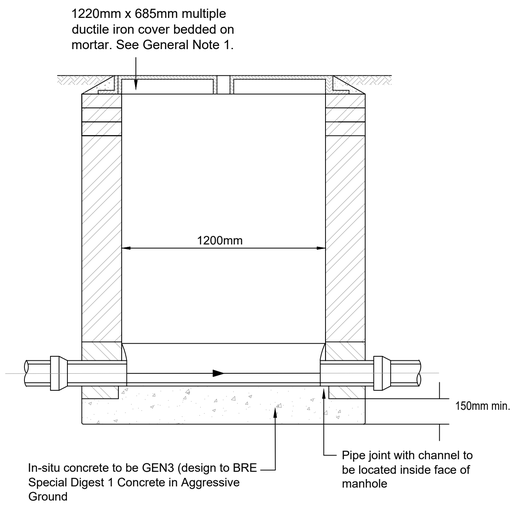
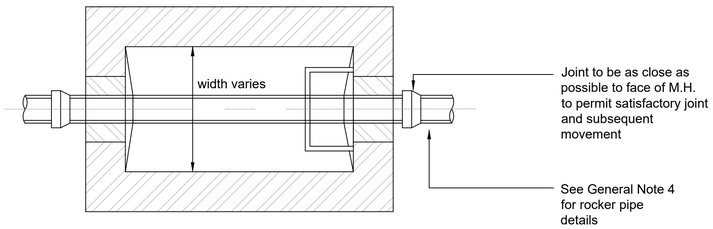
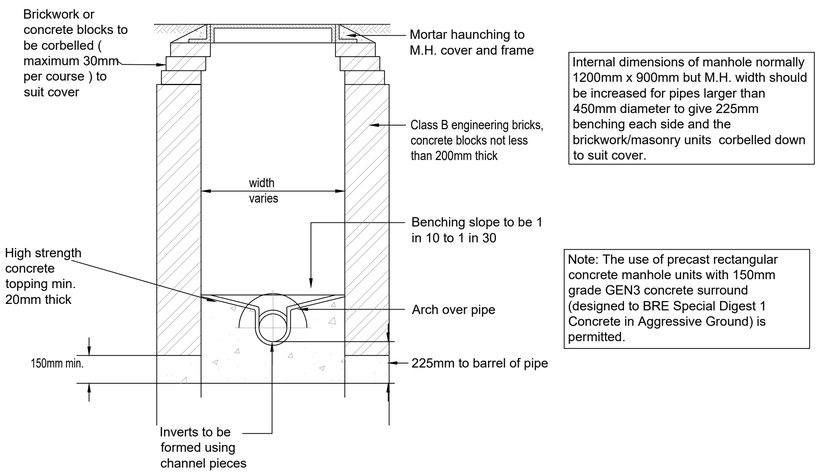


