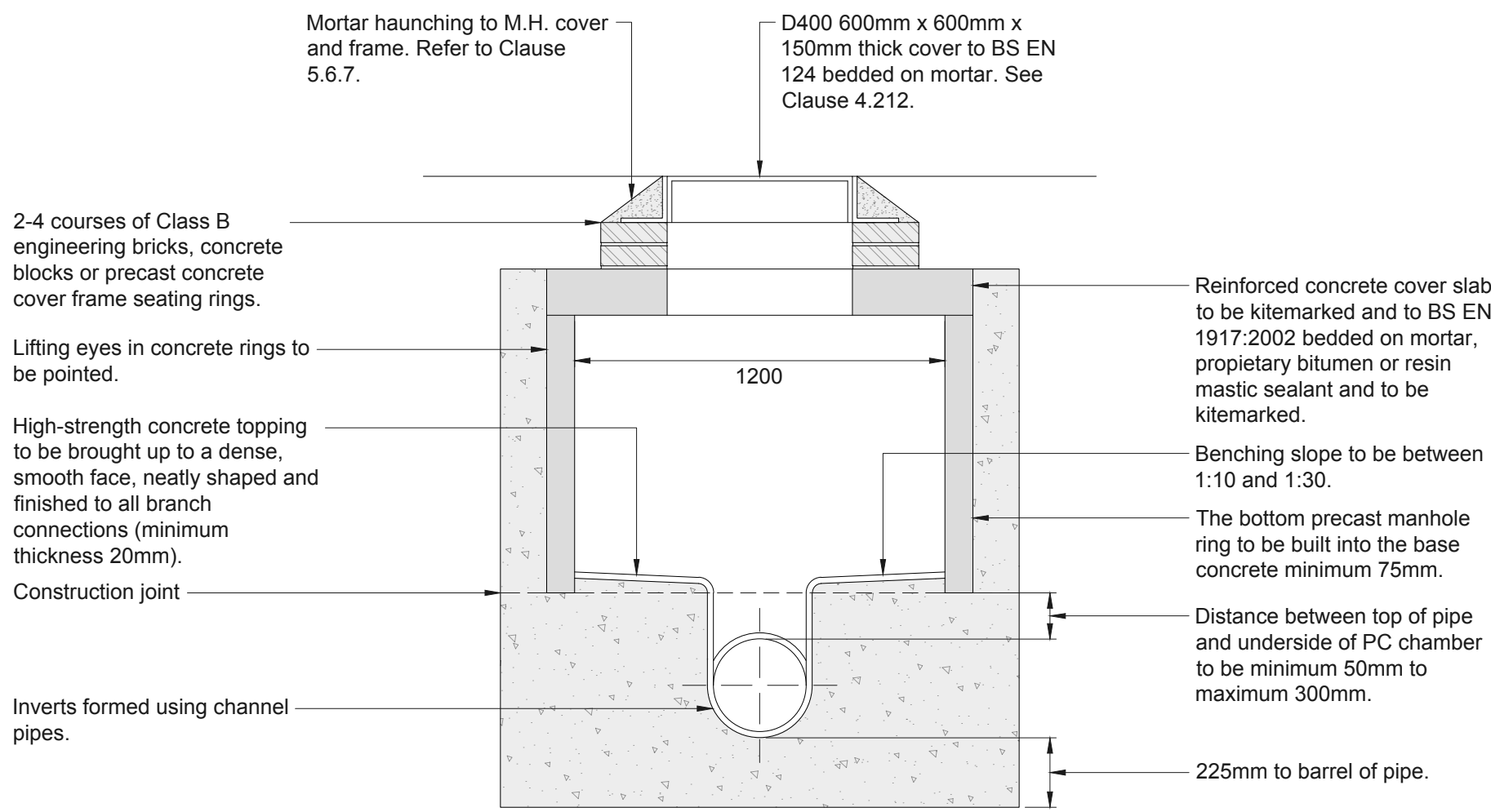
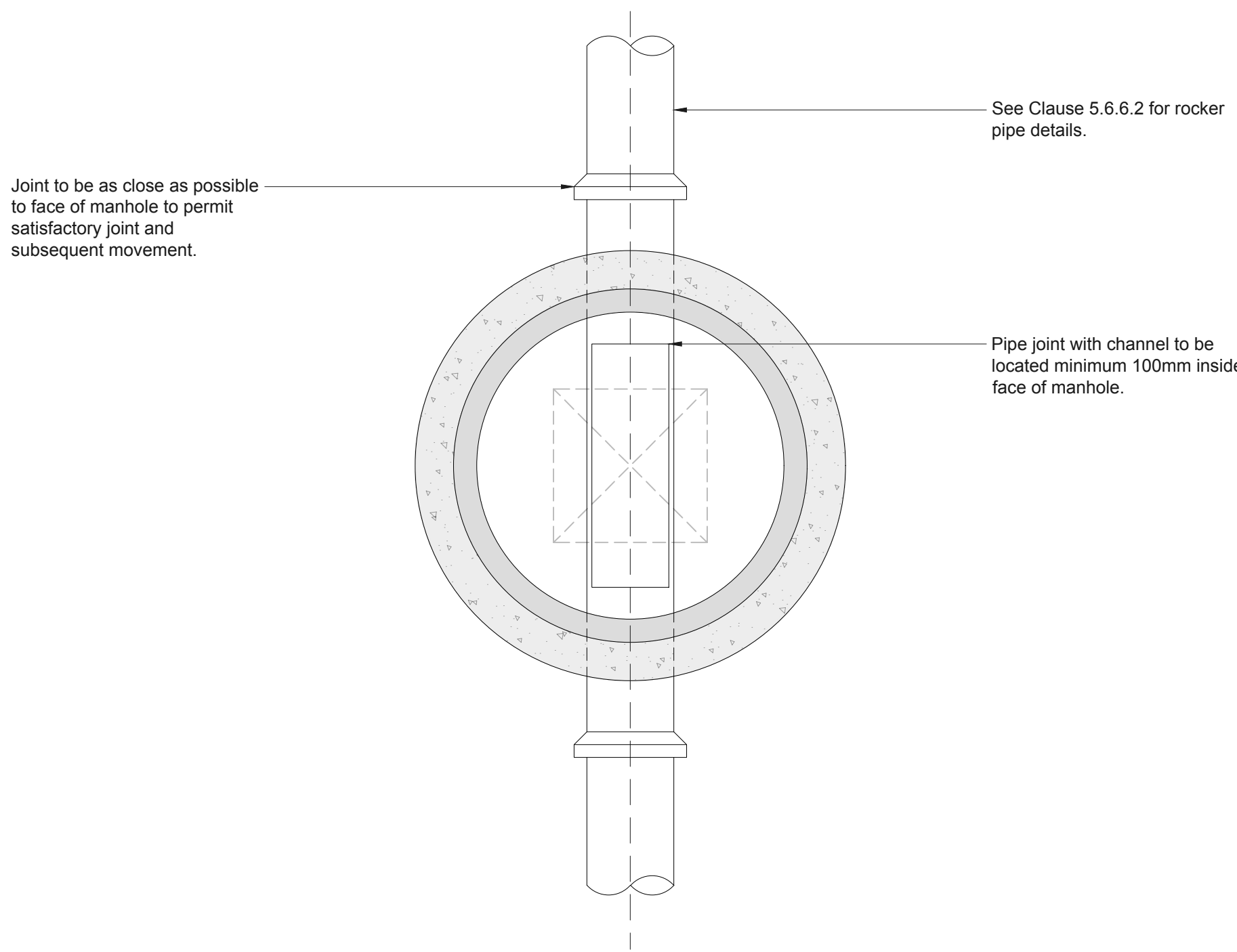
