Network Details

Manhole Schedule

Manhole	Catchment Area (ha)	Diameter (m)	Type	CL (m)	IL (m)	Depth To Soffit (m)	Easting (m)	Northing (m)
RWP299A	0.000	0.180	Type E	5.700	5.150	0.450	488751.462	98028.186
RE299A	0.000	0.180	Type E	5.688	5.100	0.488	488752.244	98028.309
ACO299	0.000	0.180	Type E	5.672	5.120	0.452	488754.448	98024.381
RWP299B	0.000	0.180	Type E	5.698	5.150	0.448	488752.995	98023.332
PS211	0.000	0.250	250	5.690	5.025	0.565	488753.892	98023.070
RWP299C	0.000	0.180	Type E	5.714	5.150	0.464	488744.011	98020.499
PS212	0.000	0.450	450	5.751	4.900	0.751	488742.650	98019.561
ACO300	0.000	0.180	Type E	5.670	5.120	0.450	488751.876	98033.188
RWP300B	0.000	0.180	Type E	5.850	5.150	0.600	488749.638	98033.638
RE300A	0.000	0.180	Type E	5.851	5.100	0.651	488749.696	98034.202
PS209	0.000	0.450	450	5.781	4.950	0.731	488739.041	98030.820
RWP299D	0.000	0.180	Type E	5.800	5.150	0.550	488742.455	98025.260
PS210	0.011	0.450	Type E	5.801	4.790	0.861	488741.110	98024.148
S64	0.012	1.350	Type C	5.869	4.625	1.019	488732.938	98021.539
ACO297	0.000	0.180	Type E	5.895	5.345	0.450	488760.646	98008.092
RWP297A	0.000	0.180	Type E	5.924	5.375	0.449	488760.064	98005.228
RE297A	0.000	0.180	Type E	5.957	5.300	0.557	488760.650	98004.530
PS216	0.000	0.450	450	5.941	5.175	0.666	488750.707	97999.844
ACO298	0.000	0.180	Type E	5.897	5.345	0.452	488758.812	98012.027
RWP298A	0.000	0.180	Type E	5.924	5.375	0.449	488756.370	98013.143
RE298A	0.000	0.180	Type E	5.917	5.300	0.517	488756.330	98013.940
PS214	0.010	0.450	Type E	5.957	5.000	0.807	488746.147	98009.634
S123	0.024	1.350	Unknown	5.743	4.950	0.643	488756.040	98020.882
S65	0.019	1.350	Type C	6.026	4.475	1.326	488737.880	98004.807
DF297	0.009	1.350	Type E	5.950	5.200	0.600	488749.053	97998.228
S125	0.000	1.200	Type B	6.154	4.368	1.561	488744.700	97992.117
RWP303A	0.000	0.180	Type E	6.270	5.650	0.520	488790.854	98018.007
PS351	0.008	0.450	450	6.330	5.625	0.605	488792.345	98019.095
PS352	0.000	0.450	450	6.319	5.425	0.794	488799.993	98001.763
RE303A	0.009	0.180	Type E	6.201	5.650	0.451	488781.834	98013.686
PS354	0.000	0.450	450	6.401	5.250	1.001	488789.489	97997.055
RE306A	0.014	0.250	250	6.206	5.650	0.456	488810.852	97978.128
RWP306B	0.000	0.180	Type E	6.225	5.675	0.450	488797.614	97973.235
PS378	0.000	0.450	450	6.217	5.400	0.717	488797.076	97971.768
RE306B	0.000	0.180	Type E	6.268	5.650	0.518	488805.687	97989.276
DF306	0.007	0.180	Type E	6.167	5.500	0.517	488793.451	97969.834
RWP306A	0.000	0.180	Type E	6.245	5.675	0.470	488793.456	97981.595
PS39	0.000	0.450	450	6.293	5.100	1.043	488791.995	97982.704
S97	0.000	1.350	Type C	6.253	4.903	1.200	488789.022	97985.967
RE292A	0.000	0.180	Type E	6.137	5.550	0.487	488779.073	97963.387
DF293	0.007	0.180	Type E	6.172	5.500	0.522	488789.510	97968.099
PS387	0.000	0.450	450	6.157	5.370	0.637	488787.833	97967.472
PS35	0.000	0.450	450	6.258	5.200	0.908	488782.792	97978.370
RE291A	0.000	0.180	Type E	6.125	5.450	0.575	488773.935	97960.779
PS386	0.000	0.450	450	6.164	5.300	0.764	488768.943	97971.837
PS36	0.000	0.450	450	6.261	5.120	0.991	488778.080	97976.187
S121	0.012	1.350	Unknown	6.282	5.485	0.647	488772.626	97988.058
S67	0.054	1.350	Type C	6.188	4.800	1.238	488776.294	97979.830
S68	0.000	1.200	Type B	6.087	4.175	1.687	488757.060	97969.122
S66	0.025	1.200	Type B	5.951	4.105	1.621	488762.028	97957.017
RWP266A	0.000	0.180	Type E	6.099	5.550	0.449	488751.052	97911.069
RE266A	0.004	0.180	Type E	6.055	5.500	0.455	488751.169	97910.334
PS516	0.000	0.250	250	6.075	5.400	0.575	488746.283	97907.110
RE266B	0.000	0.180	Type E	6.129	5.575	0.454	488734.227	97908.172
ACO266A	0.000	0.180	Type E	6.120	5.570	0.450	488741.943	97912.803
PS850	0.000	0.450	450	6.139	5.300	0.739	488742.039	97913.428
GY267	0.000	0.180	Type E	6.061	5.450	0.461	488746.235	97917.834
RWP266B	0.000	0.180	Type E	6.150	5.600	0.450	488743.063	97913.441
PS523	0.000	0.180	Type E	6.150	5.600	0.450	488741.694	97914.732
PS521	0.000	0.450	450	6.139	5.100	0.889	488742.997	97915.552
RE266C	0.000	0.180	Type E	6.224	5.700	0.424	488726.780	97917.575
PS518	0.000	0.450	450	6.189	5.025	1.014	488737.417	97924.513
S56	0.084	1.350	Type C	6.100	4.675	1.200	488735.592	97929.033
S57	0.009	1.200	Type B	5.829	3.975	1.554	488764.438	97945.462

