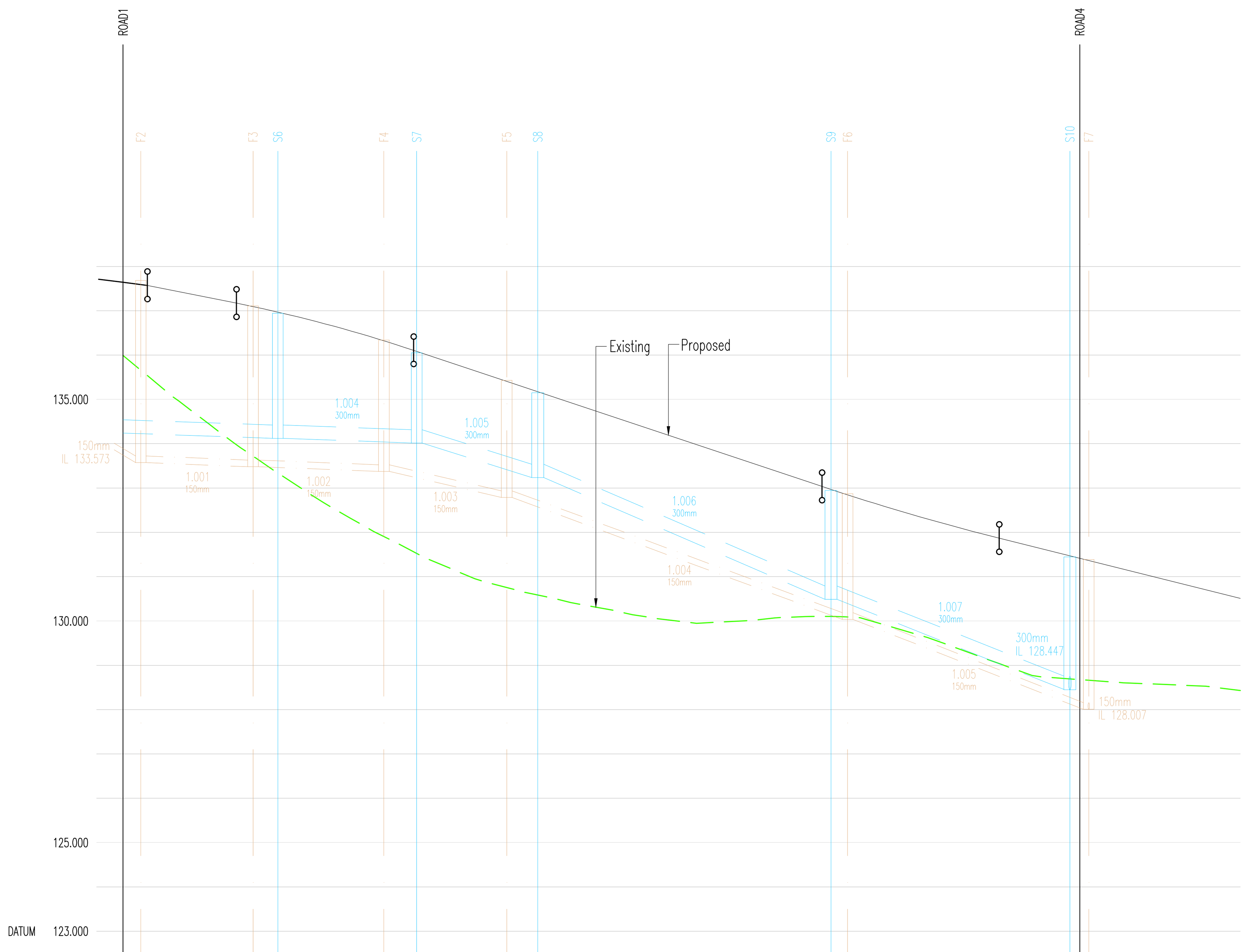

ROAD3

Row	Values
CHAINAGE	0.000, 1.999, 2.750, 7.897, 8.106, 11.237, 12.795, 14.673, 15.000, 17.467, 20.000, 25.000, 29.440, 30.000, 32.795, 33.139, 40.000, 43.305, 45.379, 46.806, 50.000, 51.502, 60.000, 70.000, 76.959, 78.892, 79.900, 80.000, 81.777, 84.351, 85.000, 90.000, 95.000, 98.892, 100.000, 106.864, 107.980, 108.898, 110.000, 120.000, 126.115
EXISTING GROUND LEVEL	135.990, 134.399, 133.001, 131.837, 130.931, 130.442, 130.062, 130.000, 130.103, 129.674, 128.957, 128.646, 128.547, 128.432
ALIGNMENT LEVEL	137.572, 137.282, 137.171, 137.079, 136.848, 136.583, 136.286, 136.105, 135.625, 134.959, 134.293, 133.627, 133.035, 132.961, 132.643, 132.346, 132.069, 131.869, 131.813, 131.313, 130.813, 130.507
VERTICAL ALIGNMENT	G= −4.000% 1: −25.0; L= 20.000 KF= −7.51880; G= −6.660% 1: −15.0; KF= 12.04819 L= 20.000; G= −5.000% 1: −20.0
HORIZONTAL ALIGNMENT	R= 30.000; R= 30.000
LEFT HAND CHANNEL	137.289, 137.214, 137.010, 136.779, 136.515, 136.217, 135.889, 135.556, 135.223, 134.890, 134.557, 134.224, 133.891, 133.558, 133.225, 132.893, 132.575, 132.277, 132.001, 131.744, 131.494, 131.244, 130.994, 130.744, 130.494, 130.439