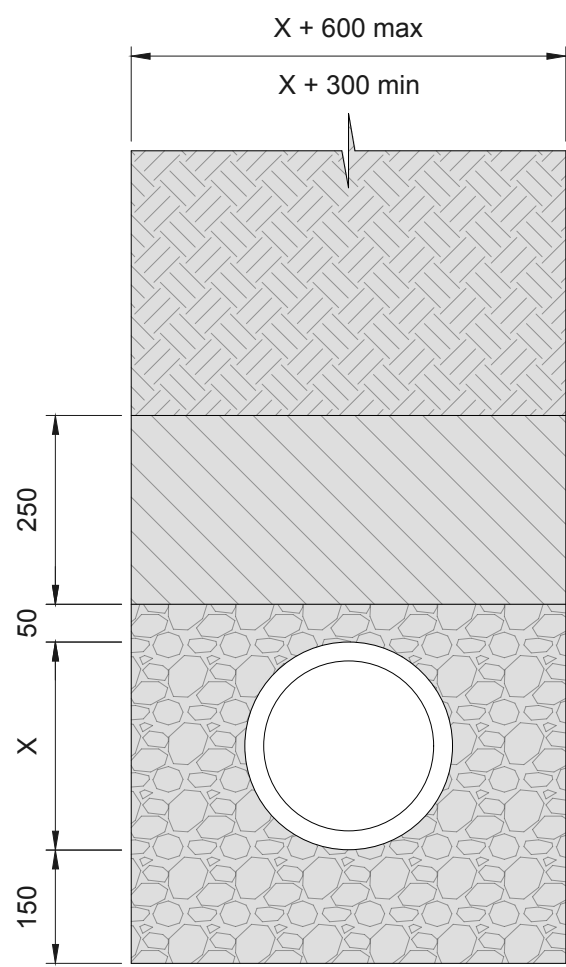




