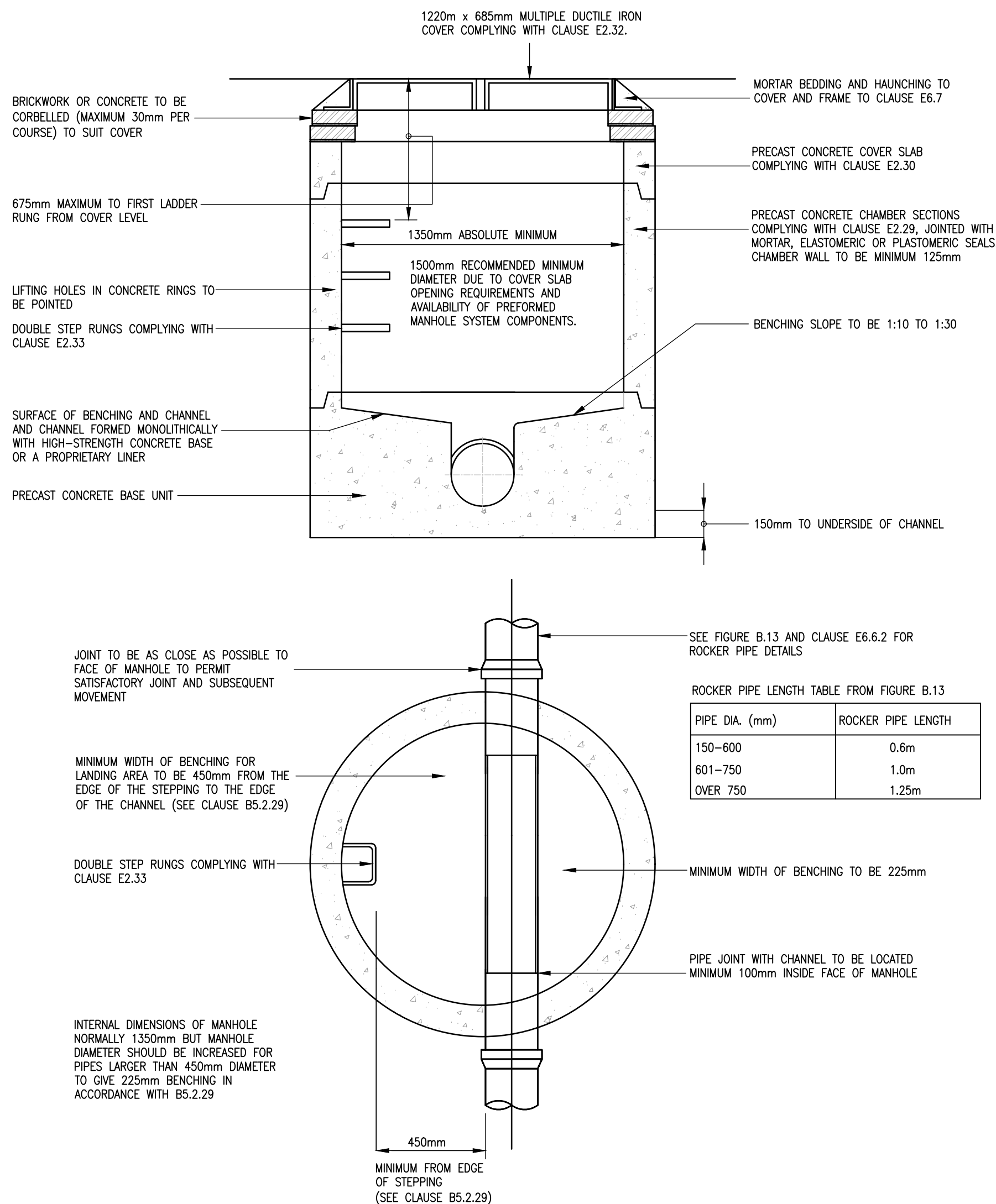


STANDARD DETAIL NOTES:
General Notes.

