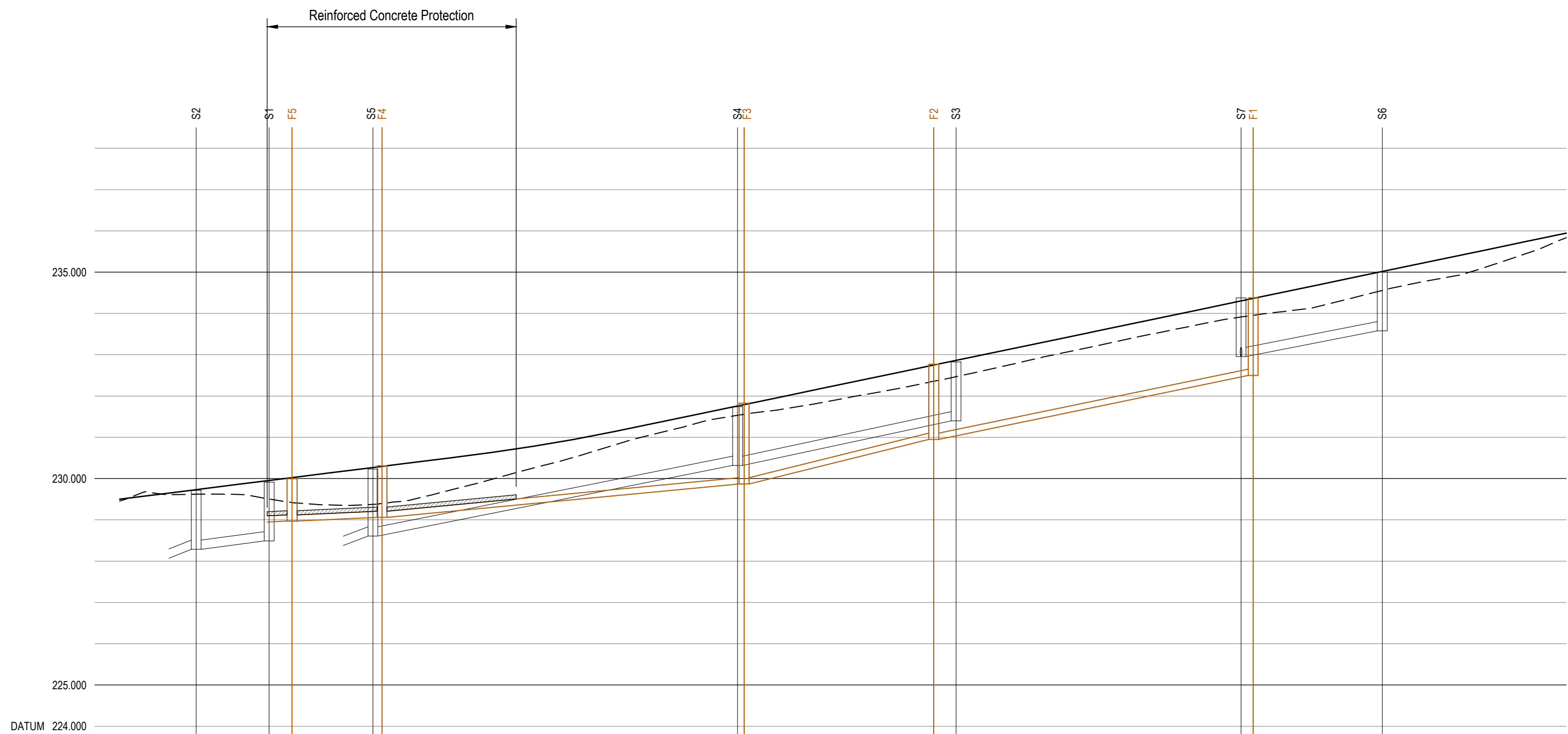
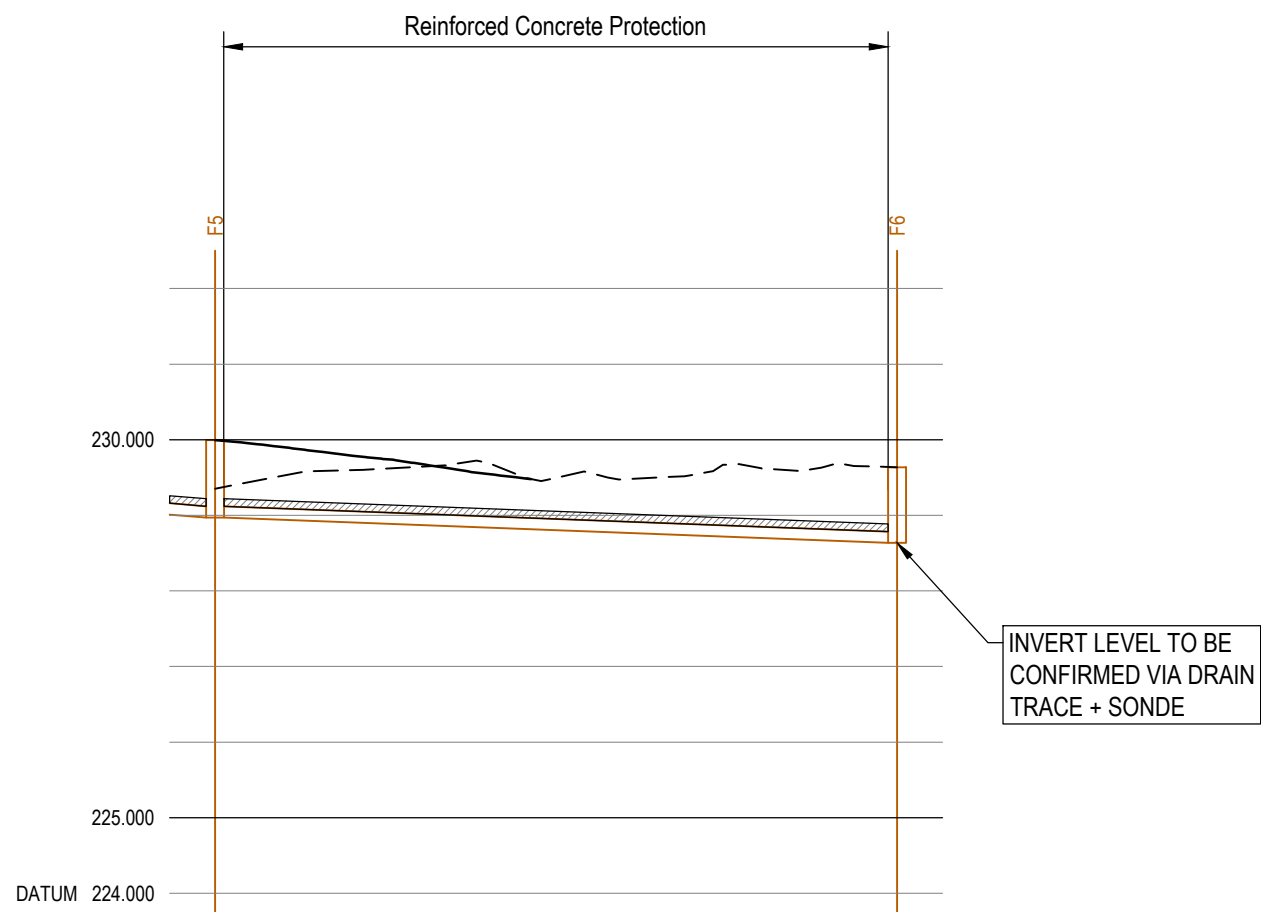


