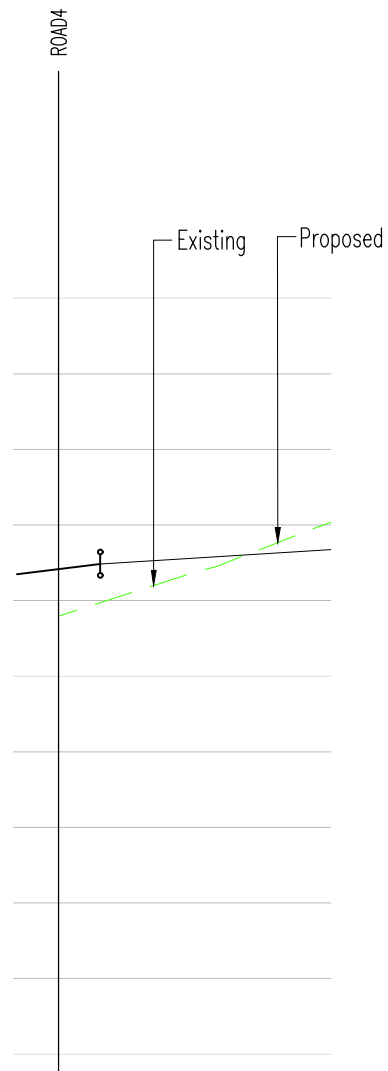


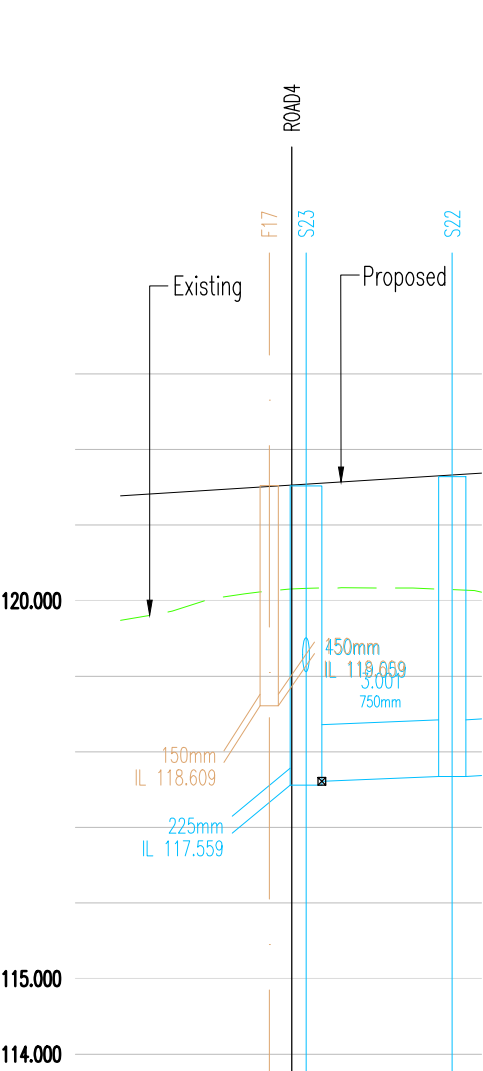
ROAD5

CHAINAGE	0.000	2.750	8.950	10.000
EXISTING GROUND LEVEL	125.792			
ALIGNMENT LEVEL	126.465	126.575	126.477	
VERTICAL ALIGNMENT		G= 1.250%		
		1: 80.0		
HORIZONTAL ALIGNMENT				
LEFT HAND CHANNEL		126.628	126.493	126.507
RIGHT HAND CHANNEL		126.637	126.589	126.744