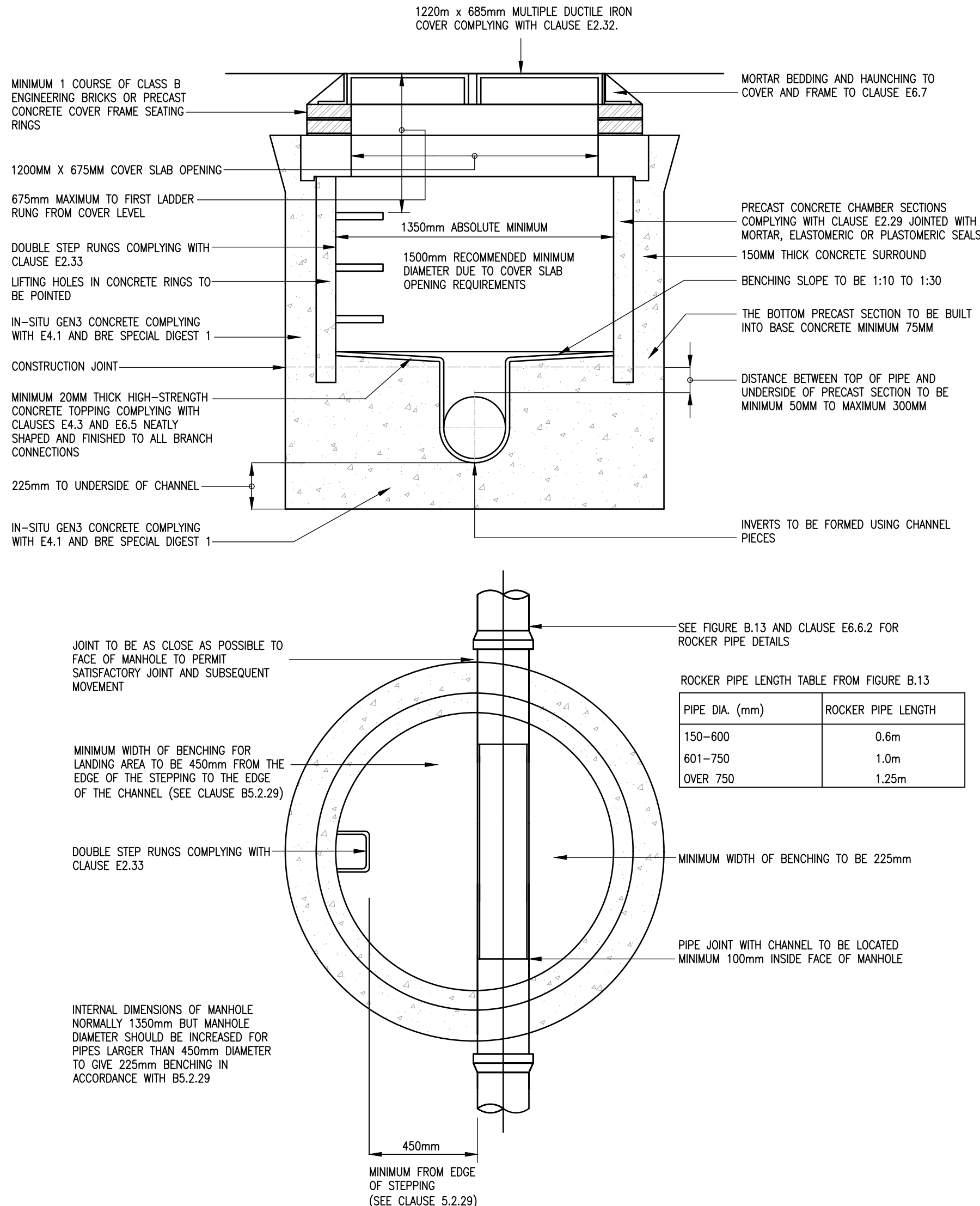
- If this drawing has been received electronically it is the recipients responsibility to print the document to the correct scale.
- This drawing should be read in conjunction with all other relevant drawings and specifications. Should there be any conflict between the details indicated on this drawing and those indicated on other drawings the Engineer should be informed prior to construction on site.
- All dimensions are in millimetres unless otherwise stated.
- Until technical approval has been obtained from the relevant authority, it should be understood that all drawings issued are preliminary and not for construction.
- All levels on site to be confirmed prior to construction, following full topographical survey and drainage levels survey information and current existing services plans and maps.
- Existing manhole invert levels are to be checked prior to commencing construction.
- ICOSA Water Applicable Notes:**
 - All sewers to be constructed in accordance with the procedures and specification Sewer Sector Guidance Design and Construction Version 2.3.
 - Storm branch connections and gully connections to be 150Ø and laid no flatter than 1:150.
 - Foul branch connections to be 150Ø and laid no flatter than 1:150.
 - All branch connections to be laid soffit to soffit unless otherwise stated.
 - Sewers to be laid in class "S" bedding 150mm granular bed and surround. Where depth of cover to top of sewer is less than 1.2m in highways and verges or less than 90mm in none vehicular access areas, concrete pipe protection shall be provided.
 - All clay pipes with cover less than 1.2m shall be extra strength.
 - All concrete pipework with cover less than 1.2m shall be to class 120.
 - Concrete protection to pipework shall be in the form of protective concrete cover slab and is to be used where cover is less than 900mm in none trafficked areas or 1.2m in trafficked areas.
 - Precast concrete products and in-situ concrete to contain minimum Class 3 S.R.C.
 - All manhole covers to be in accordance with BS EN 124 Class D400 and embossed FW or SW as appropriate, where applicable.
 - 150mmØ clay to be crushing strength class no. 267
225mmØ clay to be crushing strength class no. 200
300mmØ to 600mmØ concrete to be crushing strength class no. 120.
 - In-fill type covers should not be use. Where a cover is located in area of block paving the frame should be 150mm deep.
 - Where pipes cross a plastic membrane, as approved by ICOSA Water, is to be used for protection to eliminate and chances of cross contamination.
 - Precast concrete manhole rings are not to be cut under any circumstances, instead manholes are to be either built up in concrete or brickwork to the top of the pipe.



