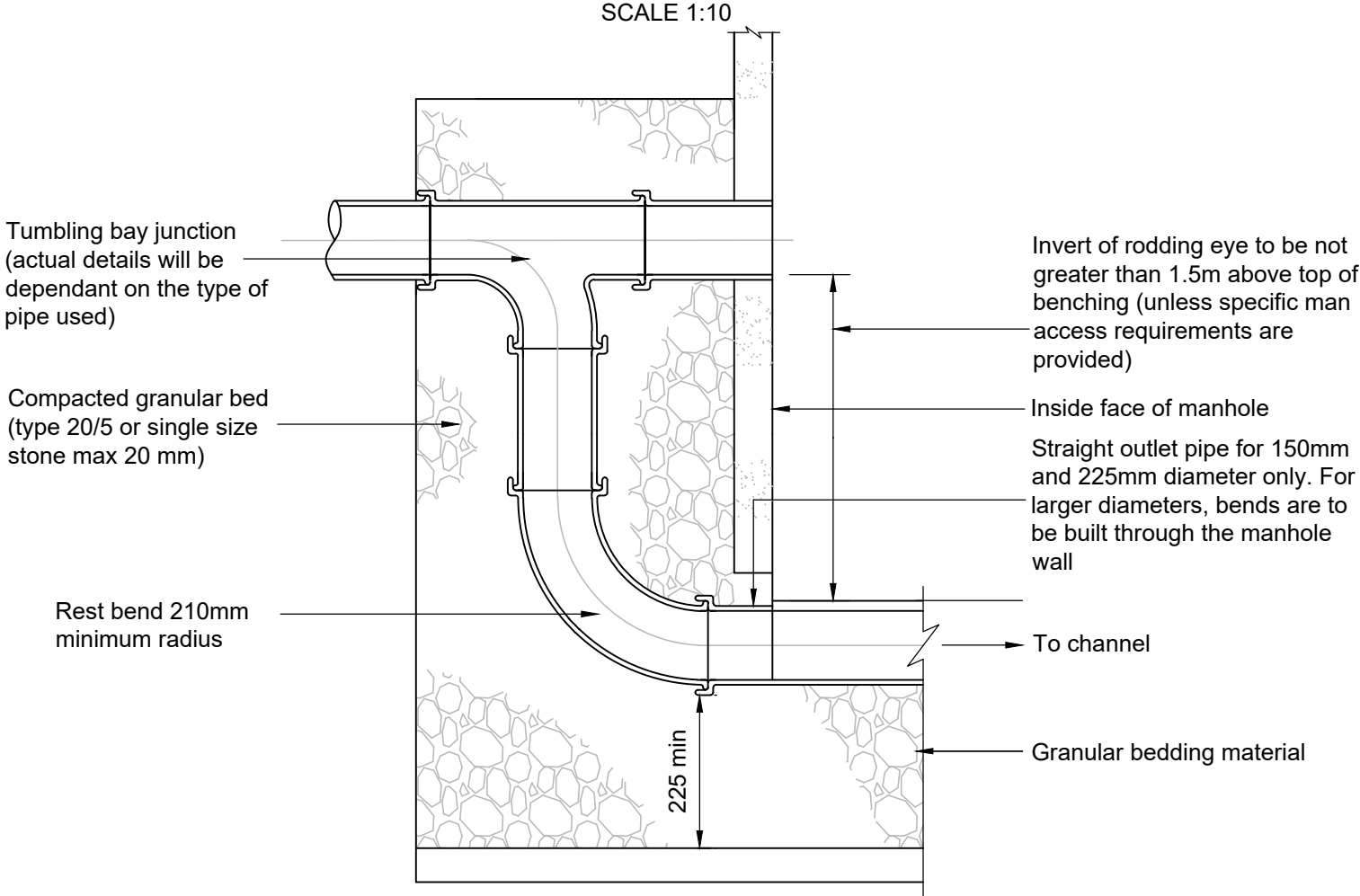
