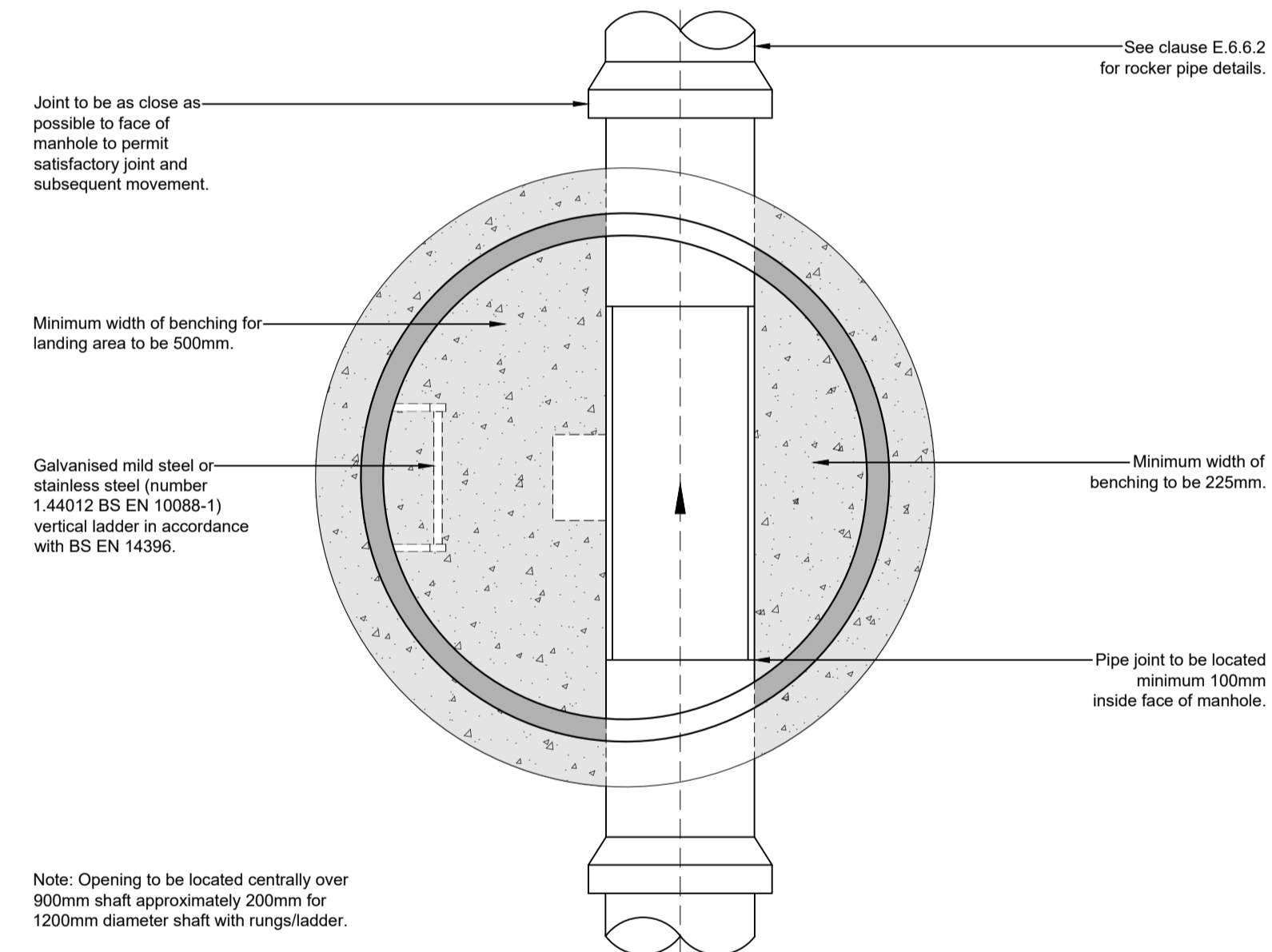
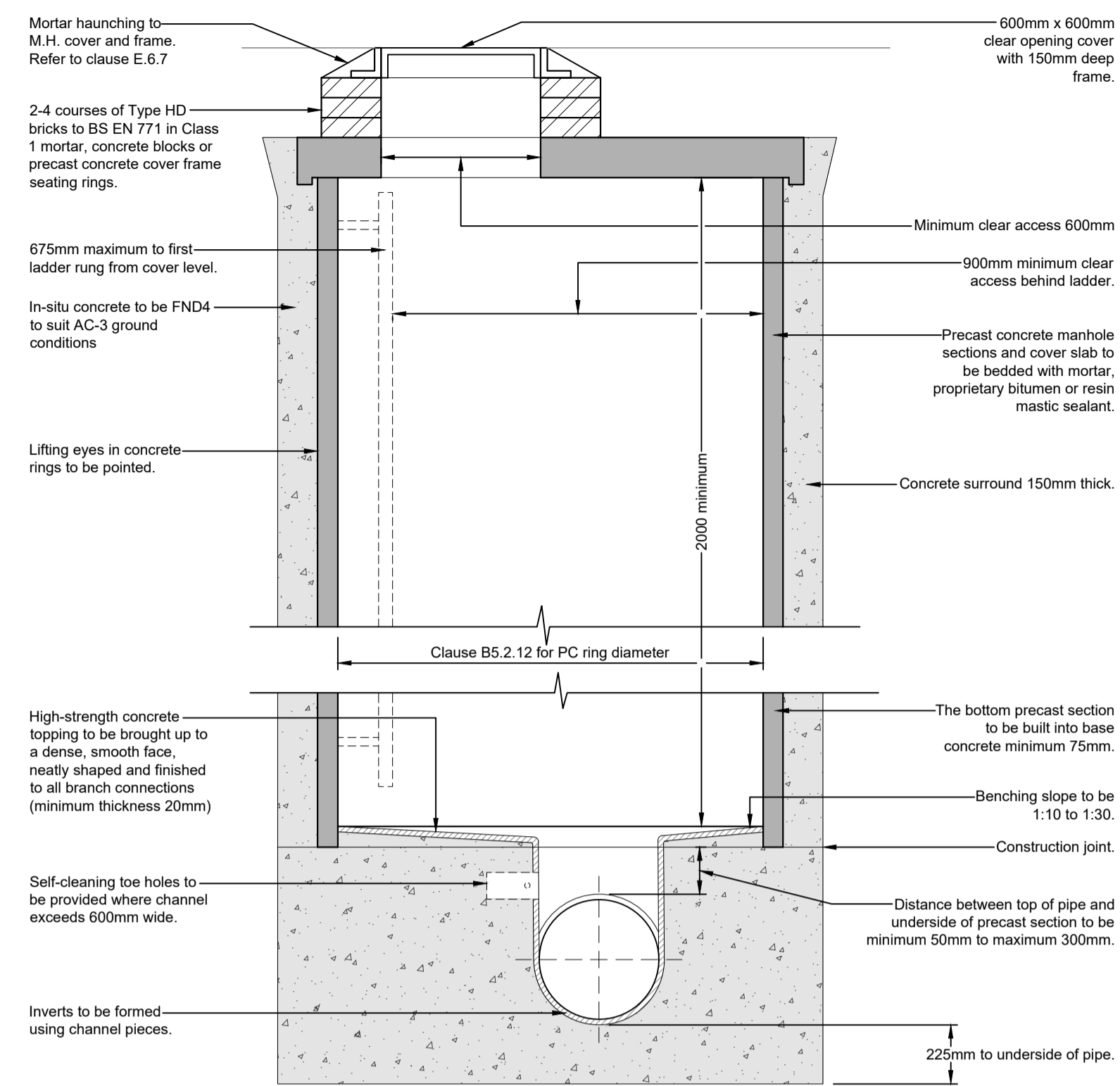


