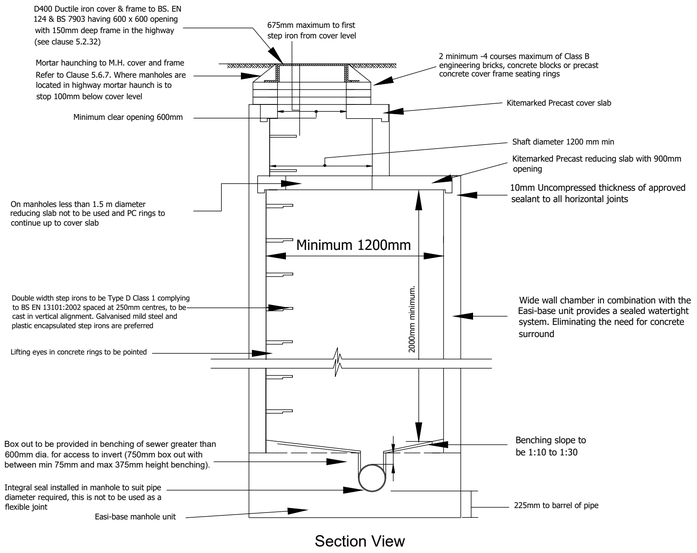
S104-2025-027

Typical Wide Wall Manhole Construction

Type A Alternative Wide Wall Manhole
(Design and Construction Guidance)

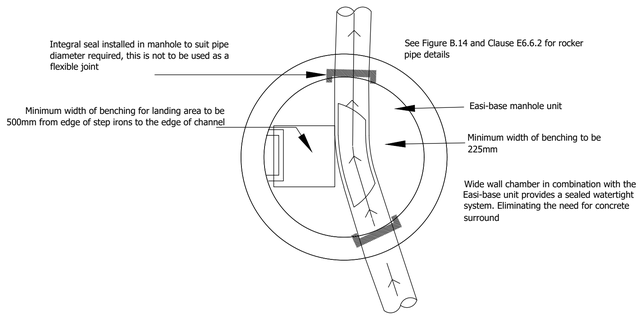
For use on manholes of depth from cover level to soffit of pipe between 3000mm and 6000mm.



Section View

Typical Wide Wall Manhole Plan View

Type A and Type B
(Design and Construction Guidance)



Manhole Diameters	
Nominal internal diameter of largest pipe in manhole (mm)	Minimum nominal internal dimension of manhole (mm)
Up to 300	1200
375-450	1350
500-700	1500
750-900	1800
Greater than 900	Specific detailed drawing required

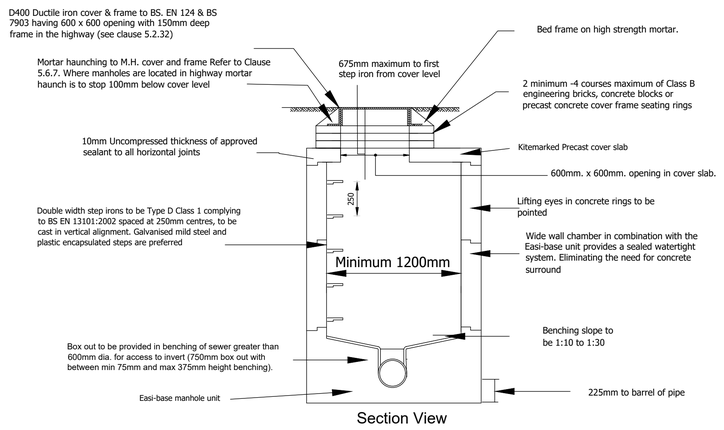
PLEASE NOTE WHERE MANHOLES HAVE BACKDROP CONNECTIONS A FULL 150MM CONCRETE SURROUND TO THE MANHOLE IS REQUIRED

A1

Typical Wide Wall Manhole Construction

Type B Alternative Wide Wall Manhole
(Design and Construction Guidance)