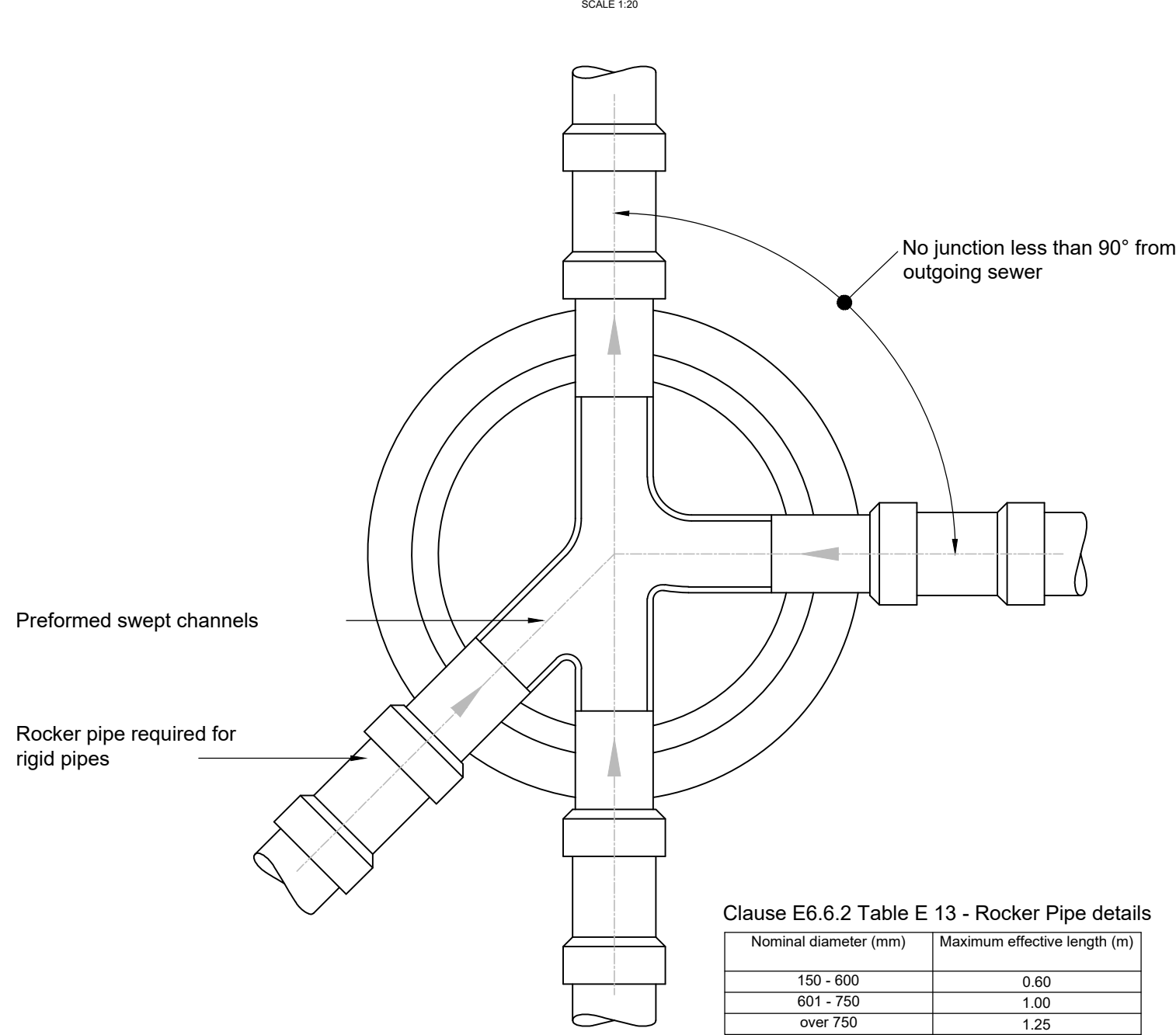