- This drawing has been prepared in accordance with the scope of RPS's appointment. RPS accepts no liability for any use of this document other than by its client and only for the purposes for which it was prepared and provided.
- If received electronically it is the recipient's responsibility to print to correct scale. Only written dimensions should be used.
- This drawing should be read in conjunction with all other relevant drawings and specifications.
- 'Pipes' refers to gravity sewers, drains and rising mains
- For concrete information, refer to specification
- Drainage pipe class 'Z' works to be:
 - Concrete conforming to BS 8500: Part 2: 2006 and BS EN 206: Part 1: 2000
 - Concrete designation = As per concrete specification
- All external gully gratings and frames to be manufactured to meet the load requirements of BS EN 124/FACTA. The gully and frame should be chosen from the following grades to suit the particular location and anticipated loading condition
 - Class D400/D - All carriageways and lorry loading/parking bays
- Where proprietary products are specified the contractor may offer an equal or superior quality alternative to the contract administrator for approval
- Frame to gully grating to be free of gussets and 150mm deep.
- The pipes are to be selected by the contractor to have a suitable strength for the service conditions. The beddings shown are the minimum requirements. The contractor must ensure that the bedding provided is suitable for the selected pipes and loading conditions. Details of proposals for the pipes and beddings are to be submitted to the contract administrator for approval before the work commences
- All pipes are to be suitable for main road traffic unless specified otherwise.
- If the trenches are to be trafficked before the completion of the handover the contractor should provide any necessary protection as recommended by the pipe manufacturer's
- Class Z concrete bed and surround to be provided to pipes where depth of cover is less than 900mm below finished levels. Flexcell to be included at all joints as recommended by the manufacturer. Elsewhere, unless specified otherwise, all pipes to Class B bed and Class S surround. This may also be acceptable for rigid pipes subject to agreement of the contract administrator before work commences.
- Backfill to trench above specified pipe surround as follows:-
 - Below roads & paving: Type 1 material to Specification for Highway Works Clause 803 compacted in 150mm layers.
 - Below structures & floor slabs where the depth of cover from underside of slab to crown of pipe is 300mm or more: Type 1 material to Specification for Highway Works Clause 803 compacted in 150mm layers.
 - Below structures & floor slabs where the depth of cover from underside of slab to crown of pipe is less than 300mm: Encase in concrete to same mix as slab & cast integrally with slab - Adjacent to structures: Backfill with concrete as required by Building Regulations & described in the accompanying specification
- If required generally by the contract or dictated by site conditions concrete shall be sulphate resisting