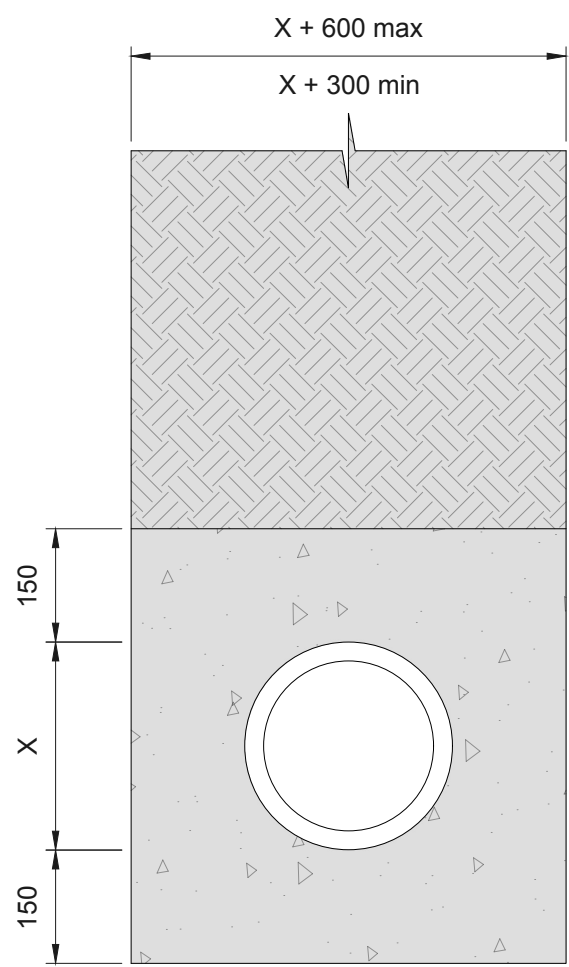
Typical Manhole Detail - Type E - Section
(Scale 1:20)
Depth from cover level to Soffit of pipe 1.000m - 1.500m.