TYPICAL EXTERNAL VERTICAL BACKDROP DETAIL

Flexible Material For use in manhole types A to D (SSG Fig B17)
Type of backdrop to be used to be agree with the sewerage company



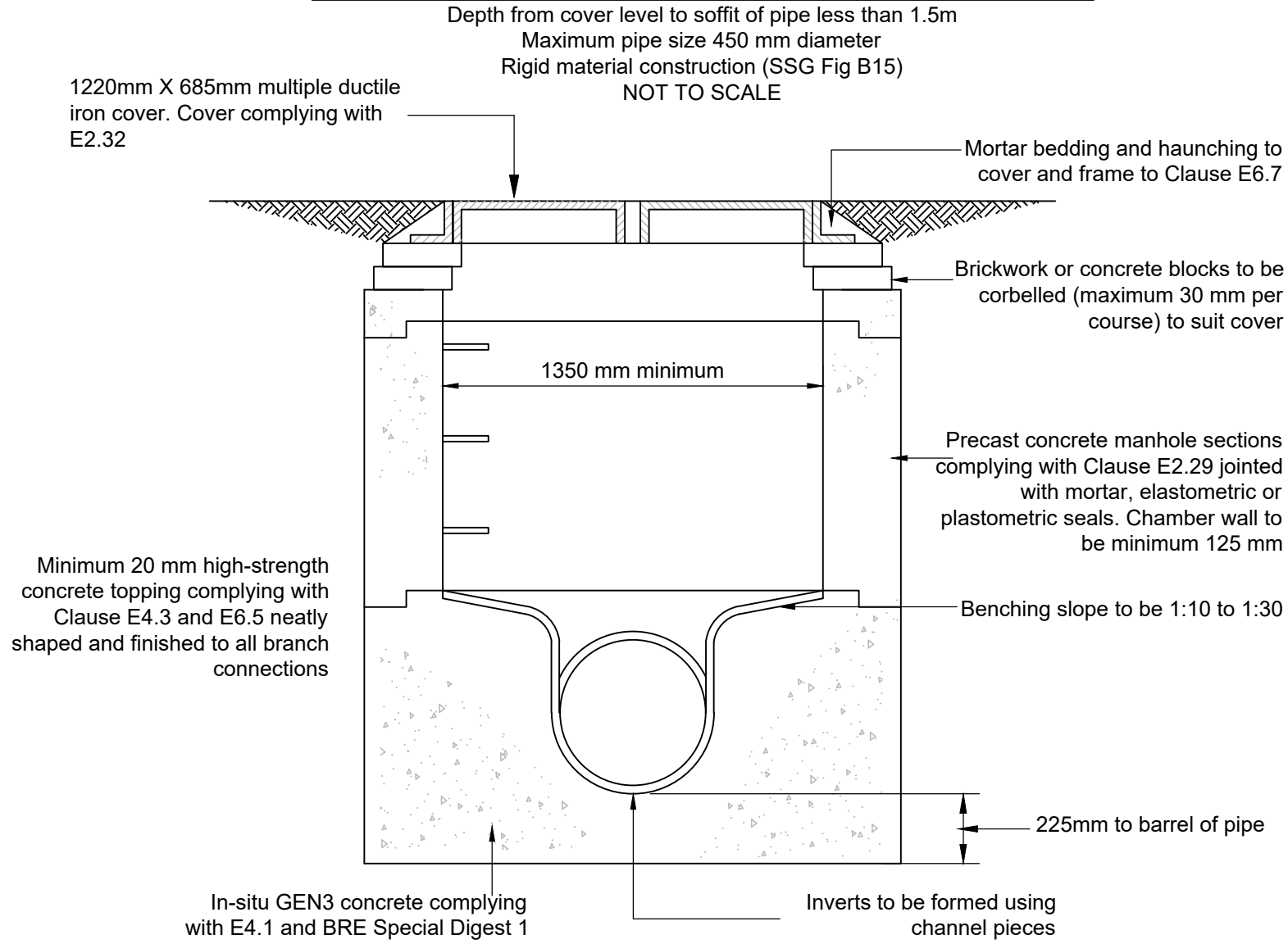
TYPICAL ARRANGEMENT OF PIPE JUNCTIONS WITHIN MANHOLES (SSG FIGURE B.13)



Rigid pipes built into manhole should have a flexible joint as close as feasible to the external face of the structure and the length of the next rocker pipe should be as shown.