TYPICAL DETAIL OF TYPE A MANHOLE

Depth from cover level to soffit of pipe 3m to 6m (Scale 1:20)

Clause B5.2.12 Sewer Sector Guidance

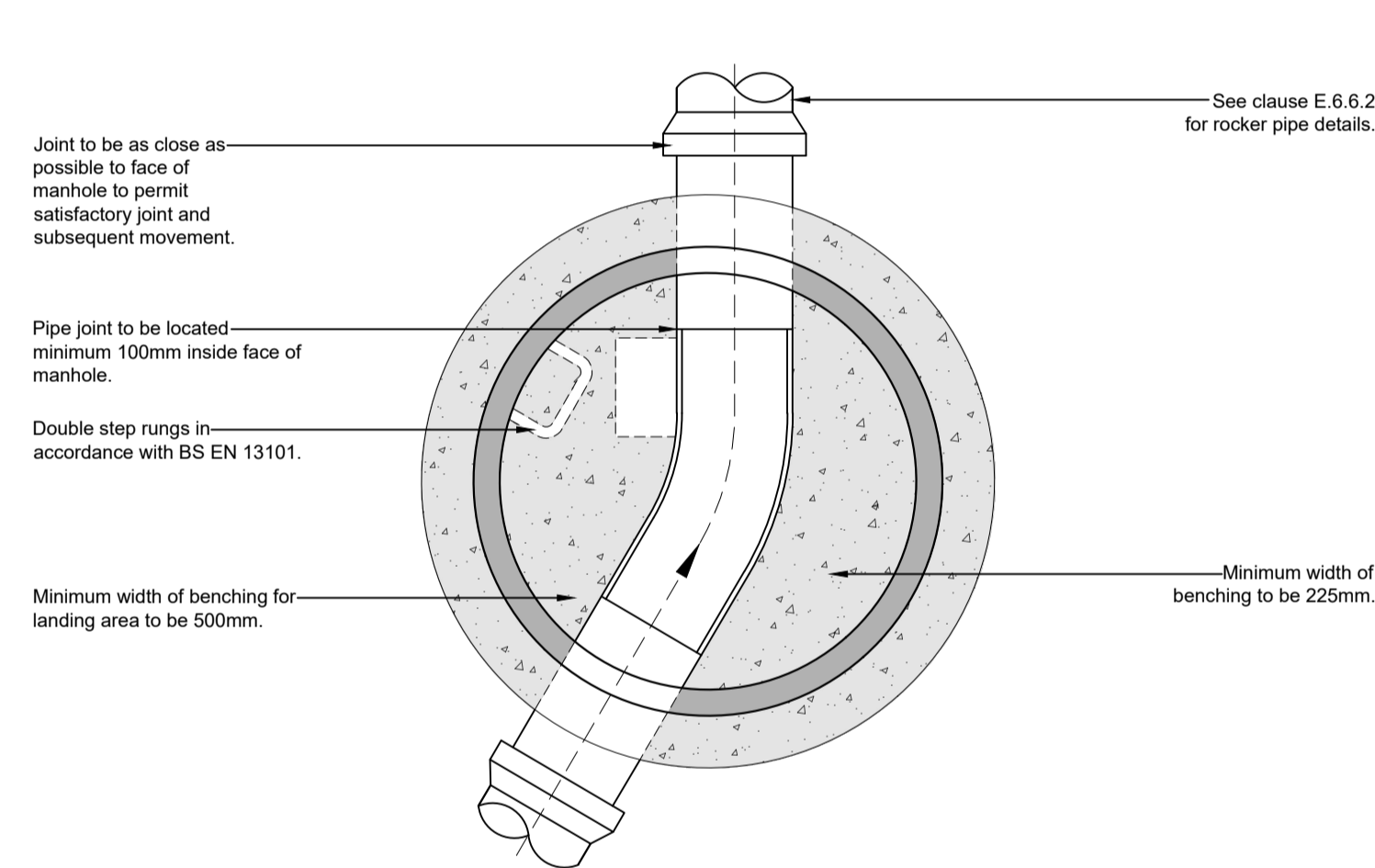
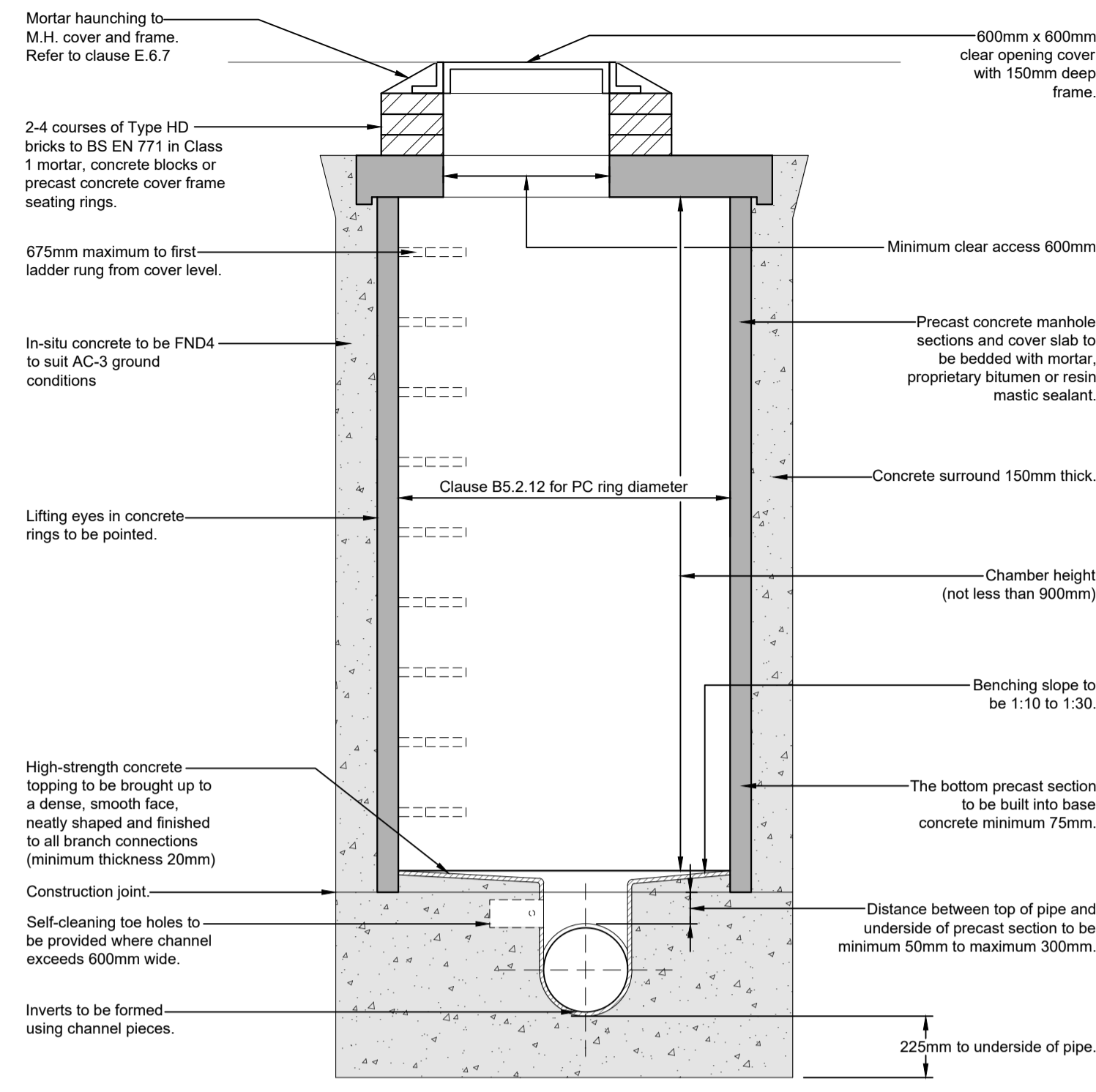
Manhole diameters (Type A and B only) should be in accordance with Table 2.

