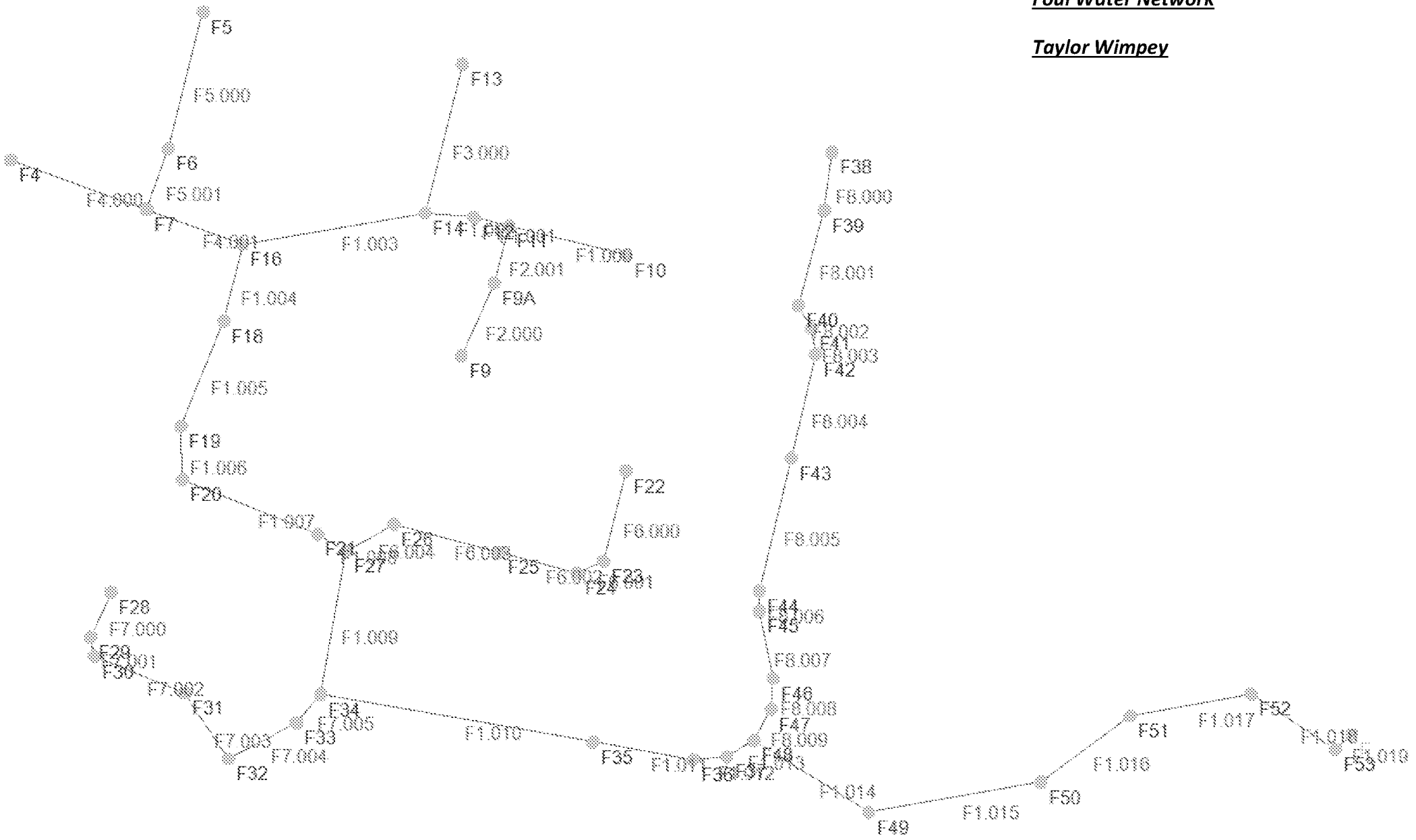
Westergate & Eastergate

Foul Water Network

Taylor Wimpey



MJA Consulting		Page 1
Monarch House Barton Lane OX14 3NB	Westergate & Eastergate Foul Network	
Date 16/03/2018 09:51 File 5655 FWS.MDX	Designed by stewart Checked by	
Innovyze	Network 2017.1.2	

