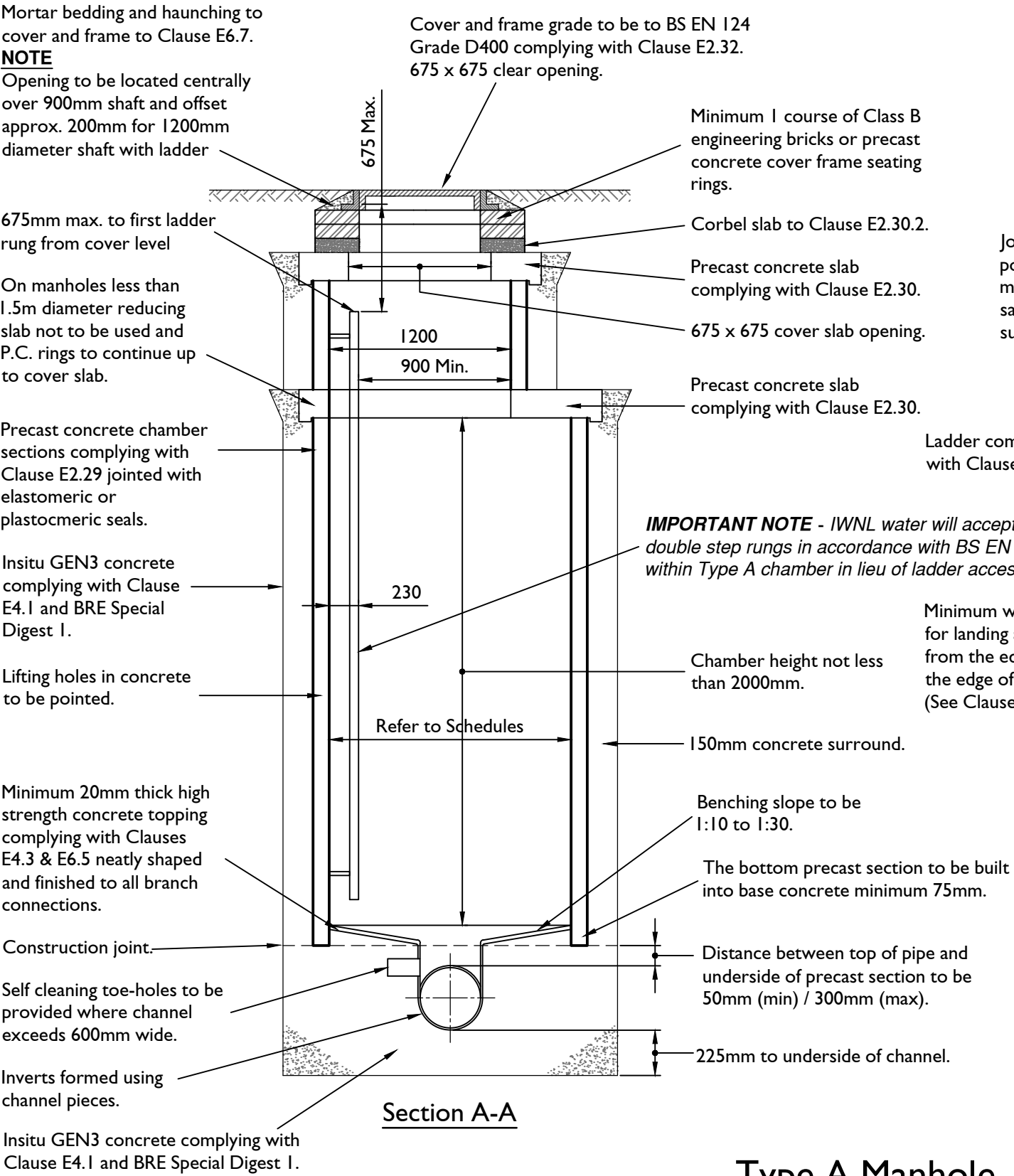