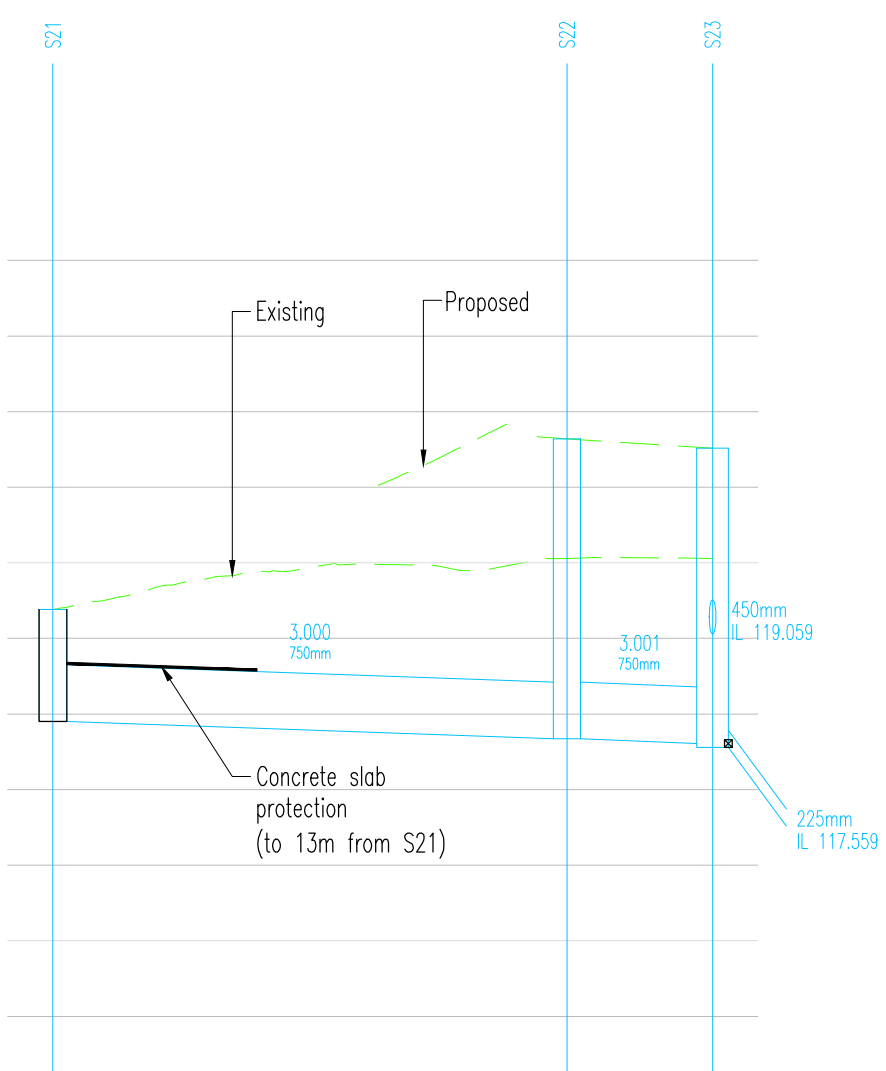
ROAD6

CHAINAGE	0.000	8.231	13.313	13.369	20.000	21.923	23.871
EXISTING GROUND LEVEL							
ALIGNMENT LEVEL	121.386	119.738	121.511	120.131	121.636	120.161	121.685
VERTICAL ALIGNMENT		G= 1.250%					
		1: 80.0					
HORIZONTAL ALIGNMENT				R=			
LEFT HAND CHANNEL	121.317	121.455	121.386	121.517	121.442	121.580	121.750
RIGHT HAND CHANNEL	121.317	121.455	121.386	121.517	121.442	121.580	121.750
STORMWATER COVER LEVEL					121.515		121.638
STORMWATER INVERT					117.609		117.673
					Pipe 3,001 Dia 750 Circular CONC 1 in 150		Dia 750 Circular CONC 1 in 150
					9.629	34.001	
FOULWATER COVER LEVEL					121.521		
FOULWATER INVERT							



DATUM 114.000

GROUND LEVEL	119.392	119.775	119.992	121.828	121.562
STORMWATER COVER LEVEL	119.382			121.638	121.515
STORMWATER INVERT	117.800			117.673	117.609
		Pipe 3,000 Dia 750 Circular CONC 1 in 150		Pipe 3,001 Dia 750 Circular CONC 1 in 150	
		34.001		9.629	
		Class S Bed and Surround		Class S Bed and Surround	
FOULWATER COVER LEVEL					
FOULWATER INVERT					



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**
- 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.
 - 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.
 - Filled ground must be filled and consolidated under the supervision, and to the satisfaction, of Yorkshire Water before any sewer works are carried out.
 - 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.
 - The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
 - Sewers must have 5 metres clearance from trees and hedges or the width of the canopy at mature height.
 - 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 non vehicular access areas) then a concrete slab should be provided above the granular bed and surround.
 - Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (Table A2)
 - 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.
 - 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.
 - 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.
 - If plastic pipes are to be used then the following should apply:-
 - All adoptable sewers to be BSI Kitemark (certified to WIS 4-35-01).
 - Bedding and backfill material to conform to the requirements of Water Industry Specification 4-08-02 (Table A2)
 - 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.
 - 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.
 - 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.
 - Maximum depth of demarcation chamber to be 3m, where depth exceeds 3m, manhole to be constructed as type B manhole.
 - 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.
 - 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.
 - Sulphate resisting cement (C20-0C2) and precast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.
 - 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.
 - All levels of existing drainage to be confirmed prior to work commencing on site.
 - The contractor must allow for any fee's required for road and sewer opening permits, sewer connections and make the appropriate applications.
 - 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.

A	IC	05.06.26	Updated to suit lowered road levels.	MI	MI
/	IC	14.11.25	Preliminary	MI	MI
Rev	1	By	Date	Revision	Chk

ARP
ARP ASSOCIATES
Chartered Consulting Engineers

Northwest House ● 5 & 6 Northwest Business Park ● Servia Hill, Leeds ● LS6 2QH
☎ 0113 245 8498 ☎ 0113 244 3864 ● leeds@arpassociates.co.uk ● www.arpassociates.co.uk

ARP Associates is a trading division of ARP Geotechnical Ltd, a company registered in England and Wales with company number 3773833, whose registered office is at 5/6 Northwest Business Park, Servia Hill, Leeds LS6 2QH

TITLE	
LONGITUDINAL SECTIONS SHEET 4 OF 5	
PROJECT	
COCKLEY HILL, KIRKHEATON	
CLIENT	
GLEESON HOMES	
DRAWING STATUS	
FOR APPROVAL	
Scale	Date
1:500H 1:100V © A1	NOV 25
Drg. No.	Rev
2298/03/06.04	A

SUBJECT TO THE
APPROVAL OF
ALL RELEVANT
AUTHORITIES