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)	0.000
Flow Per Person (l/per/day)	400.00	Maximum Backdrop Height (m)	1.500
Persons per House	10.00	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)	150

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	21.140	0.863	24.5	0.000	1	0.0	1.500	o	100	Pipe/Conduit	
2.000	6.190	0.619	10.0	0.000	2	0.0	1.500	o	100	Pipe/Conduit	
3.000	5.290	0.068	77.8	0.000	1	0.0	1.500	o	100	Pipe/Conduit	
1.001	5.170	0.517	10.0	0.000	0	0.0	1.500	o	100	Pipe/Conduit	
1.002	14.050	0.439	32.0	0.000	0	0.0	1.500	o	100	Pipe/Conduit	
4.000	4.510	0.058	77.6	0.000	1	0.0	1.500	o	100	Pipe/Conduit	
1.003	16.190	1.619	10.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
5.000	25.500	0.319	80.0	0.000	1	0.0	1.500	o	100	Pipe/Conduit	
6.000	5.520	0.460	12.0	0.000	1	0.0	1.500	o	100	Pipe/Conduit	
5.001	11.850	0.148	80.0	0.000	1	0.0	1.500	o	100	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	164.670	0.000	0.0	1	0.0	11	0.56	1.35	10.6	0.3
2.000	164.540	0.000	0.0	2	0.0	13	0.95	2.11	16.6	0.6
3.000	163.930	0.000	0.0	1	0.0	15	0.37	0.75	5.9	0.3
1.001	163.807	0.000	0.0	4	0.0	18	1.18	2.11	16.6	1.1
1.002	163.290	0.000	0.0	4	0.0	24	0.78	1.18	9.3	1.1
4.000	163.880	0.000	0.0	1	0.0	15	0.37	0.76	5.9	0.3
1.003	162.801	0.000	0.0	5	0.0	18	1.20	2.78	49.1	1.4
5.000	162.100	0.000	0.0	1	0.0	15	0.37	0.74	5.8	0.3
6.000	162.250	0.000	0.0	1	0.0	10	0.71	1.93	15.2	0.3
5.001	161.781	0.000	0.0	3	0.0	26	0.52	0.74	5.8	0.8

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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
7.000	12.920	0.323	40.0	0.000	1	0.0	1.500	o	100	Pipe/Conduit	
8.000	4.230	0.212	20.0	0.000	1	0.0	1.500	o	100	Pipe/Conduit	
7.001	8.870	0.887	10.0	0.000	0	0.0	1.500	o	100	Pipe/Conduit	
1.004	3.020	0.020	150.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
9.000	9.500	0.063	150.0	0.000	6	0.0	1.500	o	150	Pipe/Conduit	
1.005	1.500	0.010	150.0	0.000	0	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)
7.000	163.590	0.000	0.0	1	0.0	13	0.47	1.05	8.3	0.3
8.000	163.460	0.000	0.0	1	0.0	11	0.60	1.49	11.7	0.3
7.001	163.249	0.000	0.0	2	0.0	13	0.95	2.11	16.6	0.6
1.004	161.182	0.000	0.0	10	0.0	48	0.57	0.71	12.6	2.8
9.000	160.970	0.000	0.0	6	0.0	37	0.49	0.71	12.6	1.7
1.005	160.907	0.000	0.0	16	0.0	62	0.65	0.71	12.6	4.4

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