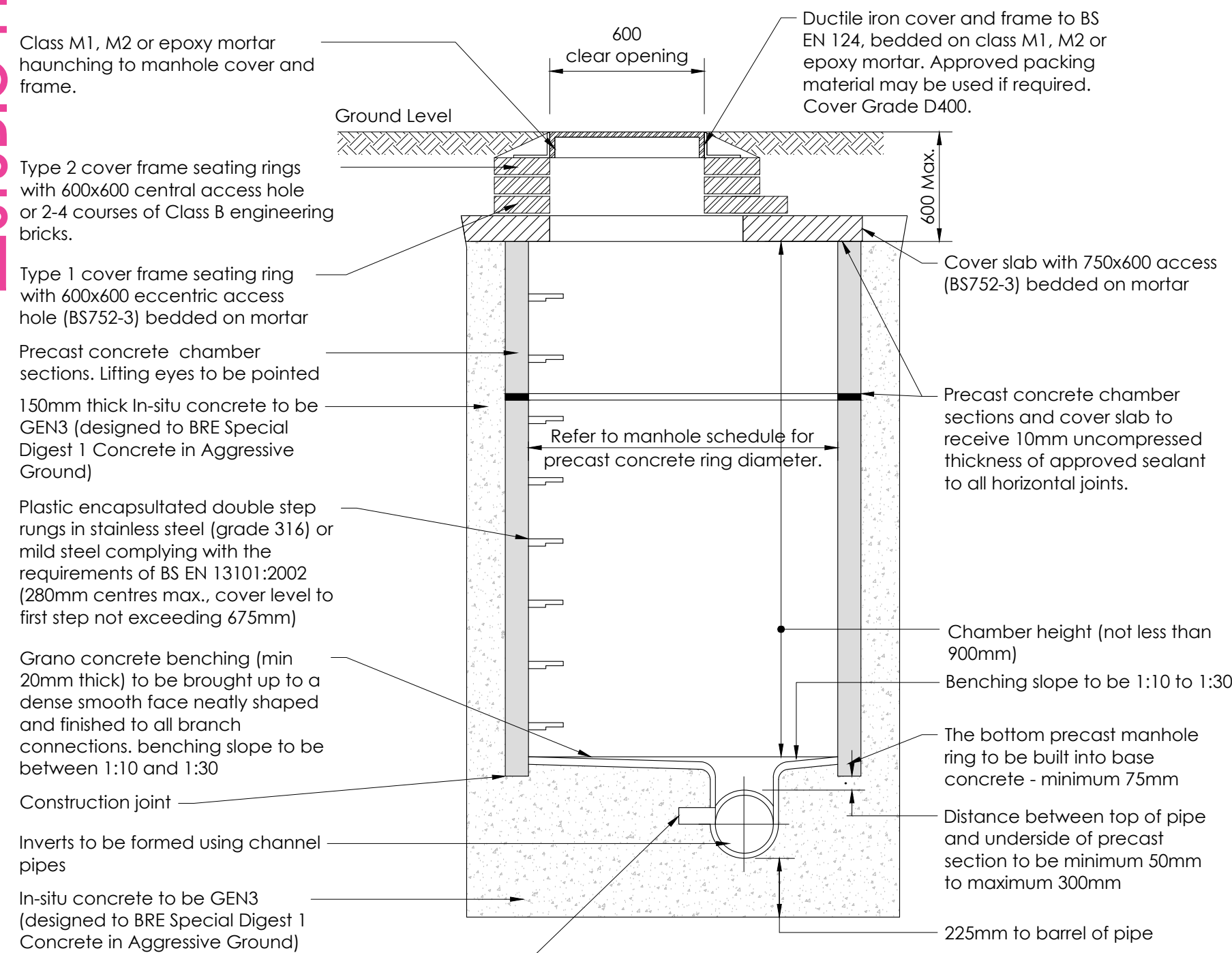


Diameter of largest pipe in manhole (mm)	Internal diameter of manhole (mm)
Less than 375	1200
375 - 700	1500
750 - 900	1800
Greater than 900	Contact Undertaker

Note: Chamber with outgoing pipes 600mm or greater dia. shall be fitted with removable stainless steel (grade 316) safety chains or polypropylene rope.