FOUL SEWERAGE DESIGN

Design Criteria for Foul - Main

Pipe Sizes STANDARD Manhole Sizes STANDARD

Industrial Flow (l/s/ha)	0.00	Domestic (l/s/ha)	0.00	Maximum Backdrop Height (m)	0.000
Industrial Peak Flow Factor	0.00	Domestic Peak Flow Factor	6.00	Min Design Depth for Optimisation (m)	1.200
Flow Per Person (l/per/day)	200.00	Add Flow / Climate Change (%)	10	Min Vel for Auto Design only (m/s)	0.75
Persons per House	3.00	Minimum Backdrop Height (m)	0.000	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
F1.000	43.262	1.390	31.1	0.000	10	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)
F1.000	12.868	0.000	0.0	10	0.0	14	0.57	1.57	27.8	0.5

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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
F2.000	28.540	0.356	80.2	0.000	5	0.0	1.500	o	100	Pipe/Conduit	
F2.001	20.993	0.262	80.1	0.000	2	0.0	1.500	o	100	Pipe/Conduit	
F1.001	12.614	0.084	150.2	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
F1.002	17.530	0.117	149.8	0.000	1	0.0	1.500	o	150	Pipe/Conduit	
F3.000	54.833	1.201	45.7	0.000	8	0.0	1.500	o	100	Pipe/Conduit	
F1.003	66.018	0.809	81.6	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)
F2.000	12.146	0.000	0.0	5	0.0	14	0.35	0.74	5.8	0.2
F2.001	11.790	0.000	0.0	7	0.0	16	0.39	0.74	5.8	0.3
F1.001	11.478	0.000	0.0	22	0.1	29	0.42	0.71	12.6	1.0
F1.002	11.394	0.000	0.0	23	0.1	30	0.43	0.71	12.6	1.1
F3.000	12.528	0.000	0.0	8	0.0	15	0.49	0.99	7.7	0.4
F1.003	11.277	0.000	0.0	31	0.1	29	0.58	0.97	17.1	1.4

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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
F4.000	51.503	0.694	74.2	0.000	9	0.0	1.500	o	100	Pipe/Conduit	
F5.000	50.401	0.630	80.0	0.000	7	0.0	1.500	o	100	Pipe/Conduit	
F5.001	22.934	0.833	27.5	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
F4.001	36.418	0.243	149.9	0.000	6	0.0	1.500	o	150	Pipe/Conduit	
F1.004	28.092	0.188	149.4	0.000	7	0.0	1.500	o	150	Pipe/Conduit	
F1.005	40.580	0.271	149.7	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
F1.006	18.934	0.126	150.3	0.000	5	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)
F4.000	11.403	0.000	0.0	9	0.0	18	0.43	0.77	6.1	0.4
F5.000	12.224	0.000	0.0	7	0.0	16	0.39	0.74	5.8	0.3
F5.001	11.544	0.000	0.0	12	0.1	14	0.63	1.67	29.6	0.6
F4.001	10.661	0.000	0.0	27	0.1	32	0.45	0.71	12.6	1.2
F1.004	10.418	0.000	0.0	65	0.3	50	0.58	0.72	12.6	3.0
F1.005	10.230	0.000	0.0	67	0.3	51	0.59	0.71	12.6	3.1
F1.006	9.959	0.000	0.0	72	0.3	53	0.60	0.71	12.6	3.3