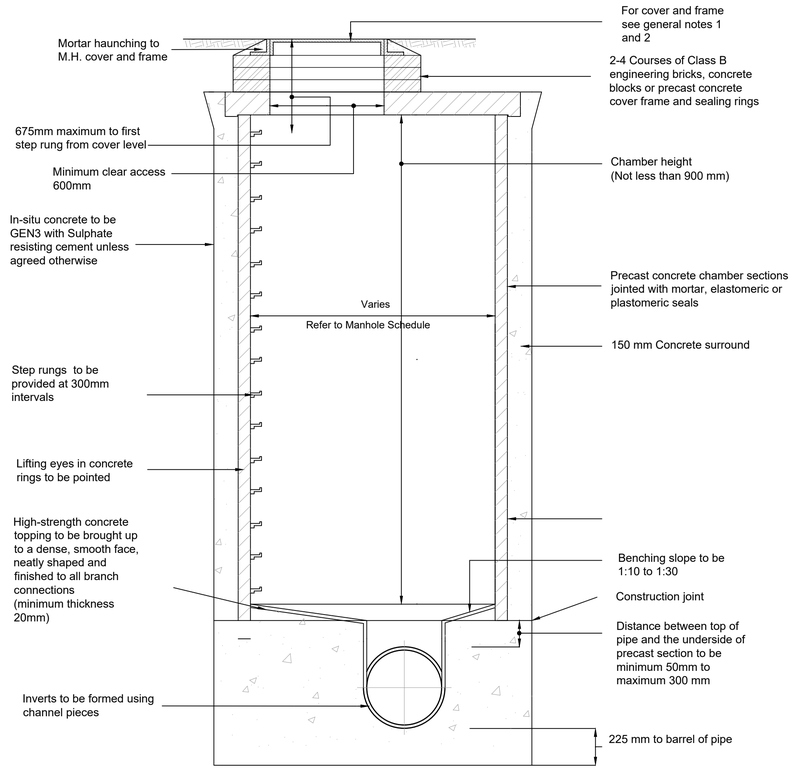


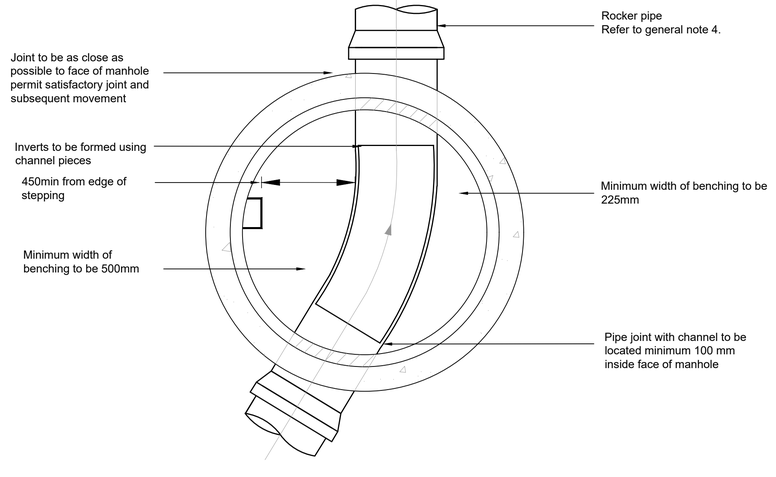


Internal dimensions of manhole normally 1200mm x 900mm but M.H. width should be increased for pipes larger than 450mm diameter to give 225mm benching each side and the brickwork/masonry units corbelled down to suit cover.

Note: The use of precast rectangular concrete manhole units with 150mm grade GEN3 concrete surround (designed to BRE Special Digest 1 Concrete in Aggressive Ground) is permitted.

Typical Manhole Detail - Type C
Depth from cover level to soffit of pipe up to 1.5m





Typical Manhole Detail - Type B
Max depth to soffit of pipe 1.5m-3.0m

Steps or otherwise to be fitted as required by the Undertaker's policy

General Notes

1. Access Cover Grades BSEN 124 : 1994

Class D400 - Carriageway and parking areas.
Class B125 - Footways etc.

2. Access cover for Type B manhole to have a minimum clear opening of 600 x 600mm
2.1. Access covers located on bends or within junctions to be treated with non-slip coating, such as 'GripTop' by Saint Gobain, or similar approved

3. Permissible chamber diameters for manhole Type B

Diameter of largest pipe in Manhole(mm).	Chamber section diameter(mm).
Less than 375	1200
375 - 450	1350
500 - 700	1500
750 - 900	1800

4. Pipes built into manholes shall have a flexible joint as close as feasible to the external face of the structure and the length of the first pipe and rocker pipe shall be as shown.

Nominal diameter(mm).	Rocker Pipe length(m).
150 - 600	0.60
675 - 750	1.00
825 & Over	1.25

5. All pipes entering the bottom of the manhole to have the same soffit level unless otherwise shown on plan

6. The channel shall be preformed half round channel.

7. Where a future connection is shown in the manhole schedule the pipe shall be supplied with a stopper and subjected to to an air test.

8. All work to be carried out in connection with sewers and manholes to be in accordance with the Health and Safety guideline No. 2 'Safe Working in Sewers and Sewage Works' and United Utilities safe system of work for entry into confined spaces.

9. All components to be kite marked 2001. Any conflict between the proposals and 'United Utilities Addendum/Sewerage Sector Guidance, United Utilities addendum shall override.

10. Drainage pipelines shall be constructed using Class M concrete pipes

NOTES

1. ANY drainage works constructed prior to issue of Technical Approval is entirely at the risk of the Contractor/Client.
2. The Contractor is to comply fully with the CDM Regulations in the course of constructing the works.
3. All adoptable foul sewer drainage works must comply with 'Design and Construction Guidance for foul and surface water sewers, Version 2.1,' and to to the satisfaction of United Utilities.
4. All levels are in metres above Ordnance Datum.
5. All dimensions are in millimeters unless specified otherwise
6. All private drainage works must comply with Building Regulations

REV	DATE	DESCRIPTION	DF(CE)
P00	04.03.2022	ISSUE FOR STAGE 2 TENDER	RVD

REVISIONS

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PROJECT
RENAISSANCE
CIVIL
GENERAL

STATUS
ISSUED FOR INFORMATION
NOT TO BE ISSUED FOR CONSTRUCTION

DRAWN	DESIGNED	CHECKED	APPROVED
CE	JP (CE)	DF (CE)	LJK

DATUM	GRID	SCALE
OSGB36	BNG	NTS AT A1 SIZE

TITLE
PROPOSED DRAINAGE - BASEMENT LEVEL - DRAINAGE DETAILS - SHEET 3

PROJECT No.	DRAWING No.	REV
L20081	REN-BGE-C-GEN-054	P00

3/2/2022 2:56 PM

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