Section

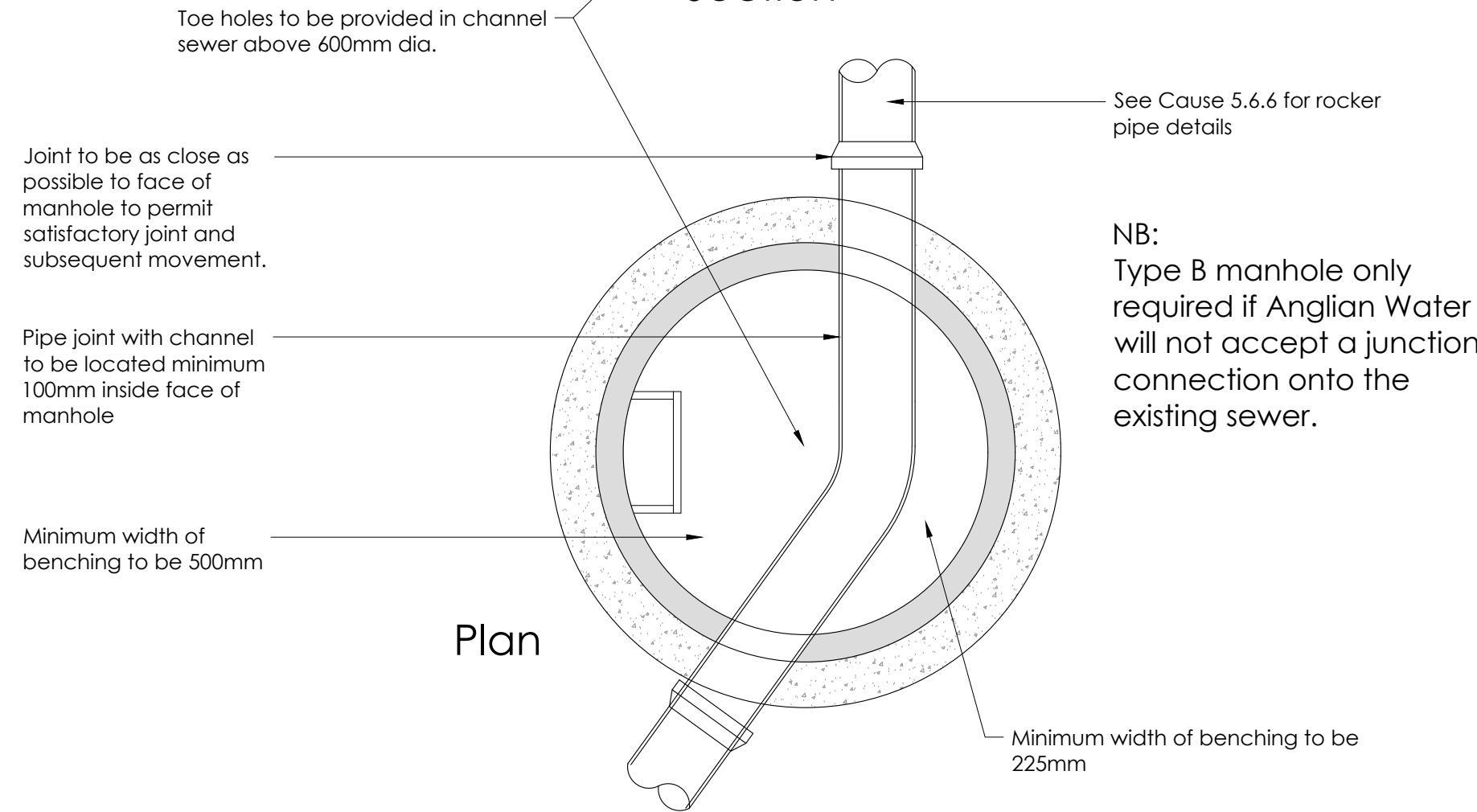


Figure 2.5: Typical Manhole Detail - Type B
(Depth to soffit of pipe 1.5m - 3.0m)
(Scale 1:20)

