loss	1	3
13.30			End of pipe		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	2.0	0.2	2.0	1.0	5	7.0	1.2	16.0	4.0

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Section Pictures

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
1	Upstream	UTFX		N3091

1, 00:01:03, 13.30 m
Attached deposits, encrustation at joint from 12 o'clock to 12 o'clock, 20% cross-sectional area loss

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
2	1	20/03/26	8:48	Not Specified	No Rain Or Snow	No	UTFX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

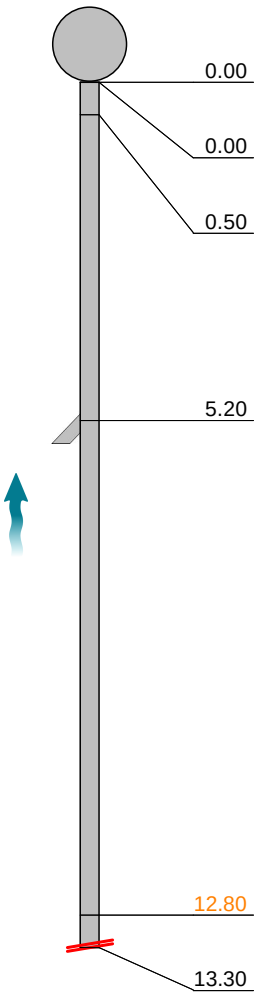
Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	UTF
Road:		**Inspected Length:**	13.30 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	13.30 m	**Downstream Node:**	SW01 B
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 02 00
Recommendations:

Scale: 1:116

Depth: m
SW01 B



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: SW01 B		
0.00	WL	Water level, 5% of the vertical dimension		
0.50	LL	Line deviates left		
5.20	JN	Junction at 3 o'clock, 100mm dia		
12.80	DES	Settled deposits, fine, 50% cross-sectional area loss	1, 2	4
13.30	SA	Survey abandoned: Camera stuck at silt		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	8.0	0.6	8.0	4.0

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Section Pictures

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
2	Upstream	UTFX		N3091

1, 00:00:55, 12.80 m
Settled deposits, fine, 50% cross-sectional area loss

2, 00:00:55, 12.80 m
Settled deposits, fine, 50% cross-sectional area loss

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
3	1	20/03/26	8:48	Not Specified	No Rain Or Snow	No	UTFX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

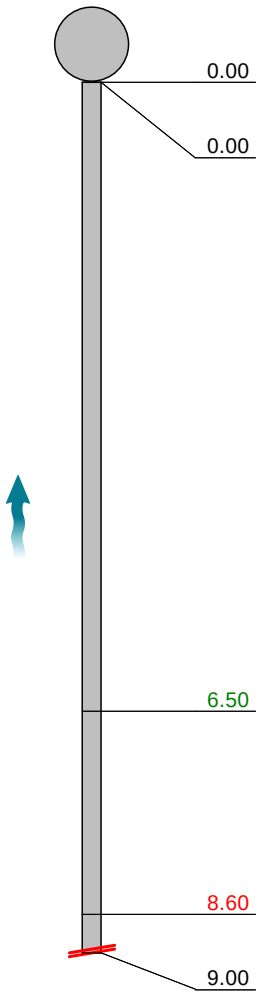
Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	UTF
Road:		**Inspected Length:**	9.00 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	9.00 m	**Downstream Node:**	SW01 C
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 03 07
Recommendations:

Scale: 1:78

Depth: m
SW01 C



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: SW01 C		
0.00	WL	Water level, 5% of the vertical dimension		
6.50	RFJ	Roots, fine at joint		2
8.60	RM	Roots, mass, 75% cross-sectional area loss	1, 2	5
9.00	SA	Survey abandoned: Root Mass		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	2	15.0	1.8	16.0	5.0

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Section Pictures

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
3	Upstream	UTFX		N3091

1, 00:00:32, 8.60 m
Roots, mass, 75% cross-sectional area loss

2, 00:00:32, 8.60 m
Roots, mass, 75% cross-sectional area loss

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
4	1	20/03/26	8:49	Not Specified	No Rain Or Snow	No	SW01 XX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

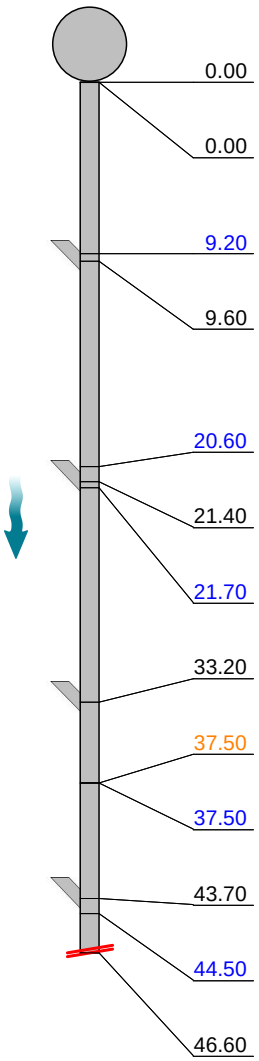
Town or Village:		**Inspection Direction:**	Downstream	**Upstream Node:**	SW01 X
Road:		**Inspected Length:**	46.60 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	46.60 m	**Downstream Node:**	OFFSITE
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 03 54
Recommendations:

Scale: 1:404

Depth: m
SW01 X



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: SW01 X		
0.00	WL	Water level, 5% of the vertical dimension		
9.20	DES	Settled deposits, fine, 5% cross-sectional area loss		3
9.60	JN	Junction at 3 o'clock, 100mm dia		
20.60	DES	Settled deposits, fine, 5% cross-sectional area loss		3
21.40	JN	Junction at 3 o'clock, 100mm dia		
21.70	DES	Settled deposits, fine, 5% cross-sectional area loss		3
33.20	JN	Junction at 3 o'clock, 100mm dia		
37.50	B	Broken pipe from 12 o'clock to 4 o'clock	1	4
37.50	DES	Settled deposits, fine, 10% cross-sectional area loss		3
43.70	JN	Junction at 3 o'clock, 100mm dia		
44.50	DES	Settled deposits, fine, 15% cross-sectional area loss	2	3
46.60	SA	Survey abandoned: Stuck at Silt		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	80.0	1.7	80.0	4.0	5	2.0	0.2	10.0	3.0

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Section Pictures

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
4	Downstream	SW01 XX		N3091

1, 00:01:34, 37.50 m
Broken pipe from 12 o'clock to 4 o'clock

2, 00:02:39, 44.50 m
Settled deposits, fine, 15% cross-sectional area loss

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
5	1	20/03/26	8:49	Not Specified	No Rain Or Snow	No	FW01 XX

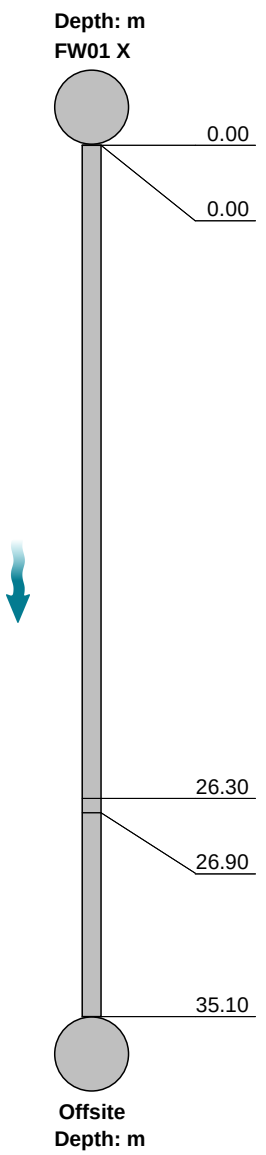
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Downstream	**Upstream Node:**	FW01 X
Road:		**Inspected Length:**	35.10 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	35.10 m	**Downstream Node:**	OFFSITE
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 06 58
Recommendations:

Scale: 1:304



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: FW01 X		
0.00	WL	Water level, 5% of the vertical dimension		
26.30	LR	Line deviates right		
26.90	LL	Line deviates left		
35.10	MHF	Finish node, manhole, reference: Offsite		

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

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
6	1	20/03/26	8:49	Not Specified	No Rain Or Snow	No	FW02X

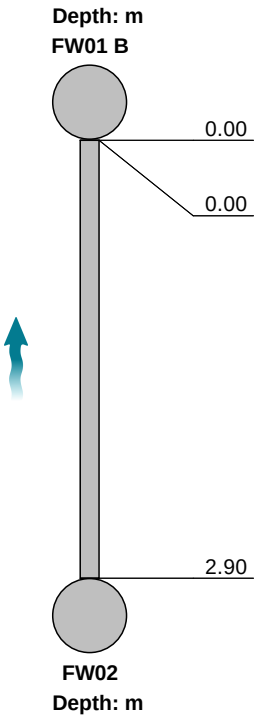
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	FW02
Road:		**Inspected Length:**	2.90 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	2.90 m	**Downstream Node:**	FW01 B
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 08 43
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: FW01 B		
0.00	WL	Water level, 5% of the vertical dimension		
2.90	MHF	Finish node, manhole, reference: FW02		

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

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
7	1	20/03/26	8:49	Not Specified	No Rain Or Snow	No	BUILDINGX

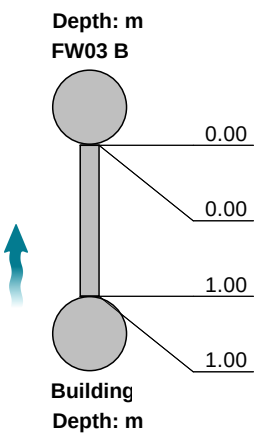
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	BUILDING
Road:		**Inspected Length:**	1.00 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.00 m	**Downstream Node:**	FW03 B
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 09 10
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: FW03 B		
0.00	WL	Water level, 5% of the vertical dimension		
1.00	LU	Line deviates up		
1.00	REM	General remark: Survey finished at Line Up		

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

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
8	1	20/03/26	8:49	Not Specified	No Rain Or Snow	No	BUILDINGX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	BUILDING
Road:		**Inspected Length:**	1,000.00 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.00 m	**Downstream Node:**	FW03 C
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 09 30
Recommendations:

Scale: 1:50

Position [m]	Code	Observation	Photo	Grade
Depth: m				
FW03 C				
0.00	MH	Start node, manhole, reference: FW03 C		
0.00	WL	Water level, 5% of the vertical dimension		
1.00	REM	General remark: Survey finished at Line Up		
Building				
1000.00	LU	Line deviates up		
Depth: m				

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

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Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
9	1	20/03/26	8:49	Not Specified	No Rain Or Snow	No	BUILDINGX