Typical Manhole Detail - Type E - Plan
(Scale 1:20)
Depth from cover level to Soffit of pipe 1.000m - 1.500m.
Maximum sewer diameter 375mm



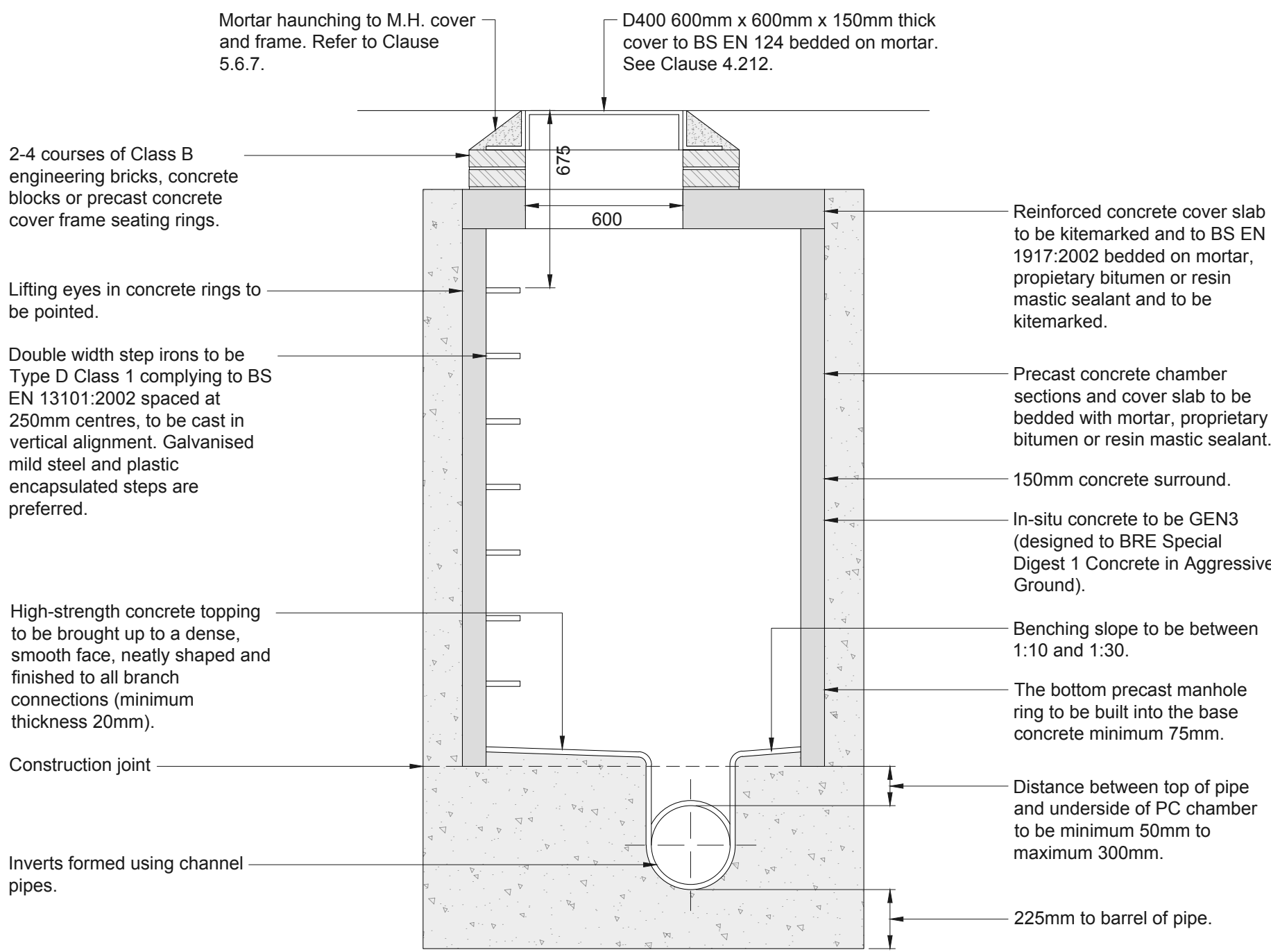
Type "S" Bed and Surround
(Scale 1:10)



