

SURFACE NETWORK MANHOLE SCHEDULE

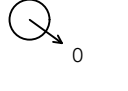
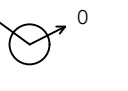
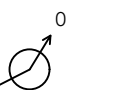
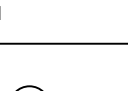
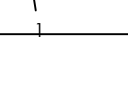
Node ID	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Cover Type	Manhole Type	Connections	Link ID	IL (m)	Dia (mm)	Link Type
S1	275670.241	197547.454	12.900	0.550	450	Class B125	Type 4	 0	1.000	12.350	150	Circular
S2	275679.885	197540.444	12.950	0.725	450	Class B125	Type 4	 0	1.000	12.225	150	Circular
S3	275684.632	197542.878	12.840	0.670	450	Class B125	Type 4	 0	1.001	12.170	150	Circular
S5	275688.744	197549.586	12.752	0.667	450	Class B125	Type 4	 0	1.002	12.170	150	Circular
S6 - Existing Sewer Manhole	275687.870	197555.275	12.842	0.810	450	Existing	Existing	 1	1.002	12.085	150	Circular
Attenuation Tank	275689.634	197549.128	12.752	0.642			GAUF UK Eco Blok Maxx	 0	2.000	12.110	150	Circular



FIGURE B.25
PROTECTION OF PIPES LAID AT SHALLOW DEPTHS
Not To Scale

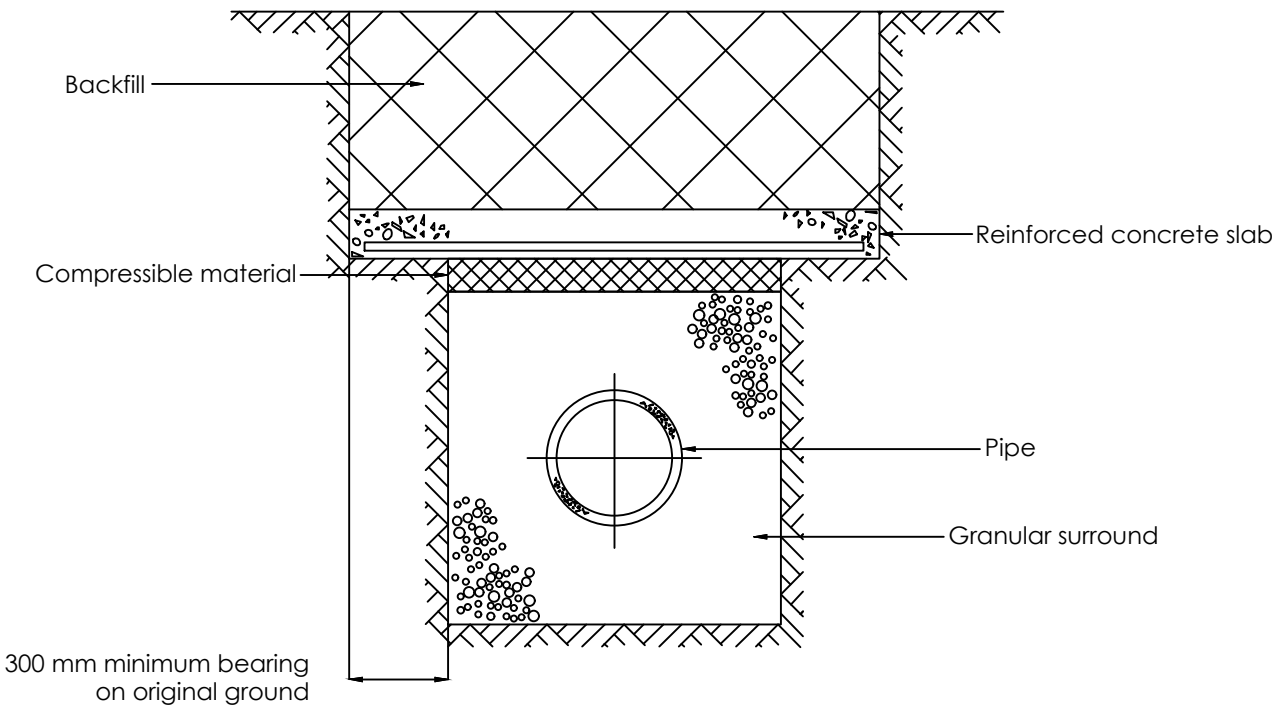
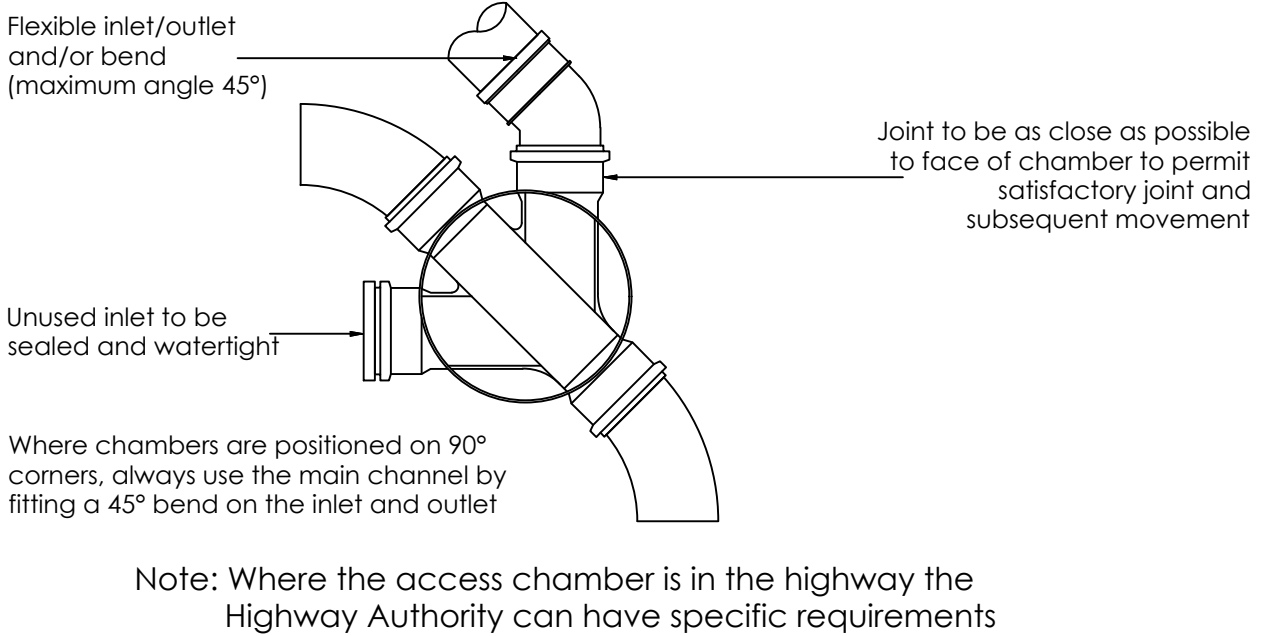
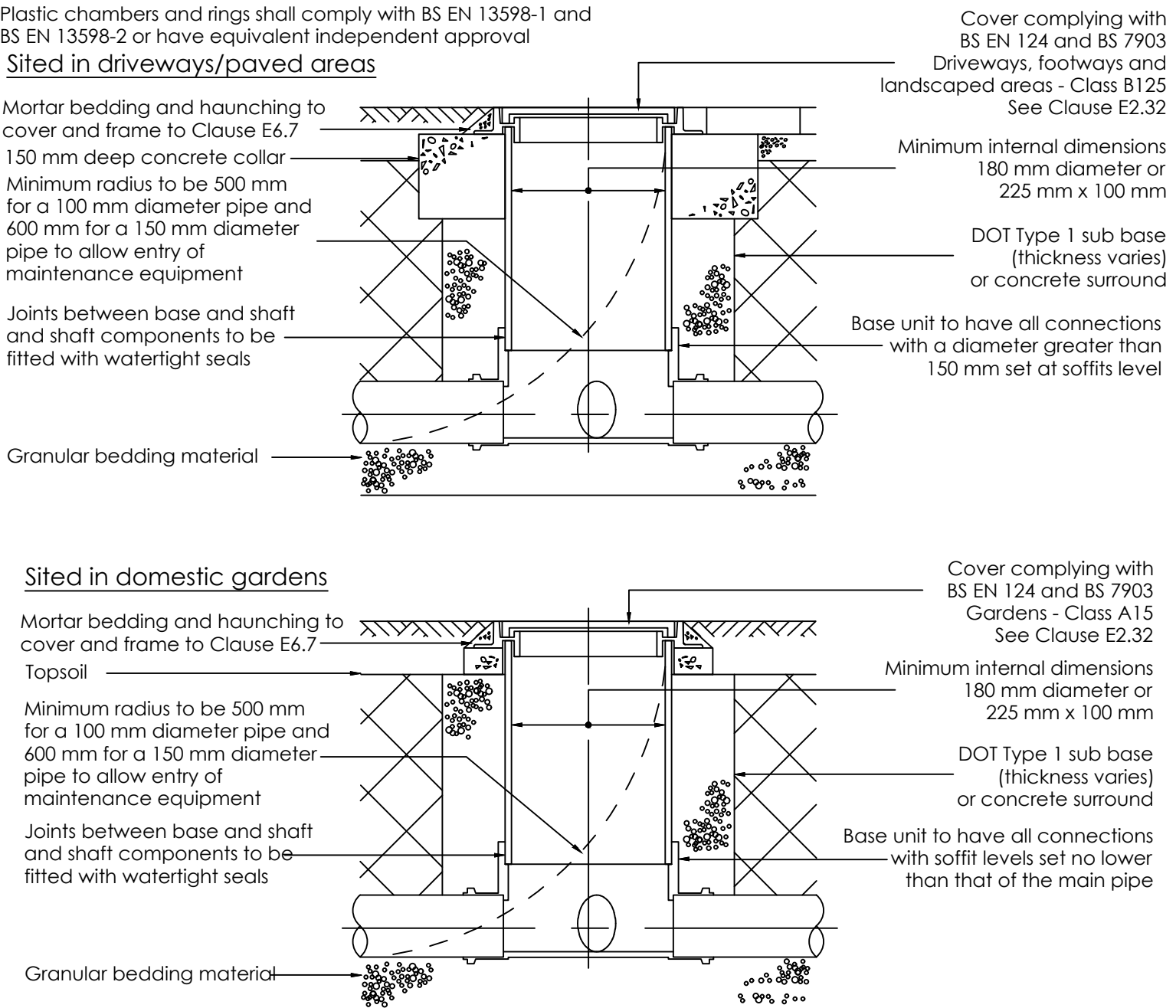