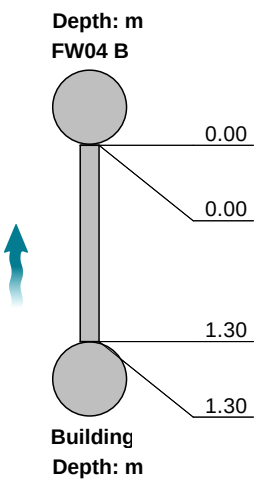
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	BUILDING
Road:		**Inspected Length:**	1.30 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.30 m	**Downstream Node:**	FW04 B
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 09 49
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: FW04 B		
0.00	WL	Water level, 5% of the vertical dimension		
1.30	LU	Line deviates up		
1.30	REM	General remark: Survey finished at Line Up		

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

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Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
10	1	20/03/26	8:49	Not Specified	No Rain Or Snow	No	BUILDINGX

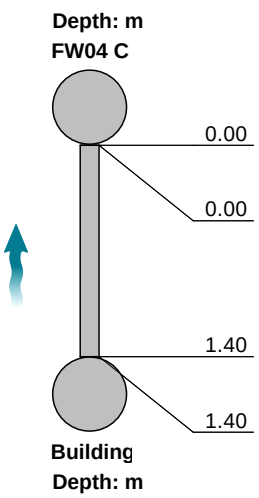
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	BUILDING
Road:		**Inspected Length:**	1.40 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.40 m	**Downstream Node:**	FW04 C
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 10 10
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: FW04 C		
0.00	WL	Water level, 5% of the vertical dimension		
1.40	LU	Line deviates up		
1.40	REM	General remark: Survey finished at Line Up		

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

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Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
11	1	20/03/26	8:49	Not Specified	No Rain Or Snow	No	BUILDINGX

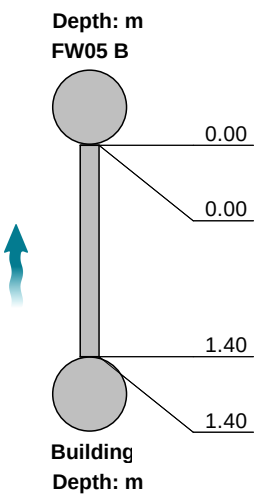
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	BUILDING
Road:		**Inspected Length:**	1.40 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.40 m	**Downstream Node:**	FW05 B
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 10 28
Recommendations:

Scale: **1:50**



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: FW05 B		
0.00	WL	Water level, 5% of the vertical dimension		
1.40	LU	Line deviates up		
1.40	REM	General remark: Survey finished at Line Up		

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

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Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
12	1	20/03/26	8:49	Not Specified	No Rain Or Snow	No	BUILDINGX

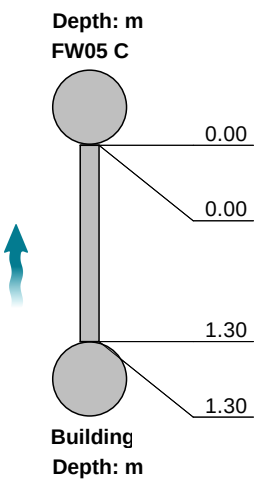
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	BUILDING
Road:		**Inspected Length:**	1.30 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.30 m	**Downstream Node:**	FW05 C
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 10 51
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: FW05 C		
0.00	WL	Water level, 5% of the vertical dimension		
1.30	LU	Line deviates up		
1.30	REM	General remark: Survey finished at Line Up		

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

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
13	1	20/03/26	8:49	Not Specified	No Rain Or Snow	No	BUILDINGX

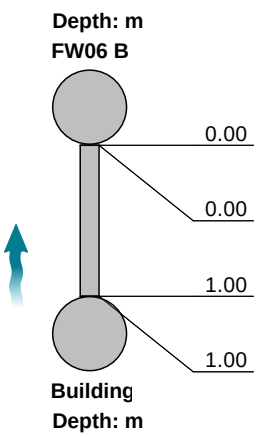
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	BUILDING
Road:		**Inspected Length:**	1.00 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.00 m	**Downstream Node:**	FW06 B
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 11 11
Recommendations:

Scale: **1:50**



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: FW06 B		
0.00	WL	Water level, 5% of the vertical dimension		
1.00	LU	Line deviates up		
1.00	REM	General remark: Survey finished at Line Up		

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

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
14	1	20/03/26	8:49	Not Specified	No Rain Or Snow	No	BUILDINGX

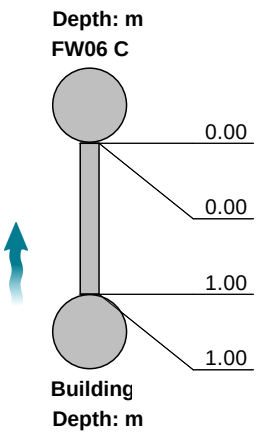
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	BUILDING
Road:		**Inspected Length:**	1.00 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.00 m	**Downstream Node:**	FW06 C
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 11 32
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: FW06 C		
0.00	WL	Water level, 5% of the vertical dimension		
1.00	LU	Line deviates up		
1.00	REM	General remark: Survey finished at Line Up		

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

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
15	1	20/03/26	8:49	Not Specified	No Rain Or Snow	No	BUILDINGX

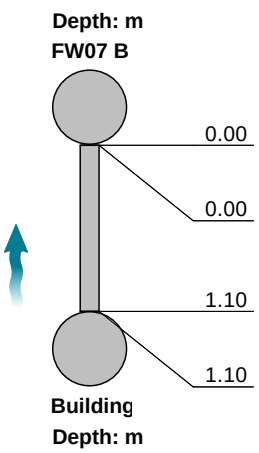
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	BUILDING
Road:		**Inspected Length:**	1.10 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.10 m	**Downstream Node:**	FW07 B
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 11 51
Recommendations:

Scale: **1:50**



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: FW07 B		
0.00	WL	Water level, 5% of the vertical dimension		
1.10	LU	Line deviates up		
1.10	REM	General remark: Survey finished at Line Up		

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

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
16	1	20/03/26	8:49	Not Specified	No Rain Or Snow	No	BUILDINGX

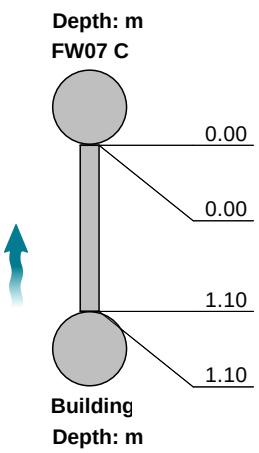
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	BUILDING
Road:		**Inspected Length:**	1.10 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.10 m	**Downstream Node:**	FW07 C
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 12 10
Recommendations:

Scale: **1:50**



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: FW07 C		
0.00	WL	Water level, 5% of the vertical dimension		
1.10	LU	Line deviates up		
1.10	REM	General remark: Survey finished at Line Up		

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

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Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
17	1	20/03/26	8:49	Not Specified	No Rain Or Snow	No	BUILDINGX

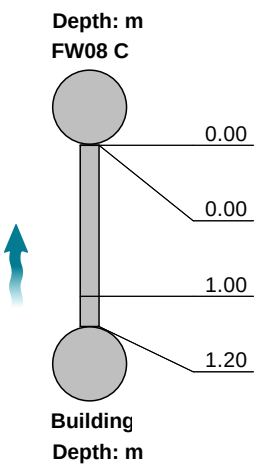
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	BUILDING
Road:		**Inspected Length:**	1.20 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.20 m	**Downstream Node:**	FW08 C
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 12 27
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: FW08 C		
0.00	WL	Water level, 5% of the vertical dimension		
1.00	LU	Line deviates up		
1.20	REM	General remark: Survey finished at Line Up		

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

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Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
18	1	20/03/26	8:49	Not Specified	No Rain Or Snow	No	FW09X

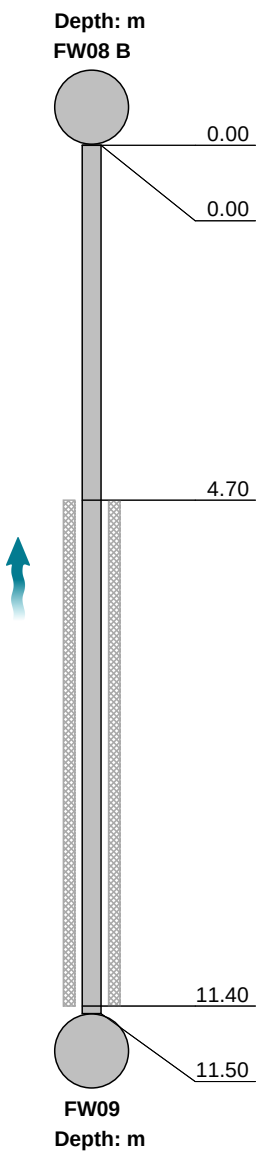
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	FW09
Road:		**Inspected Length:**	11.50 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	11.50 m	**Downstream Node:**	FW08 B
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 12 48
Recommendations:

Scale: 1:100



Position [m]		Code	Observation	Photo	Grade
0.00		MH	Start node, manhole, reference: FW08 B		
0.00		WL	Water level, 10% of the vertical dimension		
4.70	S01	CUW	Loss of vision, camera under water, start		
11.40	F01	CUW	Loss of vision, camera under water, finish		
11.50		MHF	Finish node, manhole, reference: FW09		

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

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
19	1	20/03/26	8:49	Not Specified	No Rain Or Snow	No	OFFSITEX

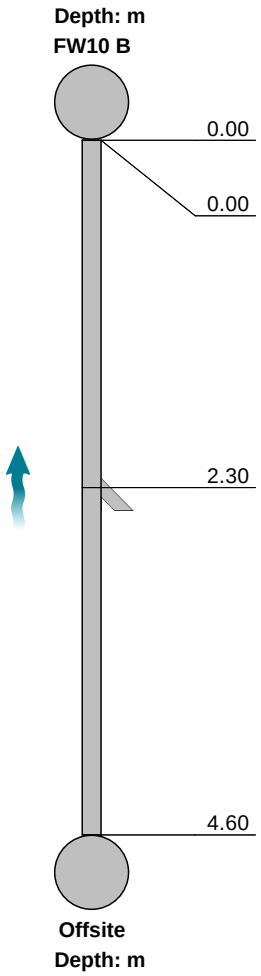
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	OFFSITE
Road:		**Inspected Length:**	4.60 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	4.60 m	**Downstream Node:**	FW10 B
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 13 40
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: FW10 B		
0.00	WL	Water level, 5% of the vertical dimension		
2.30	JN	Junction at 9 o'clock, 100mm dia		
4.60	MHF	Finish node, manhole, reference: Offsite		

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

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
20	1	20/03/26	8:49	Not Specified	No Rain Or Snow	No	OFFSITEX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