TYPICAL MANHOLE DETAIL TYPE 'C'

DCG FIG. B 15

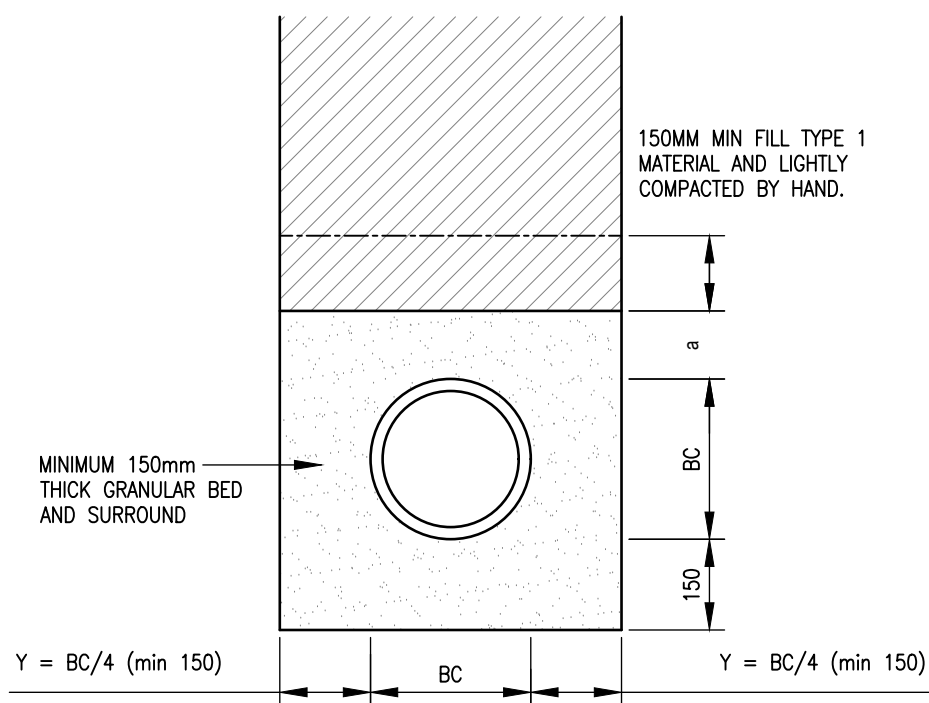
DEPTH FROM FINISHED COVER LEVEL TO SOFFIT OF PIPE LESS THAN 1.5M
MAXIMUM PIPE SIZE 450mm DIAMETER
RIGID MATERIAL WITHOUT CONCRETE SURROUND AND PRE-CAST MANHOLE BASE