Manhole Schedule

Manhole	Catchment Area (ha)	Diameter (m)	Type	CL (m)	IL (m)	Depth To Soffit (m)	Easting (m)	Northing (m)
RE288B	0.000	0.180	Type E	5.686	5.150	0.436	488796.436	97934.814
PS481	0.000	0.450	450	5.712	4.900	0.712	488789.528	97947.714
RE288A	0.000	0.180	Type E	5.781	5.225	0.456	488785.541	97929.025
DF290	0.015	0.180	Type E	5.716	5.050	0.516	488780.886	97943.201
PS58	0.000	0.450	450	5.764	4.700	0.914	488778.310	97943.274
PS851	0.000	0.180	Type E	5.927	5.375	0.452	488761.508	97930.560
RE268A	0.000	0.180	Type E	5.936	5.300	0.486	488760.700	97930.938
RWP268G	0.000	0.180	Type E	5.925	5.375	0.450	488762.102	97935.560
PS494	0.000	0.450	450	5.956	5.100	0.706	488761.213	97936.154
PS495	0.000	0.450	450	5.891	4.900	0.841	488767.358	97939.494
RWP268B	0.000	0.180	Type E	5.920	5.375	0.445	488768.358	97918.338
RE268B	0.002	0.180	Type E	5.898	5.350	0.448	488769.492	97918.429
RWP268A	0.000	0.180	Type E	5.926	5.375	0.451	488762.814	97922.630
GY268A	0.000	0.180	Type E	5.920	5.325	0.445	488763.881	97925.746
RWP268D	0.000	0.180	Type E	5.922	5.375	0.447	488764.470	97925.431
PS852	0.000	0.250	250	5.925	5.175	0.600	488764.344	97924.199
PS492	0.000	0.450	450	5.842	4.900	0.792	488773.197	97929.347
PS496	0.000	0.450	450	5.866	4.800	0.916	488770.488	97934.099
S58	0.039	1.350	Type C	5.672	3.930	1.442	488773.656	97935.757
RE287A	0.000	0.180	Type E	5.551	5.000	0.451	488799.416	97929.431
RE285B	0.000	0.180	Type E	5.548	5.025	0.423	488809.615	97910.062
PS469	0.000	0.450	450	5.533	4.830	0.603	488804.748	97919.376
RE285A	0.000	0.180	Type E	5.577	5.000	0.477	488802.523	97905.599
PS62(D)	0.005	0.180	Type E	5.513	4.725	0.638	488796.782	97913.489
PS63	0.000	0.450	450	5.636	4.650	0.836	488793.724	97913.147
DF287	0.008	0.180	Type E	5.588	4.900	0.538	488791.913	97927.452
PS60	0.000	0.450	Type E	5.586	4.750	0.686	488789.237	97925.497
PS61	0.000	0.450	450	5.724	4.600	0.974	488789.626	97917.205
RE274A	0.000	0.180	Type E	5.468	4.925	0.443	488779.992	97895.218
PS585	0.000	0.450	450	5.482	4.750	0.632	488770.284	97908.801
RE271B	0.000	0.180	Type E	5.518	4.950	0.468	488790.166	97902.540
DF269	0.007	0.180	Type E	5.498	4.825	0.523	488776.318	97914.730
PS69	0.000	0.450	450	5.576	4.550	0.876	488780.167	97915.802
S59	0.155	1.350	Type C	5.486	3.850	1.336	488785.205	97914.231
GY285A	0.000	0.180	Type E	5.450	4.900	0.450	488814.018	97909.403
PS466	0.000	0.180	Type E	5.472	4.975	0.397	488811.660	97907.103
PS465	0.000	0.450	450	5.455	4.650	0.705	488812.288	97907.424
GY283A	0.000	0.180	Type E	5.373	4.750	0.473	488820.600	97900.165
