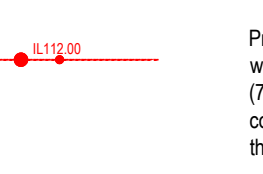


[illegible][illegible]

FWS 1500



Existing Welsh Water Combined Sewer

Private foul inspection chamber - 3.0m deep with restricted access depths over 1.2m (700mm deep unless noted). Where SVP connects to a preformed base, this must be via the main channel

Private surface water drain

Outfall from roof attenuation structure

SuDS Green / Blue Roof

SuDS Blue Roof

1. Do Not Scale
2. The contractor is to check and verify all buildings and site dimensions and levels, including sewer invert levels, before works start on site. The contractor is to comply in all aspects with the current building legislation, British Standards, building regulations etc.
3. Positions of existing services/statutory undertakers apparatus adjacent to or crossing proposed excavations are to be checked by the contractor prior to start of work.
4. This drawing is to be read in conjunction with and checked against all other drawings, Engineering Details, Specification and any structural, geotechnical or other specialist document provided.
5. Any anomaly or contradiction between any of the above is to be reported to the Client.
6. This drawing is schematic for clarity only, positions of pipe runs and manholes may vary on site due to site conditions.

1. All works for adoption under a section 104 agreement shall be carried out to the national water council guide "sewers for adoption" 7th edition (SIAT) and the requirements of Dwr Cymru Welsh Water as the statutory sewerage undertaker and the Welsh ministers build standard.
2. A Section 106 application to connect must be made to DCWW, the developer shall give 21 days notice prior to connection, the works may only be undertaken by a DCWW health & safety approved contractor.
3. Any manholes and catchpits in the British Waterways Federation will be used to lay any adoptable plastics pipes, a copy of the accreditation certificate to be supply to DCWW before any order is placed or work commences on site.
4. Streetlighting positions to be pegged on site and agreed by the Local Authority PRIOR to erection commencing.

1. The planning, design and construction of sewers shall be in accordance with the SFA7 and the Civil Engineering Specification for Sewerage and Drainage Systems (CESW) and the CESW10.
2. Use of this drawing does not absolve the client from his responsibilities under the Health and Safety, The Construction Design and Management Regulations 2015, The Principle Designer is required to ensure that the contractor is aware of this drawing to be used in connection with any construction works.
3. All private drainage to comply with current Building Regulations, BS EN-752 Drain and Sewer systems outside Buildings and other relevant standards and codes of practice.
4. Where NHBC are to be used within the development, the layout of drainage is to be in accordance with NHBC Technical Standards 2024 and relevant Technical Guidance.
5. Where the design includes manhole chamber bases are to use, the main channel must be used for any connecting high flow rate connections (SVPs) in line with manufacturer and NHBC guidance.
6. The minimum size of sewer where gudge bars, safety chains, or other lifting devices are required is 1 meter to 1.5m to SHW Clause 400.
7. All safety chains shall comply with SFA
8. All sewers to be laid soft to sufficient unless otherwise shown.
9. Prior to laying any material the subgrade must be inspected and any necessary remedial works required.
10. It is the Contractors responsibility to locate existing services on site accurately.
11. The Contractor should comply with BS147 "Avoiding Danger from Underground Services" when excavating around existing services.
12. The Contractor is to verify the line, level and diameter of existing sewers before commencing line works.
13. The first manhole upstream of the connection and at locations as shown on drawings, the contractor must fit screens in order to prevent debris entering the public sewer. The screens should be ordered to prevent immediately prior to the occupation of the premises to be served by the sewer.
14. All in-situ concrete and precast concrete components to be manufactured using Sulphate Resisting Portland Cement, (SRPC) to BS 4207, if required, subject to soil conditions.
15. All concrete components must be fully cured and have a concrete surround. Concrete rings shall be sealed using "Toksring" and lifting eyes pointed with resin modified mortar.
16. Any Clay pipes and fittings are to be Vitrified Clay and comply with SFA and relevant sections of BS EN 12956-1 and BS EN 12956-2.
17. All Concrete pipes and fittings must comply with SFA and the relevant sections of BS EN 1916-1 and BS EN 5911.
18. Thermoplastic pipes and fittings to be PVC complying with SFA and the relevant sections of BS EN 1401-1, BS EN 1852, BS EN 12666-1, BS EN 13476-1.
19. Subject to drainage authority approval plastic pipes for gravity sewer, 150mm - 300mm are to be either:-
 - Manley trenchless system
 - Upover ultraflex system
 - Osma ultrabest system
 - Polysewer twinwall system
20. Plastic pipes approved by downs for larger diameter gravity sewers are:
 - Polyptic - rigidsewer (400mm-600mm)
 - Polyptic - rigidstorm (150mm-300mm)
21. Any proposed changes to the SFA must be authorised by DCWW, all flexible pipes shall have a minimum of 6% deformation (calculus may be obtained from manufacturer) and comply with the relevant sections of SFA.
22. Precast Concrete Manholes must comply with SFA and the relevant sections of BS EN 1916-1 and BS EN 5911-3.
23. All levels are to OS datum.
24. Compliance with Health and Safety matters on any trench/manhole is obligatory and a permit to enter a confined space is required when connecting site drainage to the existing public sewerage system. A permit to enter a confined space will be obtained from DCWW prior to the start of any work on the public sewerage system refer to the Classification and Management of Confined Space Entries.

AMENDMENTS



DRAWING TITLE:

Drainage Layout

DRG NO.	PROJECT	ORIGIN	VOLUME	LEVEL	TYPE	ROLE	NUMBER
2806-PHG-XX-XX-DR-C-0001							
DRAWN: TOR	CHK: SJD	PHG JOB NO. 2806			SCALE(S) AT 1: 1:150		
DATE: 28.03.26		SUITABILITY: Planning			REV: P01	STATUS: S0	