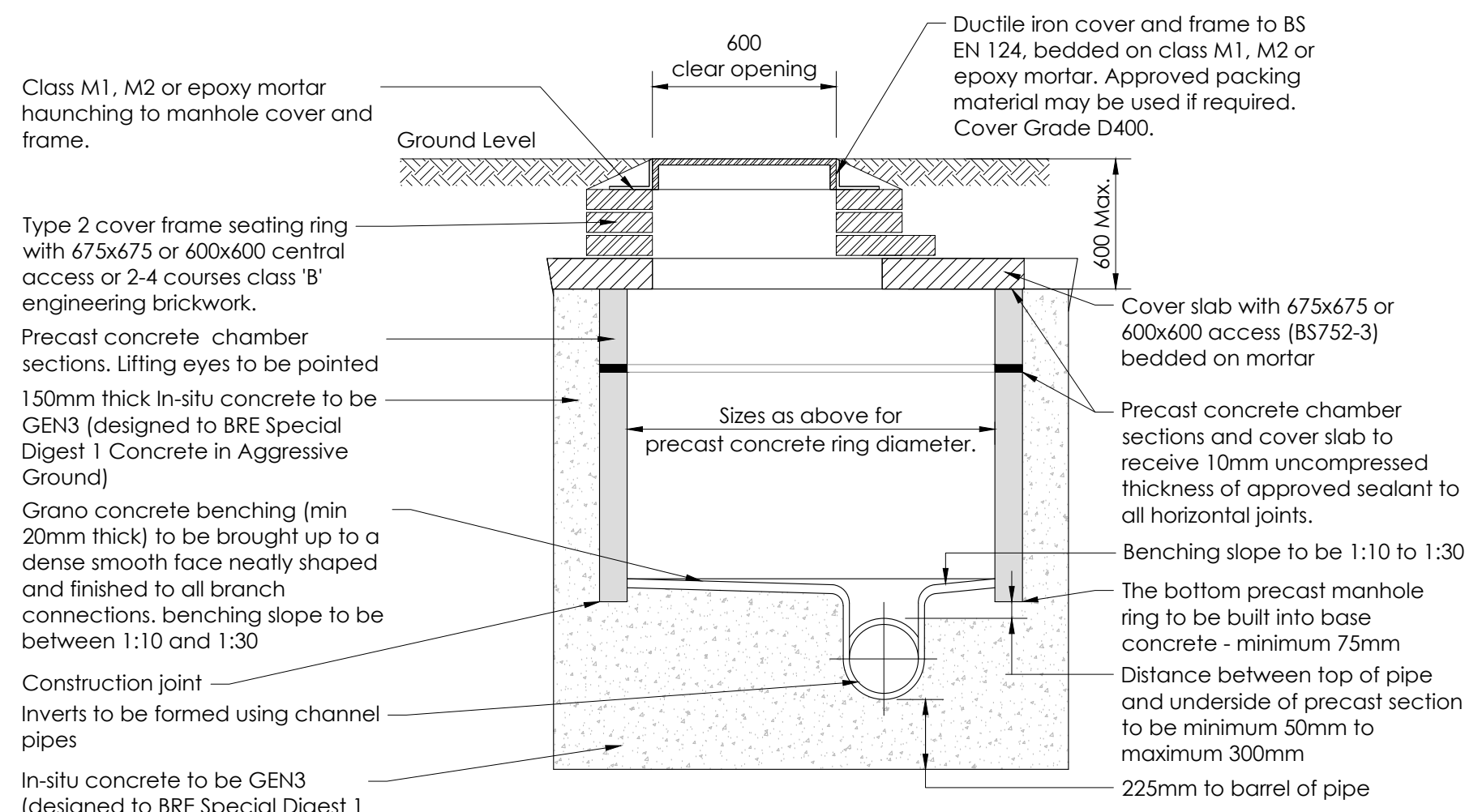
Clause 5.6.6

Nominal diameter (mm)	Effective length (m)
150 to 600	0.6000
675 to 750	1.0000
825 and over	1.2500