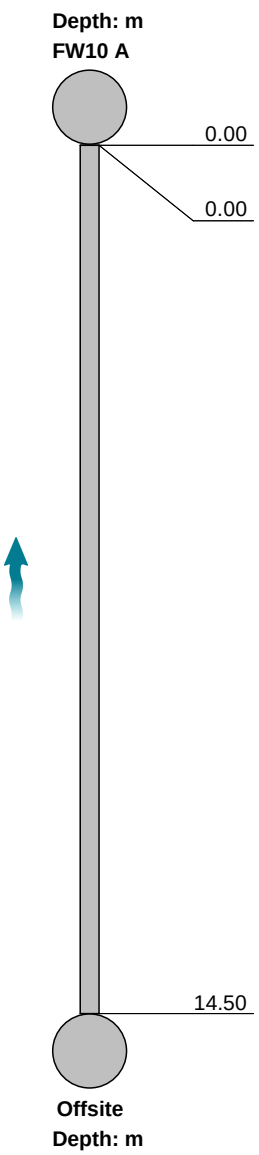
Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	OFFSITE
Road:		**Inspected Length:**	14.50 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	14.50 m	**Downstream Node:**	FW10 A
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 14 08
Recommendations:

Scale: 1:126

Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: FW10 A		
0.00	WL	Water level, 5% of the vertical dimension		
14.50	MHF	Finish node, manhole, reference: Offsite		



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

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
21	1	20/03/26	8:49	Not Specified	No Rain Or Snow	No	FW10 XX

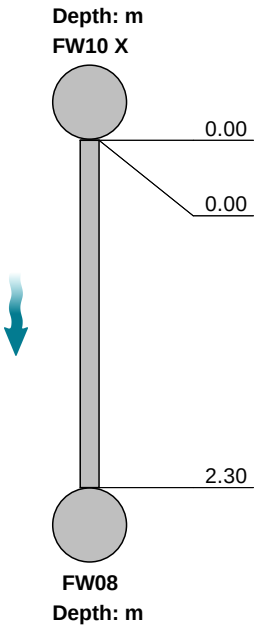
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Downstream	**Upstream Node:**	FW10 X
Road:		**Inspected Length:**	2.30 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	2.30 m	**Downstream Node:**	FW08
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 14 50
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: FW10 X		
0.00	WL	Water level, 5% of the vertical dimension		
2.30	MHF	Finish node, manhole, reference: FW08		

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

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
22	1	20/03/26	8:49	Not Specified	No Rain Or Snow	No	FW08 XX

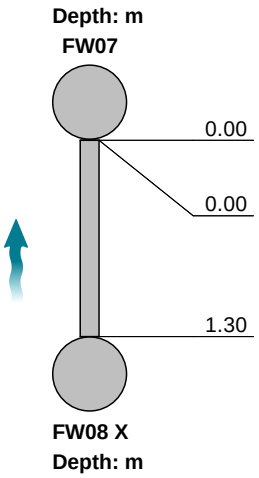
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	FW08 X
Road:		**Inspected Length:**	1.30 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.30 m	**Downstream Node:**	FW07
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 15 14
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: FW07		
0.00	WL	Water level, 5% of the vertical dimension		
1.30	MHF	Finish node, manhole, reference: FW08 X		

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

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Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
23	1	20/03/26	8:49	Not Specified	No Rain Or Snow	No	FW07 XX

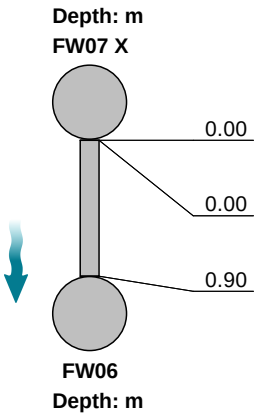
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Downstream	**Upstream Node:**	FW07 X
Road:		**Inspected Length:**	0.90 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.90 m	**Downstream Node:**	FW06
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 15 36
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: FW07 X		
0.00	WL	Water level, 5% of the vertical dimension		
0.90	MHF	Finish node, manhole, reference: FW06		

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

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
24	1	20/03/26	8:49	Not Specified	No Rain Or Snow	No	FW06 XX

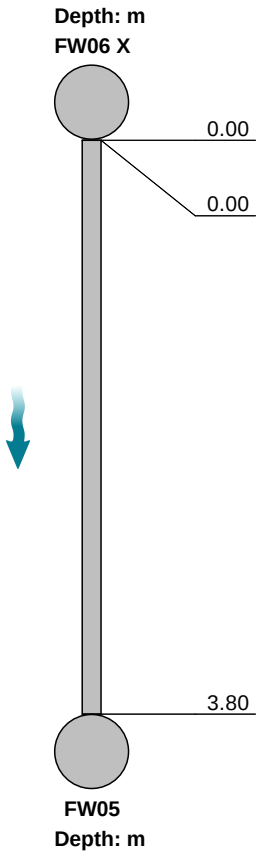
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Downstream	**Upstream Node:**	FW06 X
Road:		**Inspected Length:**	3.80 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	3.80 m	**Downstream Node:**	FW05
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 15 54
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: FW06 X		
0.00	WL	Water level, 5% of the vertical dimension		
3.80	MHF	Finish node, manhole, reference: FW05		

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

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
25	1	20/03/26	8:49	Not Specified	No Rain Or Snow	No	FW05 XX

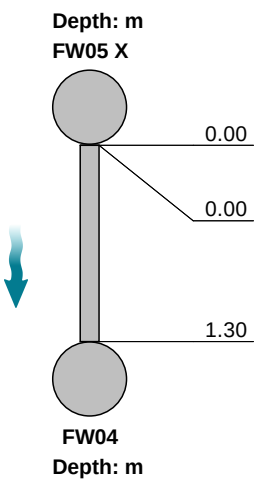
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Downstream	**Upstream Node:**	FW05 X
Road:		**Inspected Length:**	1.30 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.30 m	**Downstream Node:**	FW04
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 16 21
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: FW05 X		
0.00	WL	Water level, 5% of the vertical dimension		
1.30	MHF	Finish node, manhole, reference: FW04		

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

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
26	1	20/03/26	8:49	Not Specified	No Rain Or Snow	No	FW04 XX

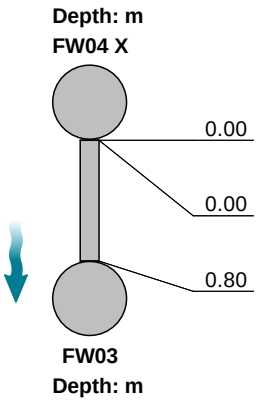
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Downstream	**Upstream Node:**	FW04 X
Road:		**Inspected Length:**	0.80 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.80 m	**Downstream Node:**	FW03
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 16 40
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: FW04 X		
0.00	WL	Water level, 5% of the vertical dimension		
0.80	MHF	Finish node, manhole, reference: FW03		

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

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
27	1	20/03/26	8:50	Not Specified	No Rain Or Snow	No	FW03 XX

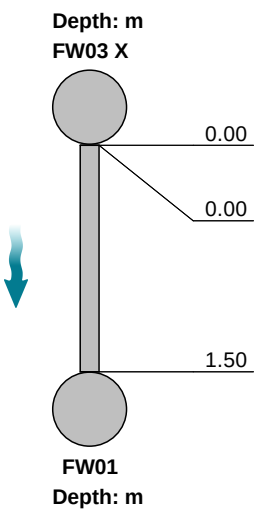
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Downstream	**Upstream Node:**	FW03 X
Road:		**Inspected Length:**	1.50 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.50 m	**Downstream Node:**	FW01
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 16 59
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: FW03 X		
0.00	WL	Water level, 5% of the vertical dimension		
1.50	MHF	Finish node, manhole, reference: FW01		

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

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
28	1	20/03/26	8:50	Not Specified	No Rain Or Snow	No	SW02 XX

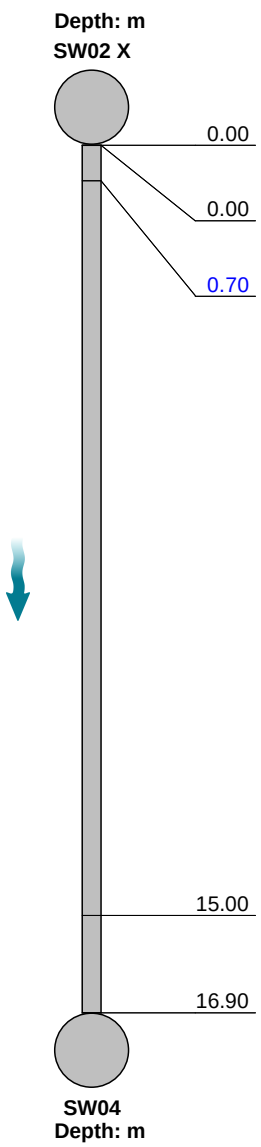
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Downstream	**Upstream Node:**	SW02 X
Road:		**Inspected Length:**	16.90 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	16.90 m	**Downstream Node:**	SW04
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 17 18
Recommendations:

Scale: 1:147



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: SW02 X		
0.00	WL	Water level, 5% of the vertical dimension		
0.70	JDM	Joint displaced, medium		1 / 3
15.00	WL	Water level, 15% of the vertical dimension		
16.90	CPF	Finish node, catchpit, reference: SW04		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	1.0	0.1	1.0	1.0	1	2.0	0.1	2.0	3.0

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
29	1	20/03/26	8:50	Not Specified	No Rain Or Snow	No	SW03X

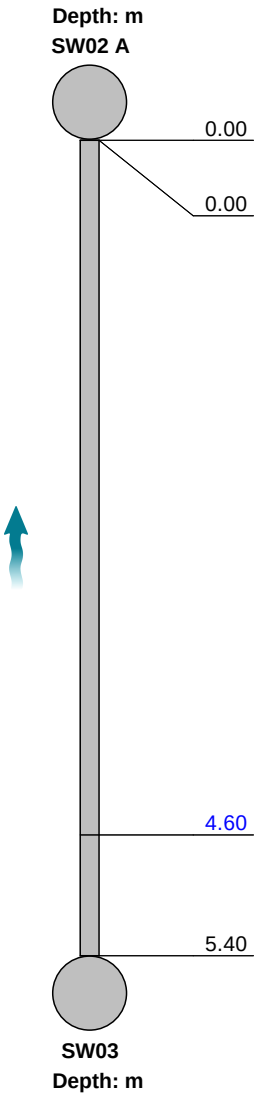
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	SW03
Road:		**Inspected Length:**	5.40 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	5.40 m	**Downstream Node:**	SW02 A
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 18 54
Recommendations:

Scale: 1:50



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: SW02 A		
0.00	WL	Water level, 5% of the vertical dimension		
4.60	JDM	Joint displaced, medium		1 / 3
5.40	CPF	Finish node, catchpit, reference: SW03		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	1.0	0.2	1.0	1.0	1	2.0	0.4	2.0	3.0