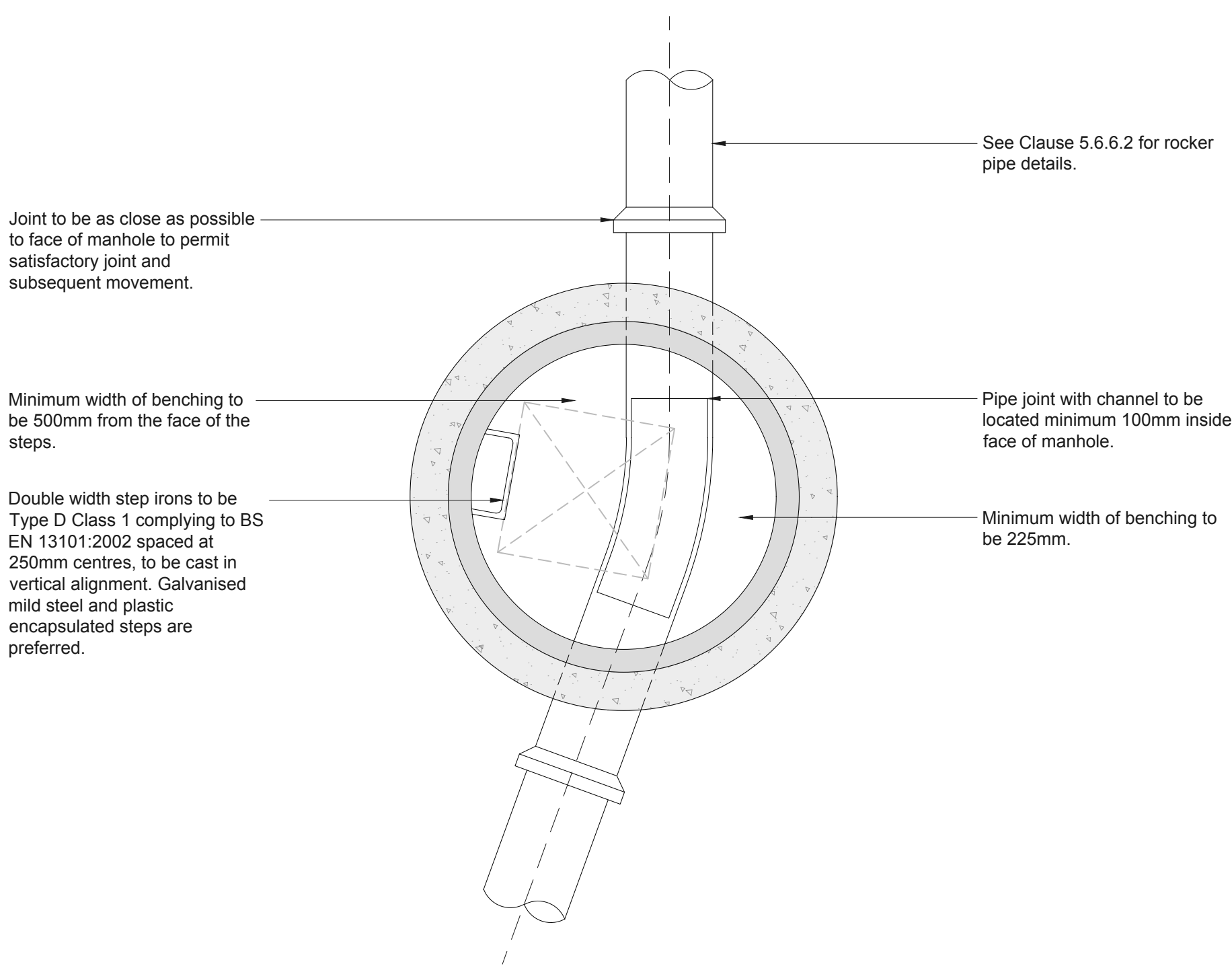
Type "Z" Bed and Surround
(Scale 1:10)