5.6.6 Pipes and Joints Adjacent to Structures

1. A flexible joint shall be provided as close as is feasible to the outside face of any structure into which a pipe is built. The Design of the joints shall be compatible with any subsequent movement.
2. The recommended length of the next pipe (rocker pipe) away from the structure shall be as shown in table 5.14
3. Stub pipes into the structures shall be of rigid material.

Dia. of largest pipe in MH (mm)	Internal dia. of MH (mm)
Up to 375	1200
Over 375	Use type B or C



Section

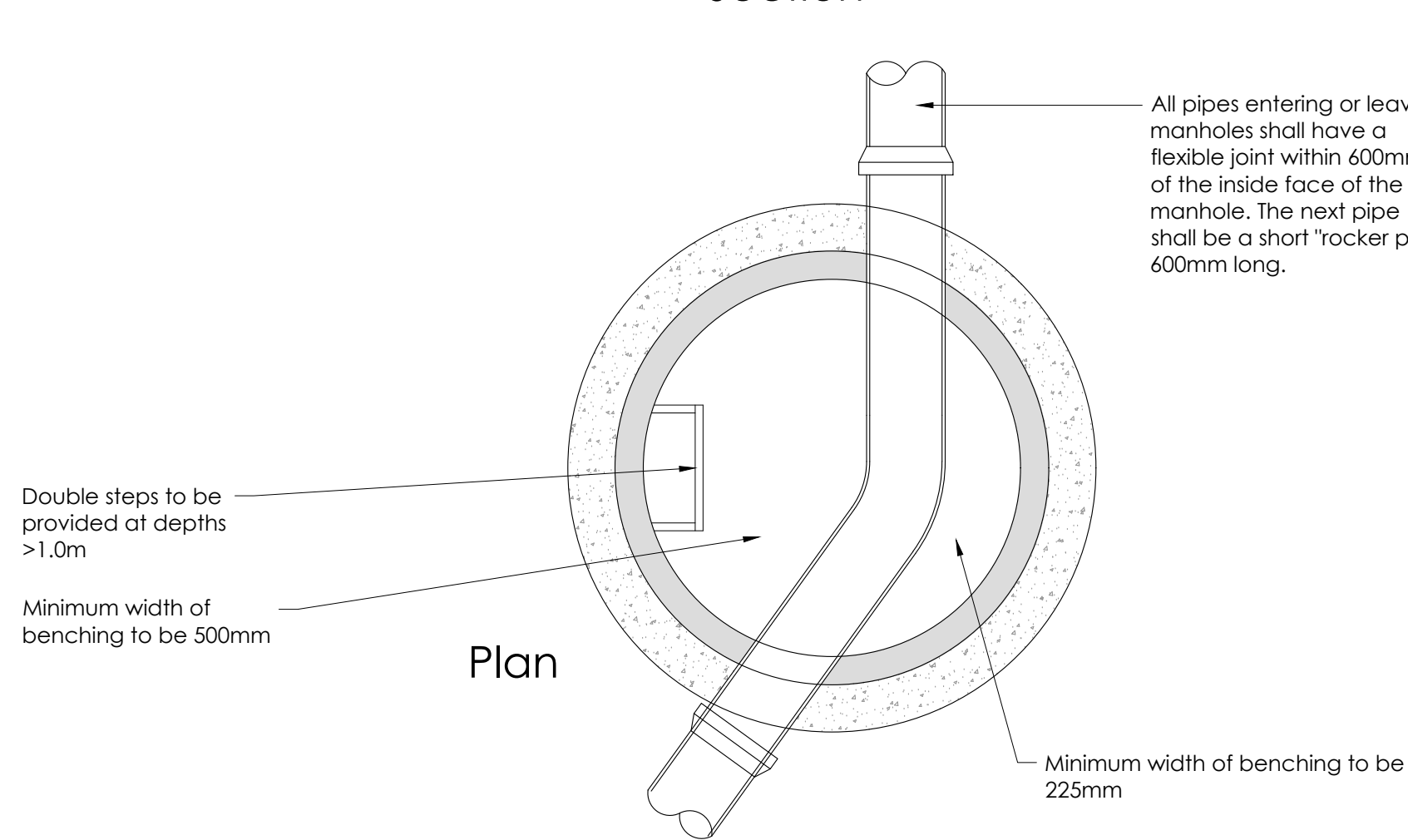
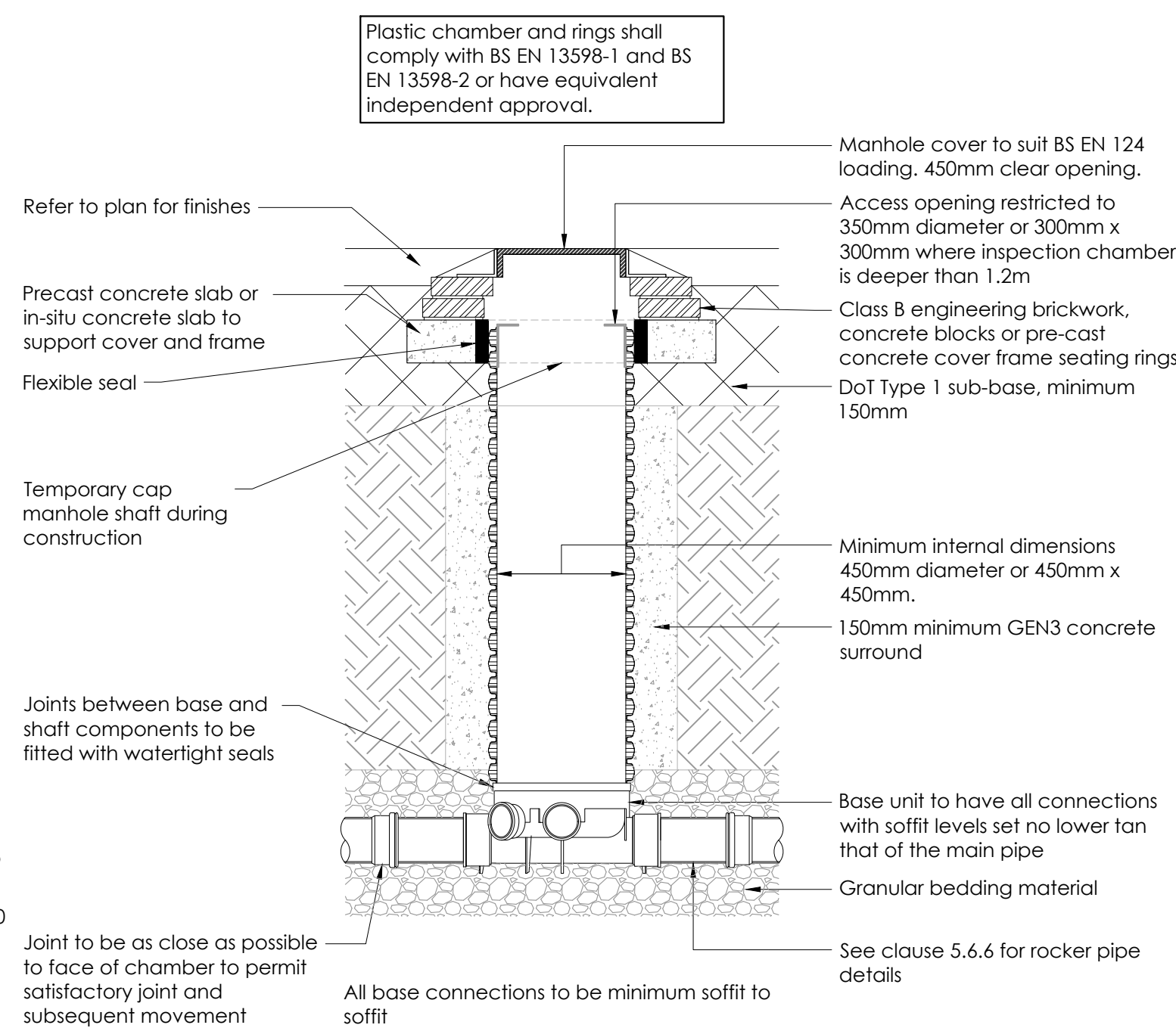


