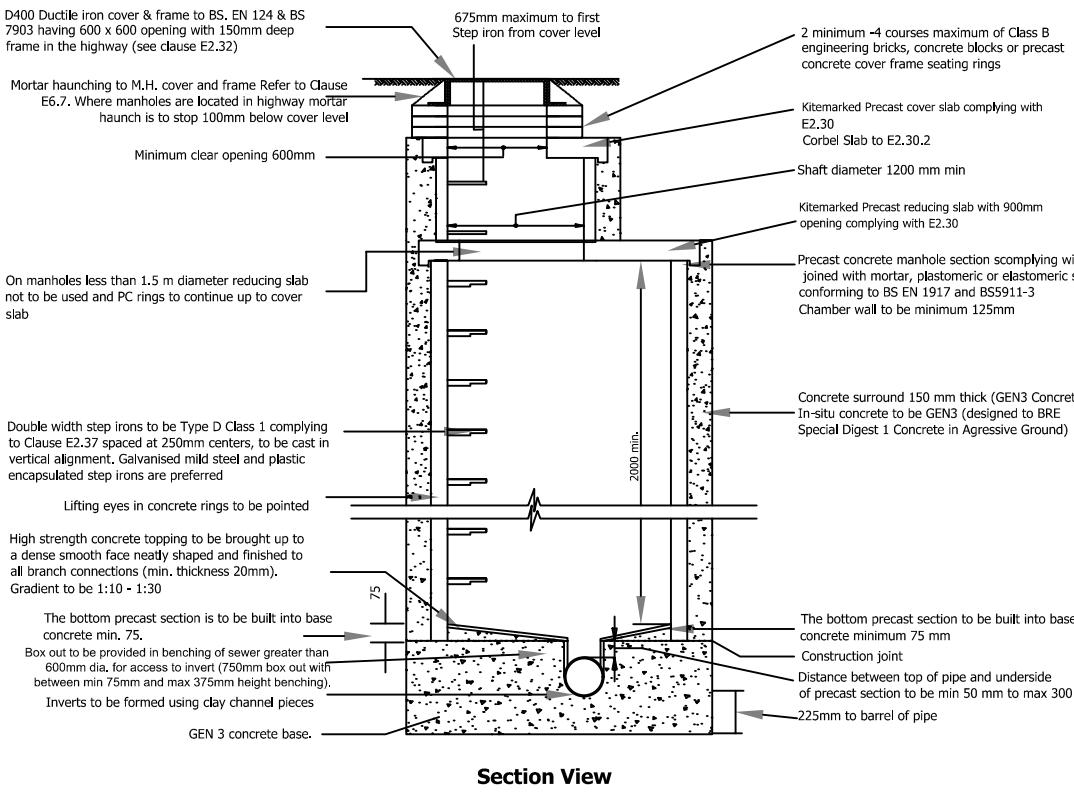


Typical Manhole Construction

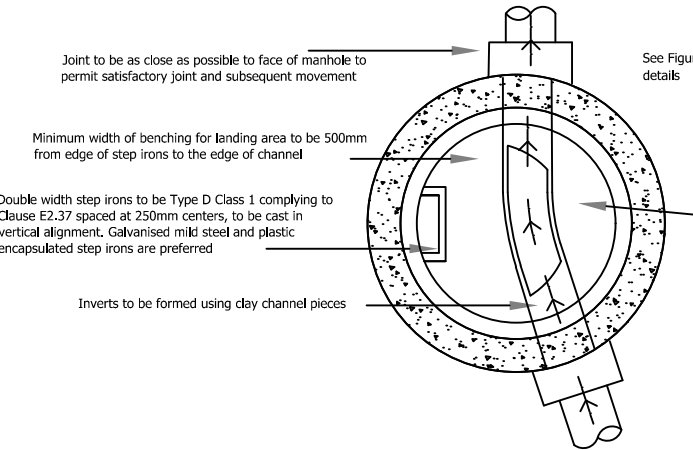
Type A1 (Design and Construction Guidance)

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



Typical Manhole Plan View

Type A and B (Design and Construction Guidance)

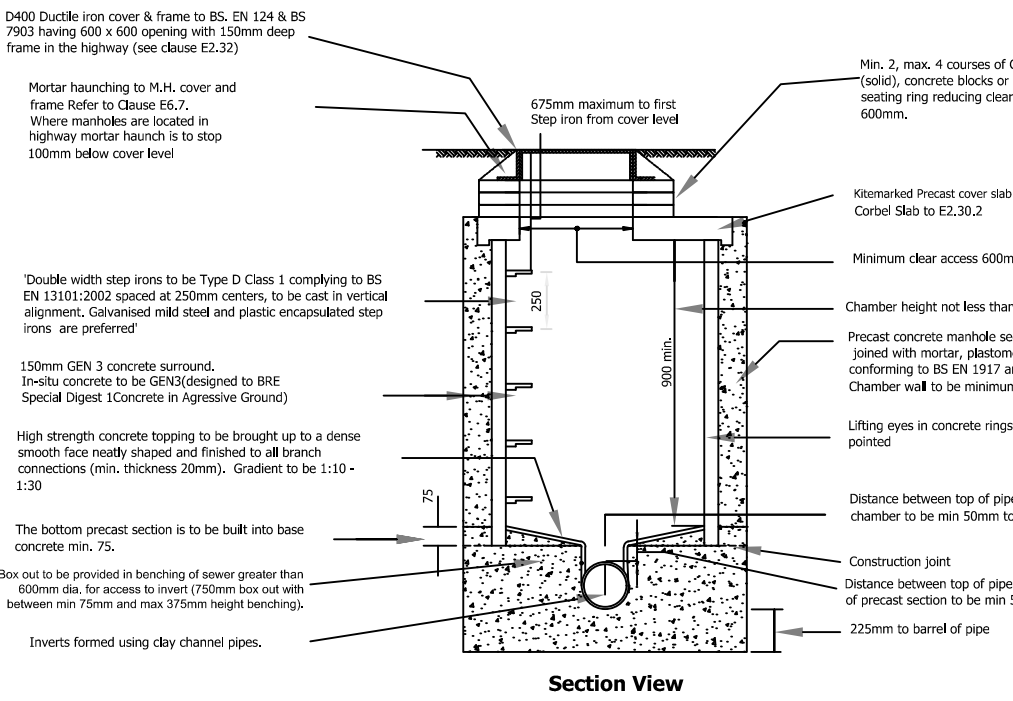


Manhole Diameters	
Nominal external diameter of largest pipe in manhole (mm)	Minimum nominal internal dimension of manhole (mm)
Up to 300	1200
375-450	1350
500-750	1500
750-900	1800
Greater than 900	Specific detailed drawing required

Typical Manhole Construction

Type B (Design and Construction Guidance)

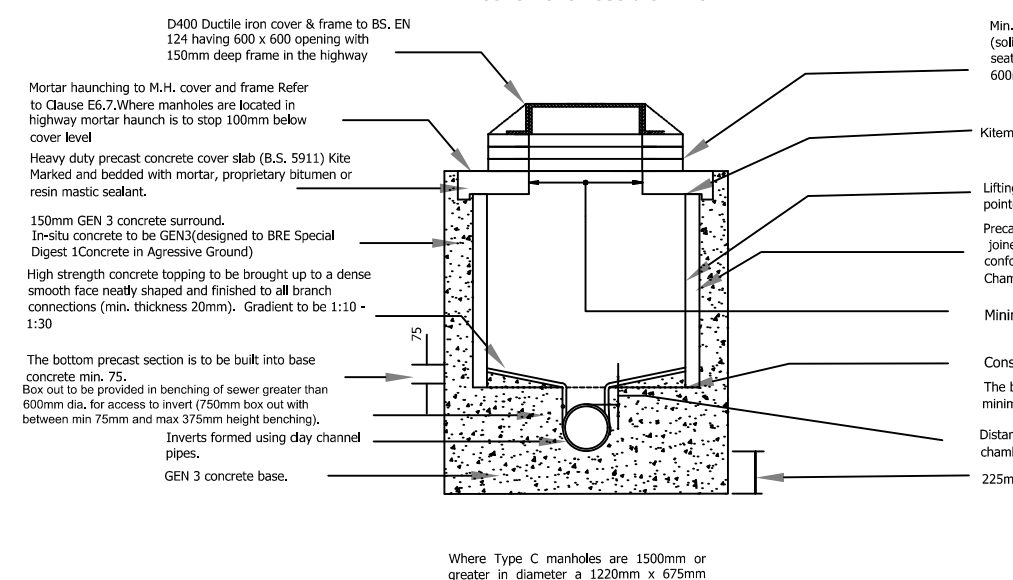
Maximum depth from cover level to soffit of pipe 3000mm



Shallow Manhole Construction

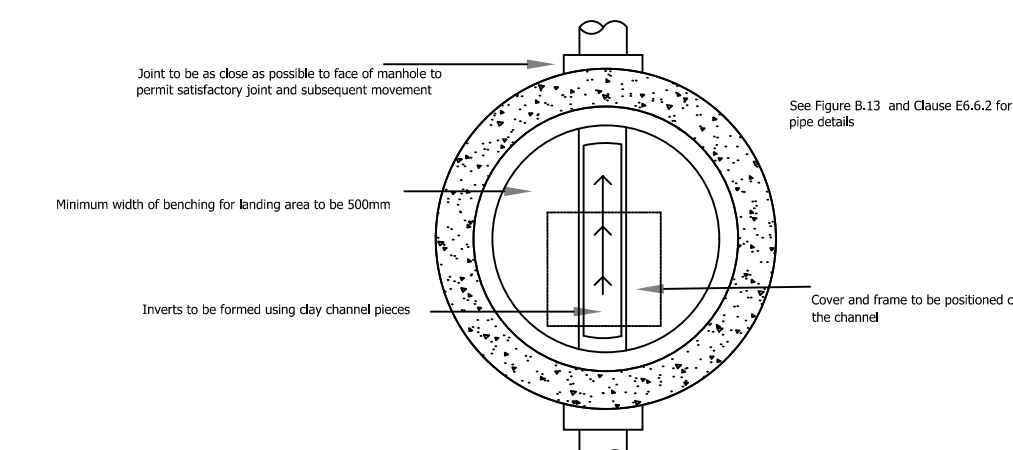
Type C (Design and Construction Guidance)

Construction of manhole where depth from soffit to cover level less than 1.5m



Shallow Manhole Plan View

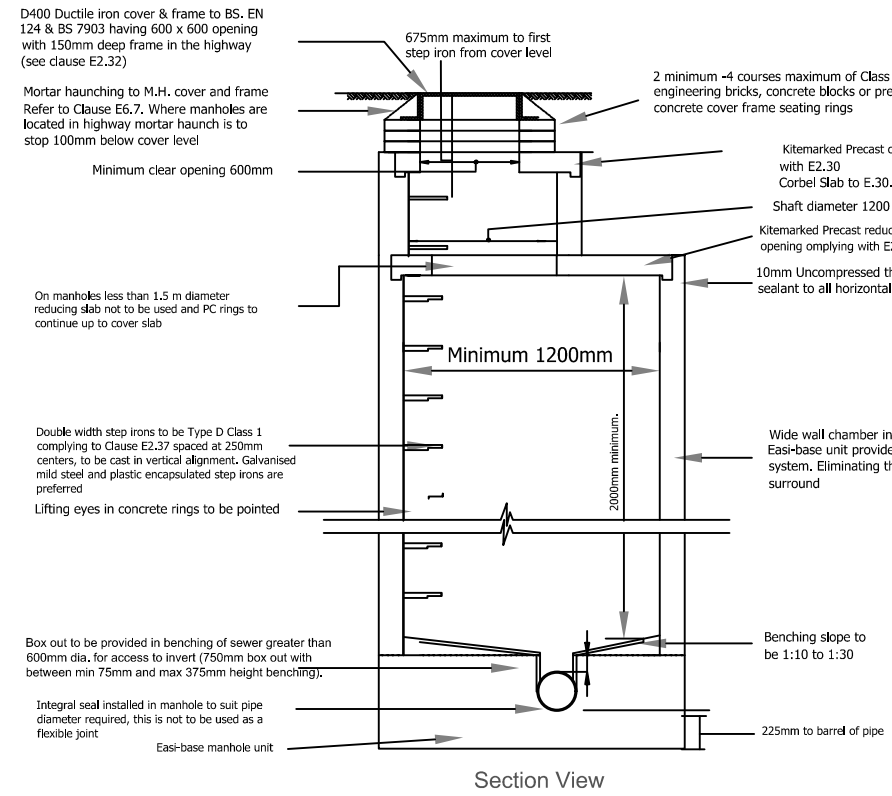
Type C (Design and Construction Guidance)



Typical Widewall Manhole Construction

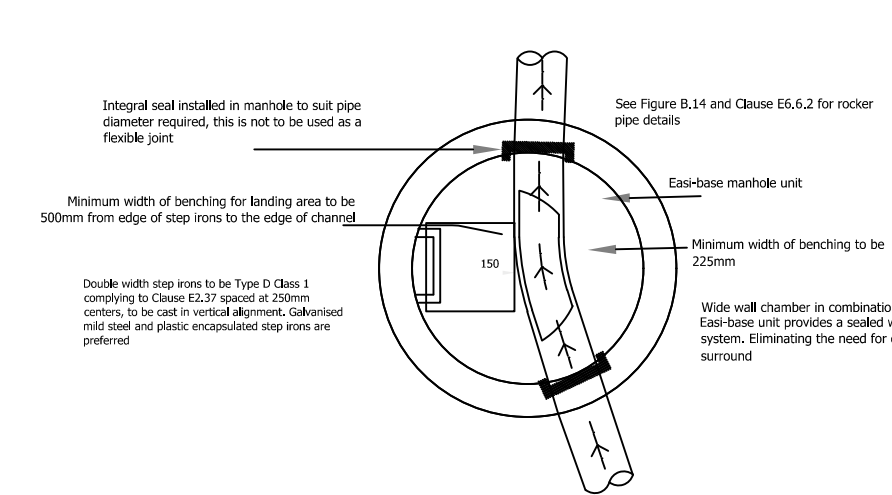
Type A Alternative Wide Wall Manhole Type C (Design and Construction Guidance)

For use on manholes of depth from cover level to soffit level between 3000mm and 6000mm, Wide wall manhole ring construction



Typical Widewall Manhole Plan View

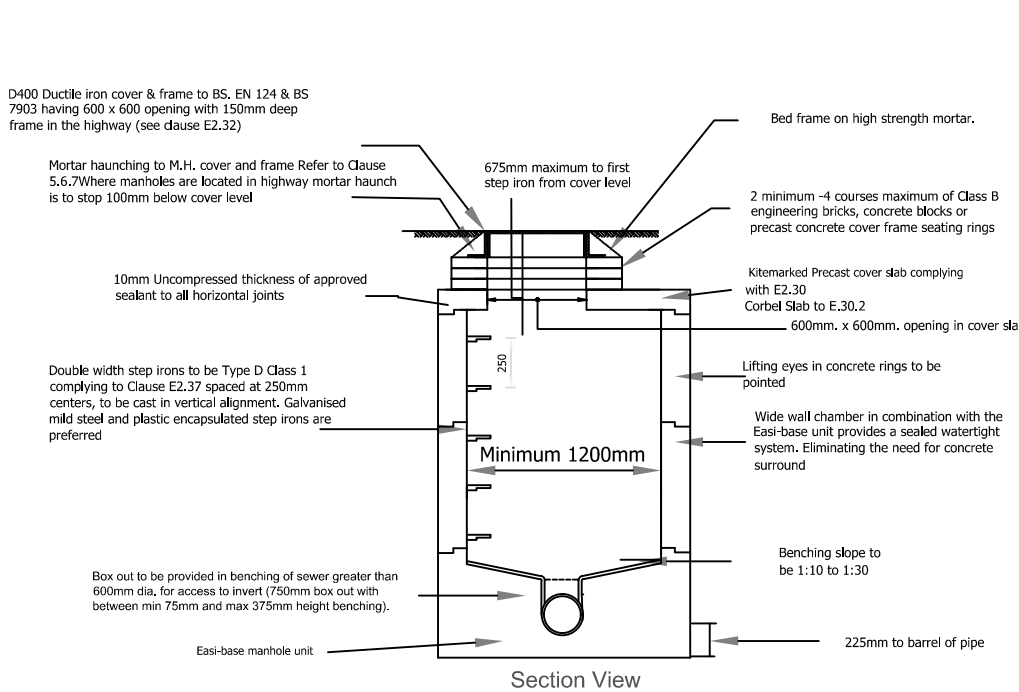
Type C (Design and Construction Guidance)



Typical Widewall Manhole Construction

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

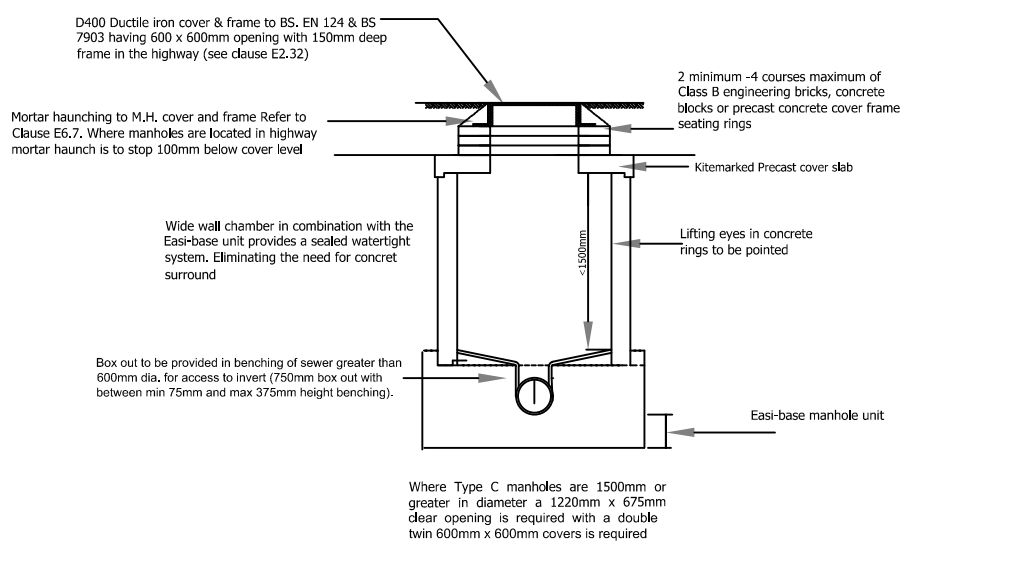
Maximum depth from cover level to soffit of pipe 3000mm, Wide wall manhole ring construction



