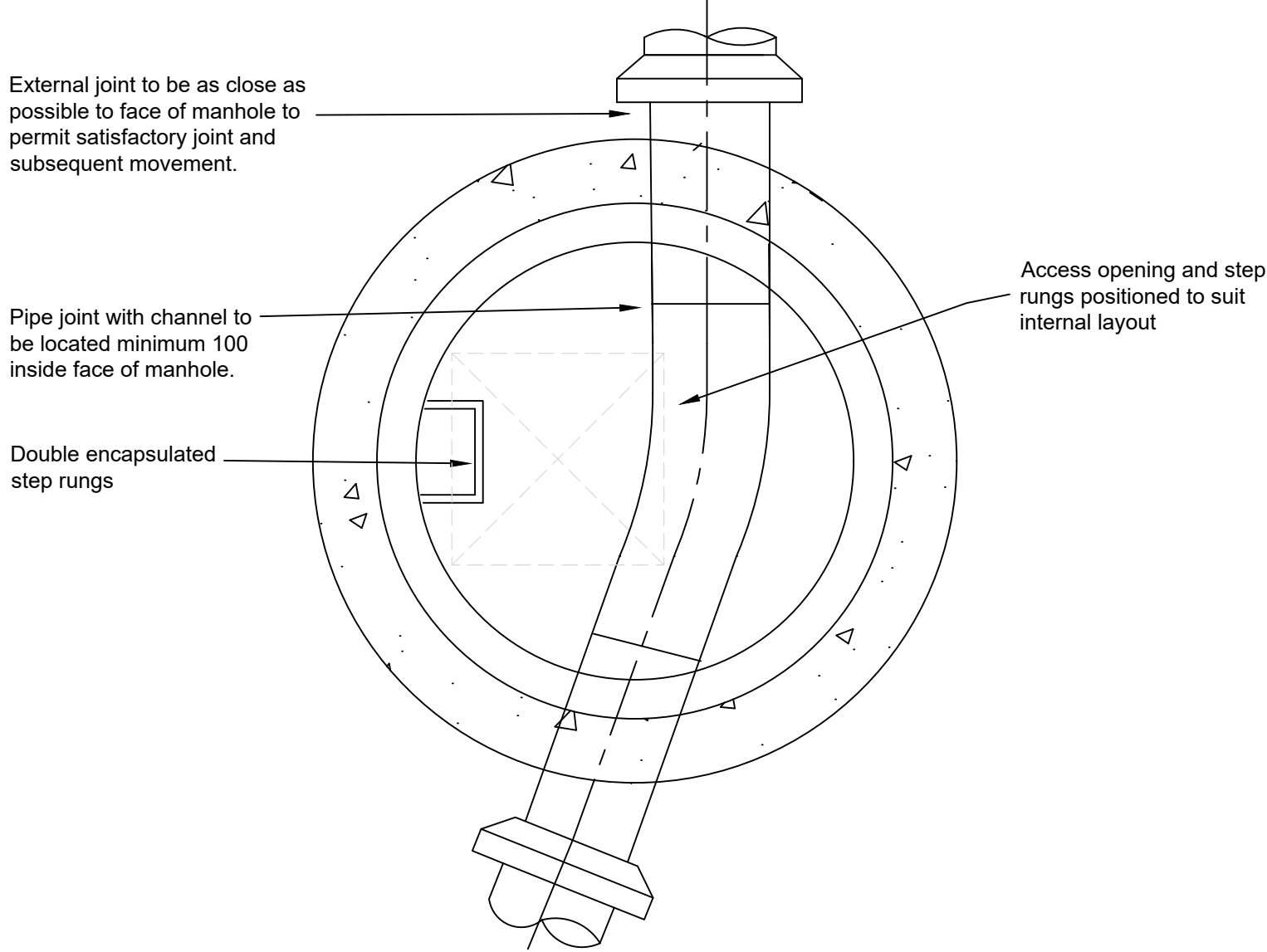
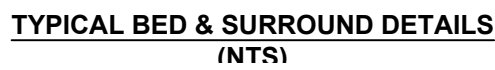




MANHOLE DETAIL TYPE 2

(Depth to soffit up to 3m)

Type 1 and Type 2 manholes may be formed of pre-cast base and thickened rings, omitting the in-situ concrete surround. Chamber walls to be min 125 thick



NOTES:

1. Do NOT SCALE FROM THIS DRAWING. All dimensions are in millimetres unless stated otherwise.
2. New drainage works to comply with and referenced to the Civil Engineering Specification for the Water Industry 7th Edition (CESWI), Sewers for Adoption 7th Edition (SfA) or the Specification for Highway Works (SHW) unless stated otherwise, as appropriate to the adopting authority.
3. All covers for adoptable manholes (Dwr Cymru) to be rated at D400 to BS EN124 and kite-marked. All covers to adoptable chambers (Dwr Cymru) in driveways, footpaths or landscaped areas to be rated at B125 minimum and be kite-marked. Covers to comply with cl. E.2.32 (SfA).
4. All pre-cast concrete manholes to be to BS EN1916:2002/BS 5911-1 2002 and kite-marked.
5. Covers and access openings shall be orientated to ensure adequate access in relation to the chambers' internal layout.
6. All PE or HPPE pipes to comply with BS EN 13244-1 or WIS 4.32-17 and be kite-marked.
7. All vitrified clay pipes to comply with BS EN 295 and be kite-marked. VC pipe strength to be minimum 34kN/m² in accordance with Table 5, BS EN295-1 for pipes up to 150 dia.
8. All concrete pipes to be to BS EN1916 and BS5911-1 and be kite-marked. Concrete pipe strength to be Class 120 in accordance with Table 8, BS5911-1.
9. Bedding fill for Type S bed & surround to be single-sized granular fill in accordance with WIS 4-08-01, sized as below:

Pipe Dia	Aggregate size
100-150	10 or 14mm
225-600	10, 14 or 20mm
10. Rocker pipe lengths to be 600mm.
11. Sewer lengths beneath trafficked areas to be backfilled above the bed & surround with Type 1 or Type 2 granular fill laid (SHW series 2600) and compacted in layers not exceeding 0.3m thick up to the underside of the pavement construction. Sewer lengths beneath landscaped areas may be backfilled with selected excavated fill laid and compacted in layers to suit the material, subject to the Engineer's prior approval of the proposed material.
12. A proprietary pre-formed concrete base may be used in lieu of an in-situ concrete base for chambers 1050 dia and above, subject to the Engineer's prior approval of the system proposed. Overly-thick pre-cast concrete rings may be used for the same chambers in lieu of pre-cast rings and in-situ surround, also subject to the Engineer's prior approval of the system proposed.
13. All mortar, in-situ or precast concrete shall use sulphate-resisting Portland cement to BS 4207. The BRE SD1 rating for this site is to be confirmed on site.
14. ST4 concrete as per cl. 2601 (series 2600 SHW), GENS3 concrete as per cl. E.4.1 (SfA).
15. Refer to the accompanying schedule for manhole and inspection chamber sizes.

Rev.	Date	Revision details	Drawn	Checked	Approved

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Client 

**STATION AVENUE, CHIRK,
WREXHAM**

DRAINAGE CONSTRUCTION DETAILS
SHEET 1 OF 3
ADOPTABLE DRAINAGE - DWR CYMRU

Drawn	NJH	Checked	TD	Approved	TD
Original drg. size	A1	Date	SEPT '19	Scale	NTS
Drawing Status		Drawing Number			Rev.
FOR APPROVAL		108287 - 510			-

Not approved for construction