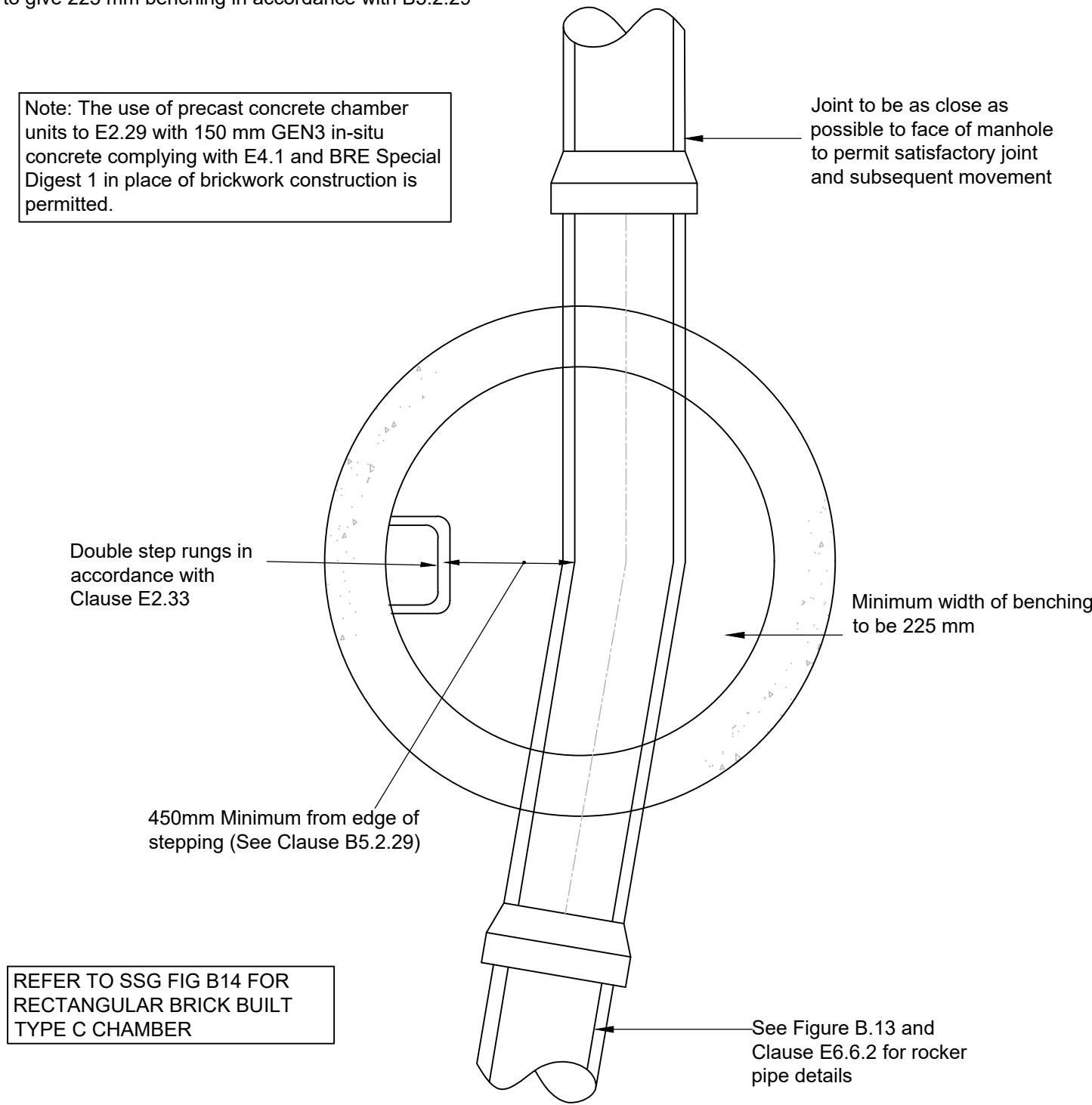
All pipes entering the bottom of the manhole to have soffits level

