


AtkinsRealis Ireland Limited		Page 1
Unit 2B, 2200 Cork Airport Business Park, Cork T12 R279	CNWQR Phase 3C & 4F	
Date 30/03/2026 11:42 File CNWRQ.MDX	Designed by Panagiotis Pasiias 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
Industrial Peak Flow Factor	0.00
Calculation Method BS	8301
Frequency Factor	0.00
Domestic (l/s/ha)	0.00
Domestic Peak Flow Factor	6.00
Add Flow / Climate Change (%)	10
Minimum Backdrop Height (m)	0.650
Maximum Backdrop Height (m)	1.600
Min Design Depth for Optimisation (m)	1.200
Min Vel for Auto Design only (m/s)	0.75
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)	Units	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
F1.000	25.052	0.512	48.9	0.000	112.0	0.0	1.500	o	225	Pipe/Conduit	
F1.001	76.492	1.620	47.2	0.000	182.0	0.0	1.500	o	225	Pipe/Conduit	
F1.002	67.466	1.055	63.9	0.000	168.0	0.0	1.500	o	225	Pipe/Conduit	
F2.000	61.699	1.100	56.1	0.000	154.0	0.0	1.500	o	225	Pipe/Conduit	
F1.003	29.947	0.499	60.0	0.000	42.0	0.0	1.500	o	225	Pipe/Conduit	
F1.004	17.355	0.289	60.1	0.000	42.0	0.0	1.500	o	225	Pipe/Conduit	
F1.005	12.882	0.215	59.9	0.000	42.0	0.0	1.500	o	225	Pipe/Conduit	
F3.000	36.532	0.285	128.2	0.000	98.0	0.0	1.500	o	225	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Units	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
F1.000	124.952	0.000	0.0	112.0	0.4	40	0.94	1.64	65.3	4.4
F1.001	124.440	0.000	0.0	294.0	0.5	45	1.02	1.67	66.5	5.7
F1.002	122.820	0.000	0.0	462.0	0.6	52	0.96	1.44	57.1	6.6
F2.000	122.485	0.000	0.0	154.0	0.4	43	0.91	1.53	61.0	4.8
F1.003	120.985	0.000	0.0	658.0	0.7	54	1.01	1.48	59.0	7.5
F1.004	120.486	0.000	0.0	700.0	0.7	55	1.02	1.48	59.0	7.7
F1.005	118.775	0.000	0.0	742.0	0.7	55	1.03	1.48	59.0	7.8
F3.000	121.751	0.000	0.0	98.0	0.4	50	0.66	1.01	40.3	4.3

Network Design Table for Foul - Main

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Units	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
F3.001	44.460	0.539	82.5	0.000	42.0	0.0	1.500	o	225	Pipe/Conduit	
F3.002	8.216	0.198	41.5	0.000	0.0	0.0	1.500	o	225	Pipe/Conduit	
F3.003	16.974	0.268	63.3	0.000	28.0	0.0	1.500	o	225	Pipe/Conduit	
F3.004	34.519	0.777	44.4	0.000	70.0	0.0	1.500	o	225	Pipe/Conduit	
F1.006	61.036	0.763	80.0	0.000	126.0	0.0	1.500	o	225	Pipe/Conduit	
F4.000	53.673	1.579	34.0	0.000	140.0	0.0	1.500	o	225	Pipe/Conduit	
F5.000	36.460	1.053	34.6	0.000	126.0	0.0	1.500	o	225	Pipe/Conduit	
F1.007	38.376	0.203	189.0	0.000	98.0	0.0	1.500	o	225	Pipe/Conduit	
F1.008	14.168	0.075	189.0	0.000	28.0	0.0	1.500	o	225	Pipe/Conduit	
F1.009	19.050	0.314	60.7	0.000	84.0	0.0	1.500	o	225	Pipe/Conduit	
F6.000	46.044	1.993	23.1	0.000	98.0	0.0	1.500	o	225	Pipe/Conduit	
F1.010	25.575	1.174	21.8	0.000	56.0	0.0	1.500	o	225	Pipe/Conduit	
F1.011	38.723	1.291	30.0	0.000	140.0	0.0	1.500	o	225	Pipe/Conduit	
F1.012	21.189	0.918	23.1	0.000	112.0	0.0	1.500	o	225	Pipe/Conduit	
F7.000	50.261	1.140	44.1	0.000	182.0	0.0	1.500	o	225	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Units	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
F3.001	120.530	0.000	0.0	140.0	0.4	46	0.79	1.26	50.3	4.7
F3.002	119.991	0.000	0.0	140.0	0.4	39	1.00	1.78	71.0	4.7
F3.003	119.793	0.000	0.0	168.0	0.4	45	0.88	1.44	57.4	4.9
F3.004	119.325	0.000	0.0	238.0	0.5	43	1.03	1.72	68.6	5.4
F1.006	118.560	0.000	0.0	1106.0	0.8	65	0.97	1.28	51.1	9.3
F4.000	119.376	0.000	0.0	140.0	0.4	37	1.08	1.97	78.4	4.7
F5.000	118.850	0.000	0.0	126.0	0.4	37	1.06	1.95	77.7	4.6
F1.007	117.797	0.000	0.0	1470.0	1.0	88	0.74	0.83	33.1	10.6
F1.008	117.594	0.000	0.0	1498.0	1.0	88	0.74	0.83	33.1	10.7
F1.009	117.519	0.000	0.0	1582.0	1.0	66	1.13	1.48	58.7	11.0
F6.000	119.198	0.000	0.0	98.0	0.4	33	1.20	2.39	95.2	4.3
F1.010	117.205	0.000	0.0	1736.0	1.0	52	1.65	2.47	98.0	11.5
F1.011	114.862	0.000	0.0	1876.0	1.1	58	1.49	2.10	83.5	12.0
F1.012	113.571	0.000	0.0	1988.0	1.1	55	1.65	2.39	95.2	12.4
F7.000	117.060	0.000	0.0	182.0	0.5	41	1.00	1.73	68.8	5.0