ACO283	0.000	0.180	Type E	5.295	4.745	0.450	488819.496	97898.321
PS463	0.000	0.180	Type E	5.336	4.775	0.461	488817.989	97897.458
PS459	0.000	0.450	450	5.415	4.450	0.815	488817.596	97899.086
RE284A	0.000	0.180	Type E	5.499	5.025	0.374	488804.842	97902.934
PS460	0.000	0.450	450	5.489	4.350	0.989	488808.067	97892.990
RE272A	0.000	0.180	Type E	5.325	4.775	0.450	488784.278	97890.721
YG273	0.000	0.180	Type E	5.289	4.670	0.469	488791.499	97879.980
RWP273B	0.000	0.180	Type E	5.325	4.925	0.300	488791.001	97882.843
PS575	0.000	0.450	450	5.318	4.565	0.603	488790.884	97881.683
RE273A	0.000	0.180	Type E	5.444	4.875	0.469	488797.346	97893.508
PS576	0.000	0.450	450	5.381	4.450	0.781	488800.997	97888.816
S157	0.000	1.350	Type C	5.270	3.748	1.222	488803.535	97890.030
RWP278A	0.000	0.180	Type E	5.034	4.485	0.449	488817.041	97847.990
RE278	0.000	0.250	250	5.014	4.450	0.464	488816.119	97847.043
PS563	0.000	0.450	450	5.023	4.300	0.623	488809.337	97856.770
RWP278B	0.000	0.180	Type E	5.038	4.485	0.453	488824.681	97853.310
RE278B	0.000	0.180	Type E	5.082	4.450	0.532	488826.286	97854.159
DF277	0.011	0.180	Type E	5.050	4.350	0.550	488816.667	97863.512
PS70	0.000	0.450	Type E	5.127	4.100	0.877	488819.513	97863.776
DF282	0.008	0.180	Type E	5.162	4.500	0.512	488834.160	97879.360
PS65	0.000	0.450	Type E	5.262	4.250	0.862	488824.268	97872.004
S133	0.003	1.350	Type C	5.045	3.644	1.100	488822.165	97865.432
S60	0.007	1.350	Type C	4.958	3.604	1.054	488829.422	97855.862
RE279A	0.000	0.180	Type E	5.223	4.585	0.538	488855.553	97880.787
PS436	0.017	0.450	450	5.292	4.500	0.692	488860.094	97874.715
RE279B	0.000	0.180	Type E	5.086	4.500	0.486	488848.974	97876.906
GY281	0.000	0.180	Type E	5.158	4.600	0.458	488832.823	97866.548
PS439	0.000	0.450	450	5.212	4.300	0.812	488834.437	97865.665
PS437	0.000	0.450	450	5.153	4.200	0.853	488836.545	97857.043
S122	0.000	1.350	Type C	5.037	3.925	0.962	488860.828	97869.338

Manhole Schedule

Manhole	Catchment Area (ha)	Diameter (m)	Type	CL (m)	IL (m)	Depth To Soffit (m)	Easting (m)	Northing (m)
S95	0.035	1.350	Type C	4.954	3.840	0.964	488852.018	97861.360
S96	0.000	1.350	Type C	4.926	3.575	1.051	488837.649	97853.115
S94	0.055	0.000	Type C	4.600	3.450	0.850	488838.780	97844.581
S160	0.000	1.350	Type C	4.750	3.350	1.025	488827.047	97829.500
S159	0.000	0.000	Type C	4.600	3.325	0.900	488833.084	97833.664
S62	0.000	0.000	Type C	4.600	3.300	1.000	488840.305	97837.135
S100	0.000	1.350	Type C	4.600	3.250	1.125	488842.753	97833.452
S63	0.000	0.000	Type C	4.270	3.150	0.895	488845.251	97829.972