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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
F1.007	51.923	0.346	150.1	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
F1.008	11.789	0.079	149.2	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
F6.000	33.182	0.221	150.1	0.000	12	0.0	1.500	o	150	Pipe/Conduit	
F6.001	10.504	0.070	150.1	0.000	6	0.0	1.500	o	150	Pipe/Conduit	
F6.002	28.478	0.190	149.9	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
F6.003	38.989	0.260	150.0	0.000	4	0.0	1.500	o	150	Pipe/Conduit	
F6.004	19.514	2.444	8.0	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
F1.009	52.180	0.348	149.9	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)
F1.007	9.833	0.000	0.0	74	0.3	53	0.60	0.71	12.6	3.4
F1.008	9.487	0.000	0.0	79	0.3	55	0.62	0.72	12.7	3.6
F6.000	12.641	0.000	0.0	12	0.1	22	0.35	0.71	12.6	0.6
F6.001	12.420	0.000	0.0	18	0.1	26	0.40	0.71	12.6	0.8
F6.002	12.350	0.000	0.0	23	0.1	30	0.43	0.71	12.6	1.1
F6.003	12.160	0.000	0.0	27	0.1	32	0.45	0.71	12.6	1.2
F6.004	11.900	0.000	0.0	32	0.1	17	1.31	3.11	55.0	1.5
F1.009	9.408	0.000	0.0	111	0.5	66	0.68	0.71	12.6	5.1

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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
F7.000	17.567	0.220	79.9	0.000	6	0.0	1.500	o	100	Pipe/Conduit	
F7.001	7.015	0.090	77.9	0.000	3	0.0	1.500	o	100	Pipe/Conduit	
F7.002	34.495	0.230	150.0	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
F7.003	28.316	1.220	23.2	0.000	10	0.0	1.500	o	150	Pipe/Conduit	
F7.004	27.442	0.183	150.0	0.000	7	0.0	1.500	o	150	Pipe/Conduit	
F7.005	13.187	0.192	68.7	0.000	4	0.0	1.500	o	150	Pipe/Conduit	
F1.010	98.503	0.657	149.9	0.000	6	0.0	1.500	o	150	Pipe/Conduit	
F1.011	36.338	0.242	150.2	0.000	22	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)
F7.000	11.310	0.000	0.0	6	0.0	15	0.37	0.74	5.8	0.3
F7.001	11.090	0.000	0.0	9	0.0	18	0.42	0.75	5.9	0.4
F7.002	10.950	0.000	0.0	14	0.1	23	0.37	0.71	12.6	0.6
F7.003	10.720	0.000	0.0	24	0.1	19	0.83	1.82	32.2	1.1
F7.004	9.500	0.000	0.0	31	0.1	34	0.47	0.71	12.6	1.4
F7.005	9.317	0.000	0.0	35	0.1	30	0.64	1.06	18.7	1.6
F1.010	9.060	0.000	0.0	152	0.6	79	0.73	0.71	12.6	7.0
F1.011	8.403	0.000	0.0	174	0.7	86	0.76	0.71	12.6	8.0

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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
F1.012	12.017	0.080	150.2	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1.013	11.215	0.075	149.5	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F8.000	20.901	0.261	80.1	0.000	6	0.0	1.500	o	100	Pipe/Conduit	
F8.001	35.234	0.440	80.1	0.000	2	0.0	1.500	o	100	Pipe/Conduit	
F8.002	9.359	0.063	148.6	0.000	2	0.0	1.500	o	150	Pipe/Conduit	
F8.003	9.443	0.063	149.9	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F8.004	38.055	0.254	149.8	0.000	3	0.0	1.500	o	150	Pipe/Conduit	
F8.005	48.764	0.325	150.0	0.000	10	0.0	1.500	o	150	Pipe/Conduit	
F8.006	7.260	0.049	148.2	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)
F1.012	8.161	0.000	0.0	174	0.7	86	0.76	0.71	12.6	8.0
F1.013	8.081	0.000	0.0	174	0.7	86	0.76	0.72	12.6	8.0
F8.000	13.467	0.000	0.0	6	0.0	15	0.37	0.74	5.8	0.3
F8.001	13.206	0.000	0.0	8	0.0	17	0.41	0.74	5.8	0.4
F8.002	12.716	0.000	0.0	10	0.0	20	0.35	0.72	12.7	0.5
F8.003	12.653	0.000	0.0	10	0.0	20	0.33	0.71	12.6	0.5
F8.004	12.590	0.000	0.0	13	0.1	22	0.36	0.71	12.6	0.6
F8.005	12.336	0.000	0.0	23	0.1	30	0.43	0.71	12.6	1.1
F8.006	12.011	0.000	0.0	23	0.1	29	0.43	0.72	12.7	1.1

