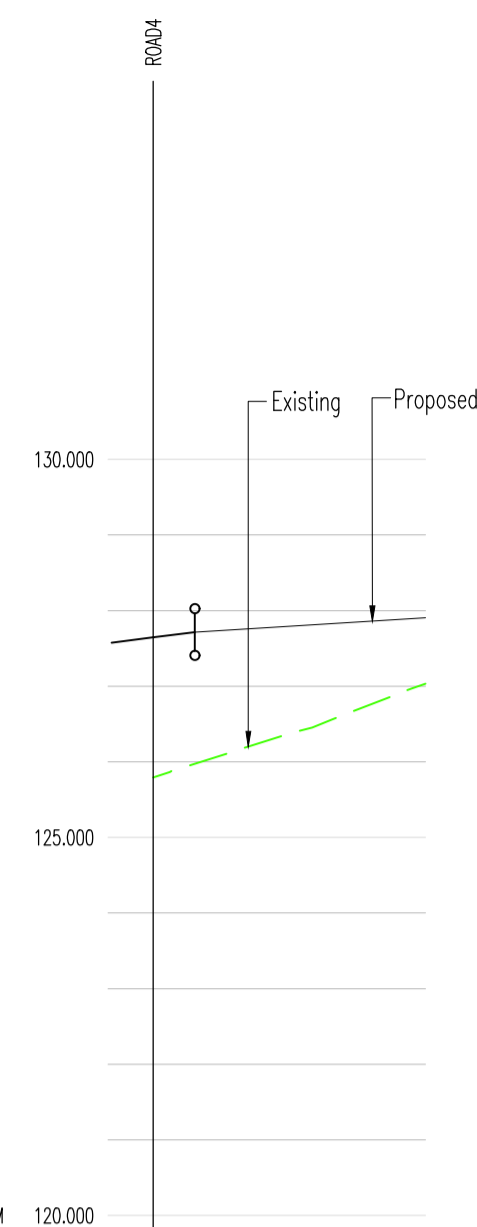


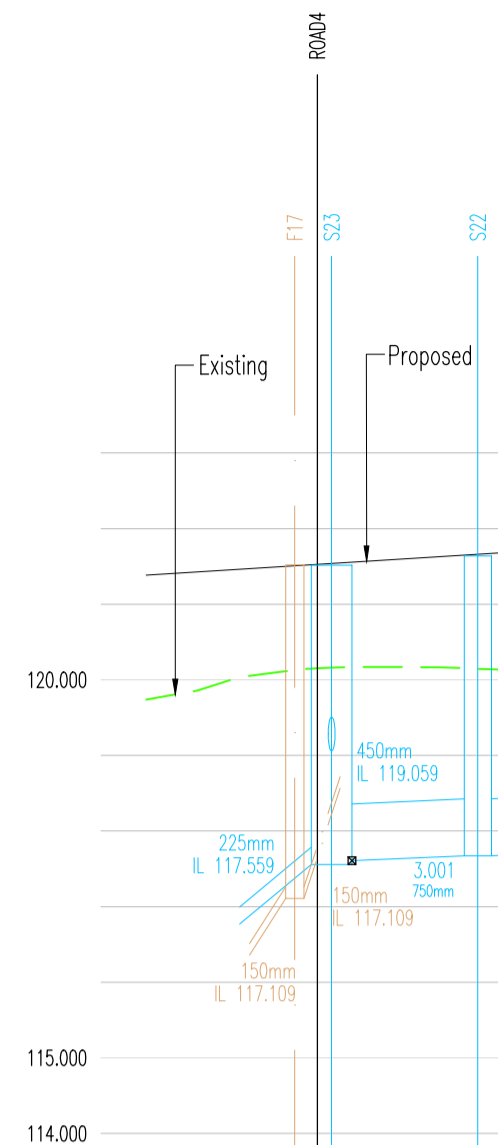
ATTENTION IS DRAWN TO THE REQUIREMENTS OF THE CONSTRUCTION DESIGN AND MANAGEMENT REGULATIONS 2015 AND THE DUTIES AND RESPONSIBILITIES CONTAINED THEREIN