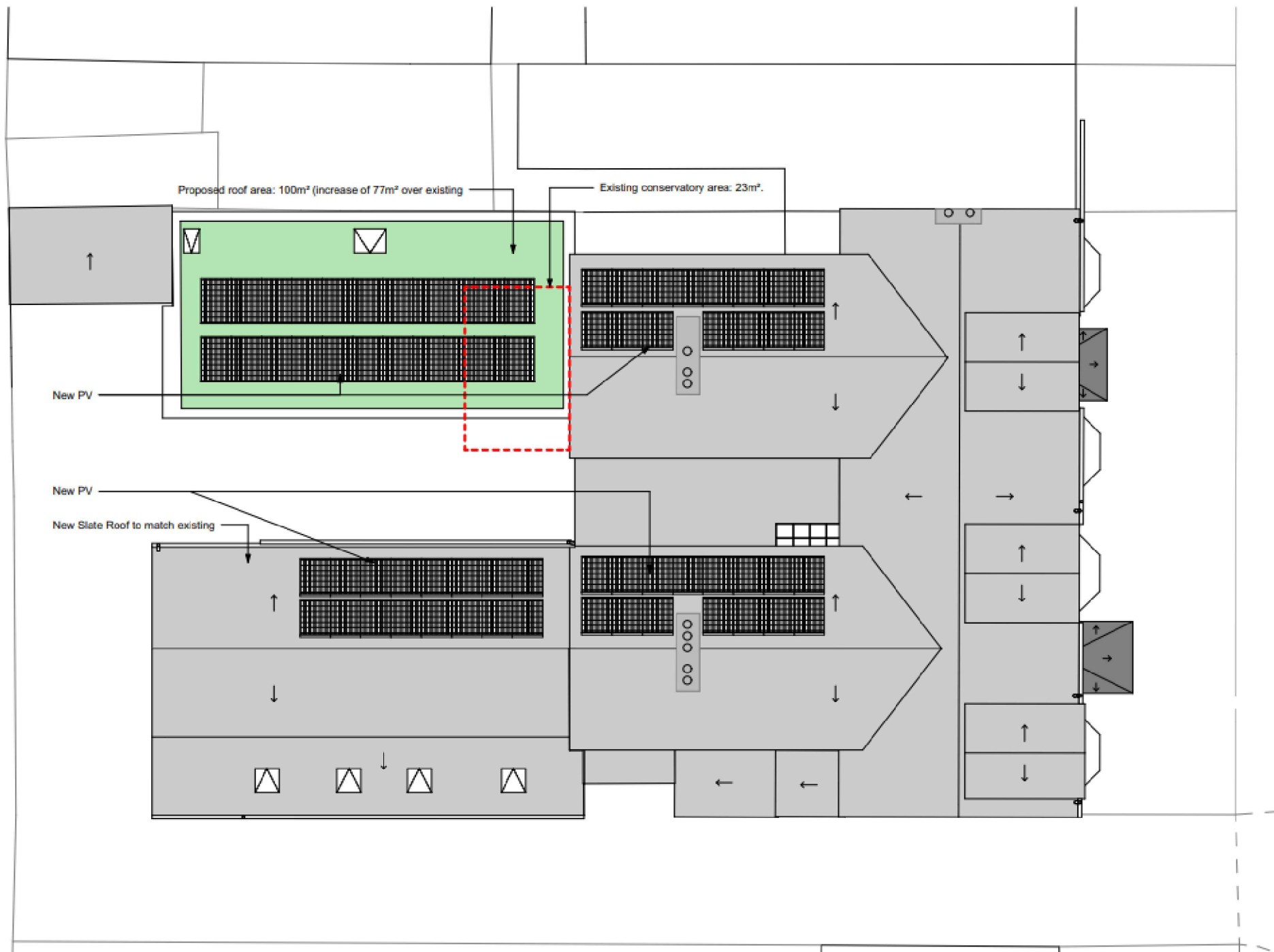
FIGURE B.21
TYPICAL INSPECTION CHAMBER DETAIL - TYPE 4 (Flexible material detail)
Maximum depth from cover level to soffit of pipe 2 m, non-entry
Not to scale