RIGHT HAND CHANNEL	137.435, 137.427, 137.351, 137.148, 136.917, 136.652, 136.354, 136.027, 135.694, 135.361, 135.028, 134.695, 134.362, 134.029, 133.696, 133.363, 133.030, 132.712, 132.415, 132.138, 131.882, 131.632, 131.382, 131.132, 130.882, 130.632, 130.576
STORMWATER COVER LEVEL	136.944, 136.052, 135.147, 132.945, 131.446
STORMWATER INVERT	134.122, 134.122, 134.015, 134.015, 133.237, 133.237, 130.487, 130.487, 128.457
STORMWATER DETAILS	Dia 300 Circular CLAY 1 in 150 Class S Bed and Surround; Pipe 1.004 Dia 300 Circular CLAY 1 in 150 Class S Bed and Surround; Pipe 1.005 Dia 300 Circular CLAY 1 in 18 Class S Bed and Surround; Pipe 1.006 Dia 300 Circular CLAY 1 in 12 Class S Bed and Surround; Pipe 1.007 Dia 300 Circular CLAY 1 in 13 Class S Bed and Surround
STORMWATER LENGTHS	18.352, 16.059, 13.996, 33.001, 26.815
FOULWATER COVER LEVEL	137.686, 137.111, 136.340, 135.427, 132.873, 131.385
FOULWATER INVERT	133.573, 133.480, 133.480, 133.374, 133.374, 132.787, 132.787, 130.037, 130.037, 128.007
FOULWATER DETAILS	Pipe 1.001 Dia 150 Circular CLAY 1 in 135 Class S Bed and Surround; Pipe 1.002 Dia 150 Circular CLAY 1 in 135 Class S Bed and Surround; Pipe 1.003 Dia 150 Circular CLAY 1 in 23 Class S Bed and Surround; Pipe 1.004 Dia 150 Circular CLAY 1 in 14 Class S Bed and Surround; Pipe 1.005 Dia 150 Circular CLAY 1 in 13 Class S Bed and Surround
FOULWATER LENGTHS	12.601, 14.255, 13.362, 38.565, 27.313