Network Design Table for Foul - Main

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Units	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
F7.001	22.860	0.523	43.7	0.000	42.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F8.000	29.693	1.188	25.0	0.000	84.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F8.001	21.057	0.880	23.9	0.000	28.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F7.002	10.927	0.380	28.8	0.000	56.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F7.003	16.379	0.199	82.3	0.000	0.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F9.000	74.944	1.500	50.0	0.000	168.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F7.004	17.208	0.319	53.9	0.000	0.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F7.005	27.110	0.559	48.5	0.000	56.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F7.006	23.807	0.749	31.8	0.000	56.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F7.007	15.194	0.576	26.4	0.000	0.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F1.013	32.780	0.998	32.8	0.000	0.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F1.014	53.685	2.868	18.7	0.000	0.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F1.015	38.476	1.977	19.5	0.000	0.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F1.016	14.946	0.217	68.9	0.000	0.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F10.000	19.564	0.444	44.1	0.000	56.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F10.001	9.895	0.043	230.1	0.000	56.0	0.0	1.500	o	225	Pipe/Conduit	🔴

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Units	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
F7.001	115.920	0.000	0.0	224.0	0.5	42	1.02	1.74	69.1	5.3
F8.000	117.778	0.000	0.0	84.0	0.4	33	1.16	2.30	91.5	4.2
F8.001	116.590	0.000	0.0	112.0	0.4	34	1.20	2.35	93.5	4.4
F7.002	115.397	0.000	0.0	392.0	0.6	41	1.25	2.15	85.3	6.2
F7.003	115.017	0.000	0.0	392.0	0.6	54	0.86	1.27	50.3	6.2
F9.000	116.631	0.000	0.0	168.0	0.4	42	0.96	1.63	64.7	4.9
F7.004	114.818	0.000	0.0	560.0	0.6	51	1.04	1.56	62.2	7.0
F7.005	114.499	0.000	0.0	616.0	0.7	51	1.09	1.65	65.6	7.3
F7.006	113.940	0.000	0.0	672.0	0.7	46	1.28	2.04	81.1	7.5
F7.007	113.191	0.000	0.0	672.0	0.7	44	1.36	2.24	89.1	7.5
F1.013	112.398	0.000	0.0	2660.0	1.3	65	1.53	2.01	79.8	14.7
F1.014	111.400	0.000	0.0	2660.0	1.3	57	1.87	2.66	105.8	14.7
F1.015	108.532	0.000	0.0	2660.0	1.3	57	1.85	2.61	103.7	14.7
F1.016	106.555	0.000	0.0	2660.0	1.3	79	1.17	1.38	55.0	14.7
F10.000	127.178	0.000	0.0	56.0	0.3	36	0.93	1.73	68.9	3.8
F10.001	126.734	0.000	0.0	112.0	0.4	58	0.54	0.75	30.0	4.4




















Network Design Table for Foul - Main

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Units	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
F10.002	47.831	0.846	56.5	0.000	84.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F11.000	33.614	0.300	112.0	0.000	70.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F10.003	50.148	0.218	230.0	0.000	98.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F10.004	11.170	0.274	40.8	0.000	112.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F12.000	43.766	0.337	129.9	0.000	84.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F10.005	14.526	0.063	230.6	0.000	0.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F13.000	53.006	1.287	41.2	0.000	140.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F10.006	26.123	0.773	33.8	0.000	0.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F14.000	30.265	0.609	49.7	0.000	42.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F14.001	40.185	0.470	85.5	0.000	28.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F14.002	11.638	0.051	228.2	0.000	0.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F10.007	8.368	0.065	128.7	0.000	0.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F10.008	16.352	0.136	120.2	0.000	42.0	0.0	1.500	o	225	Pipe/Conduit	🔴
F10.009	7.745	0.052	150.0	0.000	84.0	0.0	1.500	o	225	Pipe/Conduit	🔴

Network Results Table


PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Units	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
F10.002	126.691	0.000	0.0	196.0	0.5	44	0.93	1.53	60.8	5.1
F11.000	124.940	0.000	0.0	70.0	0.4	46	0.68	1.08	43.1	4.0
F10.003	124.640	0.000	0.0	364.0	0.6	69	0.59	0.76	30.0	6.1
F10.004	124.422	0.000	0.0	476.0	0.6	46	1.13	1.80	71.6	6.7
F12.000	123.403	0.000	0.0	84.0	0.4	49	0.65	1.01	40.0	4.2
F10.005	123.066	0.000	0.0	560.0	0.6	74	0.62	0.75	30.0	7.0
F13.000	124.687	0.000	0.0	140.0	0.4	39	1.01	1.79	71.2	4.7
F10.006	123.003	0.000	0.0	700.0	0.7	47	1.25	1.98	78.7	7.7
F14.000	123.128	0.000	0.0	42.0	0.3	36	0.87	1.63	64.8	3.6
F14.001	122.519	0.000	0.0	70.0	0.4	43	0.74	1.24	49.4	4.0
F14.002	121.895	0.000	0.0	70.0	0.4	56	0.53	0.76	30.1	4.0
F10.007	121.844	0.000	0.0	770.0	0.7	68	0.79	1.01	40.2	7.9
F10.008	121.779	0.000	0.0	812.0	0.7	67	0.81	1.05	41.6	8.1
F10.009	120.902	0.000	0.0	896.0	0.8	73	0.76	0.94	37.2	8.5