TABLE 1 - ACCESS TYPES

Access Type	Application
Type A	Man entry, depth 3-6m
Type B	Man entry, depth <3m

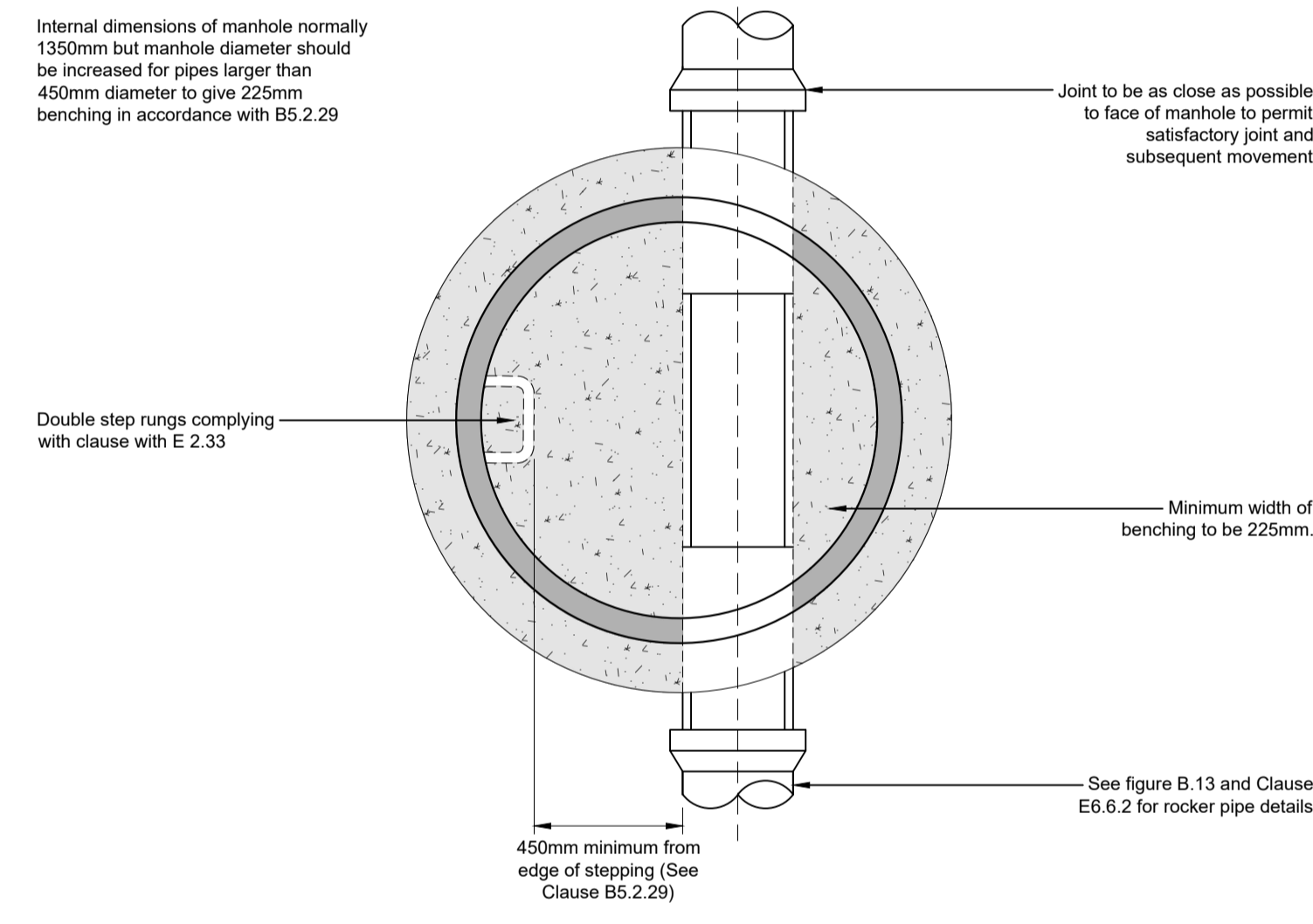
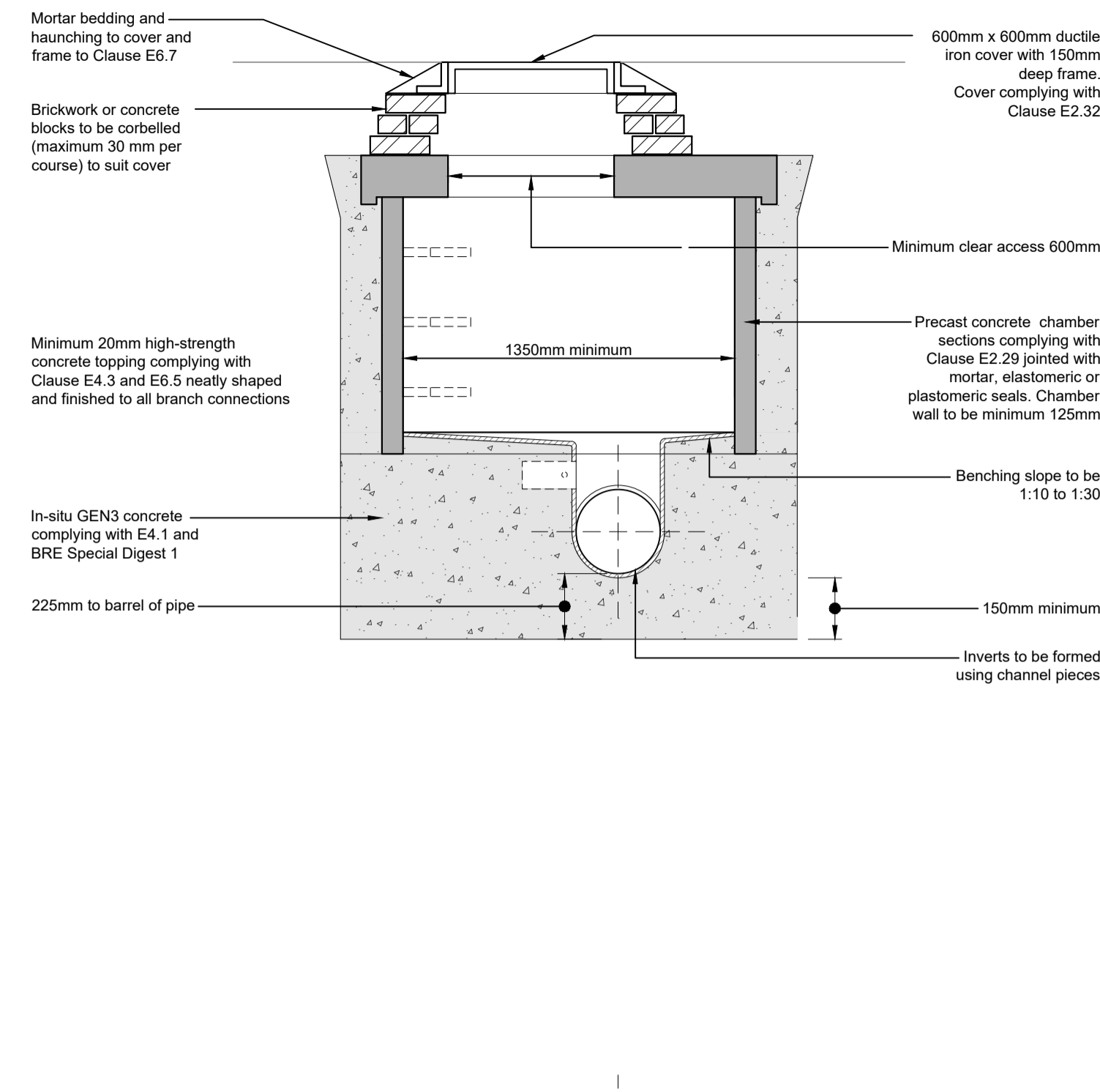
TABLE 2 - MANHOLE DIAMETERS