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Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
30	1	20/03/26	8:50	Not Specified	No Rain Or Snow	No	BUILDINGX

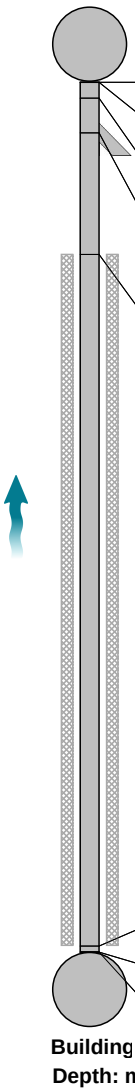
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	BUILDING
Road:		**Inspected Length:**	13.60 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	13.60 m	**Downstream Node:**	FW09 A
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 19 24
Recommendations:

Scale: 1:118



Position [m]		Code	Observation	Photo	Grade
0.00		MH	Start node, manhole, reference: FW09 A		
0.00		WL	Water level, 5% of the vertical dimension		
0.25		LL	Line deviates left		
0.80		JN	Junction at 9 o'clock, 100mm dia		
2.70	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start		
13.50	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish		
13.60		LU	Line deviates up		
13.60		REM	General remark: Survey finished at Line Up		

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

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
31	1	20/03/26	8:50	Not Specified	No Rain Or Snow	No	UTFX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

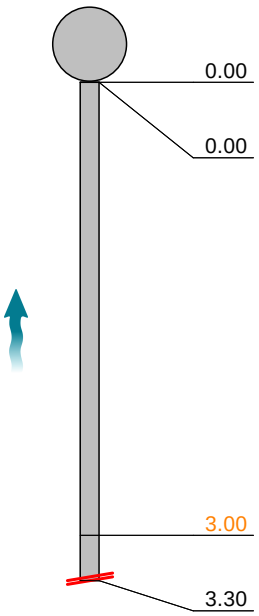
Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	UTF
Road:		**Inspected Length:**	3.30 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	3.30 m	**Downstream Node:**	FW09 B
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Foul	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 20 14
Recommendations:

Scale: 1:50

Depth: m
FW09 B



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: FW09 B		
0.00	WL	Water level, 0% of the vertical dimension		
3.00	DEC	Settled deposits, hard or compacted, 75% cross-sectional area loss	1	4
3.30	SA	Survey abandoned: Settled Deposits		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	8.0	2.4	8.0	4.0

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Section Pictures

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
31	Upstream	UTFX		N3091

1, 00:00:14, 3.00 m
Settled deposits, hard or compacted, 75% cross-sectional area loss

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
32	1	20/03/26	8:50	Not Specified	No Rain Or Snow	No	SW04 XX

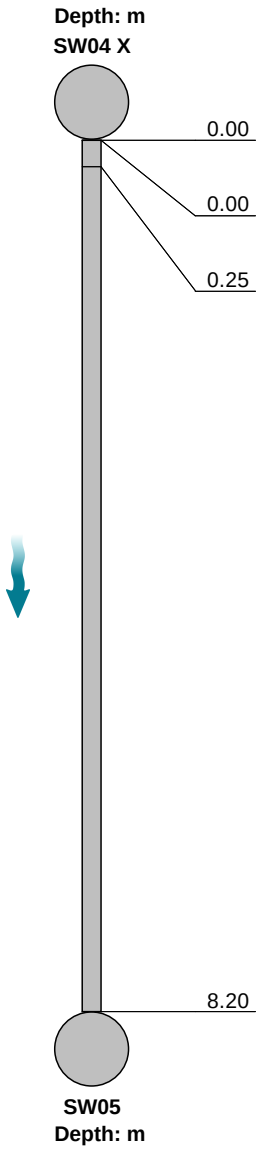
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Downstream	**Upstream Node:**	SW04 X
Road:		**Inspected Length:**	8.20 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	8.20 m	**Downstream Node:**	SW05
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Time 00 20 37 / End of Vid001 @ 00 21 27
Recommendations:

Scale: 1:71



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: SW04 X		
0.00	WL	Water level, 5% of the vertical dimension		
0.25	LL	Line deviates left		
8.20	CPF	Finish node, catchpit, reference: SW05		

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

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
33	1	15/06/26	11:34	Not Specified	No Rain Or Snow	Yes	SW01 XX

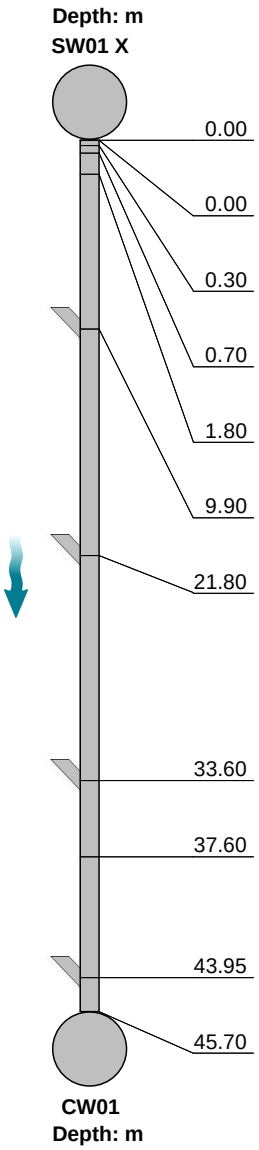
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Downstream	**Upstream Node:**	SW01 X
Road:		**Inspected Length:**	45.70 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	45.70 m	**Downstream Node:**	CW01
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments: Start of Vid-002 @ 00 00 00
Recommendations:

Scale: 1:396



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: SW01 X		
0.00	WL	Water level, 5% of the vertical dimension		
0.30	CM	Cracks, multiple from 12 o'clock to 5 o'clock		
0.70	FL	Fracture, longitudinal at 12 o'clock		
1.80	DEEJ	Attached deposits, encrustation at joint from 7 o'clock to 11 o'clock, 5% cross-sectional area loss		
9.90	JN	Junction at 3 o'clock, 100mm dia		
21.80	JN	Junction at 3 o'clock, 100mm dia		
33.60	JN	Junction at 3 o'clock, 100mm dia		
37.60	B	Broken pipe from 12 o'clock to 5 o'clock	1	
43.95	JN	Junction at 3 o'clock, 100mm dia		
45.70	REM	General remark: Camera reached operating limits		

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

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Section Pictures

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
33	Downstream	SW01 XX		N3091

1, 00:02:31, 37.60 m
Broken pipe from 12 o'clock to 5 o'clock

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
34	1	15/06/26	11:35	Not Specified	No Rain Or Snow	Yes	GULLYX

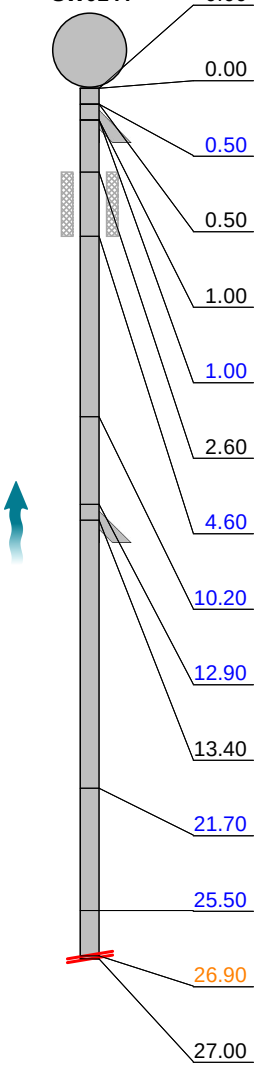
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	GULLY
Road:		**Inspected Length:**	27.00 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	27.00 m	**Downstream Node:**	SW01 A
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:234



Position [m]		Code	Observation	Photo	Grade
0.00		MH	Start node, manhole, reference: SW01 A		
0.00		WL	Water level, 5% of the vertical dimension		
0.50		JDM	Joint displaced, medium		1 / 3
0.50		LL	Line deviates left		
1.00		JN	Junction at 9 o'clock, 100mm dia		
1.00		DES	Settled deposits, fine, 10% cross-sectional area loss		3
2.60	S01	DES	Settled deposits, fine, 5% cross-sectional area loss, start		
4.60	F01	DES	Settled deposits, fine, 5% cross-sectional area loss, finish		3
10.20		DES	Settled deposits, fine, 5% cross-sectional area loss		3
12.90		DEEJ	Attached deposits, encrustation at joint from 12 o'clock to 12 o'clock, 10% cross-sectional area loss	1	3
13.40		JN	Junction at 9 o'clock, 100mm dia		
21.70		DEEJ	Attached deposits, encrustation at joint from 8 o'clock to 5 o'clock, 5% cross-sectional area loss		3
25.50		DEEJ	Attached deposits, encrustation at joint from 12 o'clock to 12 o'clock, 10% cross-sectional area loss		3
26.90		DEC	Settled deposits, hard or compacted, 35% cross-sectional area loss	2	4
27.00		SA	Survey abandoned: Compacted Debris		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	1.0	0.0	1.0	1.0	8	5.0	0.8	21.0	4.0

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Section Pictures

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
34	Upstream	GULLYX		N3091

1, 00:00:53, 12.90 m
Attached deposits, encrustation at joint from 12 o'clock to 12 o'clock, 10% cross-sectional area loss

2, 00:01:44, 26.90 m
Settled deposits, hard or compacted, 35% cross-sectional area loss

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
35	1	15/06/26	11:35	Not Specified	No Rain Or Snow	Yes	GULLYX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

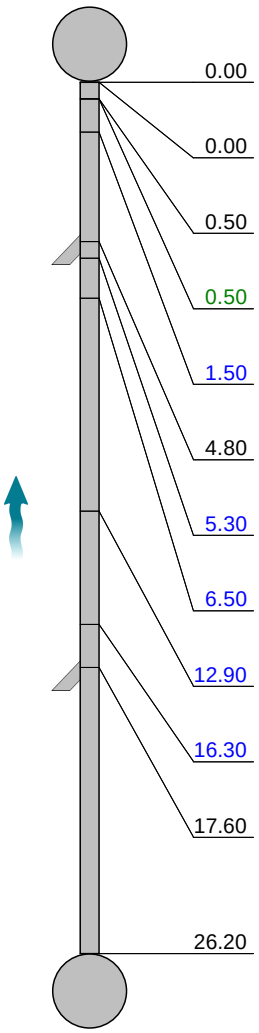
Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	GULLY
Road:		**Inspected Length:**	26.20 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	26.20 m	**Downstream Node:**	SW01 B
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:227