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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
F8.007	24.416	1.162	21.0	0.000	5	0.0	1.500	o	150	Pipe/Conduit	
F8.008	11.156	0.075	148.7	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F8.009	12.656	2.671	4.7	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1.014	48.356	0.323	149.7	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1.015	62.273	0.415	150.1	0.000	6	0.0	1.500	o	150	Pipe/Conduit	
F1.016	39.468	0.263	150.1	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1.017	43.948	0.293	150.0	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1.018	35.823	0.239	149.9	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1.019	7.719	0.100	77.2	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)
F8.007	11.962	0.000	0.0	28	0.1	20	0.90	1.92	33.9	1.3
F8.008	10.800	0.000	0.0	28	0.1	32	0.46	0.72	12.7	1.3
F8.009	10.725	0.000	0.0	28	0.1	14	1.51	4.04	71.4	1.3
F1.014	8.006	0.000	0.0	202	0.8	95	0.78	0.71	12.6	9.3
F1.015	7.683	0.000	0.0	208	0.9	97	0.79	0.71	12.6	9.5
F1.016	7.268	0.000	0.0	208	0.9	97	0.79	0.71	12.6	9.5
F1.017	7.005	0.000	0.0	208	0.9	97	0.79	0.71	12.6	9.5
F1.018	6.712	0.000	0.0	208	0.9	97	0.79	0.71	12.6	9.5
F1.019	6.473	0.000	0.0	208	0.9	79	1.02	1.00	17.6	9.5

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Manhole Schedules for Foul - Main

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	Pipe Out PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	Pipes In PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
F10	14.218	1.350	Open Manhole	1200	F1.000	12.868	150				
F9	13.446	1.300	Open Manhole	1200	F2.000	12.146	100				
F9A	13.699	1.909	Open Manhole	1200	F2.001	11.790	100	F2.000	11.790	100	
F11	13.874	2.396	Open Manhole	1200	F1.001	11.478	150	F1.000	11.478	150	
								F2.001	11.528	100	
F12	13.773	2.379	Open Manhole	1200	F1.002	11.394	150	F1.001	11.394	150	
F13	13.828	1.300	Open Manhole	1200	F3.000	12.528	100				
F14	13.634	2.357	Open Manhole	1200	F1.003	11.277	150	F1.002	11.277	150	
								F3.000	11.327	100	
F4	12.744	1.339	Open Manhole	1200	F4.000	11.405	100				
F5	13.524	1.300	Open Manhole	1200	F5.000	12.224	100				
F6	13.121	1.577	Open Manhole	1200	F5.001	11.544	150	F5.000	11.594	100	
F7	12.981	2.320	Open Manhole	1200	F4.001	10.661	150	F4.000	10.711	100	
								F5.001	10.711	150	50
F16	13.109	2.690	Open Manhole	1200	F1.004	10.418	150	F1.003	10.468	150	50
								F4.001	10.418	150	
F18	12.900	2.670	Open Manhole	1200	F1.005	10.230	150	F1.004	10.230	150	
F19	12.621	2.662	Open Manhole	1200	F1.006	9.959	150	F1.005	9.959	150	
F20	12.636	2.803	Open Manhole	1200	F1.007	9.833	150	F1.006	9.833	150	

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Manhole Schedules for Foul - Main