Network Design Table for Foul - Main











PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Units	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
F10.010	37.683	0.238	158.3	0.000	0.0	0.0	1.500	o	225	Pipe/Conduit	
F10.011	15.389	0.103	150.0	0.000	84.0	0.0	1.500	o	225	Pipe/Conduit	
F15.000	32.579	0.652	50.0	0.000	70.0	0.0	1.500	o	225	Pipe/Conduit	
F15.001	20.070	0.313	64.1	0.000	84.0	0.0	1.500	o	225	Pipe/Conduit	
F15.002	37.225	0.417	89.3	0.000	70.0	0.0	1.500	o	225	Pipe/Conduit	
F15.003	55.603	2.224	25.0	0.000	84.0	0.0	1.500	o	225	Pipe/Conduit	
F10.012	57.904	1.298	44.6	0.000	140.0	0.0	1.500	o	225	Pipe/Conduit	
F10.013	18.116	0.150	120.8	0.000	42.0	0.0	1.500	o	225	Pipe/Conduit	
F16.000	61.195	1.550	39.5	0.000	140.0	0.0	1.500	o	225	Pipe/Conduit	
F16.001	91.057	2.147	42.4	0.000	168.0	0.0	1.500	o	225	Pipe/Conduit	
F16.002	53.970	1.146	47.1	0.000	98.0	0.0	1.500	o	225	Pipe/Conduit	
F16.003	10.580	0.195	54.3	0.000	0.0	0.0	1.500	o	225	Pipe/Conduit	
F17.000	47.840	1.139	42.0	0.000	84.0	0.0	1.500	o	225	Pipe/Conduit	
F17.001	12.568	0.327	38.4	0.000	70.0	0.0	1.500	o	225	Pipe/Conduit	
F17.002	34.100	0.941	36.2	0.000	56.0	0.0	1.500	o	225	Pipe/Conduit	
F16.004	44.125	0.956	46.2	0.000	126.0	0.0	1.500	o	225	Pipe/Conduit	
F16.005	9.847	0.245	40.2	0.000	0.0	0.0	1.500	o	225	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Units	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
F10.010	120.850	0.000	0.0	896.0	0.8	74	0.74	0.91	36.2	8.5
F10.011	120.612	0.000	0.0	980.0	0.8	74	0.77	0.94	37.2	8.8
F15.000	126.400	0.000	0.0	70.0	0.4	38	0.90	1.63	64.7	4.0
F15.001	125.748	0.000	0.0	154.0	0.4	44	0.87	1.43	57.0	4.8
F15.002	124.043	0.000	0.0	224.0	0.5	50	0.80	1.22	48.3	5.3
F15.003	122.733	0.000	0.0	308.0	0.5	38	1.28	2.30	91.5	5.8
F10.012	120.509	0.000	0.0	1428.0	0.9	59	1.24	1.72	68.4	10.4
F10.013	119.211	0.000	0.0	1470.0	1.0	78	0.87	1.04	41.5	10.6
F16.000	138.169	0.000	0.0	140.0	0.4	39	1.02	1.83	72.8	4.7
F16.001	136.619	0.000	0.0	308.0	0.5	44	1.06	1.77	70.2	5.8
F16.002	134.472	0.000	0.0	406.0	0.6	47	1.05	1.68	66.6	6.3
F16.003	133.326	0.000	0.0	406.0	0.6	48	1.00	1.56	62.0	6.3
F17.000	135.538	0.000	0.0	84.0	0.4	37	0.97	1.77	70.5	4.2
F17.001	134.399	0.000	0.0	154.0	0.4	39	1.04	1.85	73.7	4.8
F17.002	134.072	0.000	0.0	210.0	0.5	40	1.09	1.91	76.0	5.2
F16.004	133.131	0.000	0.0	742.0	0.7	52	1.13	1.69	67.3	7.8
F16.005	132.175	0.000	0.0	742.0	0.7	50	1.19	1.81	72.1	7.8


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Network Design Table for Foul - Main





PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Units	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
F18.000	81.012	1.879	43.1	0.000	140.0	0.0	1.500	o	225	Pipe/Conduit	
F16.006	54.400	1.520	35.8	0.000	84.0	0.0	1.500	o	225	Pipe/Conduit	
F19.000	20.394	0.160	127.5	0.000	42.0	0.0	1.500	o	225	Pipe/Conduit	
F19.001	45.624	0.236	193.3	0.000	98.0	0.0	1.500	o	225	Pipe/Conduit	
F16.007	32.879	0.143	229.9	0.000	84.0	0.0	1.500	o	225	Pipe/Conduit	
F20.000	33.373	0.757	44.1	0.000	126.0	0.0	1.500	o	225	Pipe/Conduit	
F20.001	39.429	1.069	36.9	0.000	196.0	0.0	1.500	o	225	Pipe/Conduit	
F16.008	68.767	1.507	45.6	0.000	56.0	0.0	1.500	o	225	Pipe/Conduit	
F16.009	24.484	0.163	150.0	0.000	42.0	0.0	1.500	o	225	Pipe/Conduit	
F16.010	10.235	0.341	30.0	0.000	14.0	0.0	1.500	o	225	Pipe/Conduit	
F16.011	5.442	0.181	30.0	0.000	14.0	0.0	1.500	o	225	Pipe/Conduit	
F21.000	30.192	1.006	30.0	0.000	56.0	0.0	1.500	o	225	Pipe/Conduit	
F21.001	30.192	1.006	30.0	0.000	0.0	0.0	1.500	o	225	Pipe/Conduit	
F16.012	9.377	0.313	30.0	0.000	14.0	0.0	1.500	o	225	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Units	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
F18.000	133.809	0.000	0.0	140.0	0.4	40	0.99	1.75	69.6	4.7
F16.006	131.410	0.000	0.0	966.0	0.8	51	1.28	1.92	76.4	8.7
F19.000	130.086	0.000	0.0	42.0	0.3	45	0.62	1.02	40.4	3.6
F19.001	129.926	0.000	0.0	140.0	0.4	57	0.58	0.82	32.8	4.7
F16.007	129.690	0.000	0.0	1190.0	0.9	87	0.67	0.76	30.0	9.6
F20.000	132.893	0.000	0.0	126.0	0.4	39	0.98	1.73	68.8	4.6
F20.001	132.136	0.000	0.0	322.0	0.5	43	1.12	1.89	75.3	5.9
F16.008	129.547	0.000	0.0	1568.0	1.0	61	1.25	1.70	67.7	10.9
F16.009	128.040	0.000	0.0	1610.0	1.0	84	0.82	0.94	37.2	11.1
F16.010	127.877	0.000	0.0	1624.0	1.0	56	1.46	2.10	83.5	11.1
F16.011	127.536	0.000	0.0	1638.0	1.0	56	1.46	2.10	83.5	11.2
F21.000	130.767	0.000	0.0	56.0	0.3	33	1.06	2.10	83.5	3.8
F21.001	128.361	0.000	0.0	56.0	0.3	33	1.06	2.10	83.5	3.8
F16.012	126.256	0.000	0.0	1708.0	1.0	56	1.47	2.10	83.5	11.4