Pipe Schedule

Pipe Number	US Manhole	US IL (m)	DS Manhole	DS IL (m)	Shape	Dimension (m)	Length (m)	Gradient (1:x)	Roughness (mm)	US Depth To Soffit (m)
1.000	RWP299A	5.150	RE299A	5.100	Circ	0.1mØ	0.792	15.8	0.600	0.450
1.001	RE299A	5.100	PS211	5.025	Circ	0.1mØ	5.492	73.2	0.600	0.488
2.000	ACO299	5.120	PS211	5.025	Circ	0.1mØ	1.424	15.0	0.600	0.452
3.000	RWP299B	5.150	PS211	5.025	Circ	0.1mØ	0.934	7.5	0.600	0.448
1.002	PS211	5.025	PS212	4.900	Circ	0.1mØ	11.777	94.2	0.600	0.565
4.000	RWP299C	5.150	PS212	4.900	Circ	0.1mØ	1.653	6.6	0.600	0.464
1.003	PS212	4.900	PS210	4.840	Circ	0.1mØ	4.838	80.6	0.600	0.751
5.000	ACO300	5.120	RE300A	5.100	Circ	0.1mØ	2.405	120.2	0.600	0.450
6.000	RWP300B	5.150	RE300A	5.100	Circ	0.1mØ	0.566	11.3	0.600	0.600
5.001	RE300A	5.100	PS209	4.950	Circ	0.1mØ	11.178	74.5	0.600	0.651
5.002	PS209	4.950	PS210	4.840	Circ	0.1mØ	6.985	63.5	0.600	0.731
7.000	RWP299D	5.150	PS210	4.840	Circ	0.1mØ	1.745	5.6	0.600	0.550
1.004	PS210	4.790	S64	4.700	Circ	0.15mØ	8.578	95.3	0.600	0.861
1.005	S64	4.625	S65	4.475	Circ	0.225mØ	17.446	116.3	0.600	1.019
8.000	ACO297	5.345	RE297A	5.300	Circ	0.1mØ	3.562	79.2	0.600	0.450
9.000	RWP297A	5.375	RE297A	5.300	Circ	0.1mØ	0.911	12.1	0.600	0.449
8.001	RE297A	5.300	PS216	5.175	Circ	0.1mØ	10.992	87.9	0.600	0.557
8.002	PS216	5.175	PS214	5.050	Circ	0.1mØ	10.800	86.4	0.600	0.666
10.000	ACO298	5.345	RE298A	5.300	Circ	0.1mØ	3.133	69.6	0.600	0.452
11.000	RWP298A	5.375	RE298A	5.300	Circ	0.1mØ	0.798	10.6	0.600	0.449
10.001	RE298A	5.300	PS214	5.050	Circ	0.1mØ	11.056	44.2	0.600	0.517
8.003	PS214	5.000	S65	4.550	Circ	0.15mØ	9.574	21.3	0.600	0.807
12.000	S123	4.950	S65	4.550	Circ	0.15mØ	24.253	60.6	0.600	0.643
1.006	S65	4.475	S125	4.368	Circ	0.225mØ	14.407	135.0	0.600	1.326
13.000	DF297	5.200	S125	4.443	Circ	0.15mØ	7.503	9.9	0.600	0.600
1.007	S125	4.368	S68	4.175	Circ	0.225mØ	26.106	135.0	0.600	1.561
14.000	RWP303A	5.650	PS351	5.625	Circ	0.1mØ	1.846	73.8	0.600	0.520
14.001	PS351	5.625	PS352	5.425	Circ	0.1mØ	18.944	94.7	0.600	0.605
14.002	PS352	5.425	PS354	5.300	Circ	0.1mØ	11.511	92.1	0.600	0.794
15.000	RE303A	5.650	PS354	5.300	Circ	0.1mØ	18.308	52.3	0.600	0.451
14.003	PS354	5.250	S97	4.903	Circ	0.15mØ	11.098	32.0	0.600	1.001
16.000	RE306A	5.650	PS378	5.400	Circ	0.1mØ	15.173	60.7	0.600	0.456
17.000	RWP306B	5.675	PS378	5.400	Circ	0.1mØ	1.563	5.7	0.600	0.450
16.001	PS378	5.400	PS39	5.200	Circ	0.1mØ	12.059	60.3	0.600	0.717
18.000	RE306B	5.650	PS39	5.200	Circ	0.1mØ	15.188	33.8	0.600	0.518
19.000	DF306	5.500	PS39	5.150	Circ	0.15mØ	12.952	37.0	0.600	0.517
20.000	RWP306A	5.675	PS39	5.150	Circ	0.1mØ	1.835	3.5	0.600	0.470
16.002	PS39	5.100	S97	4.903	Circ	0.15mØ	4.414	22.4	0.600	1.043
14.004	S97	4.903	S67	4.800	Circ	0.15mØ	14.130	137.4	0.600	1.200
21.000	RE292A	5.550	PS387	5.420	Circ	0.1mØ	9.665	74.3	0.600	0.487
22.000	DF293	5.500	PS387	5.370	Circ	0.15mØ	1.790	13.8	0.600	0.522
21.001	PS387	5.370	PS35	5.200	Circ	0.15mØ	12.008	70.6	0.600	0.637
21.002	PS35	5.200	PS36	5.120	Circ	0.15mØ	5.193	64.9	0.600	0.908
23.000	RE291A	5.450	PS386	5.300	Circ	0.1mØ	12.133	80.9	0.600	0.575
23.001	PS386	5.300	PS36	5.170	Circ	0.1mØ	10.120	77.8	0.600	0.764
21.003	PS36	5.120	S67	4.800	Circ	0.15mØ	4.058	12.7	0.600	0.991
24.000	S121	5.485	S67	4.800	Circ	0.15mØ	9.008	13.2	0.600	0.647
14.005	S67	4.800	S68	4.250	Circ	0.15mØ	22.014	40.0	0.600	1.238
1.008	S68	4.175	S66	4.105	Circ	0.225mØ	13.085	186.9	0.600	1.687
1.009	S66	4.105	S57	4.050	Circ	0.225mØ	11.803	214.6	0.600	1.621
25.000	RWP266A	5.550	RE266A	5.500	Circ	0.1mØ	0.744	14.9	0.600	0.449
25.001	RE266A	5.500	PS516	5.400	Circ	0.1mØ	5.854	58.5	0.600	0.455
25.002	PS516	5.400	PS850	5.300	Circ	0.1mØ	7.610	76.1	0.600	0.575