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	Pipe Out PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	Pipes In PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
F21	13.049	3.562	Open Manhole	1200	F1.008	9.487	150	F1.007	9.487	150	
F22	13.981	1.350	Open Manhole	1200	F6.000	12.641	150				
F23	13.824	1.404	Open Manhole	1200	F6.001	12.420	150	F6.000	12.420	150	
F24	13.766	1.416	Open Manhole	1200	F6.002	12.350	150	F6.001	12.350	150	
F25	13.579	1.419	Open Manhole	1200	F6.003	12.160	150	F6.002	12.160	150	
F26	13.270	1.370	Open Manhole	1200	F6.004	11.900	150	F6.003	11.900	150	
F27	13.113	3.705	Open Manhole	1200	F1.009	9.408	150	F1.008	9.408	150	
								F6.004	9.456	150	48
F28	12.610	1.300	Open Manhole	1200	F7.000	11.310	100				
F29	12.474	1.384	Open Manhole	1200	F7.001	11.090	100	F7.000	11.090	100	
F30	12.446	1.496	Open Manhole	1200	F7.002	10.950	150	F7.001	11.000	100	
F31	12.641	1.921	Open Manhole	1200	F7.003	10.720	150	F7.002	10.720	150	
F32	12.606	3.106	Open Manhole	1200	F7.004	9.500	150	F7.003	9.500	150	
F33	12.966	3.649	Open Manhole	1200	F7.005	9.317	150	F7.004	9.317	150	
F34	13.107	4.047	Open Manhole	1200	F1.010	9.060	150	F1.009	9.060	150	
								F7.005	9.125	150	65
F35	13.292	4.889	Open Manhole	1200	F1.011	8.403	150	F1.010	8.403	150	
F36	13.495	5.334	Open Manhole	1200	F1.012	8.161	150	F1.011	8.161	150	
F37	13.468	5.387	Open Manhole	1200	F1.013	8.081	150	F1.012	8.081	150	

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Manhole Schedules for Foul - Main

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	Pipe Out PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	Pipes In PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
F38	14.767	1.300	Open Manhole	1200	F8.000	13.467	100				
F39	14.721	1.515	Open Manhole	1200	F8.001	13.206	100	F8.000	13.206	100	
F40	14.499	1.783	Open Manhole	1200	F8.002	12.716	150	F8.001	12.766	100	
F41	14.464	1.811	Open Manhole	1200	F8.003	12.653	150	F8.002	12.653	150	
F42	14.397	1.807	Open Manhole	1200	F8.004	12.590	150	F8.003	12.590	150	
F43	14.093	1.757	Open Manhole	1200	F8.005	12.336	150	F8.004	12.336	150	
F44	13.704	1.693	Open Manhole	1200	F8.006	12.011	150	F8.005	12.011	150	
F45	13.646	1.684	Open Manhole	1200	F8.007	11.962	150	F8.006	11.962	150	
F46	13.448	2.648	Open Manhole	1200	F8.008	10.800	150	F8.007	10.800	150	
F47	13.373	2.648	Open Manhole	1200	F8.009	10.725	150	F8.008	10.725	150	
F48	13.385	5.379	Open Manhole	1200	F1.014	8.006	150	F1.013	8.006	150	
								F8.009	8.054	150	48
F49	12.661	4.978	Open Manhole	1200	F1.015	7.683	150	F1.014	7.683	150	
F50	12.319	5.051	Open Manhole	1200	F1.016	7.268	150	F1.015	7.268	150	
F51	12.084	5.079	Open Manhole	1200	F1.017	7.005	150	F1.016	7.005	150	
F52	11.739	5.027	Open Manhole	1200	F1.018	6.712	150	F1.017	6.712	150	
F53	11.528	5.055	Open Manhole	1200	F1.019	6.473	150	F1.018	6.473	150	
F	0.000		Open Manhole	0		OUTFALL		F1.019	6.373	150	

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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)
F1.000	o	150	F10	14.218	12.868	1.200	Open Manhole	1200
F2.000	o	100	F9	13.446	12.146	1.200	Open Manhole	1200
F2.001	o	100	F9A	13.699	11.790	1.809	Open Manhole	1200
F1.001	o	150	F11	13.874	11.478	2.246	Open Manhole	1200
F1.002	o	150	F12	13.773	11.394	2.229	Open Manhole	1200
F3.000	o	100	F13	13.828	12.528	1.200	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)
F1.000	43.262	31.1	F11	13.874	11.478	2.246	Open Manhole	1200
F2.000	28.540	80.2	F9A	13.699	11.790	1.809	Open Manhole	1200
F2.001	20.993	80.1	F11	13.874	11.528	2.246	Open Manhole	1200
F1.001	12.614	150.2	F12	13.773	11.394	2.229	Open Manhole	1200
F1.002	17.530	149.8	F14	13.634	11.277	2.207	Open Manhole	1200
F3.000	54.833	45.7	F14	13.634	11.327	2.207	Open Manhole	1200