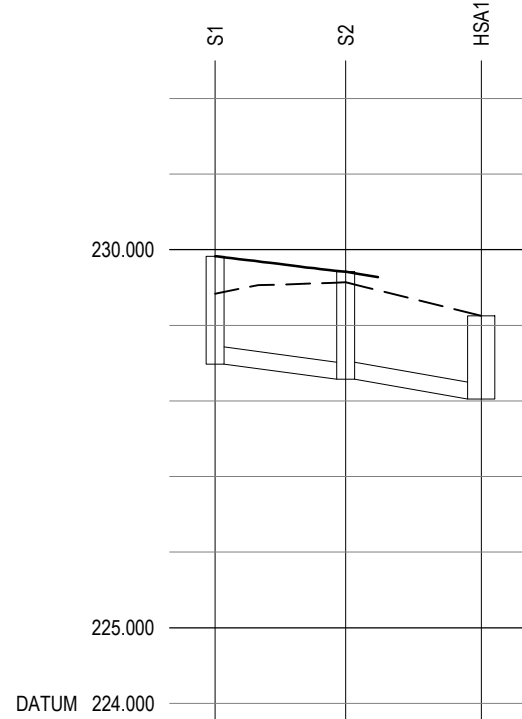


ROAD1

[illegible]

F5-F6

GROUND LEVEL	229.984	229.789	229.501	229.507	229.630	
FOULWATER COVER LEVEL	229.984					229.634
FOULWATER INVERT	228.970					228.636
FOULWATER DETAILS				Pipe 1.004 Dia 150 Circular CLAY 1 in 135		
FOULWATER LENGTHS		45.102				



S1-HSA1

GROUND LEVEL	229.813	229.863
STORMWATER COVER LEVEL	229.913	229.711
STORMWATER INVERT	228.488	228.286
STORMWATER DETAILS	Pipe 1.000 Dia 225 Circular CLAY 1 in 43	Pipe 1.001 Dia 225 Circular CLAY 1 in 34
STORMWATER LENGTHS	8.631	8.968