Pipe Schedule

Pipe Number	US Manhole	US IL (m)	DS Manhole	DS IL (m)	Shape	Dimension (m)	Length (m)	Gradient (1:x)	Roughness (mm)	US Depth To Soffit (m)
26.000	RE266B	5.575	PS850	5.300	Circ	0.1mØ	9.416	34.2	0.600	0.454
27.000	ACO266A	5.570	PS850	5.300	Circ	0.1mØ	0.632	2.3	0.600	0.450
25.003	PS850	5.300	PS521	5.150	Circ	0.1mØ	2.330	15.5	0.600	0.739
28.000	GY267	5.450	PS521	5.100	Circ	0.15mØ	3.961	11.3	0.600	0.461
29.000	RWP266B	5.600	PS521	5.150	Circ	0.1mØ	2.112	4.7	0.600	0.450
30.000	PS523	5.600	PS521	5.150	Circ	0.1mØ	1.540	3.4	0.600	0.450
25.004	PS521	5.100	PS518	5.025	Circ	0.15mØ	10.556	140.7	0.600	0.889
31.000	RE266C	5.700	PS518	5.075	Circ	0.1mØ	12.700	20.3	0.600	0.424
25.005	PS518	5.025	S56	4.750	Circ	0.15mØ	4.875	17.7	0.600	1.014
25.006	S56	4.675	S57	4.050	Circ	0.225mØ	33.196	53.1	0.600	1.200
1.010	S57	3.975	S58	3.930	Circ	0.3mØ	13.385	297.5	0.600	1.554
32.000	RE288B	5.150	PS481	4.900	Circ	0.1mØ	14.633	58.5	0.600	0.436
32.001	PS481	4.900	PS58	4.750	Circ	0.1mØ	12.065	80.4	0.600	0.712
33.000	RE288A	5.225	PS58	4.750	Circ	0.1mØ	15.978	33.6	0.600	0.456
34.000	DF290	5.050	PS58	4.700	Circ	0.15mØ	2.577	7.4	0.600	0.516
32.002	PS58	4.700	S58	4.080	Circ	0.15mØ	8.841	14.3	0.600	0.914
35.000	PS851	5.375	RE268A	5.350	Circ	0.1mØ	0.892	35.7	0.600	0.452
35.001	RE268A	5.300	PS494	5.100	Circ	0.15mØ	5.242	26.2	0.600	0.486
36.000	RWP268G	5.375	PS494	5.150	Circ	0.1mØ	1.069	4.8	0.600	0.450
35.002	PS494	5.100	PS495	4.900	Circ	0.15mØ	6.994	35.0	0.600	0.706
35.003	PS495	4.900	PS496	4.800	Circ	0.15mØ	6.237	62.4	0.600	0.841
37.000	RWP268B	5.375	RE268B	5.350	Circ	0.1mØ	1.138	45.5	0.600	0.445
37.001	RE268B	5.350	PS492	4.950	Circ	0.1mØ	11.529	28.8	0.600	0.448
38.000	RWP268A	5.375	PS852	5.225	Circ	0.1mØ	2.191	14.6	0.600	0.451
39.000	GY268A	5.325	PS852	5.175	Circ	0.15mØ	1.615	10.8	0.600	0.445
40.000	RWP268D	5.375	PS852	5.225	Circ	0.1mØ	1.239	8.3	0.600	0.447
38.001	PS852	5.175	PS492	4.900	Circ	0.15mØ	10.241	37.2	0.600	0.600
37.002	PS492	4.900	PS496	4.800	Circ	0.15mØ	5.471	54.7	0.600	0.792
35.004	PS496	4.800	S58	4.730	Circ	0.15mØ	3.576	51.1	0.600	0.916
1.011	S58	3.930	S59	3.850	Circ	0.3mØ	24.429	305.4	0.600	1.442
41.000	RE287A	5.000	PS469	4.830	Circ	0.1mØ	11.382	67.0	0.600	0.451
42.000	RE285B	5.025	PS469	4.830	Circ	0.1mØ	10.509	53.9	0.600	0.423
41.001	PS469	4.830	PS63	4.700	Circ	0.1mØ	12.662	97.4	0.600	0.603