Figure 2.8: Typical Manhole Detail - Type E
(Depth to soffit 1.0m - 1.5m)
(Scale 1:20)



Typical Demarcation Chamber Detail
(Flexible material detail -denoted PPIC)

In areas subject to vehicular loading
Maximum depth 3m (over 1.2m deep - non-access)
(Scale 1:20)

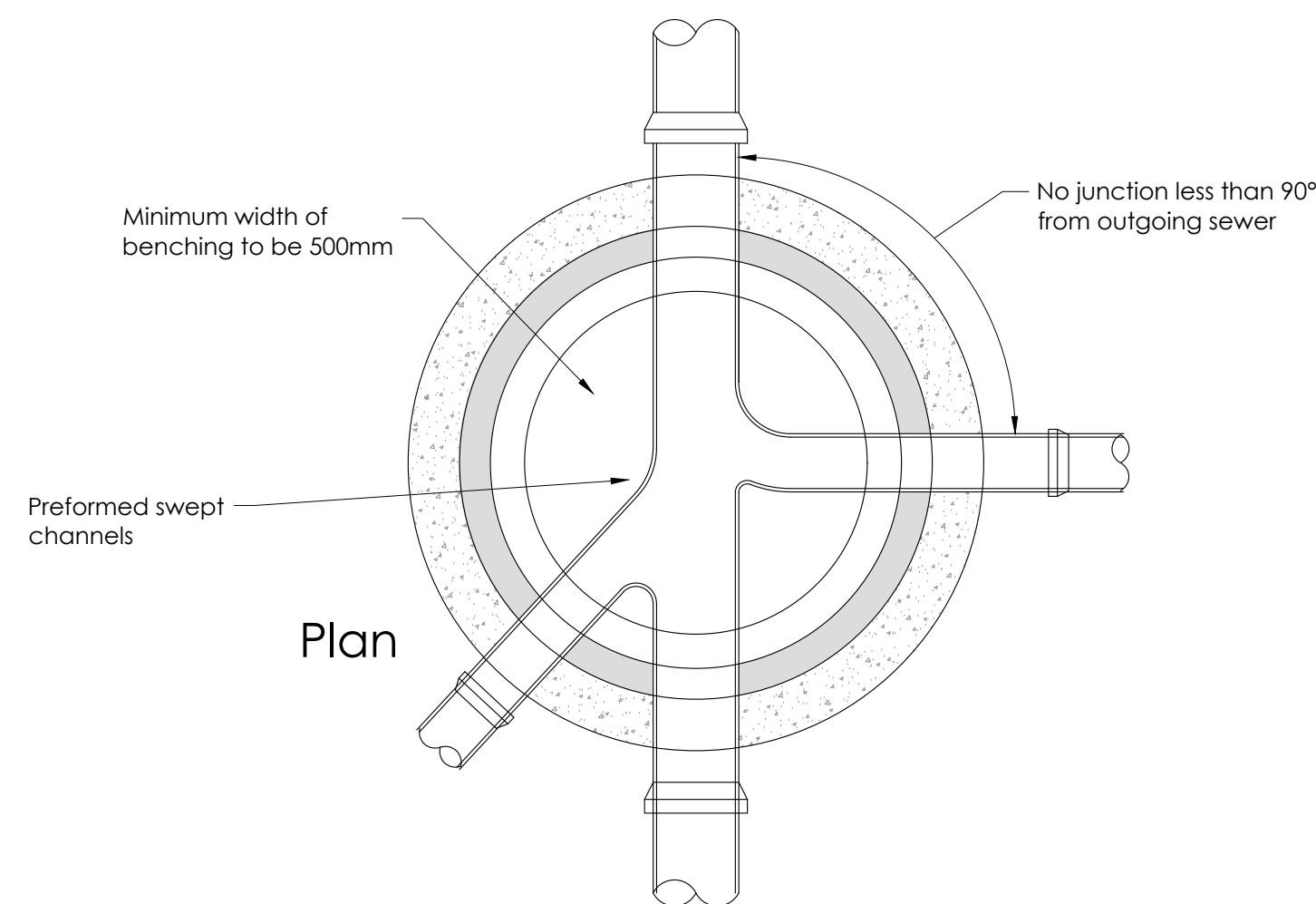


Figure 2.9 Typical Arrangement of Pipe Junctions Within Manholes
(Scale 1:20)

Do not scale directly from this drawing. All discrepancies are to be brought to the attention of the below office.

The copyright to this drawing is owned by studio 11 architecture.

The General Contractor is to check all dimensions on site and report discrepancies to the designer.

The details and information shown hereon relating to existing underground drains, main services, cables, etc. and existing structural details, are as obtained by normal survey observation method. Although all reasonable effort has been made, no guarantee can be made or given for the completeness or accuracy of this information.

Notes:

1. All drawings to be read in conjunction with Structural Engineers Drawings.
2. All plans are drawn in meters unless noted otherwise.
3. Drainage design in accordance with Sewers for Adoption 6th edition.
4. Road design in accordance with Lincolnshire County Council – Development of Road and Drains (Traffic Engineering and Construction), and any specific requirements of the approving highway officer.
5. Estate road materials to be in accordance with Lincolnshire County Council specifications.
6. All manhole locations on the adoptable Highways to have a minimum cover grade of D400, be 150mm thick and to be marked FW and SW to denote foul water and surface water, respectively.
7. It is proposed that all laterals from plots are to be adopted.
8. Final connection point levels and locations need to be confirmed prior to commencement of construction.
9. All property items to be installed in strict accordance with the manufacturers instructions and recommendations.