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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)
F1.003	o	150	F14	13.634	11.277	2.207	Open Manhole	1200
F4.000	o	100	F4	12.744	11.405	1.239	Open Manhole	1200
F5.000	o	100	F5	13.524	12.224	1.200	Open Manhole	1200
F5.001	o	150	F6	13.121	11.544	1.427	Open Manhole	1200
F4.001	o	150	F7	12.981	10.661	2.170	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)
F1.003	66.018	81.6	F16	13.108	10.468	2.490	Open Manhole	1200
F4.000	51.503	74.2	F7	12.981	10.711	2.170	Open Manhole	1200
F5.000	50.401	80.0	F6	13.121	11.594	1.427	Open Manhole	1200
F5.001	22.934	27.5	F7	12.981	10.711	2.120	Open Manhole	1200
F4.001	36.418	149.9	F16	13.108	10.418	2.540	Open Manhole	1200

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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)
F1.004	o	150	F16	13.108	10.418	2.540	Open Manhole	1200
F1.005	o	150	F18	12.900	10.230	2.520	Open Manhole	1200
F1.006	o	150	F19	12.621	9.959	2.512	Open Manhole	1200
F1.007	o	150	F20	12.636	9.833	2.653	Open Manhole	1200
F1.008	o	150	F21	13.049	9.487	3.412	Open Manhole	1200
F6.000	o	150	F22	13.991	12.641	1.200	Open Manhole	1200
F6.001	o	150	F23	13.824	12.420	1.254	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)
F1.004	28.092	149.4	F18	12.900	10.230	2.520	Open Manhole	1200
F1.005	40.580	149.7	F19	12.621	9.959	2.512	Open Manhole	1200
F1.006	18.934	150.3	F20	12.636	9.833	2.653	Open Manhole	1200
F1.007	51.923	150.1	F21	13.049	9.487	3.412	Open Manhole	1200
F1.008	11.789	149.2	F27	13.113	9.408	3.555	Open Manhole	1200
F6.000	33.182	150.1	F23	13.824	12.420	1.254	Open Manhole	1200
F6.001	10.504	150.1	F24	13.766	12.350	1.266	Open Manhole	1200

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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)
F6.002	o	150	F24	13.766	12.350	1.266	Open Manhole	1200
F6.003	o	150	F25	13.579	12.160	1.269	Open Manhole	1200
F6.004	o	150	F26	13.270	11.900	1.220	Open Manhole	1200
F1.009	o	150	F27	13.113	9.408	3.555	Open Manhole	1200
F7.000	o	100	F28	12.610	11.310	1.200	Open Manhole	1200
F7.001	o	100	F29	12.474	11.090	1.284	Open Manhole	1200
F7.002	o	150	F30	12.446	10.950	1.346	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)
F6.002	28.478	149.9	F25	13.579	12.160	1.269	Open Manhole	1200
F6.003	38.989	150.0	F26	13.270	11.900	1.220	Open Manhole	1200
F6.004	19.514	8.0	F27	13.113	9.456	3.507	Open Manhole	1200
F1.009	52.180	149.9	F34	13.107	9.060	3.897	Open Manhole	1200
F7.000	17.567	79.9	F29	12.474	11.090	1.284	Open Manhole	1200
F7.001	7.015	77.9	F30	12.446	11.000	1.346	Open Manhole	1200
F7.002	34.495	150.0	F31	12.641	10.720	1.771	Open Manhole	1200