43.000	RE285A	5.000	PS63	4.700	Circ	0.1mØ	11.593	38.6	0.600	0.477
44.000	PS62(D)	4.725	PS63	4.650	Circ	0.15mØ	3.077	41.0	0.600	0.638
41.002	PS63	4.650	PS61	4.600	Circ	0.15mØ	5.767	115.3	0.600	0.836
45.000	DF287	4.900	PS60	4.750	Circ	0.15mØ	3.315	22.1	0.600	0.538
45.001	PS60	4.750	PS61	4.600	Circ	0.15mØ	8.301	55.3	0.600	0.686
41.003	PS61	4.600	S59	4.500	Circ	0.15mØ	5.328	53.3	0.600	0.974
46.000	RE274A	4.925	PS585	4.750	Circ	0.1mØ	16.696	95.4	0.600	0.443
46.001	PS585	4.750	PS69	4.600	Circ	0.1mØ	12.111	80.7	0.600	0.632
47.000	RE271B	4.950	PS69	4.600	Circ	0.1mØ	16.609	47.5	0.600	0.468
48.000	DF269	4.825	PS69	4.550	Circ	0.15mØ	3.995	14.5	0.600	0.523
46.002	PS69	4.550	S59	4.000	Circ	0.15mØ	5.277	9.6	0.600	0.876
1.012	S59	3.850	S157	3.748	Circ	0.3mØ	30.358	297.7	0.600	1.336
49.000	GY285A	4.900	PS465	4.650	Circ	0.1mØ	2.629	10.5	0.600	0.450
50.000	PS466	4.975	PS465	4.650	Circ	0.1mØ	0.705	2.2	0.600	0.397
49.001	PS465	4.650	PS459	4.500	Circ	0.1mØ	9.884	65.9	0.600	0.705
51.000	GY283A	4.750	PS459	4.450	Circ	0.15mØ	3.191	10.6	0.600	0.473
52.000	ACO283	4.745	PS459	4.500	Circ	0.1mØ	2.048	8.4	0.600	0.450
53.000	PS463	4.775	PS459	4.500	Circ	0.1mØ	1.675	6.1	0.600	0.461
49.002	PS459	4.450	PS460	4.350	Circ	0.15mØ	11.313	113.1	0.600	0.815
54.000	RE284A	5.025	PS460	4.900	Circ	0.1mØ	10.454	83.6	0.600	0.374
49.003	PS460	4.350	S157	3.898	Circ	0.15mØ	5.413	12.0	0.600	0.989
55.000	RE272A	4.775	PS575	4.615	Circ	0.1mØ	11.195	70.0	0.600	0.450
56.000	YG273	4.670	PS575	4.565	Circ	0.15mØ	1.811	17.2	0.600	0.469
57.000	RWP273B	4.925	PS575	4.615	Circ	0.1mØ	1.166	3.8	0.600	0.300
55.001	PS575	4.565	PS576	4.450	Circ	0.15mØ	12.375	107.6	0.600	0.603
58.000	RE273A	4.875	PS576	4.500	Circ	0.1mØ	5.945	15.9	0.600	0.469
55.002	PS576	4.450	S157	3.898	Circ	0.15mØ	2.813	5.1	0.600	0.781
1.013	S157	3.748	S133	3.644	Circ	0.3mØ	30.857	297.7	0.600	1.222
59.000	RWP278A	4.485	RE278	4.450	Circ	0.1mØ	1.322	37.8	0.600	0.449
59.001	RE278	4.450	PS563	4.300	Circ	0.1mØ	11.858	79.1	0.600	0.464
59.002	PS563	4.300	PS70	4.150	Circ	0.1mØ	12.355	82.4	0.600	0.623
60.000	RWP278B	4.485	RE278B	4.450	Circ	0.1mØ	1.816	51.9	0.600	0.453
60.001	RE278B	4.450	PS70	4.150	Circ	0.1mØ	11.762	39.2	0.600	0.532
61.000	DF277	4.350	PS70	4.100	Circ	0.15mØ	2.859	11.4	0.600	0.550
59.003	PS70	4.100	S133	3.794	Circ	0.15mØ	3.126	10.2	0.600	0.877