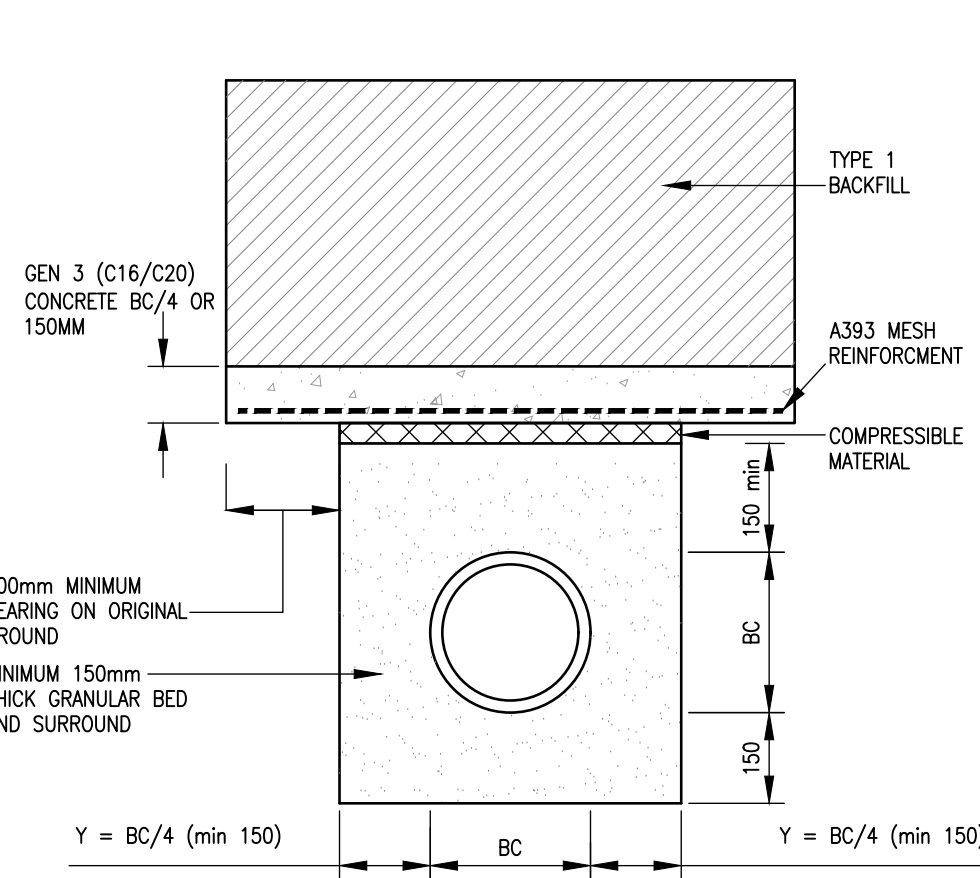
TYPICAL MANHOLE DETAIL TYPE 'C'

DCG FIG. B 15 (Traditional construction)