Depth: m
SW01 B



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: SW01 B		
0.00	WL	Water level, 5% of the vertical dimension		
0.50	LL	Line deviates left		
0.50	CC	Crack, circumferential from 9 o'clock to 3 o'clock		2 / 2
1.50	DEEJ	Attached deposits, encrustation at joint from 7 o'clock to 12 o'clock, 5% cross-sectional area loss		3
4.80	JN	Junction at 3 o'clock, 100mm dia		
5.30	DEEJ	Attached deposits, encrustation at joint from 12 o'clock to 12 o'clock, 5% cross-sectional area loss		3
6.50	DEEJ	Attached deposits, encrustation at joint from 8 o'clock to 4 o'clock, 5% cross-sectional area loss		3
12.90	DEEJ	Attached deposits, encrustation at joint from 3 o'clock to 9 o'clock, 20% cross-sectional area loss	1	3
16.30	DEEJ	Attached deposits, encrustation at joint from 3 o'clock to 9 o'clock, 15% cross-sectional area loss	2	3
17.60	JN	Junction at 3 o'clock, 100mm dia		
26.20	GYF	Finish node, gully, reference: Gully		

Gully
Depth: m

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	10.0	0.4	10.0	2.0	6	2.0	0.4	11.0	3.0

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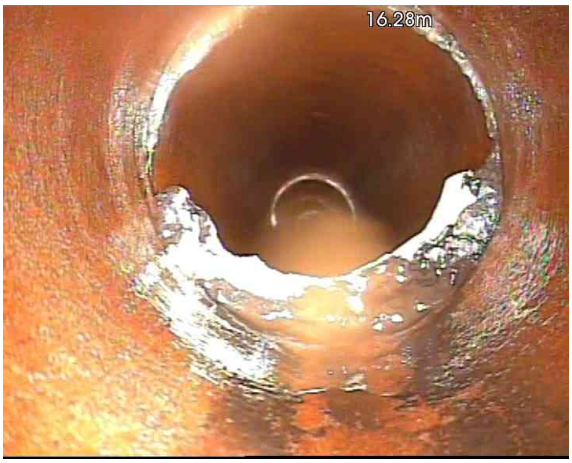
Section Pictures

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
35	Upstream	GULLYX		N3091

1, 00:00:47, 12.90 m
Attached deposits, encrustation at joint from 3 o'clock to 9 o'clock, 20% cross-sectional area loss



2, 00:01:12, 16.30 m
Attached deposits, encrustation at joint from 3 o'clock to 9 o'clock, 15% cross-sectional area loss

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
36	1	15/06/26	11:35	Not Specified	No Rain Or Snow	Yes	UTFX

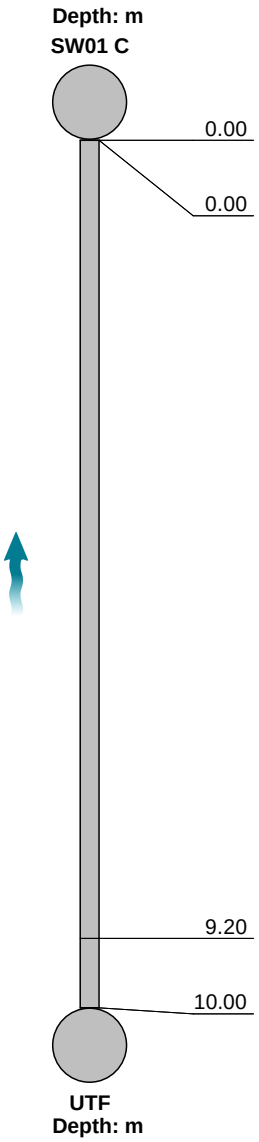
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	UTF
Road:		**Inspected Length:**	10.00 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	10.00 m	**Downstream Node:**	SW01 C
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:87



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: CW01 B		
0.00	WL	Water level, 5% of the vertical dimension		
9.20	RM	Roots, mass, 80% cross-sectional area loss	1	
10.00	REM	General remark: Camera stuck at root mass		

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

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Section Pictures

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
36	Upstream	UTFX		N3091

1, 00:00:39, 9.20 m
Roots, mass, 80% cross-sectional area loss

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
37	1	15/06/26	11:36	Not Specified	No Rain Or Snow	Yes	SW01 X

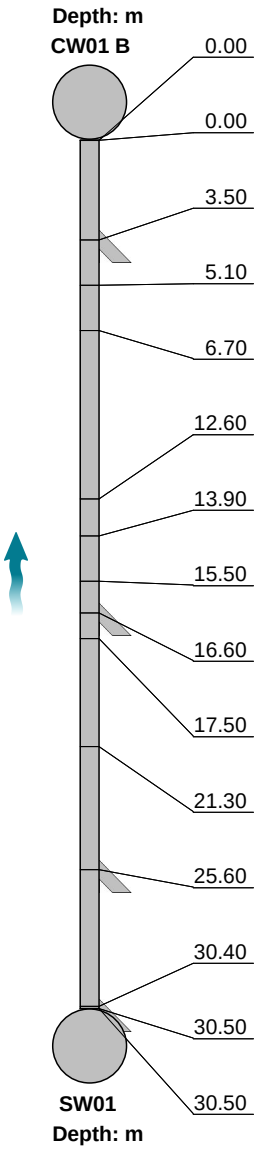
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	SW01
Road:		**Inspected Length:**	30.50 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	30.50 m	**Downstream Node:**	CW01 B
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:265



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: CW01 B		
0.00	WL	Water level, 5% of the vertical dimension		
3.50	JN	Junction at 9 o'clock, 100mm dia		
5.10	DES	Settled deposits, fine, 5% cross-sectional area loss		
6.70	DES	Settled deposits, fine, 5% cross-sectional area loss		
12.60	DEEJ	Attached deposits, encrustation at joint from 8 o'clock to 4 o'clock, 5% cross-sectional area loss		
13.90	RFJ	Roots, fine at joint		
15.50	JDM	Joint displaced, medium		
16.60	JN	Junction at 9 o'clock, 100mm dia		
17.50	DEEJ	Attached deposits, encrustation at joint from 12 o'clock to 12 o'clock, 5% cross-sectional area loss		
21.30	JDM	Joint displaced, medium		
25.60	JN	Junction at 9 o'clock, 100mm dia		
30.40	DES	Settled deposits, fine, 5% cross-sectional area loss		
30.50	JN	Junction at 9 o'clock, 100mm dia		
30.50	REM	General remark: Meters covered		

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

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
38	1	15/06/26	11:35	Not Specified	No Rain Or Snow	Yes	CW01 XX

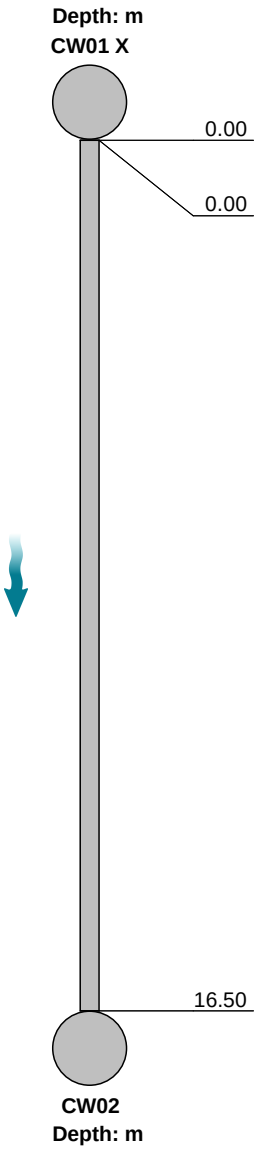
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

Town or Village:		**Inspection Direction:**	Downstream	**Upstream Node:**	CW01 X
Road:		**Inspected Length:**	16.50 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	16.50 m	**Downstream Node:**	CW02
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Combined	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:143



Position [m]	Code	Observation	Photo	Grade
0.00	MH	Start node, manhole, reference: CW01 X		
0.00	WL	Water level, 5% of the vertical dimension		
16.50	MHF	Finish node, manhole, reference: CW02: Buried		

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

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
39	1	15/06/26	11:36	Not Specified	No Rain Or Snow	Yes	SW06 XX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

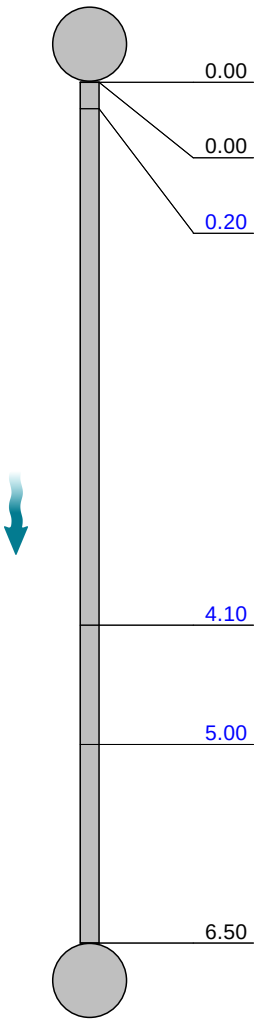
Town or Village:		**Inspection Direction:**	Downstream	**Upstream Node:**	SW06 X
Road:		**Inspected Length:**	6.50 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	6.50 m	**Downstream Node:**	SW07
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:57

Depth: m
SW06 X



Position [m]	Code	Observation	Photo	Grade
0.00	CP	Start node, catchpit, reference: SW06 X		
0.00	WL	Water level, 5% of the vertical dimension		
0.20	RM	Roots, mass, 15% cross-sectional area loss	1	3
4.10	JDM	Joint displaced, medium		1 / 3
5.00	RM	Roots, mass, 10% cross-sectional area loss		3
6.50	SKF	Finish node, soakaway, reference: SW07		

SW07
Depth: m

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	1.0	0.2	1.0	1.0	3	4.0	1.5	10.0	3.0

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Section Pictures

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
39	Downstream	SW06 XX		N3091

1, 00:00:11, 0.20 m
Roots, mass, 15% cross-sectional area loss

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Section Inspection

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
40	1	15/06/26	11:36	Not Specified	No Rain Or Snow	Yes	GULLYX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Ash	Van 3	Camera 3	Not Specified	Not Specified	Not Specified

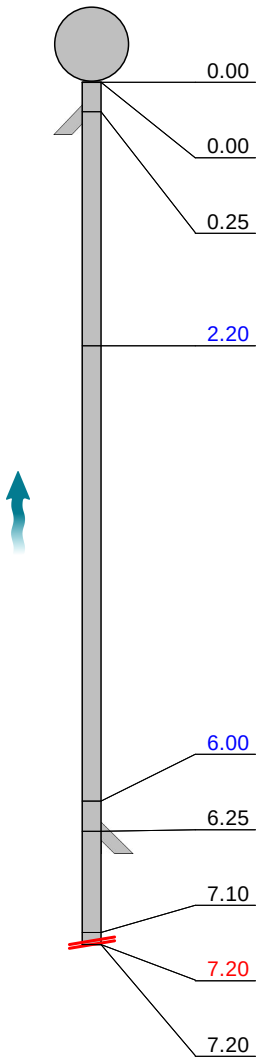
Town or Village:		**Inspection Direction:**	Upstream	**Upstream Node:**	GULLY
Road:		**Inspected Length:**	7.20 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	7.20 m	**Downstream Node:**	SW06 A
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:	No flow control	**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:	Routine inspection	**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:63