Pipe Schedule

Pipe Number	US Manhole	US IL (m)	DS Manhole	DS IL (m)	Shape	Dimension (m)	Length (m)	Gradient (1:x)	Roughness (mm)	US Depth To Soffit (m)
62.000	DF282	4.500	PS65	4.250	Circ	0.15mØ	12.327	49.3	0.600	0.512
62.001	PS65	4.250	S133	3.794	Circ	0.15mØ	6.901	15.1	0.600	0.862
1.014	S133	3.644	S60	3.604	Circ	0.3mØ	12.010	297.3	0.600	1.100
1.015	S60	3.604	S96	3.575	Circ	0.3mØ	8.674	299.1	0.600	1.054
63.000	RE279A	4.585	PS436	4.500	Circ	0.1mØ	7.582	89.2	0.600	0.538
63.001	PS436	4.500	PS437	4.200	Circ	0.1mØ	29.442	98.1	0.600	0.692
64.000	RE279B	4.500	PS439	4.300	Circ	0.1mØ	18.376	91.9	0.600	0.486
65.000	GY281	4.600	PS439	4.300	Circ	0.1mØ	1.840	6.1	0.600	0.458
64.001	PS439	4.300	PS437	4.200	Circ	0.1mØ	8.876	88.8	0.600	0.812
63.002	PS437	4.200	S96	3.775	Circ	0.1mØ	4.080	9.6	0.600	0.853
66.000	S122	3.925	S95	3.840	Circ	0.15mØ	11.886	139.8	0.600	0.962
66.001	S95	3.840	S96	3.725	Circ	0.15mØ	16.567	144.1	0.600	0.964
1.016	S96	3.575	S94	3.450	Circ	0.3mØ	8.608	68.9	0.600	1.051
1.017	S94	3.450	S62	3.300	Circ	0.3mØ	7.601	50.7	0.600	0.850
67.000	S160	3.350	S159	3.325	Circ	0.375mØ	7.334	293.3	0.600	1.025
67.001	S159	3.325	S62	3.300	Circ	0.375mØ	8.012	320.5	0.600	0.900
1.018	S62	3.300	S100	3.250	Circ	0.3mØ	4.422	88.4	0.600	1.000
1.019	S100	3.250	S63	3.150	Circ	0.225mØ	4.283	42.8	0.600	1.125