Nominal diameter of largest pipe in manhole (mm)	Minimum nominal internal dimension of manhole (mm)
Less than 375mm	1200
375-450	1350
500-750	1500
750-900	1800
Greater than 900	Pipe diameter + 900



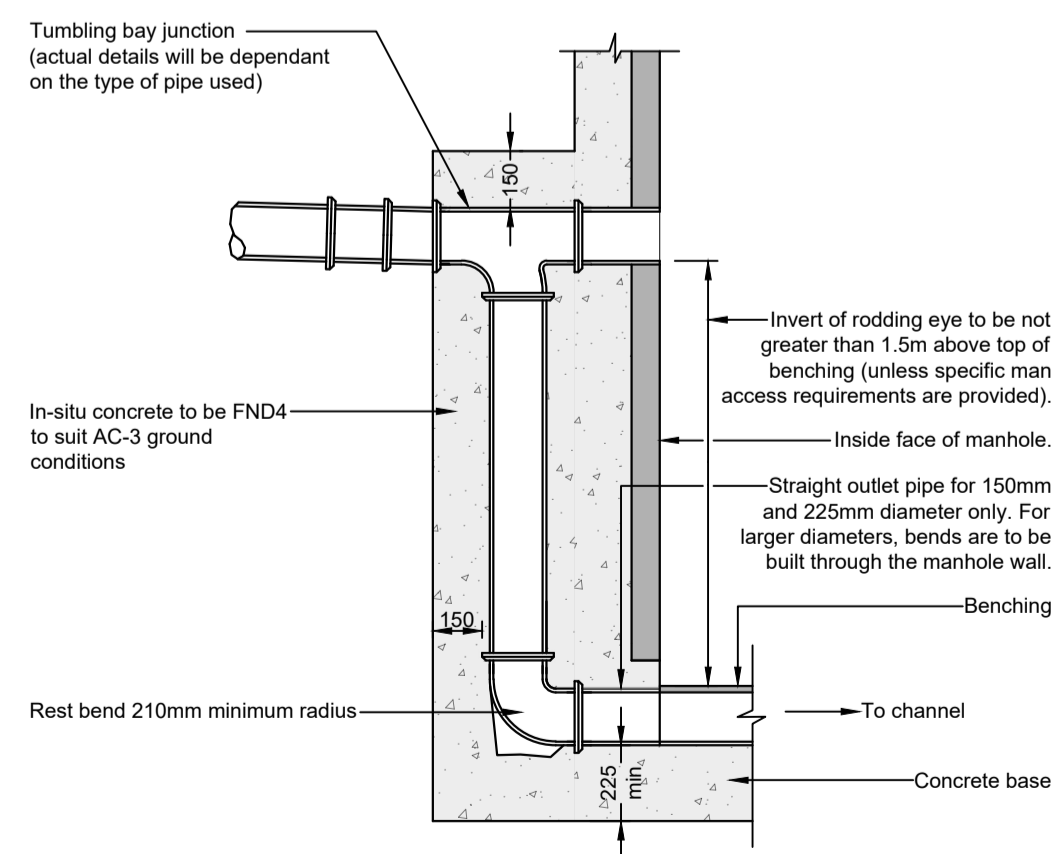
TYPICAL DETAIL OF TYPE B MANHOLE

Maximum depth from cover level to soffit of pipe 3m (Scale 1:20)