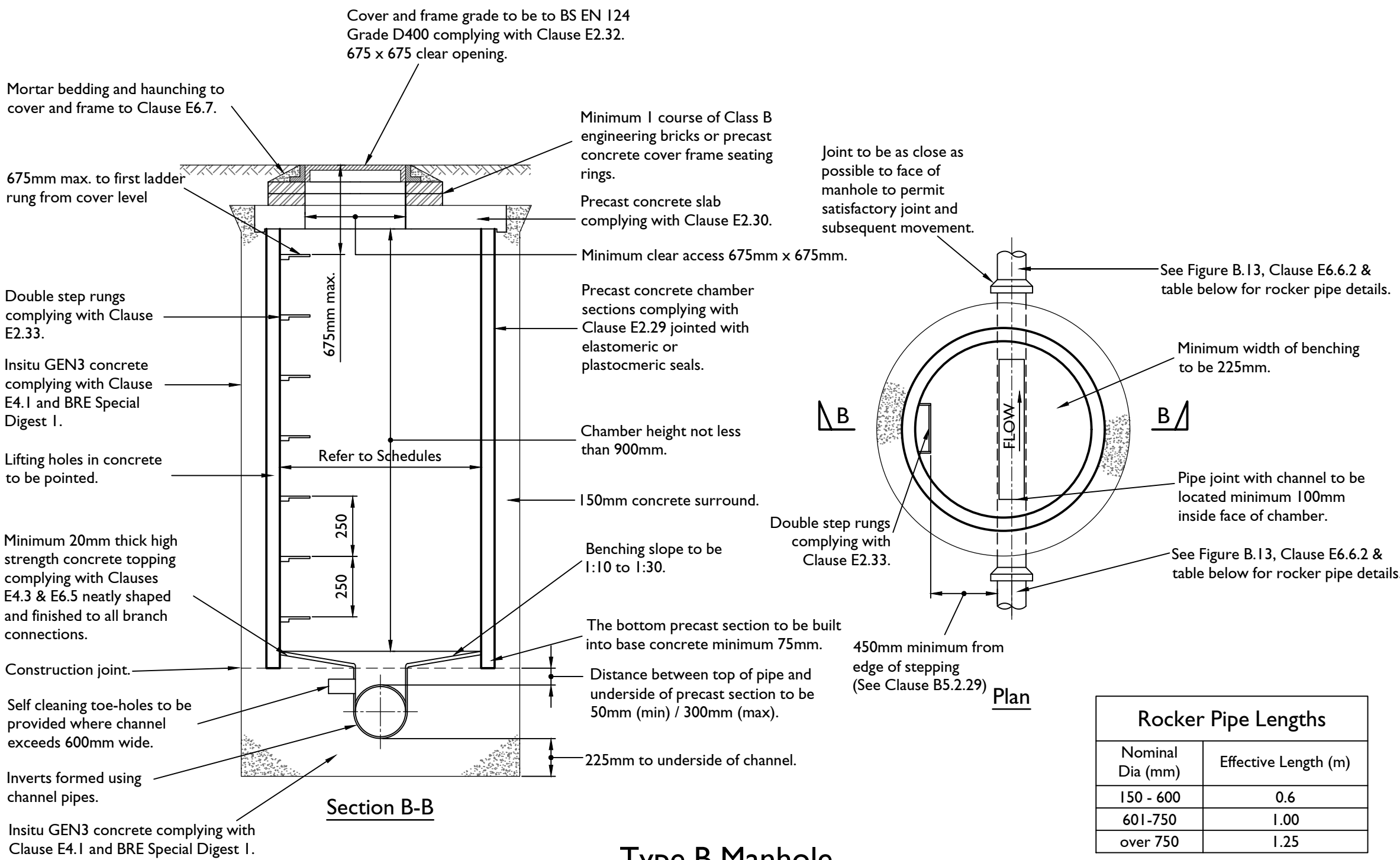