Depth: m
SW06 A



Position [m]	Code	Observation	Photo	Grade
0.00	CP	Start node, catchpit, reference: SW06 A		
0.00	WL	Water level, 5% of the vertical dimension		
0.25	JN	Junction at 3 o'clock, 100mm dia		
2.20	JDM	Joint displaced, medium		1 / 3
6.00	JDM	Joint displaced, medium		1 / 3
6.25	JN	Junction at 9 o'clock, 100mm dia		
7.10	LL	Line deviates left		
7.20	RM	Roots, mass, 35% cross-sectional area loss	1	5
7.20	SA	Survey abandoned: Camera stck at root mass		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	1.0	0.3	2.0	1.0	3	10.0	1.9	14.0	5.0

Laser Surveys Limited
Leigh Sinton Road, Malvern
Tel. 01886 833 173
worcester@lasersurveys.com

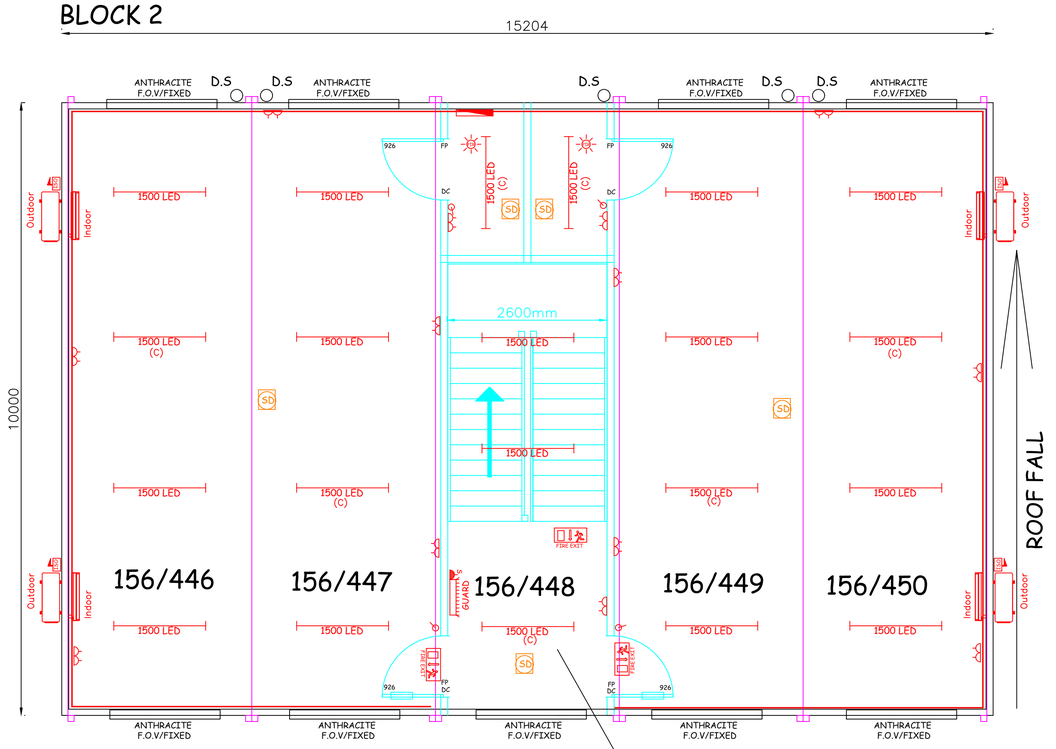
Section Pictures

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
40	Upstream	GULLYX		N3091

1, 00:00:46, 7.20 m
Roots, mass, 35% cross-sectional area loss

APPENDIX C – ARCHITECTURAL PROPOSALS

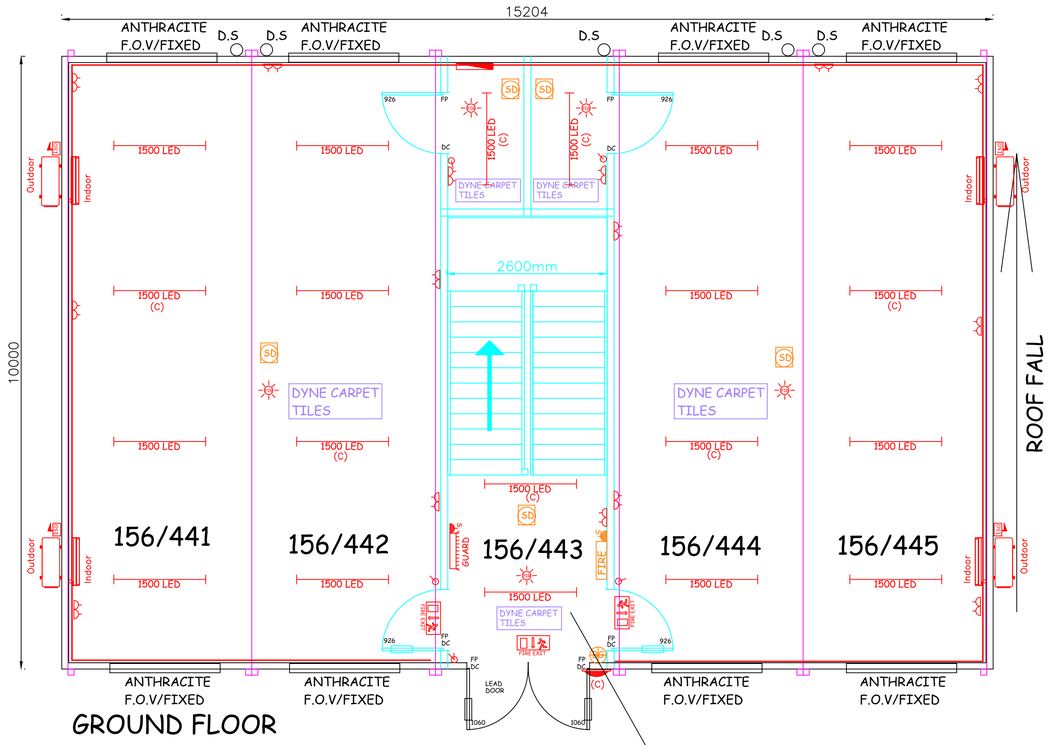
BLOCK 2



FIRST FLOOR

2550 INTERNAL HEADROOM

2 NO. LAYERS OF 12.5MM PLASTERBOARD C/W STAGGERED JOINTS TO STAIRCASE AREA WALLS



GROUND FLOOR

GROUND FLOOR CEILING TO BE 2NO. LAYER OF 12.5MM PLASTERBOARD C/W STAGGERED JOINTS

2 NO. LAYERS OF 12.5MM PLASTERBOARD C/W STAGGERED JOINTS TO STAIRCASE AREA WALLS

15m x 10m External Column Double Storey Modular Building Comprising Of:-

GROUND FLOOR

Modules:
2 10m x 3m gable module
3 10m x 3m middle module
Roof:
Mono-pitch roof c/w Firestone FR EPDM black roof membrane, 12mm plywood and plastic rainwater goods to one elevation
Please note that each module will have its own rainwater gutter and downspout
U-Values to 0.18 W/m2k (50mm celotex) / m2
External Wall Cladding:
Goosewing Grey plastisol steel (10A05) to main body, corner-posts and skirtings, Anthracite 7016 to roof fascia, windows and door
U-Values to 0.19 W/m2k (100mm insulation) / lm
Floor:
178mm galvanised steel perimeter ring beam and the following:
165mm x 2mm galvanised joists @ 600 ctrs
22mm T & G P5 moisture resistant chipboard flooring
U-Values to 0.18 W/m2k (150mm rockwool) / m2
Internal Walls & Ceiling:
White vinyl-faced plasterboard to walls and ceiling
2 x 12.5mm plasterboard to walls (to give increased fire resistance inside to out) AROUND STAIRCASE AREA ONLY
2 x 12.5mm plasterboardto ceiling (to give increased fire resistance inside to out)
THE GROUNDFLOOR CEILING MUST BE DOUBLE LINED WHEN ADDING ANOTHER FLOOR
Internal Headroom:
2.55m
Internal Doors & Partitioning:
4 Single Ash veneered FD30 door set c/w lever action handles and hinges with anodised finish, white MDF frames and the following:
2 150 x 1350 G.P.W. safety glass vision panel
4 Door closer
4 White finger protector (to one side of the door only)
4 Satin aluminium kick-plate (to the opening side only)
25 LINEAR METRES of fixed partitioning c/w white vinyl-faced plasterboard and acoustic infill
External Doors:
1 Double entrance door c/w plastisol steel finish, euro-cylinder lock with key access outside, thumb-turn inside, lever action handles and hinges with anodised finish and long vision panel
External Door Accessories:
1 Door closer (class 7 type)
Windows & Vision Panels:
8 1800(w) x 1067(h) Powder coated outer/white inner UPVC double glazed windows c/w F.O.V/Fixed pane, tickle vents & white lockable handles
Floor Covering:
150 Square metres of standard carpet tiles (Dyne New York Range)
Lighting:
21 Single 1500 LED light fitting batten
7 (emergency type)
1 External, wall mounted, LED bulkhead light
1 (of the above to be combined emergency type)
3 3-Hour maintained wall mounted emergency exit light c/w running man legend
Light Switching:
5 Single light switch
11 Emergency test key switch
5 PIR motion detectors
Sockets:
15 Twin switched power point
Dado Trunking:
50 Linear metres of 3 compartment dado trunking
Heating, Cooling & Ventilation:
1 Stiebel Eltron CNS Trend wall mounted 2kW convector heater c/w switched spur isolator and thermostat
1 Heater guard to suit the Stiebel Eltron CNS Trend convector heater
4 5.0 kW Mitsubishi heat/cool, hyper inverter units, internally wall mounted at high level with external isolator & floor mounted condenser
4 External wall mounted isolator
Air-conditioning notes: Unless otherwise stated, the heat/cooling units will need to be services at regular intervals and this price is not included in this offer.
Electric (other):
1 3 Phase distribution board with RCBO's
1 Surge Protection (1 per building)
Fire Alarm (Stand-Alone System):
1 Protec (6000) panel
5 Protec smoke detectors
5 Protec sounder bases (fitted integral to smoke & heat detectors)
1 Protec break-glass point
Other Sundry Items:
Perimeter Skirting:
50 Linear metres of cross vented skirting to a nominal depth of 300mm. Price assumes that the site is level - greater depths will be charged pro-rata
SBEM Building Efficiency Report:
1 Report for buildings 6 – 10 modules
1 EPC