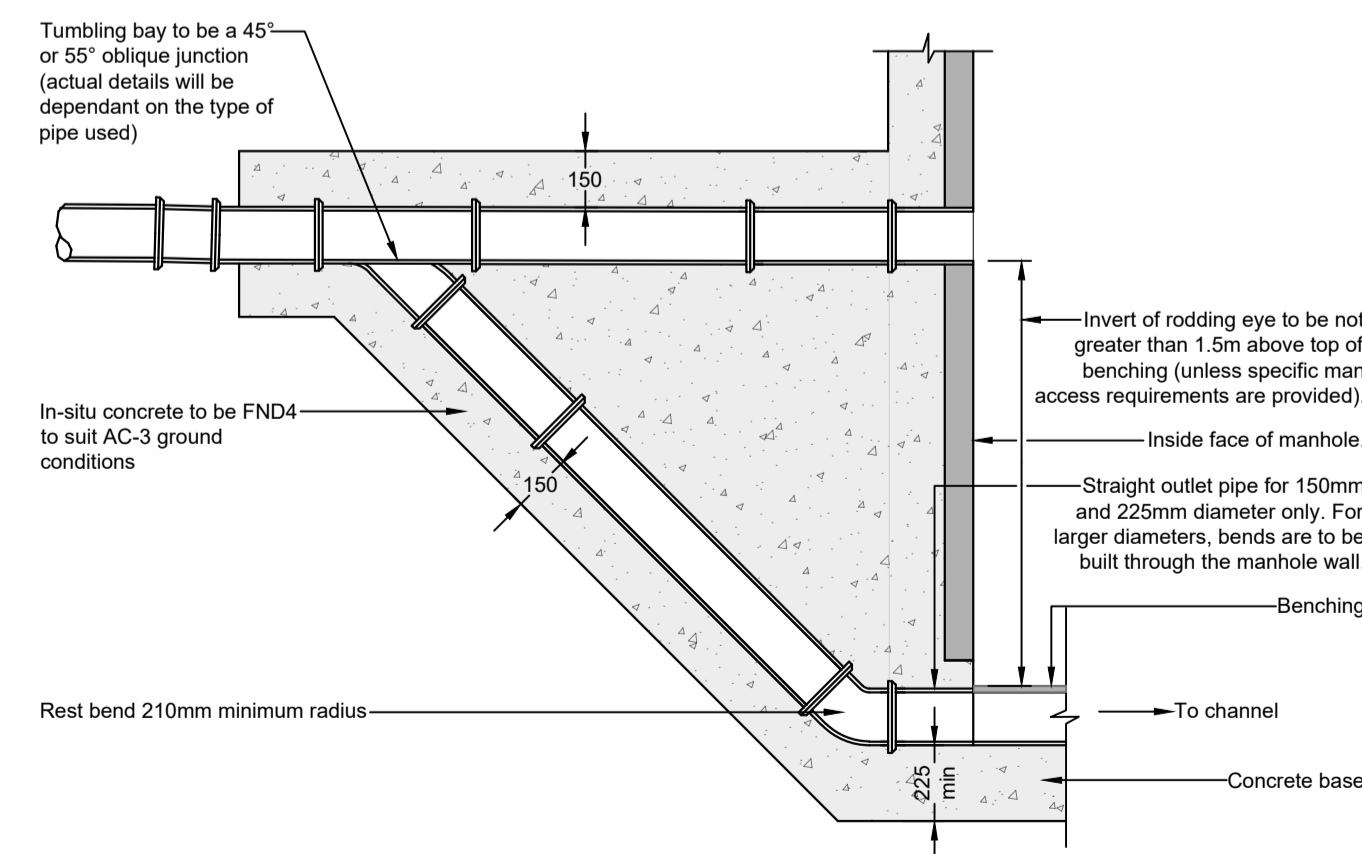
TYPICAL DETAIL OF TYPE C MANHOLE

Maximum depth from cover level to soffit of pipe less than 1.5m (Scale 1:20)



TYPICAL DETAIL OF EXTERNAL VERTICAL BACKDROP

(Scale 1:20)



TYPICAL DETAIL OF EXTERNAL RAMPED BACKDROP

(Scale 1:20)

Rev	Description	By	Ckd	Date
P02	BCBS Comments Incorporated	JNB	SMC	26.10.20
P01	First Issue	JNB	SMC	13.08.20



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Client: **Hoyland**

Title: **Highway Drainage Details (Sheet 2)**

RPS Project Number	Scale @ A1	Date Created
NK020040	1:20	15.07.2020
Task Team Manager	Information Author	Task Information Manager
SG	JNB	SMC

Status	Document Number	Revision
S1 (Suitable for Information)	HOYLA-RPS-SI-XX-DR-CR-552	P02
Project Code - Originator - Zone - Level - Type - Role - Drawing Number		
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