SUBJECT TO THE APPROVAL OF ALL RELEVANT AUTHORITIES

N O T E S

ATTENTION IS DRAWN TO THE REQUIREMENTS OF THE CONSTRUCTION DESIGN AND MANAGEMENT REGULATIONS 2015 AND THE DUTIES AND RESPONSIBILITIES CONTAINED THEREIN

Adoption General Notes

1. All adoptable sewer works and materials to be in accordance with Sewerage Sector Guidance (SSG), the relevant British/European and the adopting Water Authority standards/Requirements/Addendum to the Mechanical and Electrical Specification 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. Cover slabs must carry the BSI Kitemark or may 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 600x600mm for Yorkshire Water specified cover size. Please refer to the Concrete Pipe Systems Association (CPSA), 'Technical Bulletin' issued autumn 2004 for kitemarked cover slab opening sizes.
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, (please also refer to Figure 2.3 on page 33 in "Sewers for Adoption" 6th Edition 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 none vehicular access areas) then a concrete slab should be provided above the granular bed and surround.
8. Bedding and backfill material to conform to the requirement of Water Industry Specification 4–08–02 (Table A2)
9. Adoptable plastic sewer pipes to be BSI Kitemarked (Certified to WIS 4–35–01 and BS/EN13476). Adoptable sewer pipes to be laid in maximum 3 metre lengths unless there is a specific operational need to lay longer.
10. 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.
11. 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.
12. Yorkshire Water's policy is not generally to accept Type "C" brick manhole and 1050mm dia manhole rings. 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.
13. If plastic pipes are to be used then the following should apply:–
    a. All adoptable sewers to be BSI Kitemark (certified to WIS 4–35–01).
    b. Bedding and backfill material to conform to the requirements of Water industry Specification 4–08–02 (Table A2)
14. 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.
15. Where plastic pipes are installed into the ground prior to getting full technical approval, the developer must provide a CCTV survey of the prospectively adoptable sewers and a deformation test (Light–Line test) of the plastic pipes.
16. Demarcation chambers to be a min. 450mmø chamber for 100mmø foul & 150mmø surface water pipes up to 1.2m deep. For depths greater than 1.2m, restricted access opening to 350mm is required for safety reasons.
17. Maximum depth of demarcation chamber to be 3m, where depth exceeds 3m, manhole to be constructed as type B manhole.
18. Where a B125 cover and frame has been approved, this must not be coated in plastic and must have lifting eyes suitably sizes to accommodate standard lifting keys. Screw down covers are not acceptable.
19. Yorkshire Water is not obliged to accept filter drain/land drainage runoff into the public sewer network or adoptable drainage system (directly or in–directly). An alternative method of disposal of the land drainage runoff will therefore be required and you will have to liaise with the Land Drainage Authority/Land Drainage Section with regard to the disposal of the filter drain/land drainage runoff is required.
20. Sulphate resisting cement (C20–DC2) and precast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.
21. Strength of vitrified clay pipes (if used) to be 40KN/m for 100ø, 40KN/m for 150ø, 45KN/m for 225ø and 72KN/m for 300ø. All concrete pipes to be Class 120 concrete to EN 1916/BS 5911–1:2002.
22. All levels of existing drainage to be confirmed prior to work commencing on site.
23. The contractor must allow for any fee's required for road and sewer opening permits, sewer connections and make the appropriate applications.
24. There should be enough clearance to accommodate the bedding for both pipes, approx 300mm: If crossover is near rocker then the clearance needed may be increased.

Rev	By	Date	Revision	Chk	Apvd
/	IC	14.11.25	Preliminary	MI	MI

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TITLE
LONGITUDINAL SECTIONS
SHEET 2 OF 5

PROJECT
COCKLEY HILL, KIRKHEATON

CLIENT
GLEESON HOMES

DRAWING STATUS
FOR APPROVAL

Scale	Date	Drawn	Chk.
1:500H 1:100V @ A1	NOV 25	IC	MI

Drg. No. 2298/03/06.02 Rev /