Adoption General Notes

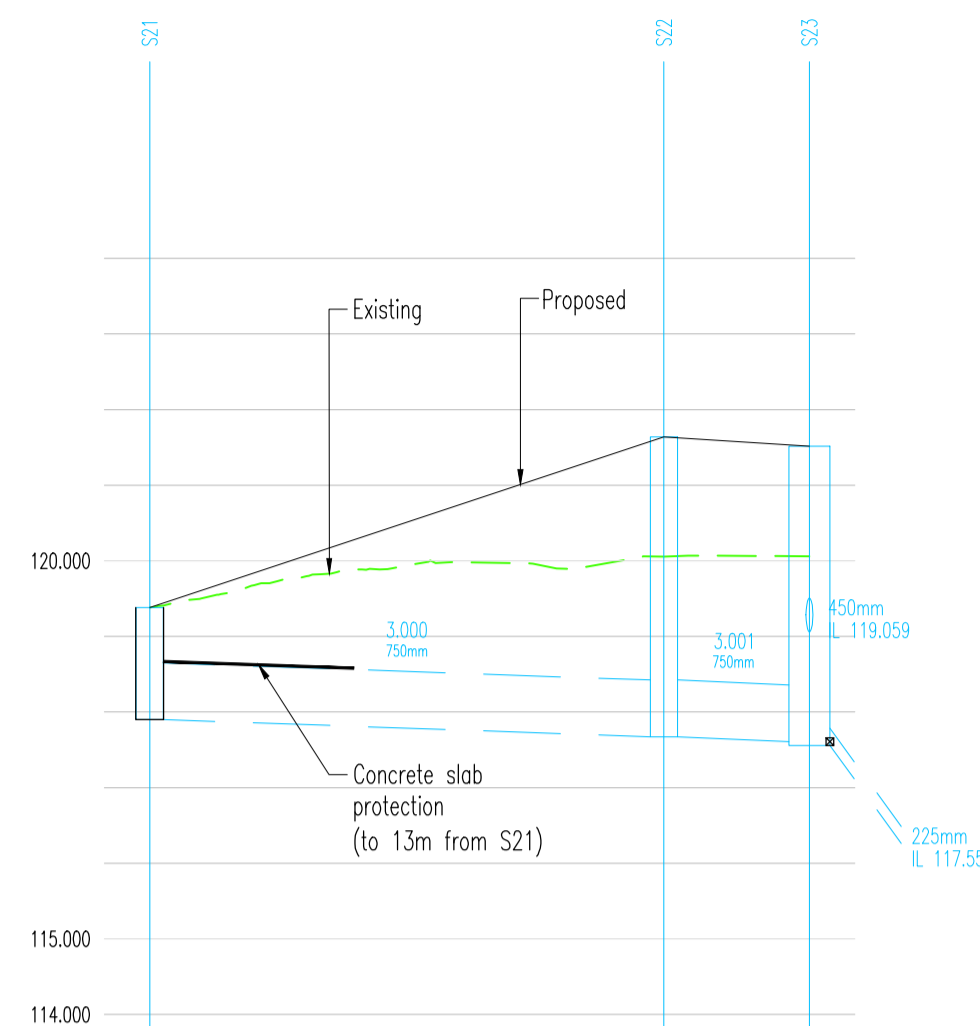
- All adoptable sewer works and materials to be in accordance with Sewerage Sector Guidance (SSG), the relevant British/European and the adopting Water Authority standards/Requirements/Addendum to the Mechanical and Electrical Specification and Kitemarked.
- Manhole covers shall/must have a clear opening 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, (please also refer to Figure 2.3 on page 33 in "Sewers for Adoption" 6th Edition for restrictions on tree planting adjacent to sewers).
- 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.
- 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 bedding.
- 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.
- 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.
 - All adoptable sewers to be BSI Kitemarked (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. 450mm chamber for 100mm dia foul & 150mm dia 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 8125 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.
- 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-DC2) 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 100#, 40KN/m for 150#, 45KN/m for 225# and 72KN/m for 300#. 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 fees 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.



CHANGEG	0.000		2.750		8.250		10.000		18.011	
	125.392		127.714		128.427		10.000		127.035	
EXISTING GROUND LEVEL										
ALIGNMENT LEVEL										
VERTICAL ALIGNMENT	G= 1.250%									
	1: 80.0									
HORIZONTAL ALIGNMENT										
LEFT HAND CHANNEL										
RIGHT HAND CHANNEL										



CHANGEG	0.000		8.231		11.713		13.309		20.000		23.871	
	119.328		120.131		121.511		121.636		120.161		120.112	
EXISTING GROUND LEVEL												
ALIGNMENT LEVEL												
VERTICAL ALIGNMENT	G= 1.250%											
	1: 80.0											
HORIZONTAL ALIGNMENT	R= 27.750											
LEFT HAND CHANNEL												
RIGHT HAND CHANNEL												
STORMWATER COVER LEVEL												
STORMWATER INVERT												
STORMWATER DETAILS	Pipe 3,001 Dia 750 Circular CONC 1 in 150 Class S Bed and Surround											
STORMWATER LENGTHS												
FOULWATER COVER LEVEL												
FOULWATER INVERT												
FOULWATER DETAILS												
FOULWATER LENGTHS												



GROUND LEVEL	119.302	119.777	119.862	119.960	121.562
STORMWATER COVER LEVEL	119.302			121.638	121.515
STORMWATER INVERT	117.900			117.673	117.609
STORMWATER DETAILS	Pipe 3,000 Dia 750 Circular CONC 1 in 150 Class S Bed and Surround		Pipe 3,001 Dia 750 Circular CONC 1 in 150 Class S Bed and Surround		
STORMWATER LENGTHS	34.001		9.629		
FOULWATER COVER LEVEL					
FOULWATER INVERT					
FOULWATER DETAILS					
FOULWATER LENGTHS					

Rev	By	Date	Revision	MI	MI
/	IC	14.11.25	Preliminary		

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ARP Associates is a trading division of ARP Geotechnical Ltd, a company registered in England and Wales with company number 3773813, 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	Drawn	IC
1:500H 1:100V @ A1	NOV 25	Chk.	MI

Org. No.	Rev
2298/03/06.04	/

SUBJECT TO THE APPROVAL OF ALL RELEVANT AUTHORITIES