For use on manholes with maximum depth from cover level to soffit of pipe 3000mm

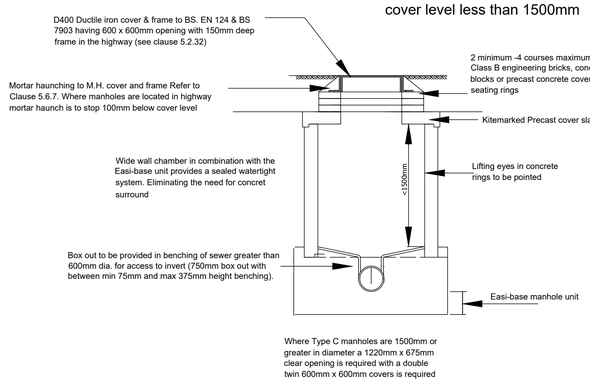


Section View

Shallow Manhole Construction

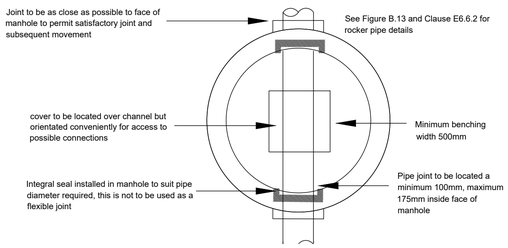
Type C (Design and Construction Guidance)

Construction of manhole where depth from soffit to cover level less than 1500mm



Shallow Wide Wall Manhole Plan View

Type C (Design and Construction Guidance)



Yorkshire Water Notes

1. All adoptable sewer works and material to be in accordance with sewerage sector guidance and construction guidance "Code for Adoption" , The Relevant British/European and Yorkshire Water's Standard/Requirements/Local practice for the adoption of small submersible foul and surface water pump stations and Kitemarked.
2. Manhole covers shall/must have a clear opening of 600mm and shall be Class D400 to BS EN 124 with 150mm deep frames in highways.
3. Filled ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Water before any sewer works are carried out.
4. Yorkshire Water is not obliged to accept filter drain/land drainage run-off into the public sewer network or adoptable drainage system (directly or in-directly). An alternative method of disposal of the land drainage run-off will therefore be required and you will have to liaise with the Local Authority, Land Drainage Section regarding the disposal of the filter drain/land drainage run-off.
5. The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
6. Sewers must have 5 metres clearance from trees and hedges or the width of the canopy at mature height.
7. Sewers to be laid in Class "S" Bedding (150mm granular bed and **surround). Where depth of cover to top of the sewer is less than 1.2m in** highways and verges (or less than 900mm in nonvehicular access **areas) then a concrete slab should be provided above granular bed** and surround.
8. Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (Table A2).
9. Yorkshire Water policy is that Type "C" brick manholes and 1050mm diameter manhole rings are not preferred. Instead, it is preferred that you use a type "B" manhole with 1200mm diameter or 1500mm diameter rings, with the opening sited over the channel where depth of cover to pipe soffit is 1 - 1.5m.
10. Adoptable plastic sewer pipes to be BSI Kitemarked (certified to WIS **4-35-01 and BS/EN13476). Adoptable plastic sewer pipes to be laid in** maximum 3 metre lengths unless there is a specific operational need to lay longer lengths. Plastic channel sections in manholes are not acceptable and Yorkshire Water would require clay ware channel in manholes.
11. The minimum crushing strength for clay pipes should be as follows: 100mm dia. 40KN/m, 150mm dia. 40KN/m, 225mm dia. 45KN/m and 300mm dia. 72KN/m. The minimum crushing strength for concrete pipes should be - (Class 120 to EN 1916/BS5911-1 2002). Plastic pipes should conform to WIS 4-35-01 and BS EN13476.
12. Where a B125 cover and frame has been approved, this must not be coated in plastic and must have lifting eyes suitably sized to accommodate standard lifting keys. Screw down covers are not acceptable.
13. There must be enough clearance at crossovers to accommodate bedding to both pipes, approx. 300mm : if crossover is near the rocker then the clearance needed may need to be increased".

For all clause and table references please refer to Design and Construction Guidance contained within the Code for Adoption

Rev	Details	Date	Drwn.	Chk.
A	YW reference added	22-7-25	AST	

Newett Homes

Yew Tree Road
Birchencliffe, Huddersfield

Yorkshire Water Typical details
Sheet 2 of 4

Dwg No. : STE/25/03/06/02 A

Date : 31-1-25

Scale : NTS

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