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

NOTES

- All pipes shall be either:
- A - PVC-U to have BS1 kitemark status (certified to WIS 4-35-01 and to BS EN14376) Wavin or similar approved. Maximum pipe length to be 3m. Plastic channel sections in manholes are not acceptable, clay channel sections shall be used.
- B - Pipes that where plastic pipes are installed into the ground prior to obtaining approval, then the Developer will have to provide a Light-line survey and report of the prospectively adoptable sewers, which will be at the Developer's expense.
- OR
- B - Vitrified clay to BS EN295 with a minimum crushing strength as follow :-
150 dia. - 40 kN/m
225 dia. - 45 kN/m
300 dia. - 72 kN/m
- OR
- C - Class 120 concrete to EN1916 / BS 5911-1: 2002.
2. Pipes of 375mmØ or greater shall be capable conforming to BS5911 Part 100.
3. Where plastic pipes are proposed for adoptable sewers, structural calculations for the plastic pipes and a site investigation report to prove that the ground condition is suitable for the plastic pipes are to be produced.
4. All pipes are to be laid soffit level at manholes unless noted otherwise.
5. All adoptable sewer works and materials to be in accordance with "Sewers for Adoption" (8th edition), the relevant British/European standards and Yorkshire Water standards/revisions/addendum and be kitemarked.
6. Manhole covers shall have a clear opening of 600mm and shall be cast D400 to BS EN 124 with 150 deep flanges in highways. Covers to have closed keyways and are to be bedded on steel slabs with 1.3 mortar haunching.
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 Roker pipe.
8. Plastic channel sections in manholes are not acceptable and clayware is preferable. Plastic channels are difficult to set in concrete and a satisfactory finish cannot be obtained on the benching.
9. The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
10. Sewers must have 5m planning clearance from trees and hedgerows (also refer to figure 2.3 in "Sewers for Adoption" 8th edition for restrictions on trees planting adjacent to sewers).
11. Sewers to be laid on a class B bedding (150mm granular bed and surround). Where depth of cover to top of sewer less than 1.2m in highways and verges (more than 0.9m in more vulnerable access areas), a concrete slab is to be provided above the granular bed and surround.
12. All trenches in roads and paved areas shall be bedded with Type 1 DOT granular sub-base material, or other granular material approved by the highway authority.
13. Filled ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Water before any sewer works are carried out.
14. Sulphate resistant cement (C20-D02) and precast concrete products must be used or a laboratory report provided proving that such preparations are not necessary.
15. 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.
16. The chamber size of manholes with more than one connection in them may need to be increased by an increment to accommodate the connections and bends.
17. Cover levels are indicative only. Covers to be set to suit camber/gradients of existing and proposed roads.
18. No land drainage is to connect to the public sewers, either directly or indirectly.
19. Cover slabs must carry the BS1 kitemark and will be rejected by the Yorkshire Water inspector. Where the clear opening of the kitemarked product is different to that of the cover and frame, a load bearing slab must be fitted above the cover slab to bring the slab depth to 600mm(Ref. to CPUSA Technical Bulletin issued autumn 2004 for Kitemarked cover slab opening sizes).
20. If a Yorkshire Water policy not to accept Type 1 brick manholes and 1500mm diameter rings. Instead it is preferred that you use a Type B manhole with 1200mm diameter or 1500mm diameter rings with the opening staved over the channel where depth of cover to pipe soffit is 1000mm to 1500mm.
21. Detachment chambers to be a min. 450mmØ chamber for 150mmØ foul and surface water pipes up to 1.2m deep. For depths greater than 1.2m, restricted access opening to 350mm is required for health and safety reasons. The maximum depth of detachment chamber to be 2.0m, where depth exceeds 2m, manhole to be constructed as a Type B manhole.
22. Any connection into an existing Yorkshire Water Sewer should only be made following the submission of a completed application form and method statement for VW approval. This must be provided giving 21 days notice of the intention to connect to the public sewer.
23. Yorkshire Water prefer that any highway ducts connect directly into an adoptable surface water sewer unless the connection is into a manhole at the head of a drainage run.
24. Where a B125 cover and frame has been approved, this must not be coated in plastic and must have lifting eyes sited suitably to accommodate standard lifting tynes. **Secure** cover covers are not acceptable.

E	Updated to suit the latest site layout.	BJM	CH	27.01.22
D	Updated to suit the latest site layout.	BJM	CH	08.03.21
C	Updated to suit S104 comments rec'd 30.03.20 (H reference number added, F3 & F4 amended to suit 1:135 min gradient)	GH	CH	15.04.20
B	Updated to suit latest road and drainage design, drawing title updated. Concrete protection added.	BJM	CH	21.02.22
A	First Issue.			
REV	DESCRIPTION	SIG	CHK	DATE

NEWETT HOMES

THURLSTONE

LONGITUDINAL SECTIONS
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EOP

SCALE WHEN PLOTTED AT A1 1:100VER 1:500HOR			DRAWING STATUS PRELIMINARY	
DRAWN	CHECKED	DATE	DRAWING NUMBER	REV
RH	CH	09.05.19	43733/011	E