

N O T E S

1. This drawing is to be read in conjunction with all relevant ARP and Architects drawings and project specifications.
2. Survey related to topographical survey supplied by Minerva Works Developments Ltd.
3. Co-ordinates to be checked prior to works commencing. Any discrepancies to be brought to the immediate attention of ARP.

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 provided 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.

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
			Code	Inverts	Diams		Manhole	Cover
F1	63.000					1200	C	D400
E. 1034.108	1.200							
N. 3177.631			0	1.000	61.650			
F2	62.500		1	1.000	61.124	150		
E. 1003.944	1.226					1200	C	D400
N. 3201.975			0	1.001	61.124			
F3	62.400		1	1.001	60.975	150		
	1.275					EXISTING	EXISTING	EXISTING
			0	Existing	60.900	225		
F4	62.353					1200	C	D400
E. 1056.956	1.203							
N. 3101.192			0	1.000	61.000			
F5	62.457		1	1.000	60.773	150		
E. 1032.068	1.534					1200	B	D400
N. 3108.694			0	1.001	60.773			
F6	62.885		1	1.001	60.473	150		
E. 1005.287	2.262					1200	B	D400
N. 3130.077			0	1.002	60.473			
F7	63.010		1	1.002	60.045	150		
E. 967.029	2.815					1200	B	D400
N. 3160.623			0	1.003	60.045			
F8	62.934		1	1.003	59.992	150		
E. 960.981	2.792					1200	B	D400
N. 3159.946			0	1.004	59.992			
F9	62.488		1	1.004	59.704	150		
E. 940.518	2.634					1200	B	D400
N. 3134.199			0	1.005	59.704			
F10	61.290					1200	C	D400
E. 921.185	1.200							
N. 3228.703			0	2.000	59.940			
F11	61.543		1	2.000	59.762	150		
E. 920.335	1.631					1200	B	D400
N. 3208.324			0	2.001	59.762			
F12	61.762		1	2.001	59.607	150		
E. 916.643	2.005					1200	B	D400
N. 3191.042			0	2.002	59.607			
F13	61.613		1	1.005	59.264	150		
E. 898.824	2.199		2	2.002	59.264	150		
N. 3156.167			0	1.006	59.264			

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
			Code	Inverts	Diams		Manhole	Cover
F14	61.425		1	1.006	59.142	150		
E. 891.801	2.133					1200	B	D400
N. 3142.840			0	1.007	59.142			
F15	61.300		1	1.007	58.972	150		
E. 871.585	2.178					1200	B	D400
N. 3148.521			0	1.008	58.972			
F16	60.850		1	1.008	58.900	150		
E. 864.458	1.800					1800	B	D400
N. 3143.366			0	Existing	58.225	825		

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TITLE **PHASE 5  
FOUL WATER  
MANHOLE SCHEDULES**

PROJECT **CROSSLEY LANE,  
HUDDERSFIELD**

CLIENT **MINERVA WORKS  
DEVELOPMENTS LTD**

DRAWING STATUS **PRELIMINARY**

Scale **N/A @ A1** Date **JAN 24** Drawn **DJG**  
Chk. **MI**

Drg. No. **0906/03/11.02** Rev **/**

SUBJECT TO THE APPROVAL OF ALL RELEVANT AUTHORITIES