10. All works to be carried out in accordance with the current British Standards. Codes for practice and Building Regulations.
11. Manholes and coordinates are given to the centre of manholes.
12. Groundwater to surface offsets allow minimum benching requirements and offsets from kerbs.
13. Generally the first inspection chamber located in the private areas is a demarcation chamber for the A19 adoptable lateral. Cover grades to be:
 - D400 – adoptable areas and the main access way,
 - C250 – paved parking
 - B125 – private domestic car parking (single dwelling)
 - A15 – soft landscaped and non-vehicle areas
14. All drawings need to be read in conjunction with each other, any discrepancies must be reported back to the engineer immediately.
15. Any sewer pipes must be at least 1.2m of cover to the top of pipe in the adopted carriageway, less than 1.2m for adopted vehicular crossover are to receive a concrete cover slab. Where there is very little cover, the pipe is to be ductile iron - refer to longspans for material type.
16. Outside of manhole construction and outside of pipelines may be at least 0.5m and 1.0m respectively, from the kerb/edge. Sewers might need to be offset in the manhole to achieve this.
17. All details are to be read in conjunction with Anglian Water's standard adoptable drainage details - available from Anglian Water upon request.

C	09.03.2020	S11	Client details updated.
B	12.12.2019	S11	Drawing generally updated.
A	18.03.2019	S11	First Issue
REVISION	DATE	DRAWN	DESCRIPTION



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CLIENT	Belmont Contractors		
PROJECT	Residential Development @ Land off Old Main Road, Fleet Hargate		
DRAWING	Section 104 - Anglian Water Drainage Details Sheet 1 of 3		
DRAWN S11	PROJECT DESIGNER LAR	PROJECT DIRECTOR KB	
DATE 18.03.2019	SCALE As Shown	PAPER SIZE A1	

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