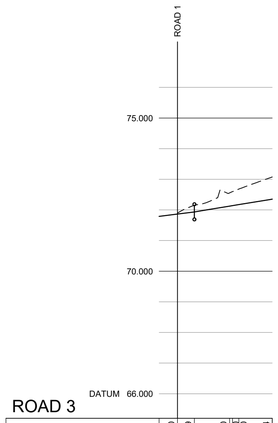
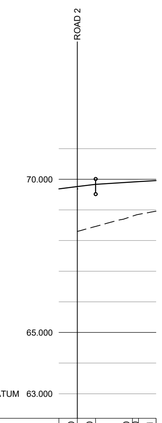


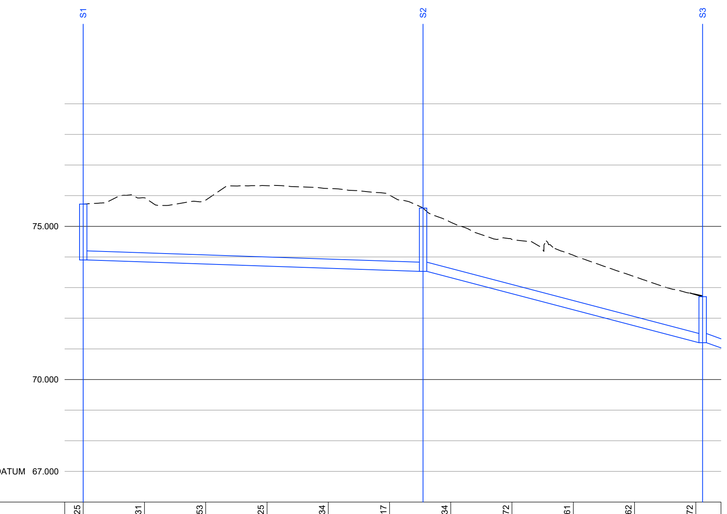
ROAD 3

CHAINAGE	0.000	2.749	8.500	9.000	10.000	15.474
EXISTING GROUND LEVEL	71.898		72.679			73.076
ALIGNMENT LEVEL	71.935		72.172			72.352
VERTICAL ALIGNMENT			G= 3.274% 1: 30.5			
HORIZONTAL ALIGNMENT						
LEFT HAND CHANNEL			72.071	72.104	72.267	72.283
CENTRE LINE	72.009		72.123	72.140 72.172	72.336	72.352
RIGHT HAND CHANNEL			72.192	72.208 72.241	72.405	72.420

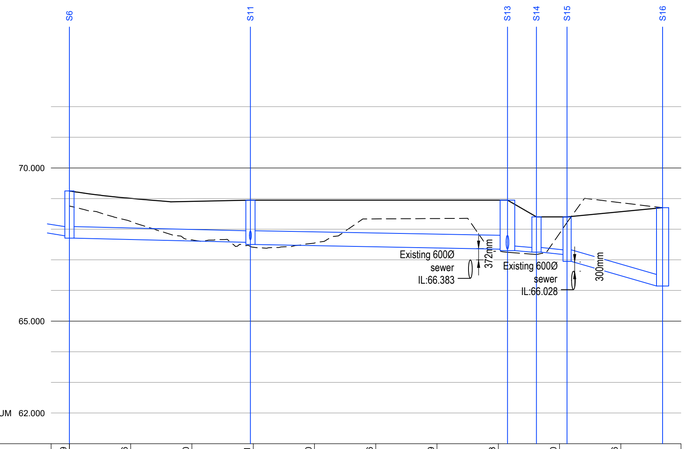


ROAD 2 T

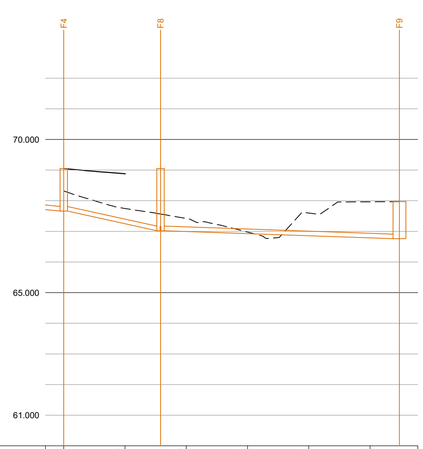
CHAINAGE	0.000	3.000	9.000	10.000	12.861
EXISTING GROUND LEVEL	68.297		68.853		68.958
ALIGNMENT LEVEL	69.761		69.848		69.884
VERTICAL ALIGNMENT			G= 1.250% 1: 80.0		
HORIZONTAL ALIGNMENT					
LEFT HAND CHANNEL			69.961	69.973	70.009
CENTRE LINE	69.861		69.911	69.923	69.959
RIGHT HAND CHANNEL			69.861	69.873	69.909