Type A Manhole

Depth from cover level to soffit of pipe 3.0m to 6.0m

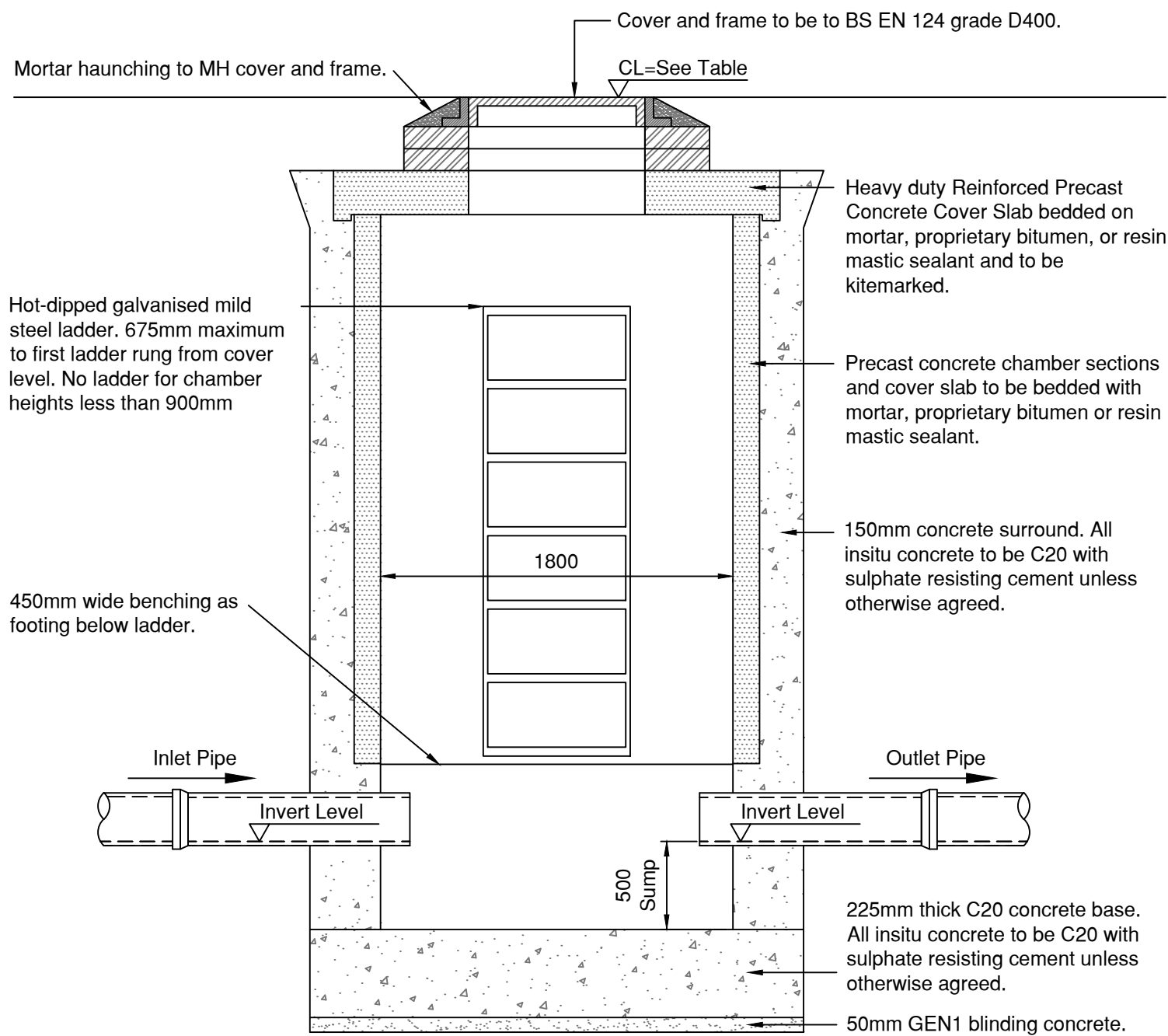
Based on Figure B5 - SSG Appendix C Design and Construction Guidance v2.2



