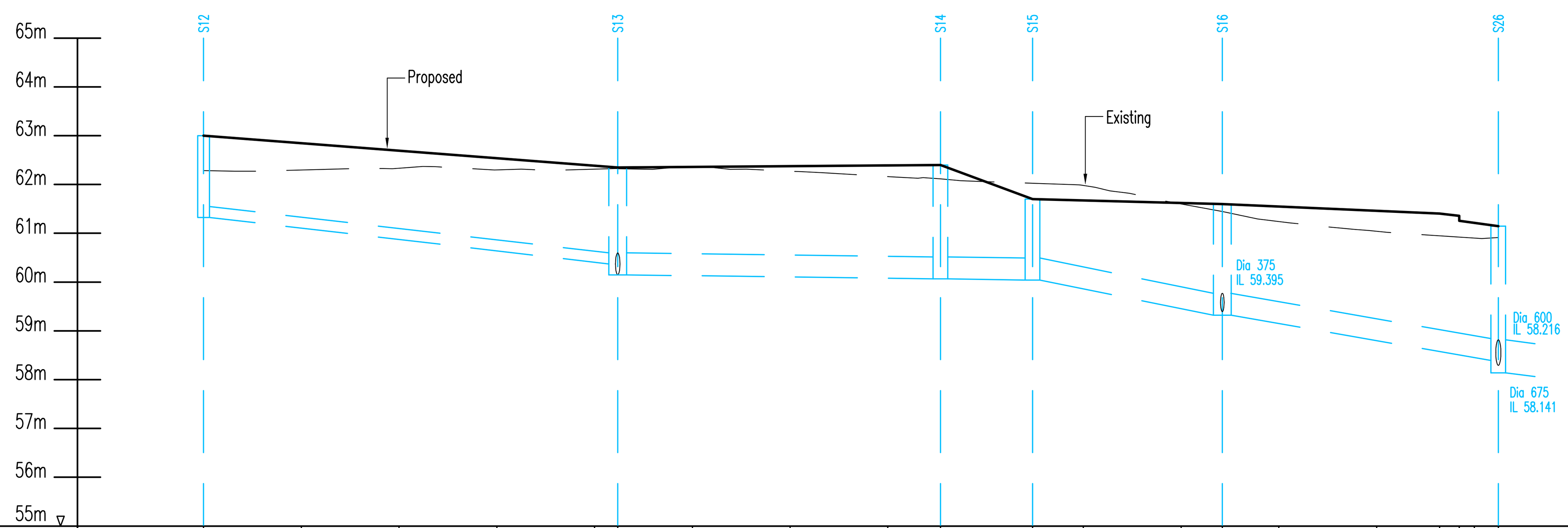
NOTES

Yorkshire Water General Notes

1. All adoptable sewer works and material to be in accordance with Sewerage Sector Guidance Design and Construction Guidance [Code for Adoption]. The Relevant British/European and Yorkshire Water's Standards/Requirements/Local Practice for the Adoption of Small Submersible Foul and Surface Water Pumping Stations 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. 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 non–vehicular access areas) then a concrete slab should be provide above granular bed and surround.
8. There must be enough clearance at crossovers to accommodate bedding to both pipes, approx. 300mm : if crossover is near the rocker then the clearance needed may be increased".
9. Bedding and backfill material to conform to the requirement of Water Industry Specification 4–08–02 (Table A2).
10. 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.
11. 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.
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. 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.