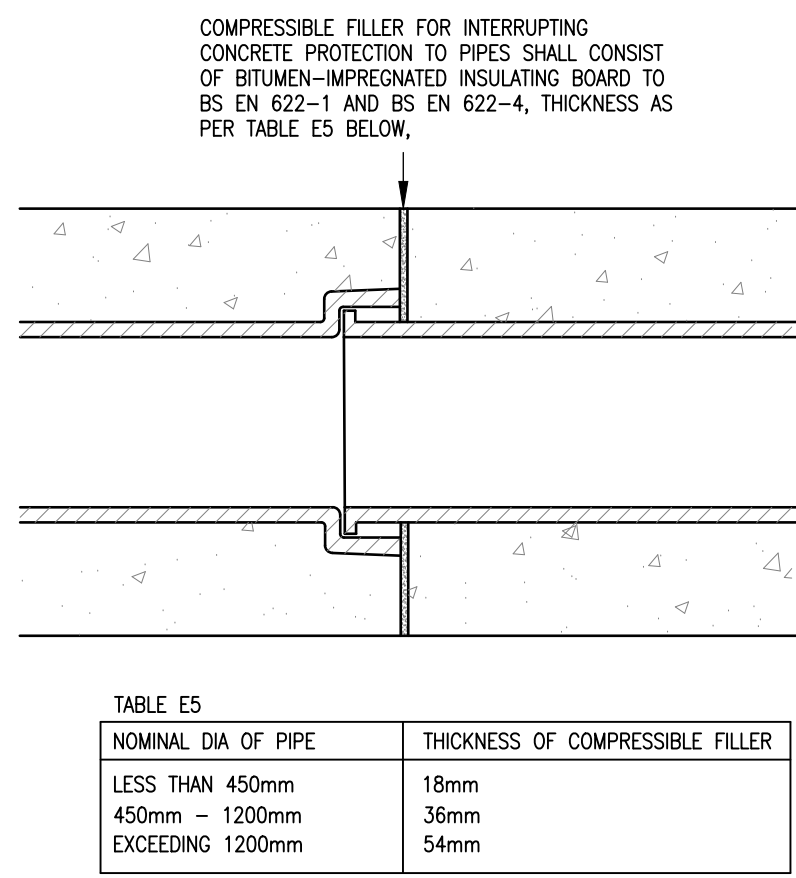
DEPTH FROM FINISHED COVER LEVEL TO SOFFIT OF PIPE LESS THAN 1.5M
MAXIMUM PIPE SIZE 450mm DIAMETER
RIGID MATERIAL WITH CONCRETE SURROUND



GRANULAR BED AND SURROUND
(CLASS S)



CONCRETE PROTECTION SLAB BEDDING DETAIL



NOMINAL DIA OF PIPE	THICKNESS OF COMPRESSIBLE FILLER
LESS THAN 450mm	18mm
450mm – 1200mm	36mm
EXCEEDING 1200mm	54mm

JOINT IN CONCRETE SURROUND

INT. PIPE DIA. (MM)	EXT. PIPE OVER BARREL (BC)	AGG. SIZE FOR TYPE 'A' BEDDING MATERIAL (MM)
150	203	10 or 14
225	286	10,14 or 20
300	375	
375	457	14,20 or 40
450	540	
525	622	
600	705	14,20 or 40
675	787	
750	870	
825	952	
900	1035	
975	1118	
1050	1194	
1125	1295	
1200	1372	
1275	1448	
1350	1549	
1425	1638	
1500	1715	
1575	1803	
1650	1880	
1725	1969	
1800	2057	
1875	2134	
1950	2210	

TABLE B1 – MANHOLE DIAMETERS

NOMINAL INTERNAL DIAMETER OF LARGEST PIPE IN MANHOLE	MINIMUM NOMINAL INTERNAL DIMENSIONS OF MANHOLE (MM)
Less than 375	1200
375-450	1350
500-700	1500
750-900	1800
GREATER THAN 900	

THE SIZE STATED ABOVE ARE THE MINIMUM ACCEPTABLE, WHERE TWO OR MORE PIPES ENTER THE MANHOLE THE CHAMBER SIZE MUST BE SUFFICIENT TO ACCOMMODATE THE REQUIRED THE REQUIRED BENCHING SHOWN

NOTES:

ALL PIPES BUILT INTO MANHOLE INVERT SHALL BE INSTALLED WITH SOFFITS LEVEL. DETAILS TAKEN FROM SECTOR SECTOR GUIDANCE DESIGN AND CONSTRUCTION VERSION 2.0

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CLIENT
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From land to living

PROJECT
PROPOSED RESIDENTIAL DEVELOPMENT AT
**BARTON ROAD,
BARLESTONE**

TITLE
**TYPICAL DRAINAGE
CONSTRUCTION DETAILS
SEWERAGE SECTOR GUIDANCE
SHEET 3 OF 4**

DRAWN JG	DATE 07-10-2024	PURPOSE OF ISSUE ☒ PRELIMINARY ☐ APPROVAL ☐ CONSTRUCTION
SCALE NTS	SIZE A1	
DWG NO. E279-40-03	REV. B	