FIRST FLOOR

2 10m x 3m gable module
3 10m x 3m middle module
Roof:
Mono-pitch roof c/w Firestone FR EPDM black roof membrane, 12mm plywood and plastic rainwater goods to one elevation
Please note that each bay will have its own rainwater gutter and downspout
U-Values 0.18 w/m2k (50mm celotex) / m2
External Wall Cladding:
Goosewing Grey plastisol steel (10A05) to main body, corner-posts and skirtings, Anthracite 7016 to roof fascia, windows and door
U-Values to 0.19 w/m2k (100mm insulation) /lm
Floor:
178mm galvanised steel perimeter ring beam and the following:
165mm x 2mm galvanised joists @ 600 ctrs
22mm T & G P5 moisture resistant chipboard flooring
U-Values to 0.18 w/m2k (150mm rockwool) / m2
Internal Walls & Ceiling:
White vinyl-faced plasterboard to walls and ceiling
2 x 12.5mm plasterboard to the walls (to give increased fire resistance inside to out) AROUND STAIRCASE AREA ONLY
Internal Doors & Partitioning:
4 Single Ash veneered FD30 door set c/w lever action handles and hinges with satin anodised finish, white MDF frames and the following:
2 150 x 1350 G.P.W. safety glass vision panel
4 Door closer
4 Satin aluminium kick-plate (to the opening side only)
4 White Finger protector (to one side of the door only)
26 LINEAR METRES of fixed partitioning c/w plasterboard and acoustic infill
Internal Headroom:
2.55m
Windows & Vision Panels:
9 1800(w) x 1067(h) Powder coated outer/white inner double glazed UPVC windows, c/w F.O.V/Fixed pane trickle vents, & White lockable handles
Floor Covering:
150 Square metres of standard carpet tiles (Dyne New York Range)
Lighting:
21 LED light fitting batten
7 (of the above to be combined emergency type)
Bulkhead & Emergency Lighting
2 3 Hour maintained emergency exit light c/w running man legend
Light Switching:
4 Single light switch
9 Emergency test key switch
5 PIR motion detectors
Sockets:
15 Twin switched power point
Dado Trunking:
50 Linear metres of 3 compartment dado trunking
Heating, Cooling & Ventilation:
1 Stiebel Eltron CNS Trend wall mounted 2kW convector heater c/w switched spur isolator and thermostat
1 Heater guard to suit the Stiebel Eltron CNS Trend convector heater
4 5.0 kW Mitsubishi heat/cool, hyper inverter units, internally wall mounted at high level with external isolator & floor mounted condenser.
External trunking in white, other colours chargeable
4 External wall mounted isolator
Electric (other):
1 3 Phase distribution board c/w RCBO's
1 Surge Protection
Fire Alarm (Stand-Alone System):
1 Protec (6000) panel
5 Protec smoke detectors
5 Protec sounder bases (fitted integral to smoke & heat detectors)
1 Protec break-glass point
Other Sundry Items:
1 Internal staircase c/w mild steel powder-coated finish
Intermediate Fascia:
50 Linear metres of plastisol steel intermediate fascia board

NOTE
ROOF FALL ON BOTH FLOORS TO ENABLE THE BUILDING TO BE SPLIT AT LATER DATE

EXTERIOR
WALLS, CORNERS, SKIRT & INTERMEDIATE FASCIA IN GOOSEWING GREY, ANTHRACITE FASCIA

Fire Alarm - Protec Standalone System

- FIRE — Fire Alarm Panel c/w isolator
- SD — Optical smoke detector with sounder base
- BG — Manual call point ("break glass")

DRAWING APPROVAL

STAMP IF REQUIRED	SIGN:
	PRINT:
	COMPANY:
	DATE:

ONCE THE LAYOUT & SPECIFICATION HAS BEEN AGREED COULD YOU PLEASE SIGN, DATE & PRINT THE DRAWING TO ALLOW MANUFACTURE TO TAKE PLACE

Note

Overall Building height may alter slightly depending on the height of prepared foundations and the fall of the land (If Applicable).

Any dimensions should be used in preference to scaling the drawings and should be checked by the contractor before that part of the work commences or materials are ordered.

Any alterations to be confirmed by the client and Local Authority or other supervising body.

Permission should be obtained from land owners if not freehold.
If the work is subject to CDM Regulations the HSE should be notified.

Where the development is within close proximity of the boundary the Party Wall Act will apply and written intention should be given to the adjoining owners.

All electrical heating and plumbing requirements should be agreed with the client before work commences.

Building work must be inspected by an approved Building inspector during the course of the work (If applicable).

All drawings including elevations are the property of Portable Offices (Hire) Ltd and must not be reproduced without written prior consent.

