

C & A Consulting Engineers Ltd

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Landmark House
Station Road, Hook
Hampshire RG27 9HA

16-010 Sellindge
FW DRAINAGE
Network 01 - to PS

Date 31/01/2022
File 2022 Feb Phase 1A Detailed FW...

Designed by SPS
Checked by GAC

Micro Drainage

Network 2019.1

FOUL SEWERAGE DESIGN

Design Criteria for Foul - Net 01 (to PS)

Pipe Sizes STANDARD Manhole Sizes STANDARD

Industrial Flow (l/s/ha)

0.60

Add Flow / Climate Change (%)

0

Industrial Peak Flow Factor

1.00

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 - Net 01 (to PS)

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
1.018	14.542	0.100	145.4	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
9.000	80.565	1.000	80.6	0.108	0	0.0	1.500	o	150	Pipe/Conduit	
9.001	25.779	0.194	132.9	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
9.002	17.203	0.119	144.6	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
9.003	6.725	0.046	147.8	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
10.000	36.705	0.459	80.0	0.000	2	0.0	1.500	o	100	Pipe/Conduit	
10.001	14.210	0.178	79.8	0.000	2	0.0	1.500	o	100	Pipe/Conduit	
10.002	21.401	0.268	80.0	0.000	0	0.0	1.500	o	100	Pipe/Conduit	
10.003	6.391	0.080	80.0	0.000	0	0.0	1.500	o	100	Pipe/Conduit	
10.004	6.391	0.080	80.0	0.000	0	0.0	1.500	o	100	Pipe/Conduit	
10.005	5.826	0.073	80.0	0.000	0	0.0	1.500	o	100	Pipe/Conduit	
10.006	5.153	0.064	80.0	0.000	0	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)
1.018	61.893	0.000	0.0	105	0.0	64	0.67	0.73	12.8	4.9
9.000	64.150	0.108	0.0	0	0.0	7	0.22	0.98	17.3	0.1
9.001	63.150	0.108	0.0	0	0.0	8	0.18	0.76	13.4	0.1
9.002	62.956	0.108	0.0	0	0.0	8	0.18	0.73	12.9	0.1
9.003	62.837	0.108	0.0	0	0.0	8	0.18	0.72	12.7	0.1
10.000	65.200	0.000	0.0	2	0.0	9	0.26	0.74	5.8	0.1
10.001	64.741	0.000	0.0	4	0.0	13	0.33	0.74	5.8	0.2
10.002	64.563	0.000	0.0	4	0.0	13	0.33	0.74	5.8	0.2
10.003	64.295	0.000	0.0	4	0.0	13	0.33	0.74	5.8	0.2
10.004	64.216	0.000	0.0	4	0.0	13	0.33	0.74	5.8	0.2
10.005	64.136	0.000	0.0	4	0.0	13	0.33	0.74	5.8	0.2
10.006	64.063	0.000	0.0	4	0.0	13	0.33	0.74	5.8	0.2

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Network Design Table for Foul - Net 01 (to PS)

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
11.000	26.147	0.327	80.0	0.000	5	0.0	1.500	o	100	Pipe/Conduit		
11.001	9.631	0.120	80.3	0.000	4	0.0	1.500	o	100	Pipe/Conduit		
11.002	4.933	0.034	145.1	0.000	3	0.0	1.500	o	150	Pipe/Conduit		
11.003	11.829	0.819	14.4	0.000	0	0.0	1.500	o	150	Pipe/Conduit		
10.007	18.763	0.129	145.0	0.000	3	0.0	1.500	o	150	Pipe/Conduit		
10.008	8.148	0.100	81.5	0.000	0	0.0	1.500	o	150	Pipe/Conduit		
10.009	11.652	0.929	12.5	0.000	0	0.0	1.500	o	150	Pipe/Conduit		
9.004	9.227	0.067	138.5	0.000	0	0.0	1.500	o	150	Pipe/Conduit		
9.005	15.447	0.106	145.7	0.000	0	0.0	1.500	o	150	Pipe/Conduit		
12.000	12.352	0.150	82.3	0.000	4	0.0	1.500	o	100	Pipe/Conduit		
9.006	14.405	0.099	145.5	0.000	0	0.0	1.500	o	150	Pipe/Conduit		
9.007	15.660	0.108	145.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit		
9.008	57.819	0.399	144.9	0.000	7	0.0	1.500	o	150	Pipe/Conduit		
9.009	22.426	0.155	145.0	0.000	6	0.0	1.500	o	150	Pipe/Conduit		
9.010	9.262	0.064	144.7	0.000	0	0.0	1.500	o	150	Pipe/Conduit		
1.019	12.540	0.084	149.3	0.000	0	0.0	1.500	o	150	Pipe/Conduit		
1.020	9.072	0.053	171.2	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)
11.000	66.400	0.000	0.0	5	0.0	14	0.35	0.74	5.8	0.2
11.001	66.073	0.000	0.0	9	0.0	18	0.42	0.74	5.8	0.4
11.002	65.903	0.000	0.0	12	0.0	22	0.36	0.73	12.8	0.6
11.003	65.869	0.000	0.0	12	0.0	13	0.79	2.31	40.9	0.6
10.007	63.949	0.000	0.0	19	0.0	27	0.41	0.73	12.8	0.9
10.008	63.820	0.000	0.0	19	0.0	23	0.50	0.97	17.2	0.9
10.009	63.720	0.000	0.0	19	0.0	15	0.96	2.48	43.9	0.9
9.004	62.791	0.108	0.0	19	0.0	27	0.43	0.74	13.1	0.9
9.005	62.724	0.108	0.0	19	0.0	28	0.42	0.72	12.8	0.9
12.000	63.800	0.000	0.0	4	0.0	13	0.32	0.73	5.8	0.2
9.006	62.618	0.108	0.0	23	0.0	30	0.44	0.73	12.8	1.1
9.007	62.519	0.108	0.0	23	0.0	30	0.44	0.73	12.8	1.1
9.008	62.411	0.108	0.0	30	0.0	34	0.48	0.73	12.8	1.5
9.009	62.012	0.108	0.0	36	0.0	37	0.50	0.73	12.8	1.7
9.010	61.857	0.108	0.0	36	0.0	37	0.50	0.73	12.9	1.7
1.019	61.793	0.108	0.0	141	0.0	77	0.72	0.72	12.7	6.6
1.020	61.709	0.108	0.0	141	0.0	80	0.69	0.67	11.8	6.6

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Free Flowing Outfall Details for Foul - Net 01 (to PS)

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.020	PS	63.500	61.656	0.000	0	0

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