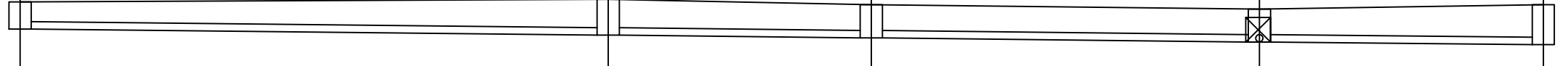


- Drawing Notes
- Site Levels not provided by Cleint. Client and chosen Groundworker contractor to be responsible for checking levels prior to network construction.
 - The developer must self-vet and certify that the design criteria, material standards and workmanship specifications for the proposed adoptable sewers are in accordance with those set out in "Sewers for Adoption" 7th Edition. The Ministers Standards and the requirements of the Statutory Sewerage Undertaker.
 - E232 Manhole Cover and Frames. All chamber openings must have an impermeable surround compliant with SFA 7th Ed requirements. All access covers should comply to SFA 7th Ed dimensions and be supplied with spring/torsion assisted opening, plus have safety grilles fitted.
 - Manhole covers and frames shall comply with the relevant provisions of BS EN 124: BS 7903 and Highways Agency Guidance Document HA 104/09. They shall be of a non-rocking design which does not rely on the use of cushion inserts. All chamber openings must have an impermeable surround compliant with SFA 7th Ed requirements.
 - As a minimum, Class B125 covers shall be used in where vehicular access is possible. All chamber openings must have an impermeable surround compliant with SFA 7th Ed requirements.
 - Class B125 covers shall be used in footways, pedestrian areas and comparable locations. All chamber openings must have an impermeable surround compliant with SFA 7th Ed requirements.
 - All manhole covers shall be the non-ventilating type and shall have closed keyways.
 - All Pipes designed to be PVC-U in accordance with Sewers for Adoption 7th Edition. Approval from (Dwr Cymru) prior to construction.
 - E222 Thermoplastics Structures Wall Pipe.
 - Thermoplastics structures wall sewer pipe shall comply with the relevant provisions of BS EN 13476-1 and WS 4-35-01 and BS EN 13476-2 or BS EN 13476-3. Pipes shall be BS1 kitemarked or have equivalent Third Party Certification.
 - Pipes less than or equal to 500mm in diameter shall have nominal short-term ring stiffness not less than 8kN per m2 (SN8) or be subject to a quality system for storage and embedment.
 - Nominal short term ring stiffness of 2kN per m2 (SN2) is acceptable for pipes greater than 500mm in diameter, subject to structural design load calculations which shall be provided to support this.
 - Transportation, handling, storage and laying shall be in accordance with the manufacturer's recommendations.
 - Where a fitting is installed on a sewer length, it shall have the same internal bore as the sewer. Maximum length of pipe for laying is 3m or 10 x DN, whichever is the greater, unless welded joints are used.
 - The contractor SHALL verify invert level of the proposed outfall PRIOR to commencement of drainage works and report levels to the Engineer for approval.
 - All manholes to be constructed to Dwr Cymru standard adoptable details available online from <http://www.dwrcymru.com>.
 - All pipes to have 150mm granular bed and surround 20mm clean stone or approved alternative.
 - Pipes with cover lower than 500mm will require reinforced concrete slab protection as per Figure 8.25 SFA 7th Edition. Slab to have minimum 300mm bearing each side of pipe and shall consist of 150mm depth of GEN3 Sulphate Resisting concrete complying to E4.1 of SFA7 specification. Reinforcement to be two layers of A393 reinforcement laid with 40mm cover to the underside of the slab.
 - Design based on provided utility information. There may be other services onsite which are unknown that could affect the location apparatus.

***NOT FOR CONSTRUCTION UNTIL APPROVAL
AGREED WITH BUILDING CONTROL AUTHORITY**

PROPOSED EXTENSION



Vert exaggeration = 1.0	S1	S2	S3	S5	6 - Existing Sewer Manhole
Datum = 111.0					
Link Name	1.000	1.001	1.002	1.003	
Section Type	150mm	150mm	150mm	150mm	
Slope (1:X)	1:95.4	1:97.0	1:92.6	1:108.6	
Cover Level (m)	12.900	12.950	12.840	12.752	12.842
Invert Level (m)	12.350	12.225 12.225	12.170 12.170	12.085 12.085	12.032
Length (m)	11.923	5.335	7.868	5.756	



drainageconsultancy.com
SUDS & Drainage Engineering Consultancy Specialist

SCHEME:
27 Gnoll Park Road, Neath

DRAWING TITLE:
Standard Details

DATE DRAWN:	23/06/2026	DATE CHECKED:	23/06/2026
SHEET:	2 of 2	SCALES:	As shown
Drawing No.	DC0249/01/02	REV	A