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Network Design Table for Foul - Main

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Units	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
F16.013	10.682	0.356	30.0	0.000	14.0	0.0	1.500	o	225	Pipe/Conduit	
F16.014	28.570	0.952	30.0	0.000	70.0	0.0	1.500	o	225	Pipe/Conduit	
F16.015	54.739	0.550	99.5	0.000	98.0	0.0	1.500	o	225	Pipe/Conduit	
F16.016	17.366	0.600	28.9	0.000	84.0	0.0	1.500	o	225	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Units	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
F16.013	125.943	0.000	0.0	1722.0	1.0	56	1.47	2.10	83.5	11.5
F16.014	125.587	0.000	0.0	1792.0	1.1	57	1.48	2.10	83.5	11.7
F16.015	124.635	0.000	0.0	1890.0	1.1	79	0.97	1.15	45.8	12.1
F16.016	124.085	0.000	0.0	1974.0	1.1	58	1.53	2.14	85.0	12.4

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)
F1	126.377	1.425	Open Manhole	1200	F1.000	124.952	225				
F2	125.865	1.425	Open Manhole	1200	F1.001	124.440	225	F1.000	124.440	225	
F3	124.198	1.378	Open Manhole	1200	F1.002	122.820	225	F1.001	122.820	225	
F4	124.304	1.819	Open Manhole	1200	F2.000	122.485	225				
F5	123.189	2.204	Open Manhole	1200	F1.003	120.985	225	F1.002	121.765	225	780
								F2.000	121.385	225	400
F6	122.339	1.853	Open Manhole	1200	F1.004	120.486	225	F1.003	120.486	225	
F8	121.819	3.044	Open Manhole	1200	F1.005	118.775	225	F1.004	120.197	225	1422
F9A	123.176	1.425	Open Manhole	1200	F3.000	121.751	225				
F9	123.651	3.121	Open Manhole	1200	F3.001	120.530	225	F3.000	121.466	225	936
F10	121.416	1.425	Open Manhole	1200	F3.002	119.991	225	F3.001	119.991	225	
F11	121.218	1.425	Open Manhole	1200	F3.003	119.793	225	F3.002	119.793	225	
F12	120.950	1.625	Open Manhole	1200	F3.004	119.325	225	F3.003	119.525	225	200
F13	121.436	2.888	Open Manhole	1200	F1.006	118.560	225	F1.005	118.560	225	
								F3.004	118.548	225	
F14	123.017	3.641	Open Manhole	1200	F4.000	119.376	225				
F15A	120.275	1.425	Open Manhole	1200	F5.000	118.850	225				
F15	120.002	2.205	Open Manhole	1200	F1.007	117.797	225	F1.006	117.797	225	
								F4.000	117.797	225	
								F5.000	117.797	225	
F16	119.535	1.941	Open Manhole	1200	F1.008	117.594	225	F1.007	117.594	225	
F17	119.404	1.885	Open Manhole	1200	F1.009	117.519	225	F1.008	117.519	225	
F18	121.926	2.728	Open Manhole	1200	F6.000	119.198	225				
F19	119.288	2.083	Open Manhole	1200	F1.010	117.205	225	F1.009	117.205	225	
								F6.000	117.205	225	
F20	117.879	3.017	Open Manhole	1200	F1.011	114.862	225	F1.010	116.031	225	1169
F21	115.446	1.875	Open Manhole	1200	F1.012	113.571	225	F1.011	113.571	225	
F22	119.308	2.248	Open Manhole	1200	F7.000	117.060	225				
F23	117.495	1.575	Open Manhole	1200	F7.001	115.920	225	F7.000	115.920	225	
F24	119.884	2.106	Open Manhole	1200	F8.000	117.778	225				
F25	118.016	1.426	Open Manhole	1200	F8.001	116.590	225	F8.000	116.590	225	
F26	117.093	1.696	Open Manhole	1200	F7.002	115.397	225	F7.001	115.397	225	
								F8.001	115.710	225	313
F27	116.755	1.738	Open Manhole	1200	F7.003	115.017	225	F7.002	115.017	225	
F28	118.056	1.425	Open Manhole	1200	F9.000	116.631	225				
F29	116.641	1.823	Open Manhole	1200	F7.004	114.818	225	F7.003	114.818	225	
								F9.000	115.131	225	313
F30	116.237	1.738	Open Manhole	1200	F7.005	114.499	225	F7.004	114.499	225	