REV	DESCRIPTION	DATE	BY

PORTABLE OFFICES
Space to enjoy

TITLE DOUBLE STOREY, DOUBLE CLASSROOM BLOCK

CLIENT

SERIAL NO. 156/441-450 - CP8903

SCALE 1:50 @A1

DRAWN BY LYNDSEY DUGGAN

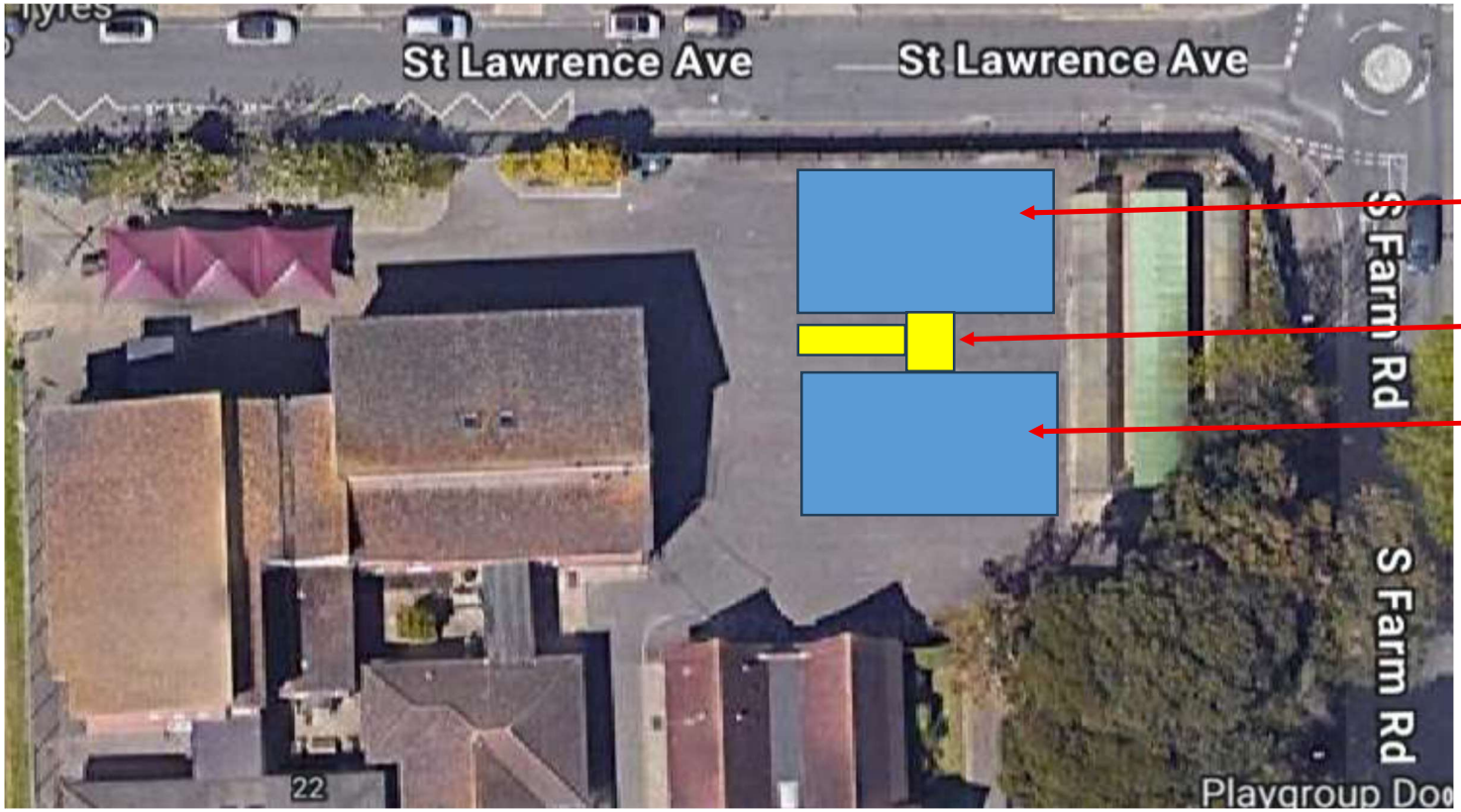
DATE 3.1.24

DRAWING No. 25744

Worthing High School

Site Plan

Option 1



1st Double Classroom Two Storey

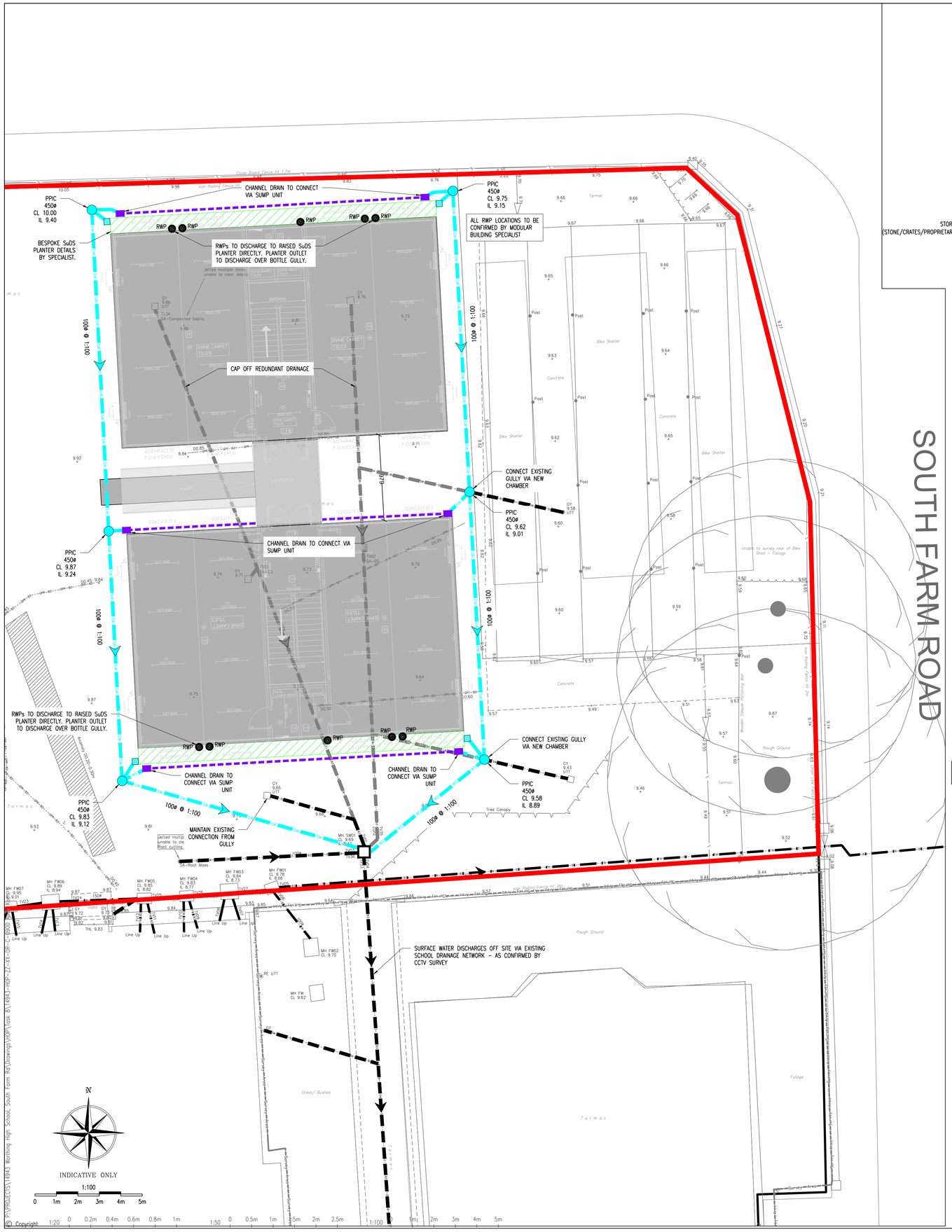
Double landing and ramp

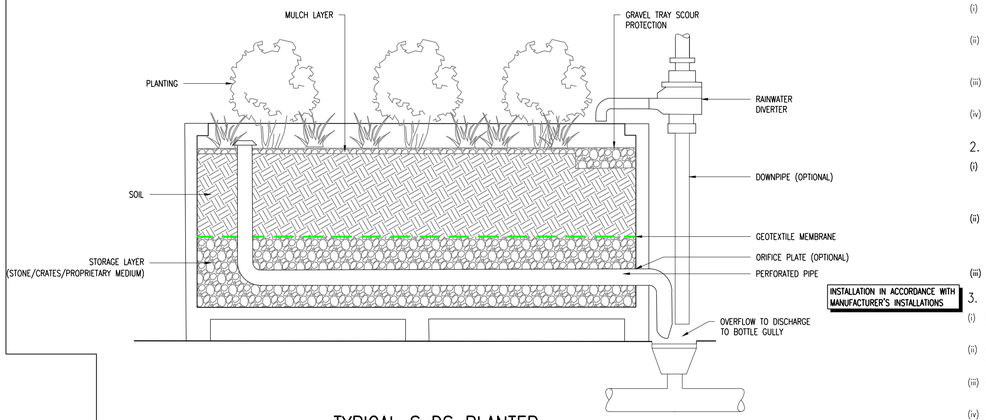
2nd Double Classroom Two Storey

Portable Offices (Hire) Limited, Chaul End Lane, Luton, LU4 8FD
Call 01582 490082 **Email** info@portableoffices.co.uk **Visit** www.portableoffices.co.uk

APPENDIX C – DRAINAGE LAYOUT DRAWING

Project/Task No. 14943/08 Scale: AS SHOWN ORIGINAL DRAWING SIZE A1

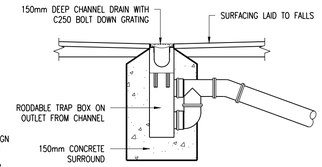




INSTALLATION IN ACCORDANCE WITH MANUFACTURER'S INSTALLATIONS

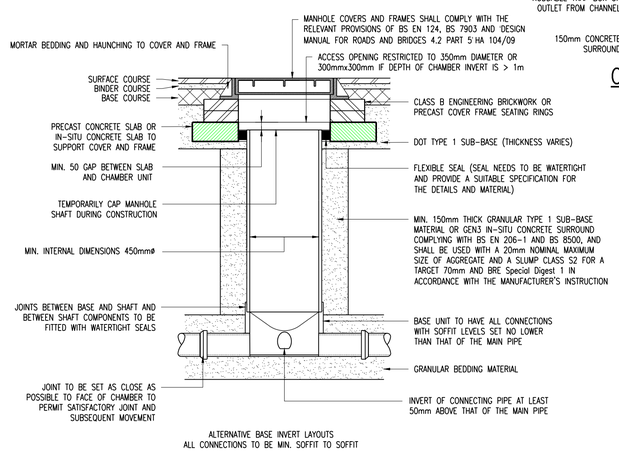
TYPICAL SuDS PLANTER ARRANGEMENT

(1:20)

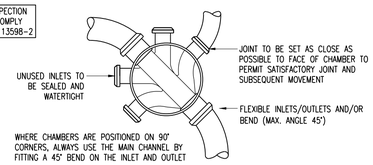


CHANNEL DRAIN

(1:20)



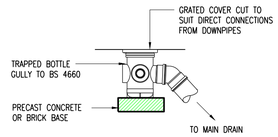
THERMOPLASTICS MANHOLES, INSPECTION CHAMBERS AND RINGS SHALL COMPLY WITH BS EN 13598-1 OR BS EN 13598-2



PPIC ACCESS CHAMBER – FLEXIBLE MATERIAL

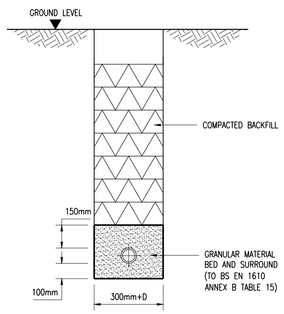
(SUBJECT TO VEHICLE LOADING, MAX. DEPTH 3m, NON-ENTRY)

(1:20)



BOTTLE GULLY

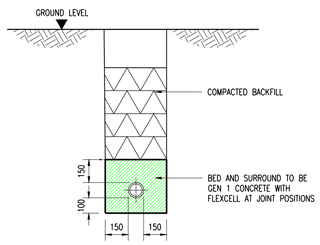
(1:20)



CLASS S BEDDING

(WHERE COVER >600mm IN LANDSCAPED AREAS OR >900mm IN TRAFFICKED AREAS)

(1:20)



CLASS Z BEDDING

(WHERE COVER <600mm IN LANDSCAPED AREAS OR <900mm IN TRAFFICKED AREAS)

(1:20)

1:20
0 0.2m 0.4m 0.6m 0.8m 1.0m

1. GENERAL

(i) This drawing is not to be scaled, work to figured dimensions only, confirmed on site.

(ii) This drawing is to be read in conjunction with all relevant architectural drawings, detailed specifications where applicable and all associated drawings in this series.

(iii) Any discrepancy on this drawing is to be reported immediately to the partnership for clarification.

(iv) The contractor is responsible for all temporary works and for the stability of the works in progress.

2. DRAINAGE GENERAL

(i) All foul and storm water drains which are not to be adopted as public sewers under a section 104 Agreement must be constructed in accordance with the Building Regulations, BS EN 752 and where appropriate the relevant agreement certificates.

(ii) Manholes, gullies, gully connections, sewers and other sewerage structures intended to convey surface water are to be constructed in accordance with the Water Authorities Association Specification "Sewers for Adoption" 7th Edition and relevant Council Design Guide.

(iii) All concrete used in drainage works to comply with BRE Digest 363 for Class 2 sulphate conditions.

3. BELOW GROUND DRAINAGE

(i) Pipework to be UPVC-U pipes to BS 4660 : 2000 and Inspection Chambers to BS 7158 : 2001.

(ii) All adoptable drainage to be constructed in accordance with "Sewers for Adoption" 7th Edition and the relevant Council Design Guide.

(iii) All private surface water sewers to be laid at 1 in 80 unless otherwise stated on the drawing.

(iv) All private foul water sewers to be laid at 1 in 40 at the head of pipe runs and 1 in 80 elsewhere unless otherwise stated.

(v) All private foul sewer pipes to be 100mm diameter unless otherwise stated on the drawing. All private surface water sewer pipes to be 100mm diameter from downpipes and 150mm diameter elsewhere unless otherwise stated on the drawing.

(vi) Allow for rodding access above ground where rainwater downpipes do not have a direct connection to an inspection chamber.

(vii) Existing sewer pipe to be re-used to be surveyed and levelled prior to commencement of the drainage works and refurbished if necessary.

(viii) Connections to an adopted sewer only to be made following approval from the relevant adopting Authority.

(ix) All drains, sewer pipes and manholes to be cleaned and tested for water tightness on completion of construction.

4. MANHOLE COVERS & FRAMES

(i) Manhole covers to be class D400 in highways, class B125 in footways and verges, class C250 in external maintenance vehicle access areas and verges, and class A15 in non-trafficked areas.

(ii) Manhole covers and frames to be bedded and surrounded in 1:3 mortar.

5. PIPES

(i) Plastic pipes shall be of unplasticised polyvinyl chloride (UPVC) complying with the requirements of BS EN 1401-1:2009.

(ii) Concrete pipes shall be spun by a centrifugal process or be vertically pressed. They shall possess self inverting sockets and shall comply with the requirements of and be tested in accordance with BS 5911:2002.

LEGEND

- PROPOSED SURFACE WATER DRAIN
- EXISTING SURFACE WATER DRAIN
- EXISTING SURFACE WATER DRAIN TO BE ABANDONED
- EXISTING FOUL WATER DRAIN
- PROPOSED PLASTIC INSPECTION CHAMBER (PPIC)
- EXISTING MANHOLE
- YARD/BINSTORE GULLY
- RWP RAIN WATER PIPE
- PROPOSED CHANNEL DRAIN
- SITE BOUNDARY

Description	By	Aprvd.	Date	Rev.
ISSUED WITH DRAINAGE STRATEGY	IAS	AK	31.07.26	P1

PRELIMINARY DRAWING
NOT FOR CONSTRUCTION

Title: DRAINAGE LAYOUT

Project: WORTHING HIGH SCHOOL, SOUTH FARM ROAD

Client: WORTHING HIGH SCHOOL

HOP
CONSULTING CIVIL AND STRUCTURAL ENGINEERS
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Hove, East Sussex BN3 2BE
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Drawing No. 14943-HOP-ZZ-XX-DR-C-0900 Status S0 Rev. P1

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