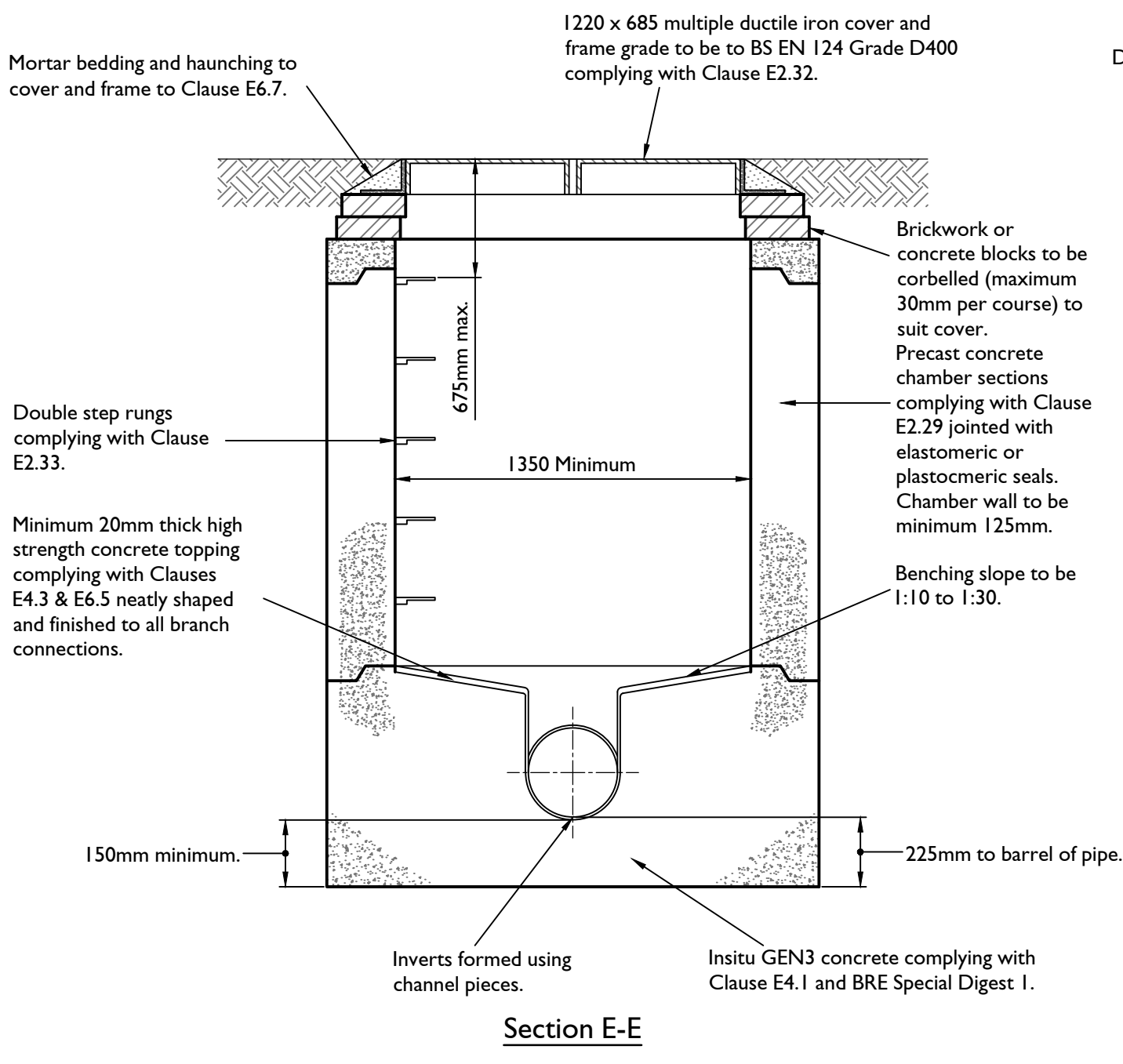
Type B Manhole

Depth from cover level to soffit of pipe 1.5m to 3.0m

Based on Figure B10 - SSG Appendix C Design and Construction Guidance v2.2



Typical Catchpit Construction Detail

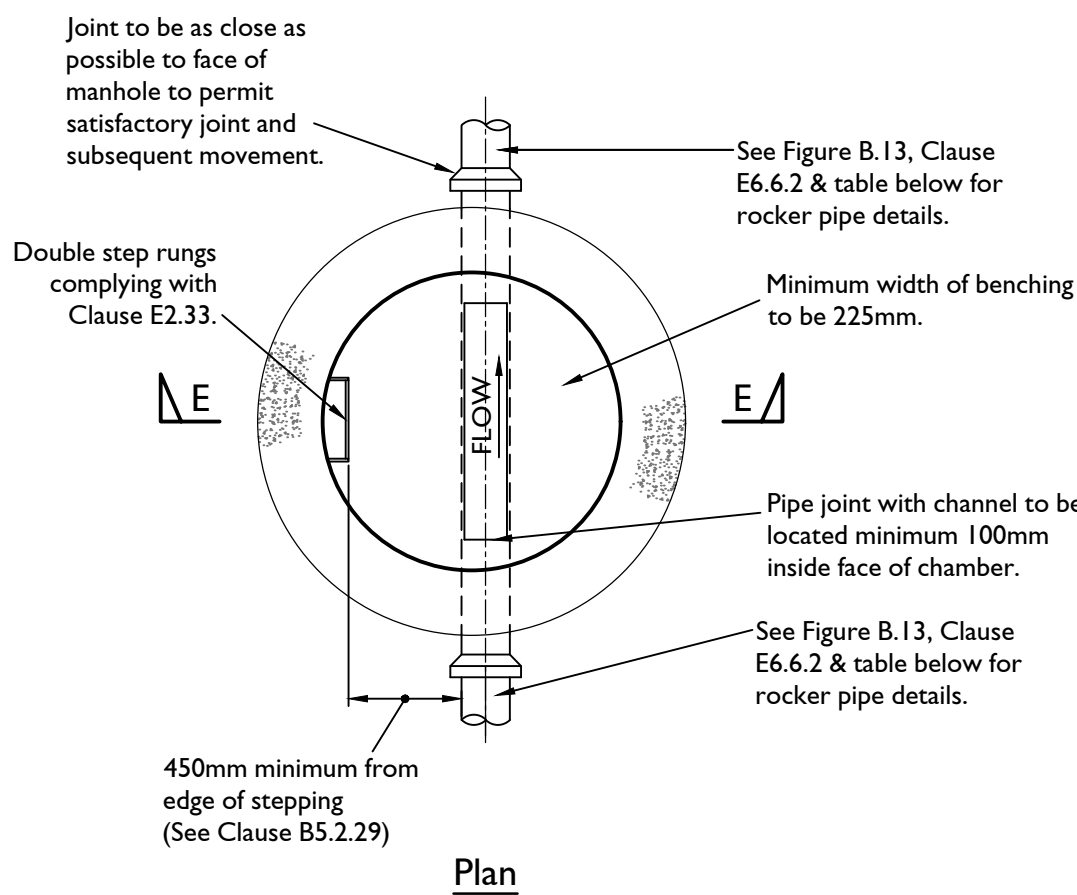


Type C Manhole

Depth from cover level to soffit of pipe less than 1.5m

Based on Figure B15 - SSG Appendix C Design and Construction Guidance v2.2

(Maximum sewer diameter of 450mm)



NOTES

1. Internal dimensions of manhole normally 1350mm but manhole diameter should be increased for pipes larger than 450mm diameter to give 225mm benching in accordance with Clause B5.2.29.
2. The use of precast concrete chamber units to Clause E2.29 with 150mm GEN3 in-situ concrete complying with Clause E4.1 and BRE Special Digest 1 in place of brickwork construction is permitted, subject to Adopting Authority Approval.

Rocker Pipe Lengths	
Nominal Dia (mm)	Effective Length (m)
150 - 600	0.6
601-750	1.00
over 750	1.25

NOTES

1. This drawing should be read in conjunction with other Section 104 Drainage Construction Details, Foul and Surface Water Water Sewer Longitudinal Sections (CIV-4100 to 4110), Section 104 Drainage Layout (CIV-4391), Foul Water Sewer and Surface Water Sewer Manhole Schedules (CIV-4310 to 4311), Domestic Drainage Layouts (CIV-4351 to 4355).
2. All dimensions are in millimetres unless stated otherwise.
3. Do not scale from this drawing. Only written dimensions are to be used.
4. 100mm & 150mm diameter pipework to be extra strength vitrified clay to BS EN 295 or BS 65 on Class S bed & surround.
5. 225mm diameter pipework to be extra strength vitrified clay to BS EN 295 or BS 65 or concrete Class M to BS5911 on Class S bed & surround.
