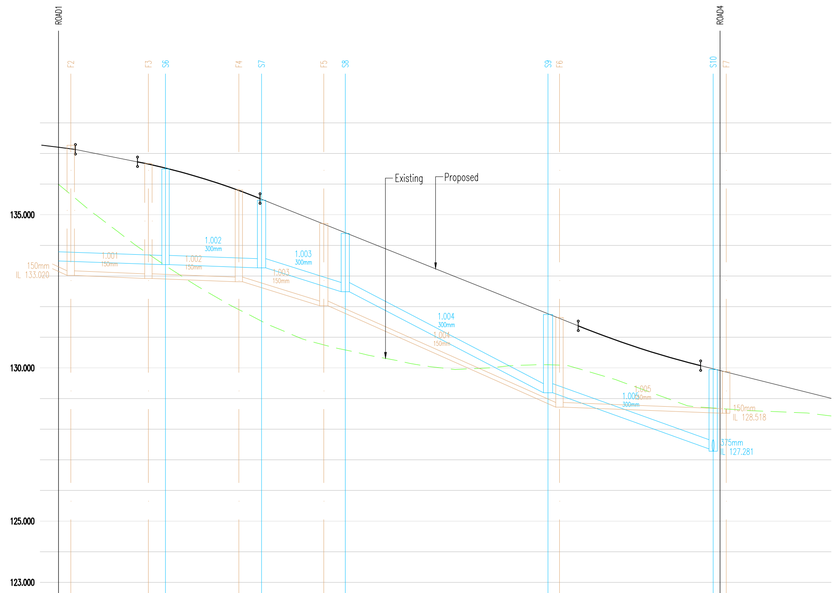

ROAD3

CHAINAGE	0.000	0.993	2.750	7.868	7.906	11.237	12.895	15.000	15.497	20.000	25.000	30.000	33.895	35.505	40.000	43.505	45.379	50.000	57.502	60.000	70.000	76.959	79.950	80.000	82.000	84.351	84.820	90.000	95.000	100.000	104.820	107.884	107.960	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			137.132		136.842		136.726	136.638		136.392	136.095		135.749	135.526		134.958		134.158		133.358	132.558		131.758	131.372		131.358	130.978	130.638		130.331	130.072		129.813		129.313	129.007
VERTICAL ALIGNMENT				G= -4.000%				L= 20.000										G= -8.000%														KF= 6.66667				G= -5.000%		
				1: -25.0				KF= -5.0										1: -12.5														L= 20.000				1: -20.0		
HORIZONTAL ALIGNMENT								R= 30.000															R= 30.000															
LEFT HAND CHANNEL					138.849	138.713													134.089		133.689						131.689		131.289		130.909		130.567	130.262		129.994		129.744						
RIGHT HAND CHANNEL					138.849	138.711	138.706	138.569		136.323	136.027		135.681	135.289		135.027	134.889	134.489	134.227		133.827	133.427	133.027	132.627	132.227	131.827	131.427	131.047	130.704	130.399	130.132		129.882		129.632	129.382		129.132	128.994	128.891	128.854
STORMWATER COVER LEVEL							136.497					135.477					134.399							131.743									129.946								
STORMWATER INVERT							133.372			133.372			133.265	133.265			132.487	132.487						129.187		129.187						127.356								
	Dia 300 Circular CLAY 1 in 150							Pipe 1.002 Dia 300 Circular CLAY 1 in 150					Pipe 1.003 Dia 300 Circular CLAY 1 in 18						Pipe 1.004 Dia 300 Circular CLAY 1 in 10							Pipe 1.005 Dia 300 Circular CLAY 1 in 15										
	18.352							16.059					13.996						33.001							26.815														
	Class S Bed and Surround							Class S Bed and Surround					Class S Bed and Surround						Class S Bed and Surround							Class S Bed and Surround														
FOULWATER COVER LEVEL		137.264				136.669						135.810					134.715									131.643							129.885							
FOULWATER INVERT		133.020				132.920		132.920				132.814					132.030	132.030								128.720	128.720						128.518							
		Pipe 1.001 Dia 150 Circular CLAY 1 in 126						Pipe 1.002 Dia 150 Circular CLAY 1 in 135					Pipe 1.003 Dia 150 Circular CLAY 1 in 17						Pipe 1.004 Dia 150 Circular CLAY 1 in 12							Pipe 1.005 Dia 150 Circular CLAY 1 in 135										
	12.601							14.255					13.362						38.565							27.313														
	Class S Bed and Surround							Class S Bed and Surround					Class S Bed and Surround						Class S Bed and Surround							Class S Bed and Surround														

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 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 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. 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)
13. 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.
14. 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.
15. 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.
16. Maximum depth of demarcation chamber to be 3m, where depth exceeds 3m, manhole to be constructed as type B manhole.
17. 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.
18. 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.
19. Sulphate resisting cement (C20-DC2) and precast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.
20. 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.
21. All levels of existing drainage to be confirmed prior to work commencing on site.
22. The contractor must allow for any fee's required for road and sewer opening permits, sewer connections and make the appropriate applications.
23. 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
B	IC	05.06.26	Updated to suit lowered road levels.	MI	MI
A	IC	27.04.26	Updated road 3 length.	MI	MI
/	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	IC
1:500H 1:100V @ A1	NOV 25	Chk.	MI

Drg. No. 2298/03/06.02 Rev B