Manhole Schedules for Foul - Main

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Back (mm)
F31	115.678	1.738	Open Manhole	1200	F7.006	113.940	225	F7.005	113.940	225	
F32	114.929	1.738	Open Manhole	1200	F7.007	113.191	225	F7.006	113.191	225	
F33	114.353	1.955	Open Manhole	1200	F1.013	112.398	225	F1.012	112.653	225	
								F7.007	112.615	225	
F34	113.050	1.650	Open Manhole	1200	F1.014	111.400	225	F1.013	111.400	225	
F35	109.957	1.425	Open Manhole	1200	F1.015	108.532	225	F1.014	108.532	225	
F36	107.980	1.425	Open Manhole	1200	F1.016	106.555	225	F1.015	106.555	225	
FEEx CMH	107.530	1.192	Open Manhole	0		OUTFALL		F1.016	106.338	225	
F45	128.959	1.781	Open Manhole	1200	F10.000	127.178	225				
F46	128.536	1.802	Open Manhole	1200	F10.001	126.734	225	F10.000	126.734	225	
F47	128.303	1.612	Open Manhole	1200	F10.002	126.691	225	F10.001	126.691	225	
F48	126.540	1.600	Open Manhole	1200	F11.000	124.940	225				
F49	127.274	2.634	Open Manhole	1200	F10.003	124.640	225	F10.002	125.845	225	
								F11.000	124.640	225	
F50	126.106	1.684	Open Manhole	1200	F10.004	124.422	225	F10.003	124.422	225	
F51	124.828	1.425	Open Manhole	1200	F12.000	123.403	225				
F52	125.561	2.495	Open Manhole	1200	F10.005	123.066	225	F10.004	124.148	225	
								F12.000	123.066	225	
F53	126.418	1.731	Open Manhole	1200	F13.000	124.687	225				
F54	124.851	1.848	Open Manhole	1200	F10.006	123.003	225	F10.005	123.003	225	
								F13.000	123.400	225	
F55	124.553	1.425	Open Manhole	1200	F14.000	123.128	225				
F56	123.944	1.425	Open Manhole	1200	F14.001	122.519	225	F14.000	122.519	225	
F57	123.474	1.579	Open Manhole	1200	F14.002	121.895	225	F14.001	122.049	225	
F58	123.633	1.789	Open Manhole	1200	F10.007	121.844	225	F10.006	122.230	225	
								F14.002	121.844	225	
F59	123.344	1.565	Open Manhole	1200	F10.008	121.779	225	F10.007	121.779	225	
F60	122.954	2.052	Open Manhole	1200	F10.009	120.902	225	F10.008	121.643	225	
F60	122.802	1.952	Open Manhole	1200	F10.010	120.850	225	F10.009	120.850	225	
F61	122.177	1.565	Open Manhole	1200	F10.011	120.612	225	F10.010	120.612	225	
F62	129.273	2.873	Open Manhole	1200	F15.000	126.400	225				
F63	127.603	1.855	Open Manhole	1200	F15.001	125.748	225	F15.000	125.748	225	
F64	126.550	2.507	Open Manhole	1200	F15.002	124.043	225	F15.001	125.435	225	
F65	125.680	2.947	Open Manhole	1200	F15.003	122.733	225	F15.002	123.626	225	
F65	122.672	2.163	Open Manhole	1200	F10.012	120.509	225	F10.011	120.509	225	
								F15.003	120.509	225	
F66	120.654	1.443	Open Manhole	1200	F10.013	119.211	225	F10.012	119.211	225	

Manhole Schedules for Foul - Main

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
F70	120.652	1.591	Open Manhole	1200		OUTFALL		F10.013	119.061	225	
F2	140.458	2.289	Open Manhole	1200	F16.000	138.169	225				
F3	138.044	1.425	Open Manhole	1200	F16.001	136.619	225	F16.000	136.619	225	
F4	135.897	1.425	Open Manhole	1200	F16.002	134.472	225	F16.001	134.472	225	
F5	134.751	1.425	Open Manhole	1200	F16.003	133.326	225	F16.002	133.326	225	
F6	136.963	1.425	Open Manhole	1200	F17.000	135.538	225				
F7	135.961	1.562	Open Manhole	1200	F17.001	134.399	225	F17.000	134.399	225	
F8	135.497	1.425	Open Manhole	1200	F17.002	134.072	225	F17.001	134.072	225	
F9	134.556	1.425	Open Manhole	1200	F16.004	133.131	225	F16.003	133.131	225	
								F17.002	133.131	225	
F10	133.600	1.425	Open Manhole	1200	F16.005	132.175	225	F16.004	132.175	225	
F1	135.234	1.425	Open Manhole	1200	F18.000	133.809	225				
F11	133.355	1.945	Open Manhole	1200	F16.006	131.410	225	F16.005	131.930	225	520
								F18.000	131.930	225	520
F12	131.487	1.401	Open Manhole	1200	F19.000	130.086	225				
F13	131.426	1.500	Open Manhole	1200	F19.001	129.926	225	F19.000	129.926	225	
F14	131.620	1.930	Open Manhole	1200	F16.007	129.690	225	F16.006	129.890	225	200
								F19.001	129.690	225	
F15	134.330	1.437	Open Manhole	1200	F20.000	132.893	225				
F16	133.595	1.459	Open Manhole	1200	F20.001	132.136	225	F20.000	132.136	225	
F17	132.498	2.951	Open Manhole	1200	F16.008	129.547	225	F16.007	129.547	225	
								F20.001	131.067	225	1520
F19	129.475	1.435	Open Manhole	1200	F16.009	128.040	225	F16.008	128.040	225	
F20	129.508	1.631	Open Manhole	1200	F16.010	127.877	225	F16.009	127.877	225	
F21	129.163	1.628	Open Manhole	1200	F16.011	127.536	225	F16.010	127.536	225	
F22	134.139	3.372	Open Manhole	1200	F21.000	130.767	225				
F22A	131.952	3.591	Open Manhole	1200	F21.001	128.361	225	F21.000	129.761	225	1400
F23	128.909	2.653	Open Manhole	1200	F16.012	126.256	225	F16.011	127.355	225	1095
								F21.001	127.355	225	1095
F24	128.343	2.400	Open Manhole	1200	F16.013	125.943	225	F16.012	125.943	225	
F25	127.698	2.111	Open Manhole	1200	F16.014	125.587	225	F16.013	125.587	225	
F26	126.046	1.411	Open Manhole	1200	F16.015	124.635	225	F16.014	124.635	225	
F27	125.622	1.537	Open Manhole	1200	F16.016	124.085	225	F16.015	124.085	225	
F38	125.569	2.084	Open Manhole	1200		OUTFALL		F16.016	123.485	225	

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Manhole Schedules for Foul - Main

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
F1	165723.416	73076.573	165723.416	73076.573	Required	
F2	165747.029	73084.938	165747.029	73084.938	Required	
F3	165823.515	73083.952	165823.515	73083.952	Required	
F4	165760.538	73017.928	165760.538	73017.928	Required	
F5	165822.221	73016.498	165822.221	73016.498	Required	
F6	165821.646	72986.557	165821.646	72986.557	Required	
F8	165819.680	72969.314	165819.680	72969.314	Required	
F9A	165869.264	73056.537	165869.264	73056.537	Required	
F9	165840.485	73034.034	165840.485	73034.034	Required	
F10	165868.123	72999.209	165868.123	72999.209	Required	
F11	165866.734	72991.111	165866.734	72991.111	Required	
F12	165853.756	72980.170	165853.756	72980.170	Required	
F13	165826.816	72958.589	165826.816	72958.589	Required	
F14	165745.446	72962.556	165745.446	72962.556	Required	
F15A	165801.074	72891.646	165801.074	72891.646	Required	