6. 300mm diameter and greater pipework to be concrete Class M to BS5911 on Class B bed.
7. All construction to be in accordance with SSG Appendix C Design and Construction Guidance Approved v2.3 dated November 2023 and the specific requirements of IWNL Water.
8. Refer to geotechnical report for sulphate resisting class and ACEC class.
9. Outgoing pipes greater than 600mm diameter should be fitted with guard bars, safety chains [to BS EN 818-3] or other safety devices in accordance with the IWNL Water safety policy.
10. In the event that Barratt Homes and the on-site contractor have a preference as a business to use plastic pipes instead, then confirmation from the supplier should be obtained that the guarantee of the product is not affected considering the ground reports. They must comply with the following requirements for plastic pipes:
 - SSG Appendix C Design and Construction Guidance Version 2.3 dated November 2023 Clauses E2.21, E2.22 & SN8;
 - Solid Wall PVC-U to BS EN 1401;
 - Spiral Wound Welded HDPE to EN 13476 Parts 1 & 2;
 - Structure-wall Thermoplastic to EN 13476 Parts 1 & 3;
 - Polypropylene to BS EN 1852.

SUBJECT TO PLANNING APPROVAL

CDM NOTES

1. EXISTING SERVICES: Depth of existing services must be determined prior to works commencing. The contractor is responsible for establishing underground services in accordance with HSE Guidance note HS (G) 47. Any services which would be within the proposed construction layers must be lowered to below the sub-base.

INITIAL TENDER ISSUE
SUBJECT TO ADOPTING AUTHORITY APPROVAL

Scale @ A1:

Not to Scale

Rev Date Drawn Checked Authorised

Project:

Crawley Down Road,
Felbridge

Title:

S104 Drainage Construction Details

Sheet 1

Client:



Date: JUNE 2025

Drawn by: AD

Checked by: JC

Authorised by: TRS

Org No: CIV-4318

Rev: