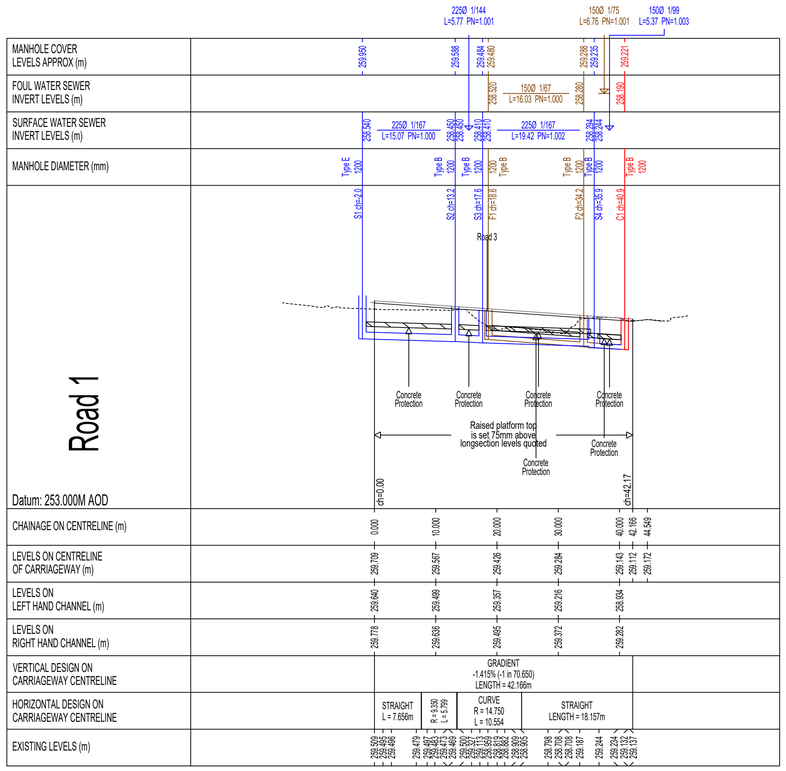
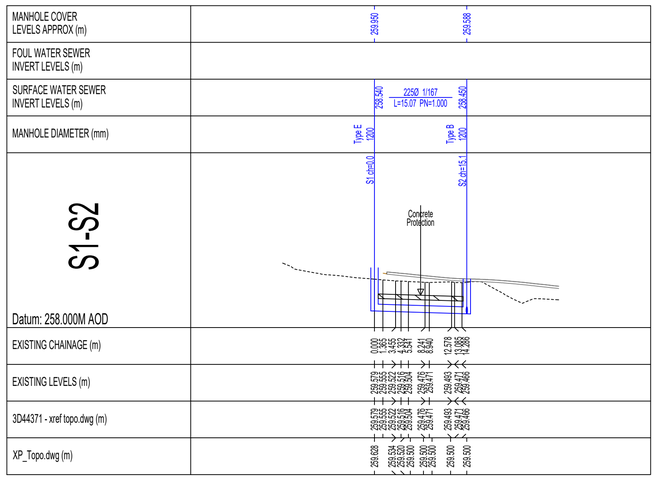




INFORMATION WITHIN THIS DRAWING IS NOT NECESSARILY PRODUCED TO SCALE. ALWAYS USE FIGURED DIMENSIONS AND CO-ORDINATES - IF IN DOUBT, ASK.

NOTES

1. To be read in conjunction with Eastwood and Partners drawings prefixed 44371.
2. All pipes shall be either:
 A - Vitrified clay to BS EN 295 with a minimum crushing strength as follow :-
 150 dia. - 40 kN/m
 225 dia. - 45 kN/m
 300 dia. - 72 kN/m
 B - PVC (certified to WIS 4-35-01 & BS/EN 13476)
 C - Class 120 concrete to BS 5911-1:2002/EN 1916.
3. All pipes should always connect soffit to soffit unless noted otherwise.
4. All sewers to have BSI kitemark status (certified to WIS 4-35-01 & BS EN 13476). Maximum pipe length to be 3m. Plastic channel sections in manholes are not acceptable, Clay channel sections shall be used.
5. 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 none vehicular access areas) then a concrete slab should be provide above granular bed and surround.
6. Manhole covers shall/must have a clear opening of 600 and shall be class D400 to BS EN 124 with 150 deep frames in highways.
7. Pipes entering manholes and road gullies shall have a flexible joint within 600 of the inside the manhole or gully joining with a short Rocker pipe.
8. The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
9. Sewers must have 5m clearance from trees and hedges
10. All trenches in roads and paved areas shall be backfilled with Type 1 DOT granular sub-base material, or other granular material approved by the highway authority.
11. Fill ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Water before any sewer works are carried out.
12. All insitu concrete to be designated mix FND2 to BS 8500-1 unless agreed otherwise.
13. The invert levels at the proposed points of connection to existing public sewers shall be checked before any new drains are constructed. Any variation to the levels shown on the drawing shall be notified to Eastwood & Partners.
14. The chamber size of manholes with more than one connection in them may need to be increased an increment to accommodate the connections and bends.
15. Cover levels are indicative only. Covers to be set to suit camber/gradient of existing and proposed roads.
16. Cover slabs must carry the BSI Kitemark or will be rejected by Yorkshire Water Inspector. Where the clear opening of the Kitemarked product is different to that of the cover and frame, a loading bearing slab should be fitted above the cover slab to bring the size down to 600mm x 600mm for the Yorkshire Water specified cover size. Please refer to Concrete Pipe Systems Association (CPSA), 'Technical Bulletin' issued Autumn 2004 for Kitemarked cover slab opening sizes.
17. All foul lateral sewers and drains to be 150Ø unless noted otherwise.
18. Yorkshire Water policy is that Type "C" brick manholes and 1050mm dia manhole rings are not preferred. Instead it is preferred that you use a type "B" manhole with 1200mm dia or 1500mm dia rings, with the opening sited over the channel where depth of cover to pipe soffit is 1 - 1.5m.
19. 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.
20. 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.
21. All adoptable sewer works and material to be in accordance with "Code for Adoption". The Relevant British/European and Yorkshire Water's Standards/Requirements/Addendum to the Mechanical and Electrical Specification and Kitemarked.
22. 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 with regard to the disposal of the filter drain/land drainage run-off.
23. Sulphate resistant cement (C20-DC2) and precast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.
24. Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (Table A2).
25. Adoptable plastic sewer pipes to be BSI Kitemarked (certified to WIS 4-35-01 and BSI/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 prefer clayware channel in manholes. We have found that plastic channels are difficult to set in concrete because they float and a satisfactory finish cannot be obtained on the benching.
26. The clearance of the crossover points (min 300mm) between the surface water, foul sewers, rising main and other services should be sufficient clearance to provide 150mm surround of a certain mm that exceeds this (200mm).
27. All adoptable laterals to be 150Ø and VC unless stated otherwise

REV	DESCRIPTION	SIG	CHK	DATE
A	First Issue.			

CRONROY BROOK DEVELOPMENTS LTD

THE FOUNTAIN WELLTHORNE LANE, INGBIRTHWORTH

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SCALE WHEN PLOTTED AT A1	DRAWING STATUS
1:500H/1:100V	PRELIMINARY

DRAWN	CHECKED	DATE	DRAWING NUMBER	REV
BJM	?	Not Issued	44371/015	A