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Manhole Schedules for Foul - Main

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
F15	165778.995	72920.660	165778.995	72920.660	Required	
F16	165748.757	72897.029	165748.757	72897.029	Required	
F17	165737.785	72888.066	165737.785	72888.066	Required	
F18	165688.262	72894.719	165688.262	72894.719	Required	
F19	165728.113	72871.654	165728.113	72871.654	Required	
F20	165750.247	72858.841	165750.247	72858.841	Required	
F21	165774.829	72828.921	165774.829	72828.921	Required	
F22	165725.960	72867.817	165725.960	72867.817	Required	
F23	165701.235	72824.058	165701.235	72824.058	Required	
F24	165642.446	72838.770	165642.446	72838.770	Required	
F25	165668.312	72824.187	165668.312	72824.187	Required	
F26	165683.514	72809.617	165683.514	72809.617	Required	
F27	165689.622	72800.556	165689.622	72800.556	Required	
F28	165627.910	72754.905	165627.910	72754.905	Required	
F29	165696.284	72785.592	165696.284	72785.592	Required	

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Manhole Schedules for Foul - Main

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
F30	165712.009	72792.578	165712.009	72792.578	Required	
F31	165737.577	72801.592	165737.577	72801.592	Required	
F32	165760.927	72806.233	165760.927	72806.233	Required	
F33	165776.043	72807.767	165776.043	72807.767	Required	
F34	165808.823	72807.741	165808.823	72807.741	Required	
F35	165862.123	72801.315	165862.123	72801.315	Required	
F36	165900.097	72795.119	165900.097	72795.119	Required	
FEx CMH	165905.608	72781.226			No Entry	
F45	165618.968	73019.945	165618.968	73019.945	Required	
F46	165632.277	73034.285	165632.277	73034.285	Required	
F47	165640.032	73040.430	165640.032	73040.430	Required	
F48	165715.408	73071.278	165715.408	73071.278	Required	
F49	165684.299	73058.545	165684.299	73058.545	Required	
F50	165702.748	73011.914	165702.748	73011.914	Required	
F51	165745.291	73016.585	165745.291	73016.585	Required	

Manhole Schedules for Foul - Main

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
F52	165704.442	73000.874	165704.442	73000.874	Required	
F53	165654.223	72978.804	165654.223	72978.804	Required	
F54	165706.664	72986.519	165706.664	72986.519	Required	
F55	165754.411	73018.143	165754.411	73018.143	Required	
F56	165753.434	72987.894	165753.434	72987.894	Required	
F57	165722.046	72962.801	165722.046	72962.801	Required	
F58	165710.601	72960.694	165710.601	72960.694	Required	
F59	165711.869	72952.423	165711.869	72952.423	Required	
F60	165704.097	72938.036	165704.097	72938.036	Required	
F60	165700.349	72931.259	165700.349	72931.259	Required	
F61	165682.110	72898.283	165682.110	72898.283	Required	
F62	165611.773	73007.237	165611.773	73007.237	Required	
F63	165635.840	72985.278	165635.840	72985.278	Required	
F64	165639.291	72965.507	165639.291	72965.507	Required	
F65	165620.421	72933.419	165620.421	72933.419	Required	

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Manhole Schedules for Foul - Main

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
F65	165668.718	72905.866	165668.718	72905.866	Required	
F66	165640.071	72855.545	165640.071	72855.545	Required	
F70	165631.015	72839.855			No Entry	
F2	165307.510	72985.291	165307.510	72985.291	Required	
F3	165365.698	73004.237	165365.698	73004.237	Required	
F4	165449.900	73038.898	165449.900	73038.898	Required	
F5	165481.828	73082.412	165481.828	73082.412	Required	
F6	165409.431	73130.531	165409.431	73130.531	Required	
F7	165444.401	73097.884	165444.401	73097.884	Required	
F8	165447.219	73085.636	165447.219	73085.636	Required	
F9	165480.533	73092.912	165480.533	73092.912	Required	
F10	165523.643	73102.327	165523.643	73102.327	Required	
F11	165470.222	73163.979	165470.222	73163.979	Required	
F11	165530.275	73109.605	165530.275	73109.605	Required	
F12	165617.686	73119.036	165617.686	73119.036	Required	

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Manhole Schedules for Foul - Main

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
F13	165601.424	73106.730	165601.424	73106.730	Required	
F14	165570.601	73073.092	165570.601	73073.092	Required	
F15	165508.524	72989.059	165508.524	72989.059	Required	
F16	165521.926	73019.623	165521.926	73019.623	Required	
F17	165548.319	73048.915	165548.319	73048.915	Required	
F19	165599.757	73003.276	165599.757	73003.276	Required	
F20	165583.664	72984.824	165583.664	72984.824	Required	
F21	165577.924	72976.350	165577.924	72976.350	Required	
F22	165516.776	72971.839	165516.776	72971.839	Required	
F22A	165546.965	72971.401	165546.965	72971.401	Required	
F23	165577.154	72970.963	165577.154	72970.963	Required	
F24	165578.249	72961.650	165578.249	72961.650	Required	
F25	165584.754	72953.176	165584.754	72953.176	Required	
F26	165609.478	72938.860	165609.478	72938.860	Required	
F27	165582.420	72891.276	165582.420	72891.276	Required	

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Manhole Schedules for Foul - Main

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
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F38 165573.982 72876.099

No Entry




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Area Summary for Foul - Main

