

Infrastruct CS Ltd		Page 1
The Stables High Cogges, Witney Oxfordshire, OX29 6UN		
Date 27/08/2026 09:39 File Foul Network.MDX	Designed by Tim.Trotman Checked by	
Innovyze	Network 2020.1.3	

FOUL SEWERAGE DESIGN

Design Criteria for Foul - Main

Pipe Sizes STANDARD Manhole Sizes STANDARD

Industrial Flow (l/s/ha)	0.00	Add Flow / Climate Change (%)	0
Industrial Peak Flow Factor	0.00	Minimum Backdrop Height (m)	0.200
Flow Per Person (l/per/day)	222.00	Maximum Backdrop Height (m)	1.500
Persons per House	3.00	Min Design Depth for Optimisation (m)	1.200
Domestic (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.75
Domestic Peak Flow Factor	6.00	Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Network Design Table for Foul - Main

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	45.000	0.563	80.0	0.000	2	0.0	1.500	o	100	Pipe/Conduit	
1.001	18.000	0.225	80.0	0.000	0	0.0	1.500	o	100	Pipe/Conduit	
1.002	32.000	0.400	80.0	0.000	7	0.0	1.500	o	100	Pipe/Conduit	
1.003	10.000	0.125	80.0	0.000	0	0.0	1.500	o	100	Pipe/Conduit	
1.004	17.500	0.219	79.9	0.000	3	0.0	1.500	o	150	Pipe/Conduit	
1.005	12.500	0.313	40.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.006	15.000	0.150	100.0	0.000	4	0.0	1.500	o	150	Pipe/Conduit	
1.007	30.500	0.305	100.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
1.008	5.000	0.179	27.9	0.000	3	0.0	1.500	o	150	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Hse	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	53.927	0.000	0.0	2	0.0	9	0.26	0.74	5.8	0.1
1.001	53.365	0.000	0.0	2	0.0	9	0.26	0.74	5.8	0.1
1.002	53.140	0.000	0.0	9	0.0	18	0.42	0.74	5.8	0.4
1.003	52.740	0.000	0.0	9	0.0	18	0.42	0.74	5.8	0.4
1.004	52.565	0.000	0.0	12	0.0	19	0.44	0.98	17.3	0.6
1.005	52.346	0.000	0.0	12	0.0	16	0.55	1.39	24.5	0.6
1.006	52.033	0.000	0.0	16	0.0	23	0.44	0.88	15.5	0.7
1.007	51.883	0.000	0.0	16	0.0	23	0.44	0.88	15.5	0.7
1.008	51.578	0.000	0.0	19	0.0	18	0.73	1.66	29.4	0.9

Infrastruct CS Ltd		Page 2
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PIPELINE SCHEDULES for Foul - Main

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	100	1	54.700	53.927	0.673	Open Manhole	1200
1.001	o	100	2	54.750	53.365	1.286	Open Manhole	1200
1.002	o	100	3	54.700	53.140	1.461	Open Manhole	1200
1.003	o	100	4	54.550	52.740	1.711	Open Manhole	1200
1.004	o	150	5	54.600	52.565	1.886	Open Manhole	1200
1.005	o	150	6	54.450	52.346	1.955	Open Manhole	1200
1.006	o	150	7	54.350	52.033	2.167	Open Manhole	1200
1.007	o	150	8	54.400	51.883	2.367	Open Manhole	1200
1.008	o	150	9	54.700	51.578	2.972	Open Manhole	1200

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	45.000	80.0	2	54.750	53.365	1.286	Open Manhole	1200
1.001	18.000	80.0	3	54.700	53.140	1.461	Open Manhole	1200
1.002	32.000	80.0	4	54.550	52.740	1.711	Open Manhole	1200
1.003	10.000	80.0	5	54.600	52.615	1.886	Open Manhole	1200
1.004	17.500	79.9	6	54.450	52.346	1.955	Open Manhole	1200
1.005	12.500	40.0	7	54.350	52.033	2.167	Open Manhole	1200
1.006	15.000	100.0	8	54.400	51.883	2.367	Open Manhole	1200
1.007	30.500	100.0	9	54.700	51.578	2.972	Open Manhole	1200
1.008	5.000	27.9		0.000	51.399		Open Manhole	0