Key

- Type A or C filter material - Graded aggregate either 2/14mm or 4/20mm of either gravel, crushed rock or recycled aggregate.
- Concrete either ST2 or ST4
- Class 8 material - Graded aggregate 0/6mm of either gravel crushed rock or recycled aggregate.
- Backfilled excavated material



Typical Manhole Detail - Type B - Section
(Scale 1:20)
Depth from cover level to Soffit of pipe 1.500m - 3.000m.



Typical Manhole Detail - Type B - Plan
(Scale 1:20)
Depth from cover level to Soffit of pipe 1.500m - 3.000m.

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General Notes

- Do not scale this drawing.
- All dimensions are in millimeters unless stated otherwise.
- This drawing is to be read in conjunction with all other relevant drawings & specifications.
- All proprietary items to be installed in strict compliance with manufacturers instructions and recommendations.
- No works shall commence on site until approval has been obtained from all relevant Agencies / Authorities.
- All dimensions referred to in this drawing must be verified.

YORKSHIRE WATER REFERENCE NUMBER

YORKSHIRE WATER NOTES:-

- All adoptable sewer works and material to be in accordance with "Sewers for Adoption" 6th Edition, The Relevant British/European and Yorkshire Water's Standards/Requirements/Addendum and Kitemarked".
- Manhole covers shall/must have a clear opening of 600mm and shall be Class D400 to BS EN 124 with 150mm deep frames in highways.
- Fill ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Water before any sewer works are carried out.
- Yorkshire Water is not obliged to accept filter drain/land drainage runoff into the public sewer network or adoptable drainage System (directly or in-directly). An alternative method of disposal of the land drainage runoff will therefore be required and you will have to liaise with the Local Authority, Land Drainage Section with regard to the disposal of the filter drain/land drainage runoff.
- Cover slabs must carry the BSI Kitemark or will be rejected by Yorkshire Water Inspector. Where the clear opening of the Kitemarked product is different to that of the cover and frame, a loading bearing slab should be fitted above the cover slab to bring the size down to 600mm x 600mm for the Yorkshire Water specified cover size. Please refer to Concrete Pipe Systems Association (CPSA), 'Technical Bulletin' issued autumn 2004 for Kitemarked cover slab opening sizes.
- Sulphate resistant cement (C20-DC2) and precast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.
- The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
- "Sewers must have 5 metres clearance from trees and hedges (please also refer to Figure 2.3 on page 33 in "Sewers for Adoption" 6th Edition for restrictions on tree planting adjacent to sewers)".
- Sewers to be laid in Class "S" Bedding (150mm granular bed and surround). Where depth of cover to top of the sewer is less than 1.2m in highways and verges (or less than 900mm in none vehicular access areas) then a concrete slab should be provide above granular bed and surround.
- Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (Table A2).
- The chamber size of manholes with more than one connection in them may need to be increased an increment to accommodate the connections and bends.
- Yorkshire Water policy is not to accept Type "C" brick manholes and 1050mm dia manhole rings. Instead it is preferred that you use a type "B" manhole with 1200mm dia or 1500mm dia rings, with the opening sited over the channel where depth of cover to pipe soffit is 1 - 1.5m."

P1	First Issue	14.12.2017
Revision	Description	Date

PRELIMINARY



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Project
Developments by Boutique Limited
Residential Development off Park View,
Brierley, Barnsley

Title
Section 185 Sewer Diversion
Construction Details

Drawn by CB	Checked by SG	Paper Size A1
Drawing Number 06-0075-005		Revision P1
		Scale As Shown
		Date 14.12.2017