TYPICAL MANHOLE DETAIL - TYPE 'C'

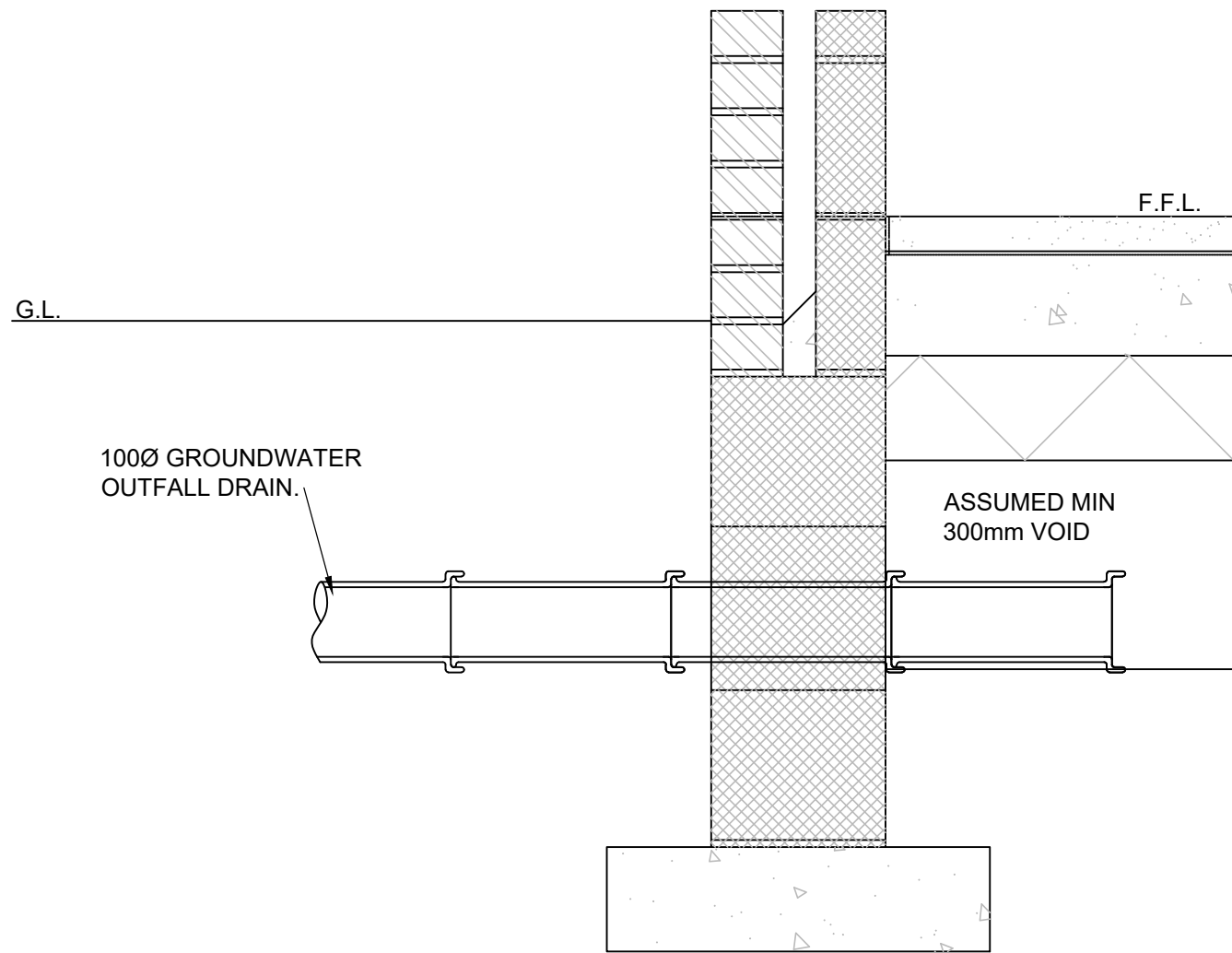


Internal dimensions of manhole normally 1350 mm but manhole diameter should be increased for pipes larger than 450 mm diameter to give 225 mm benching in accordance with B5.2.29