Pipe Number	Gross Area (ha)	Pipe Total (ha)
1.000	0.000	0.000
1.001	0.000	0.000
1.002	0.000	0.000
2.000	0.000	0.000
1.003	0.000	0.000
1.004	0.000	0.000
1.005	0.000	0.000
3.000	0.000	0.000
3.001	0.000	0.000
3.002	0.000	0.000
3.003	0.000	0.000
3.004	0.000	0.000
1.006	0.000	0.000
4.000	0.000	0.000
5.000	0.000	0.000
1.007	0.000	0.000
1.008	0.000	0.000
1.009	0.000	0.000
6.000	0.000	0.000
1.010	0.000	0.000
1.011	0.000	0.000
1.012	0.000	0.000
7.000	0.000	0.000
7.001	0.000	0.000
8.000	0.000	0.000
8.001	0.000	0.000
7.002	0.000	0.000
7.003	0.000	0.000
9.000	0.000	0.000
7.004	0.000	0.000
7.005	0.000	0.000
7.006	0.000	0.000
7.007	0.000	0.000
1.013	0.000	0.000
1.014	0.000	0.000
1.015	0.000	0.000
1.016	0.000	0.000
10.000	0.000	0.000
10.001	0.000	0.000
10.002	0.000	0.000
11.000	0.000	0.000
10.003	0.000	0.000
10.004	0.000	0.000
12.000	0.000	0.000
10.005	0.000	0.000
13.000	0.000	0.000
10.006	0.000	0.000
14.000	0.000	0.000
14.001	0.000	0.000
14.002	0.000	0.000
10.007	0.000	0.000

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Area Summary for Foul - Main

Pipe Number	Gross Area (ha)	Pipe Total (ha)
10.008	0.000	0.000
10.009	0.000	0.000
10.010	0.000	0.000
10.011	0.000	0.000
15.000	0.000	0.000
15.001	0.000	0.000
15.002	0.000	0.000
15.003	0.000	0.000
10.012	0.000	0.000
10.013	0.000	0.000
16.000	0.000	0.000
16.001	0.000	0.000
16.002	0.000	0.000
16.003	0.000	0.000
17.000	0.000	0.000
17.001	0.000	0.000
17.002	0.000	0.000
16.004	0.000	0.000
16.005	0.000	0.000
18.000	0.000	0.000
16.006	0.000	0.000
19.000	0.000	0.000
19.001	0.000	0.000
16.007	0.000	0.000
20.000	0.000	0.000
20.001	0.000	0.000
16.008	0.000	0.000
16.009	0.000	0.000
16.010	0.000	0.000
16.011	0.000	0.000
21.000	0.000	0.000
21.001	0.000	0.000
16.012	0.000	0.000
16.013	0.000	0.000
16.014	0.000	0.000
16.015	0.000	0.000
16.016	0.000	0.000
	Total	Total
	0.000	0.000

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Network Classifications for Foul - Main

PN	USMH Name	Pipe Dia (mm)	Min Cover Depth (m)	Max Cover Depth (m)	Pipe Type	MH Dia (mm)	MH Width (mm)	MH Ring Depth (m)	MH Type
F1.000	F1	225	1.200	1.296	Unclassified	1200	0	1.200	Unclassified
F1.001	F2	225	1.153	1.263	Unclassified	1200	0	1.200	Unclassified
F1.002	F3	225	1.153	1.253	Unclassified	1200	0	1.153	Unclassified
F2.000	F4	225	1.579	2.007	Unclassified	1200	0	1.594	Unclassified
F1.003	F5	225	1.628	1.979	Unclassified	1200	0	1.979	Unclassified
F1.004	F6	225	1.397	1.628	Unclassified	1200	0	1.628	Unclassified
F1.005	F8	225	2.651	3.000	Unclassified	1200	0	2.819	Unclassified
F3.000	F9A	225	0.126	1.960	Unclassified	1200	0	1.200	Unclassified
F3.001	F9	225	0.448	2.896	Unclassified	1200	0	2.896	Unclassified
F3.002	F10	225	1.200	1.200	Unclassified	1200	0	1.200	Unclassified
F3.003	F11	225	1.200	1.200	Unclassified	1200	0	1.200	Unclassified
F3.004	F12	225	0.432	2.663	Unclassified	1200	0	1.400	Unclassified
F1.006	F13	225	1.980	2.651	Unclassified	1200	0	2.651	Unclassified
F4.000	F14	225	1.980	3.416	Unclassified	1200	0	3.416	Unclassified
F5.000	F15A	225	0.594	1.980	Unclassified	1200	0	1.200	Unclassified
F1.007	F15	225	1.716	1.980	Unclassified	1200	0	1.980	Unclassified
F1.008	F16	225	1.660	1.716	Unclassified	1200	0	1.716	Unclassified
F1.009	F17	225	1.660	1.858	Unclassified	1200	0	1.660	Unclassified
F6.000	F18	225	1.858	2.503	Unclassified	1200	0	2.503	Unclassified
F1.010	F19	225	1.623	1.919	Unclassified	1200	0	1.858	Unclassified
F1.011	F20	225	1.650	2.792	Unclassified	1200	0	2.792	Unclassified
F1.012	F21	225	1.449	1.650	Unclassified	1200	0	1.650	Unclassified
F7.000	F22	225	1.350	2.023	Unclassified	1200	0	2.023	Unclassified
F7.001	F23	225	1.304	1.471	Unclassified	1200	0	1.350	Unclassified
F8.000	F24	225	1.201	1.881	Unclassified	1200	0	1.881	Unclassified
F8.001	F25	225	1.083	1.201	Unclassified	1200	0	1.201	Unclassified
F7.002	F26	225	1.471	1.836	Unclassified	1200	0	1.471	Unclassified
F7.003	F27	225	1.398	1.598	Unclassified	1200	0	1.513	Unclassified
F9.000	F28	225	1.200	1.285	Unclassified	1200	0	1.200	Unclassified
F7.004	F29	225	1.513	1.710	Unclassified	1200	0	1.598	Unclassified
F7.005	F30	225	1.513	1.631	Unclassified	1200	0	1.513	Unclassified
F7.006	F31	225	1.485	1.513	Unclassified	1200	0	1.513	Unclassified
F7.007	F32	225	1.470	1.513	Unclassified	1200	0	1.513	Unclassified
F1.013	F33	225	1.425	1.730	Unclassified	1200	0	1.730	Unclassified
F1.014	F34	225	1.200	1.425	Unclassified	1200	0	1.425	Unclassified
F1.015	F35	225	1.200	1.200	Unclassified	1200	0	1.200	Unclassified
F1.016	F36	225	0.967	1.200	Unclassified	1200	0	1.200	Unclassified
F10.000	F45	225	1.556	1.577	Unclassified	1200	0	1.556	Unclassified
F10.001	F46	225	1.387	1.577	Unclassified	1200	0	1.577	Unclassified
F10.002	F47	225	1.204	1.387	Unclassified	1200	0	1.387	Unclassified
F11.000	F48	225	1.375	2.409	Unclassified	1200	0	1.375	Unclassified
F10.003	F49	225	1.459	2.409	Unclassified	1200	0	2.409	Unclassified
F10.004	F50	225	1.188	1.459	Unclassified	1200	0	1.459	Unclassified
F12.000	F51	225	1.200	2.386	Unclassified	1200	0	1.200	Unclassified
F10.005	F52	225	1.623	2.270	Unclassified	1200	0	2.270	Unclassified
F13.000	F53	225	1.226	1.768	Unclassified	1200	0	1.506	Unclassified
F10.006	F54	225	1.178	1.623	Unclassified	1200	0	1.623	Unclassified
F14.000	F55	225	1.200	1.679	Unclassified	1200	0	1.200	Unclassified
F14.001	F56	225	1.200	1.430	Unclassified	1200	0	1.200	Unclassified