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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)
F7.003	o	150	F31	12.641	10.720	1.771	Open Manhole	1200
F7.004	o	150	F32	12.606	9.500	2.956	Open Manhole	1200
F7.005	o	150	F33	12.966	9.317	3.499	Open Manhole	1200
F1.010	o	150	F34	13.107	9.060	3.897	Open Manhole	1200
F1.011	o	150	F35	13.292	8.403	4.739	Open Manhole	1200
F1.012	o	150	F36	13.495	8.161	5.184	Open Manhole	1200
F1.013	o	150	F37	13.468	8.081	5.237	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)
F7.003	28.316	23.2	F32	12.606	9.500	2.956	Open Manhole	1200
F7.004	27.442	150.0	F33	12.966	9.317	3.499	Open Manhole	1200
F7.005	13.187	68.7	F34	13.107	9.125	3.832	Open Manhole	1200
F1.010	98.503	149.9	F35	13.292	8.403	4.739	Open Manhole	1200
F1.011	36.338	150.2	F36	13.495	8.161	5.184	Open Manhole	1200
F1.012	12.017	150.2	F37	13.468	8.081	5.237	Open Manhole	1200
F1.013	11.215	149.5	F48	13.385	8.006	5.229	Open Manhole	1200

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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)
F8.000	o	100	F38	14.767	13.467	1.200	Open Manhole	1200
F8.001	o	100	F39	14.721	13.206	1.415	Open Manhole	1200
F8.002	o	150	F40	14.499	12.716	1.633	Open Manhole	1200
F8.003	o	150	F41	14.464	12.653	1.661	Open Manhole	1200
F8.004	o	150	F42	14.397	12.590	1.657	Open Manhole	1200
F8.005	o	150	F43	14.093	12.336	1.607	Open Manhole	1200
F8.006	o	150	F44	13.704	12.011	1.543	Open Manhole	1200
F8.007	o	150	F45	13.646	11.962	1.534	Open Manhole	1200
F8.008	o	150	F46	13.448	10.800	2.498	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)
F8.000	20.901	80.1	F39	14.721	13.206	1.415	Open Manhole	1200
F8.001	35.234	80.1	F40	14.499	12.766	1.633	Open Manhole	1200
F8.002	9.359	148.6	F41	14.464	12.653	1.661	Open Manhole	1200
F8.003	9.443	149.9	F42	14.397	12.590	1.657	Open Manhole	1200
F8.004	38.055	149.8	F43	14.093	12.336	1.607	Open Manhole	1200
F8.005	48.764	150.0	F44	13.704	12.011	1.543	Open Manhole	1200
F8.006	7.260	148.2	F45	13.646	11.962	1.534	Open Manhole	1200
F8.007	24.416	21.0	F46	13.448	10.800	2.498	Open Manhole	1200
F8.008	11.156	148.7	F47	13.373	10.725	2.498	Open Manhole	1200

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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)
F8.009	o	150	F47	13.373	10.725	2.498	Open Manhole	1200
F1.014	o	150	F48	13.385	8.006	5.229	Open Manhole	1200
F1.015	o	150	F49	12.661	7.683	4.928	Open Manhole	1200
F1.016	o	150	F50	12.319	7.268	4.901	Open Manhole	1200
F1.017	o	150	F51	12.084	7.005	4.929	Open Manhole	1200
F1.018	o	150	F52	11.739	6.712	4.877	Open Manhole	1200
F1.019	o	150	F53	11.528	6.473	4.905	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)
F8.009	12.656	4.7	F48	13.385	8.054	5.181	Open Manhole	1200
F1.014	48.356	149.7	F49	12.661	7.683	4.828	Open Manhole	1200
F1.015	62.273	150.1	F50	12.319	7.268	4.901	Open Manhole	1200
F1.016	39.468	150.1	F51	12.084	7.005	4.929	Open Manhole	1200
F1.017	43.948	150.0	F52	11.739	6.712	4.877	Open Manhole	1200
F1.018	35.823	149.9	F53	11.528	6.473	4.905	Open Manhole	1200
F1.019	7.719	77.2	F	0.000	6.373		Open Manhole	0

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Free Flowing Outfall Details for Foul - Main

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
F1.019	F	0.000	6.373	0.000	0	0

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