Note: The use of precast concrete chamber units to E2.29 with 150 mm GEN3 in-situ concrete complying with E4.1 and BRE Special Digest 1 in place of brickwork construction is permitted.



REFER TO SSG FIG B14 FOR RECTANGULAR BRICK BUILT TYPE C CHAMBER



TYPICAL UNDER-SLAB GROUNDWATER DRAINAGE OUTFALL

Scale 1:10

- Notes:
1. Do not scale this drawing
 2. The planning, design and construction of sewers shall be in accordance with Sewerage Sector Guidance Appendix C - 'Design and Construction Guidance'.
 3. All sewers to be laid soffit to soffit unless otherwise shown.
 4. Compliance with Health & Safety matters on any trench/manhole is obligatory and a permit to enter a confined space is required when connecting site drainage to the existing public sewerage system. A permit to enter a confined space will be obtained from Southern Water prior to the works commencing on any public sewerage system.
 5. The minimum size of any adoptable surface water sewer is 150mmØ and foul sewer is 100mmØ. Surface water laterals may be 100mmØ
 6. Refer to Section 104 drawing for a full set of construction specification notes.
 7. All pipes to be plastic unless otherwise shown.
 8. Ladders to be galvanised mild steel to BS 4211.
 9. Step rungs to be double width, plastic encapsulated mild steel. Distance between step rungs to be 250-300mm.
 10. Precast concrete rungs will not be cut under any circumstance.

Soakaway Notes:

1. All soakaways are designed using the nearest worst case infiltration rate taken from Hydrock Geotechnical Report.
2. Prior to construction of any soakaway the contractor shall conduct a test to ensure infiltration rate is the same as or better than the design rate used. All soakaways to be tested and constructed in accordance with BRE 365.
3. All soakaways shown are a minimum of 5m away from any dwelling.
4. All private house soakaways to have a catchpit immediately upstream of soakaway.

Clause B5.2.12 Table B 1 - Manhole diameters

Nominal Internal Diameter of Largest Pipe in Manhole (mm)	Minimum Nominal Internal Dimension of Manhole (mm)
Less than 375	1200
375-450	1350
500-600	1800
Greater than 600	Pipe diameter + 900

Diameters considered to be the minimum. Where two or more pipes enter the manhole, the internal dimensions should be increased, where necessary, to accommodate the minimum width of benching. Pipes of different diameters entering manholes should be installed with soffits at the same level.

Clause E6.6.2 Table E 13 - Rocker Pipe details

Nominal diameter (mm)	Maximum effective length (m)
150 - 600	0.60
601 - 750	1.00
over 750	1.25

REVISIONS

C03	01/10/24	Issued for construction approval.	MT	JAC	JAC
C02	28/06/24	Typical groundwater drainage detail added.	HR	-	-
C01	29/09/23	Updated to construction issue. Backdrop detail added to sheet.	JL	GH	GH
P01	07/10/22	First Issue.	JT	NJ	JC

Rev	Date	Description	By	Ckd	App
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PROJECT
LAND OFF MISERY LANE
PROVIDENCE HILL, BURSLEDON
SOUTHAMPTON

TITLE
DRAINAGE CONSTRUCTION DETAILS
SHEET 2 OF 6

HYDROCK PROJECT NO. C-21627-C	SCALE @ A1 AS SHOWN	STATUS S4
STATUS DESCRIPTION FOR APPROVAL	REVISION C03	
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER) 21627-HYD-XX-XX-DR-C-0411		