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Network Classifications for Foul - Main

PN	USMH Name	Pipe Dia (mm)	Min Cover Depth (m)	Max Cover Depth (m)	Pipe Type	MH Dia (mm)	MH Width (mm)	MH Ring Depth (m)	MH Type
F14.002	F57	225	1.354	1.729	Unclassified	1200	0	1.354	Unclassified
F10.007	F58	225	1.340	1.564	Unclassified	1200	0	1.564	Unclassified
F10.008	F59	225	1.086	1.340	Unclassified	1200	0	1.340	Unclassified
F10.009	F60	225	1.727	1.827	Unclassified	1200	0	1.827	Unclassified
F10.010	F60	225	1.340	1.727	Unclassified	1200	0	1.727	Unclassified
F10.011	F61	225	1.340	1.957	Unclassified	1200	0	1.340	Unclassified
F15.000	F62	225	1.630	2.648	Unclassified	1200	0	2.648	Unclassified
F15.001	F63	225	0.890	1.630	Unclassified	1200	0	1.630	Unclassified
F15.002	F64	225	1.682	2.282	Unclassified	1200	0	2.282	Unclassified
F15.003	F65	225	1.938	2.722	Unclassified	1200	0	2.722	Unclassified
F10.012	F65	225	1.218	1.938	Unclassified	1200	0	1.938	Unclassified
F10.013	F66	225	1.218	1.383	Unclassified	1200	0	1.218	Unclassified
F16.000	F2	225	1.200	2.064	Unclassified	1200	0	2.064	Unclassified
F16.001	F3	225	1.200	1.200	Unclassified	1200	0	1.200	Unclassified
F16.002	F4	225	1.200	1.200	Unclassified	1200	0	1.200	Unclassified
F16.003	F5	225	1.200	1.200	Unclassified	1200	0	1.200	Unclassified
F17.000	F6	225	1.200	1.337	Unclassified	1200	0	1.200	Unclassified
F17.001	F7	225	1.200	1.337	Unclassified	1200	0	1.337	Unclassified
F17.002	F8	225	1.200	1.200	Unclassified	1200	0	1.200	Unclassified
F16.004	F9	225	1.200	1.200	Unclassified	1200	0	1.200	Unclassified
F16.005	F10	225	1.200	1.200	Unclassified	1200	0	1.200	Unclassified
F18.000	F1	225	1.200	1.200	Unclassified	1200	0	1.200	Unclassified
F16.006	F11	225	1.505	1.720	Unclassified	1200	0	1.720	Unclassified
F19.000	F12	225	1.176	1.284	Unclassified	1200	0	1.176	Unclassified
F19.001	F13	225	1.133	1.705	Unclassified	1200	0	1.275	Unclassified
F16.007	F14	225	1.705	2.726	Unclassified	1200	0	1.705	Unclassified
F20.000	F15	225	1.212	1.249	Unclassified	1200	0	1.212	Unclassified
F20.001	F16	225	1.206	1.234	Unclassified	1200	0	1.234	Unclassified
F16.008	F17	225	1.210	2.726	Unclassified	1200	0	2.726	Unclassified
F16.009	F19	225	1.210	1.453	Unclassified	1200	0	1.210	Unclassified
F16.010	F20	225	1.403	1.436	Unclassified	1200	0	1.406	Unclassified
F16.011	F21	225	1.329	1.402	Unclassified	1200	0	1.402	Unclassified
F21.000	F22	225	1.966	3.147	Unclassified	1200	0	3.147	Unclassified
F21.001	F22A	225	1.329	3.366	Unclassified	1200	0	3.366	Unclassified
F16.012	F23	225	2.174	2.428	Unclassified	1200	0	2.428	Unclassified
F16.013	F24	225	1.886	2.175	Unclassified	1200	0	2.175	Unclassified
F16.014	F25	225	1.186	1.886	Unclassified	1200	0	1.886	Unclassified
F16.015	F26	225	1.186	1.312	Unclassified	1200	0	1.186	Unclassified
F16.016	F27	225	1.312	1.859	Unclassified	1200	0	1.312	Unclassified

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)
F1.016	FEx CMH	107.530	106.338	106.335	0	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)
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F10.013	F70	120.652	119.061	0.000	1200	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)
------------------------	-----------------	-----------------	-----------------	------------------------	-------------	-----------

F16.016	F38	125.569	123.485	0.000	1200	0
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Simulation Criteria for Foul - Main

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m <sup>3</sup> /ha Storage	4.000
Hot Start (mins)	0	Inlet Coeffiecient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1

Number of Input Hydrographs	0	Number of Storage Structures	0
Number of Online Controls	0	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	5	Cv (Summer)	0.750
Region	Scotland and Ireland	Cv (Winter)	0.840
M5-60 (mm)	18.700	Storm Duration (mins)	15
Ratio R	0.264		