S12–S26



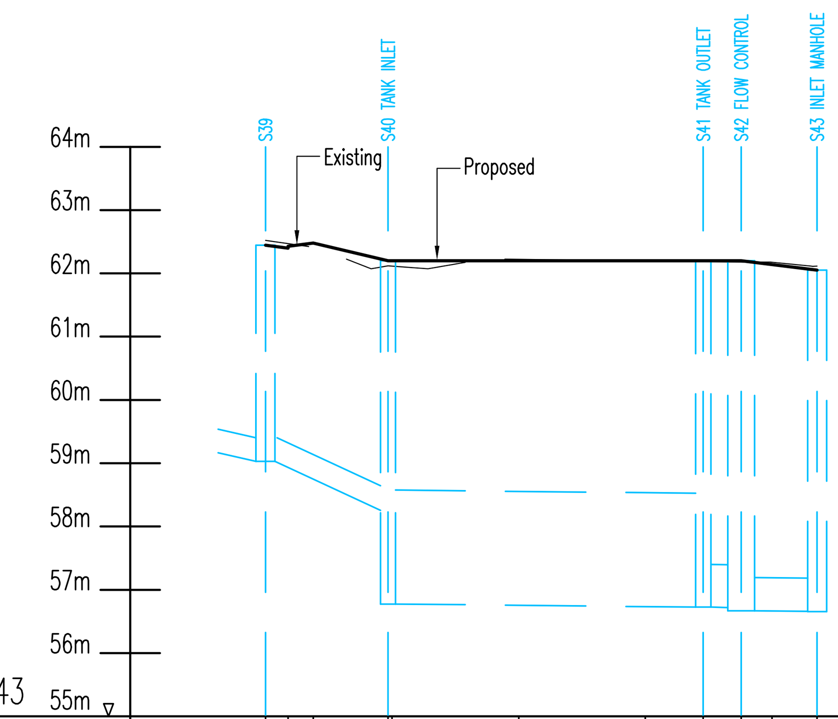
SURFACE WATER

CHAINAGE	0.000	10.000	20.000	30.000	40.000	42.369	50.000	60.000	70.000	75.379	84.799	90.000	100.000
EXISTING GROUND LEVEL	62.284	62.297	62.333	62.299	62.313		62.349	62.273	62.163			61.981	61.600
ALIGNMENT LEVEL	63.000					62.350				62.400		61.700	

CHAINAGE	104.215	110.000	120.000	126.445	128.445	130.000	132.448
EXISTING GROUND LEVEL		61.241	61.041			61.207	
ALIGNMENT LEVEL	61.600			61.406	61.356	61.256	61.146

STORMWATER COVER LEVEL	63.000	Dia 225 Circular UPVC 1 in 45	62.350		Dia 450 Circular CONC 1 in 403	62.400	Dia 450 Circular CONC 1 in 393	61.700	Dia 450 Circular CONC 1 in 27	61.600	Dia 450 Circular CONC 1 in 30	61.146
STORMWATER INVERT	61.325	42.369 Pipe 4.000 Class S B & S	60.373	60.148	33.011 Pipe 3.004 Class S B & S	60.066	9.420 Pipe 3.005 Class S B & S	60.042	19.415 Pipe 3.006 Class S B & S	59.320	28.233 Pipe 1.006 Class S B & S	58.366

S39–S43



SURFACE WATER

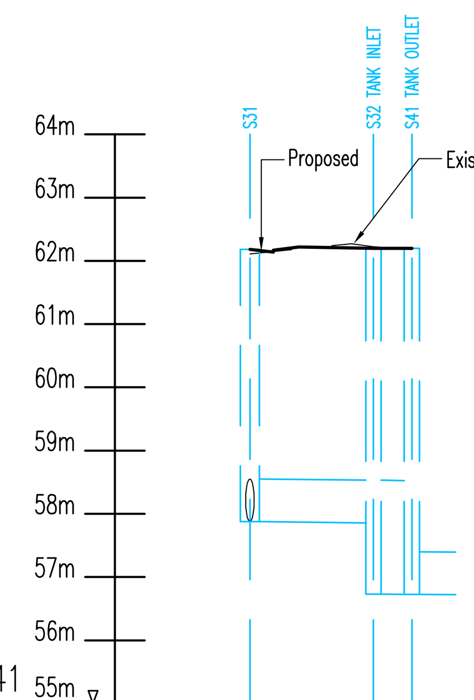
CHAINAGE	0.000	1.777	3.777	9.675	10.000	20.000	30.000	34.567	37.566	40.000	43.566
EXISTING GROUND LEVEL	62.444			62.114		62.222	62.195			62.174	
ALIGNMENT LEVEL	62.445	62.400	62.430	62.480	62.200			62.200	62.200		62.050

STORMWATER COVER LEVEL	62.445	Dia 375 Circular CONC 1 in 12	62.200		(L) & (W) as shown on 0906/03/03 1.8m (d) Concrete Tank 1 in 508	62.200	62.200		62.050
STORMWATER INVERT	59.029	9.675 Pipe 7.006 Class S B & S	58.200	56.775	Pipe 7.007 Class S B & S	56.726	56.720	56.670	56.657

