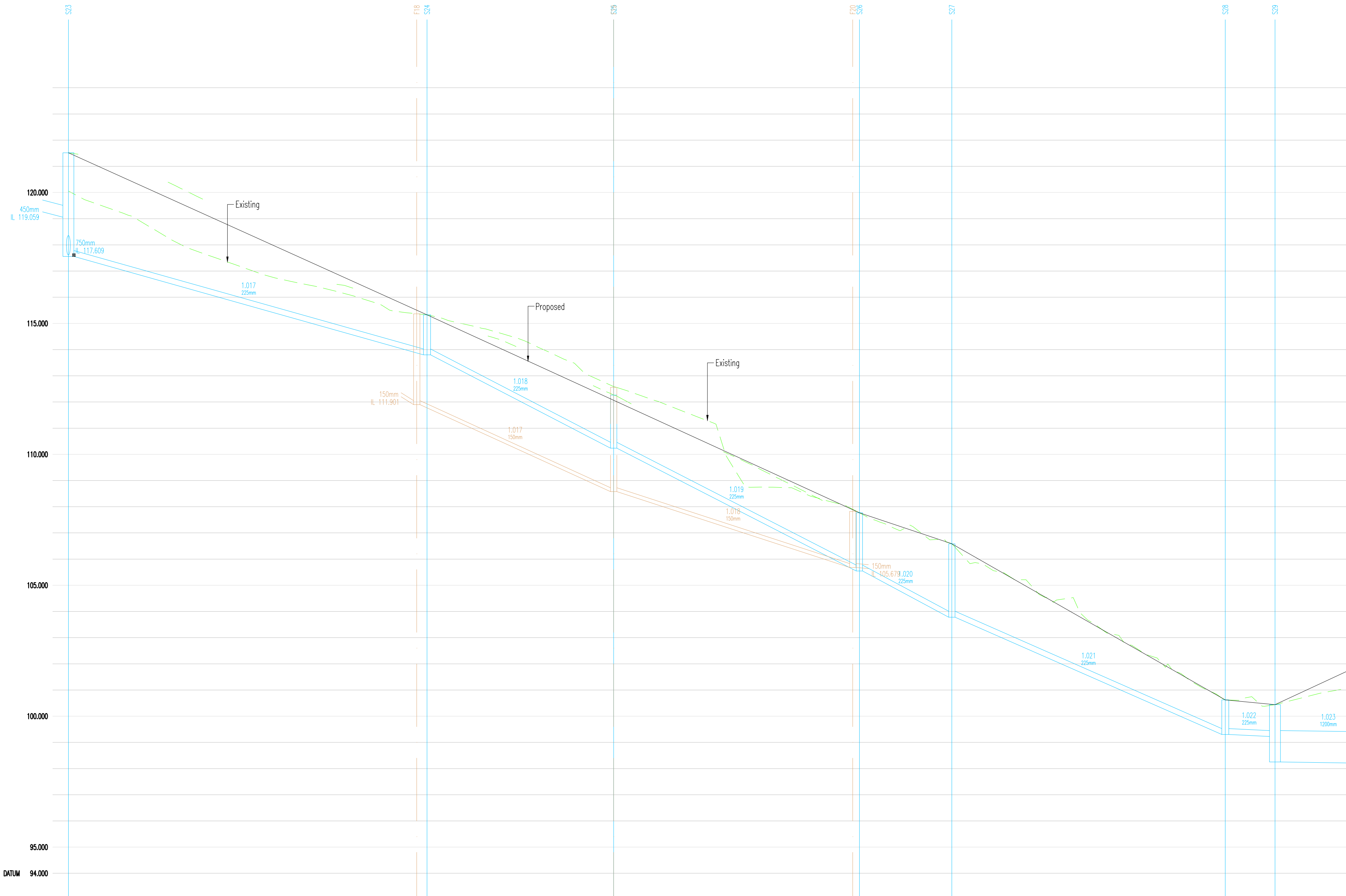


ATTENTION IS DRAWN TO THE REQUIREMENTS OF THE CONSTRUCTION DESIGN AND MANAGEMENT REGULATIONS 2015 AND THE DUTIES AND RESPONSIBILITIES CONTAINED THEREIN

- 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 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 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-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 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.



GROUND LEVEL	121.516	119.246	120.398	117.381	116.720	116.292	115.703	115.263	114.773	114.068	112.969	112.194	111.443	109.653	108.654	107.894	107.217	106.289	105.301	104.474	103.116	101.960	100.766	100.431	100.914
STORMWATER COVER LEVEL	121.515							115.329				112.865				107.770		106.583					100.821	100.441	
STORMWATER INVERT	117.559							113.800 113.800				110.237 110.237				105.546 105.546		103.782 103.782					99.300 99.300	98.225 98.259	
		Pipe 1.017 Dia 225 Circular CLAY 1 in 16							Pipe 1.018 Dia 225 Circular CLAY 1 in 10					Pipe 1.019 Dia 225 Circular CLAY 1 in 10			Pipe 1.020 Dia 225 Circular CLAY 1 in 10			Pipe 1.021 Dia 225 Circular CLAY 1 in 12			Pipe 1.022 Dia 225 Circular CLAY 1 in 127		Pipe 1.023 Dia 1200 Circular CONC 1 in 405
		68.456							35.633					46.909			17.642			52.198			9.491		20.242
		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			Class S Bed and Surround		
FOULWATER COVER LEVEL							115.367					112.562				107.871									
FOULWATER INVERT							111.901					108.576 108.576				105.679									
									Pipe 1.017 Dia 150 Circular CLAY 1 in 11					Pipe 1.018 Dia 150 Circular CLAY 1 in 16											
									36.577					47.091											
									Class S Bed and Surround					Class S Bed and Surround											

SUBJECT TO THE
APPROVAL OF
ALL RELEVANT
AUTHITIES

TITLE

LONGITUDINAL SECTIONS SHEET 5 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.	2298/03/06.05		Rev A