Shallow Manhole Construction

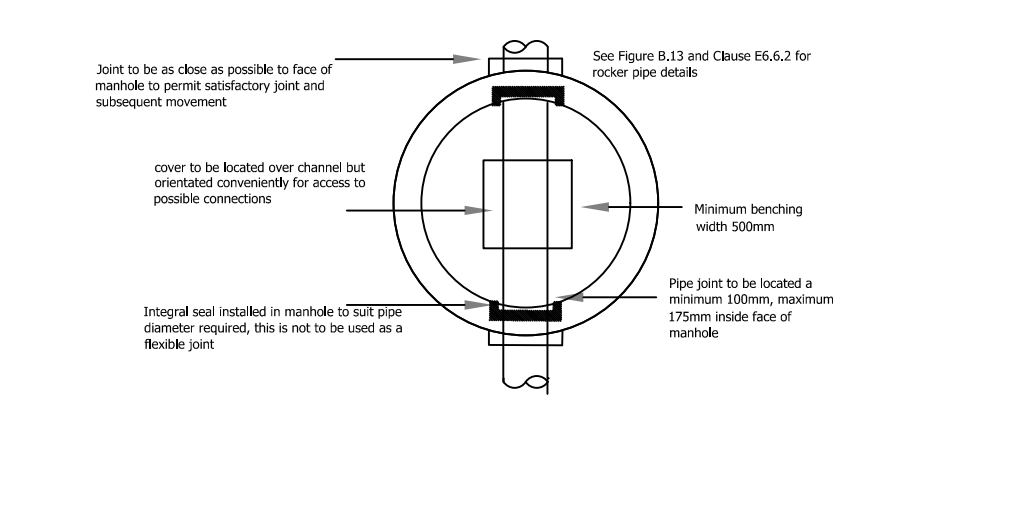
Type C (Design and Construction Guidance)

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



Shallow Widewall Manhole Plan View

Type C (Design and Construction Guidance)



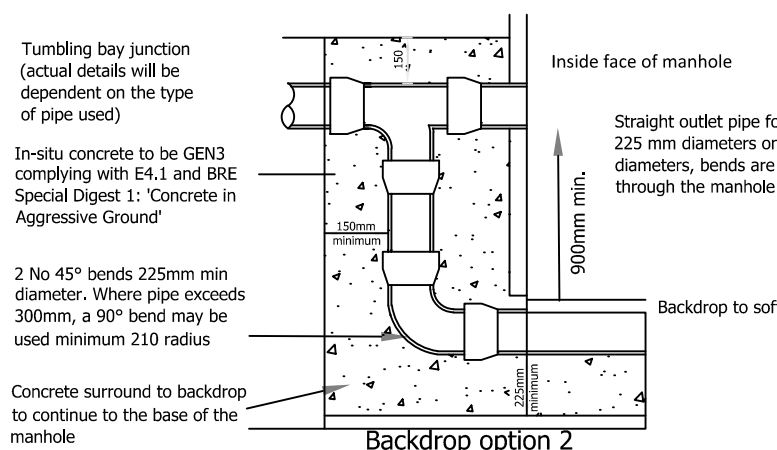
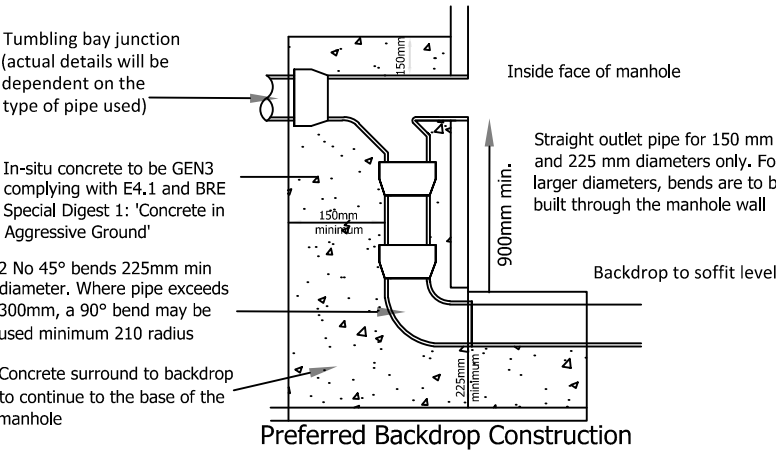
General Notes

1. Do not scale this drawing.
2. All dimensions are in millimetres unless stated otherwise.
3. This drawing is to be read in conjunction with all other relevant drawings & specifications.
4. All proprietary items to be installed in strict compliance with manufacturers instructions and recommendations.
5. No works shall commence on site until approval has been obtained from all relevant Agencies / Authorities.
6. All dimensions referred to in this drawing must be verified.