Dia 675 Circular CONC 1 in 500
2.999 Pipe 1.013 Class S B & S

Dia 525 Circular CONC 1 in 461
5.990 Pipe 1.014 Class S B & S

S31–S41



SURFACE WATER

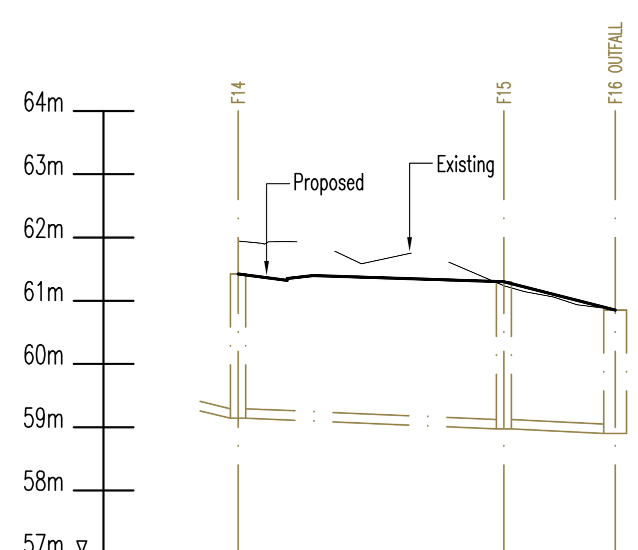
CHAINAGE	0.000	1.853		3.853	9.748	12.786
EXISTING GROUND LEVEL	62.180				62.219	
ALIGNMENT LEVEL	62.180	62.140	62.170	62.220	62.200	62.200

STORMWATER COVER LEVEL	62.180	Dia 675 Circular CONC 1 in 487	62.200		62.200
STORMWATER INVERT	57.877	9.748 Pipe 1.011 Class S B & S	57.857	56.732	56.726

(L) & (W) as shown on 0906/03/03
1.8m (d) Concrete Tank
1 in 508

Pipe 7.007
Class S B & S

F14–F16

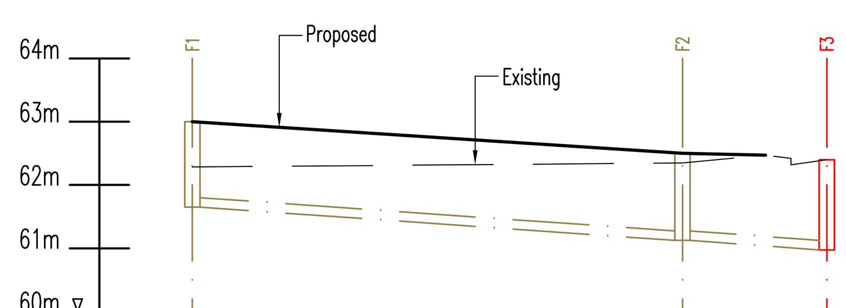


FOUL WATER

CHAINAGE	0.000	3.876	5.925	10.000	20.000	20.999	29.795
EXISTING GROUND LEVEL	61.942			62.593	61.323		60.850
ALIGNMENT LEVEL	61.425	61.320	61.350	61.400		61.300	60.850

FOULWATER COVER LEVEL	61.425	Dia 150 Circular UPVC 1 in 124	61.300	Dia 150 Circular UPVC 1 in 122	60.850
FOULWATER INVERT	59.142	20.999 Pipe 1.007 Class S B & S	58.972	8.796 Pipe 1.008 Class S B & S	58.900

F1–F3



FOUL WATER

CHAINAGE	0.000	38.762	45.332	47.332		50.169
EXISTING GROUND LEVEL	62.284	62.350	62.470	62.420	62.320	62.400
ALIGNMENT LEVEL	63.000	62.500	62.470			62.400

FOULWATER COVER LEVEL	63.000	Dia 150 Circular UPVC 1 in 74	62.500	Dia 150 Circular UPVC 1 in 77	62.400
FOULWATER INVERT	61.650	38.762 Pipe 1.000 Class S B & S	61.124	11.407 Pipe 1.001 Class S B & S	60.975

NOTE
There should be enough clearance to accommodate the bedding for both pipes, approx 300mm. If crossover is near the rocker then the clearance needed may be increased.

Rev	By	Date	Revision	Chk	Apvd
/	DJG	26.01.24	Issued for approval	MI	MI

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TITLE PHASE 5 LONGITUDINAL SECTIONS SHEET 2 OF 2

PROJECT CROSSLEY LANE, HUDDERSFIELD

CLIENT MINERVA WORKS DEVELOPMENT LTD

DRAWING STATUS PRELIMINARY

Scale	Date	Drawn	Chk.
1:500H 1:100V @ A1	JAN 24	DJG	MI

Drg. No. 0906/03/06.02 Rev /