GROUND LEVEL	75.725	75.931	75.853	76.325	76.234	76.017	75.134	74.572	74.061	73.362	72.772
STORMWATER COVER LEVEL	75.725					75.597					72.703
STORMWATER INVERT	73.900					73.500	73.500				71.203
STORMWATER DETAILS		Pipe 1.000 Dia 300 Circular CLAY 1 in 150					Pipe 1.001 Dia 300 Circular CLAY 1 in 20				
STORMWATER LENGTHS		55.478					45.634				



GROUND LEVEL	69.249	69.006	67.650	67.411	67.550	68.336	68.349	67.283	67.860	68.866	
STORMWATER COVER LEVEL	69.249			68.950				68.950	68.403	68.400	68.702
STORMWATER INVERT	67.708			67.574	67.499			67.350	67.300 67.253	67.253 67.175	66.950 66.148
STORMWATER DETAILS		Pipe 1.005 Dia 375 Circular CONC 1 in 220				Pipe 1.006 Dia 450 Circular CONC 1 in 282		Pipe 1.007 Dia 150 Circular CLAY 1 in 101	Pipe 1.008 Dia 150 Circular CLAY 1 in 64		Pipe 1.009 Dia 375 Circular CONC 1 in 19
STORMWATER LENGTHS		29.544				41.957			4.738	4.996	15.592



GROUND LEVEL	69.051	68.880	67.420	66.977	67.598	67.965	
FOULWATER COVER LEVEL	69.051		69.050				67.971
FOULWATER INVERT		67.662	67.020	67.020			66.760
FOULWATER DETAILS		Pipe 1.003 Dia 150 Circular CLAY 1 in 25		Pipe 1.004 Dia 150 Circular CLAY 1 in 150			
FOULWATER LENGTHS		15.793		39.004			

1. All adoptable sewer works and material to be in accordance with "Code for Adoption". The Relevant British/European and Yorkshire Water's 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. Yorkshire Water is not obliged to accept filter drain/land drainage run-off into the public sewer network or adoptable drainage system (directly or in-directly). An alternative method of disposal of the land drainage run-off will therefore be required and you will have to liaise with the Local Authority, Land Drainage Section with regard to the disposal of the filter drain/land drainage run-off.

5. Cover slabs must carry the BSI Kitemark or will 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 600mm x 600mm for the Yorkshire Water specified cover size. Please refer to Concrete Pipe Systems Association (CPSA), 'Technical Bulletin' issued Autumn 2004 for Kitemarked cover slab opening sizes.

6. Sulphate resistant cement (C20-DC2) and precast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.

7. Adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.

8. Sewers must have 5m clearance from trees and hedges.

9. 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 provide above granular bed and surround.

10. Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (Table A2).

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 policy is that Type "C" brick manholes and 1050mm dia manhole rings are not preferred. 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. Adoptable plastic sewer pipes to be BSI Kitemarked (certified to WIS 4-35-01 and BS/EN13476).Adoptable plastic sewer pipes to be laid in maximum 3 metre lengths unless there is a specific operational need to lay longer lengths. Plastic channel sections in manholes are not acceptable and Yorkshire Water would prefer clayware channel in manholes. We have found that plastic channels are difficult to set in concrete because they float and a satisfactory finish cannot be obtained on the benching.

14. The minimum crushing strength for clay pipes should be as follows : 100mm dia. 40KN/m, 150mm dia. 40KN/m, 225mm dia. 45KN/m and 300mm dia. 72KN/m. The minimum crushing strength for concrete pipes should be - (Class 120 to EN 1916/BS5911-1 2002). Plastic pipes should conform to WIS 4-35-01 and BS EN13476.

15. Where a B125 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.

REV	DESCRIPTION	SIG	CHK	DATE
P01	First issue.	GH	CH	15.03.2024

DUCHY HOMES

DARTON LANE

LONGITUDINAL SECTIONS - SHEET 2

Eastwood
CONSULTING ENGINEERS
St Andrew's House
23 Kingfield Road
Sheffield, S11 9AS
T: 0114 255 4554
E: mail@eastwoodce.com
eastwoodce.com

ECE PROJECT No	SCALE AT A1	STATUS	SUITABLE FOR
47509	1:500H 1:100V	S0	Initial

DRAWING NUMBER

47509	- ECE - XX - XX - DR - C -	0003	REV P01
Project	Originator Zone Level Type Role	Number	