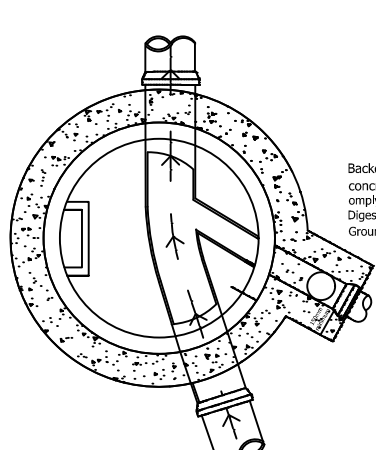
Yorkshire Water Notes

1. All adoptable sewer works and material to be in accordance with "Design and Construction Guidance (DCG)/Code for Adoption". The Relevant British/European and Yorkshire Water's Standards/Requirements/Addendum to the Mechanical and Electrical Specification and must be 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 (also refer Design and Construction Guidance for restrictions on tree planting adjacent to sewers).
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 A1).
9. Yorkshire Water policy is that brick manholes and 1050mm dia. manhole rings are not preferred. Instead, it is preferred that you use a type "B" manhole with 1200mm dia, 1350mm dia, or 1500mm dia 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 BS1 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 day ware channel in manholes.
11. The minimum crushing strength for clay pipes should be as follows: 1000mm dia. 40kN/m, 1500mm 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".

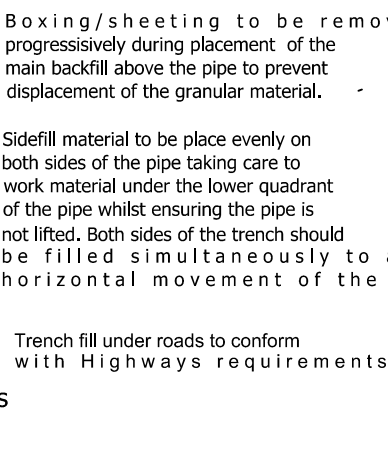
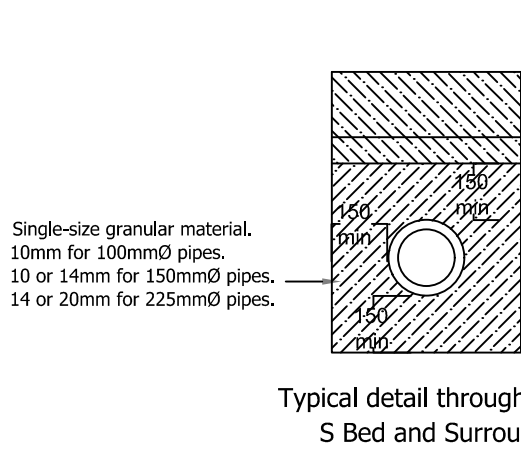
Backdrop details



Backdrop plan view



Pipe surround details



P3	Drawing revised inline with Yorkshire Water comments	SG	22.07.26
P2	Drawing revised inline with Yorkshire Water comments	SG	16.03.26
P1	First Issue	SG	29.09.25
rev	description	drawn	date

Preliminary



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project:
Land off Roslyn Avenue, Netherton, Huddersfield

drawing title:
Section 104 Construction Details - Sheet 1

Drawing Number:	Drawn by:	Checked by:
EE100008-221	SG	SG
Project ref:	scale:	date:
EE100008	As Shown	29.09.2025
		original paper size:
		A1

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