Outfall Details

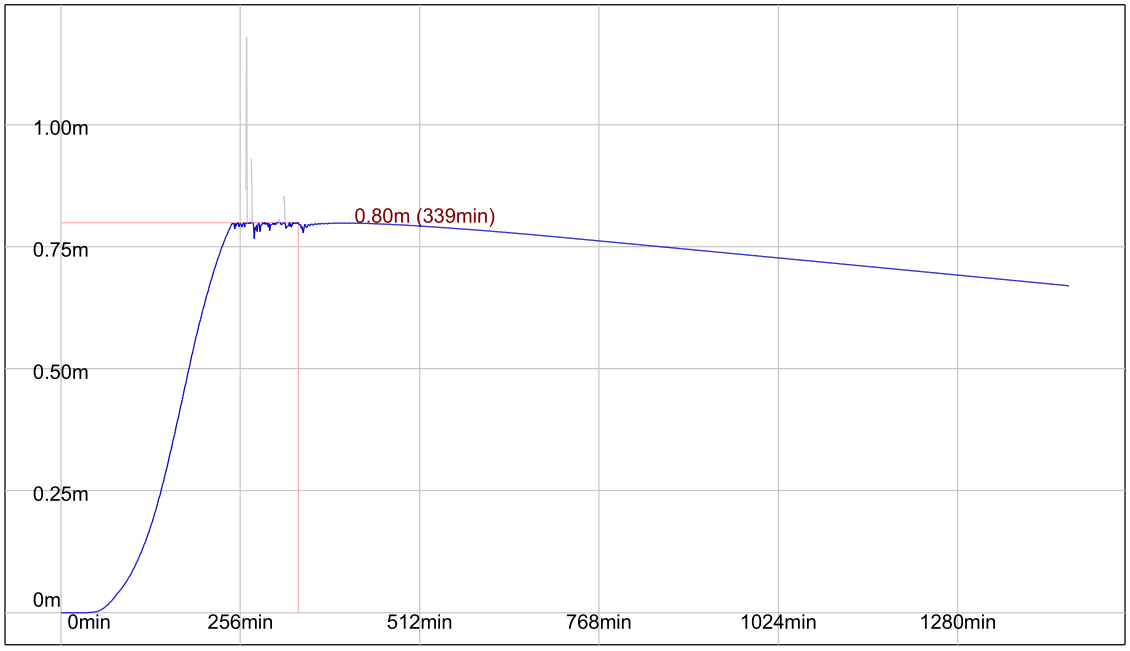
Outfall Manhole S63 : Free Discharge

Flow Control Details

Tank Structure at Manhole S160

Tank Invert (m)	Tank Height (m)	Void Ratio (%)	Area (m2)	Effective Area (m2) Area x Void Ratio	Max Storage (m3) Effective Area x Height	Infil Base (m/hr)	Infil Side (m/hr)	Safety Factor
3.350	0.800	95.00	269.074	255.620	204.496	0.00000000	0.00000000	2.00

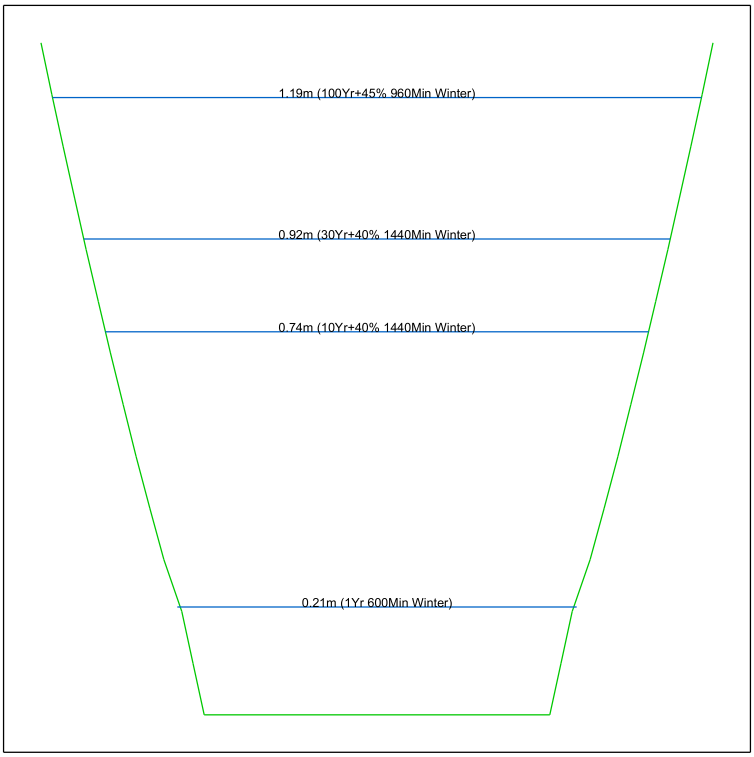
Tank at S160 (100Yr+45% 360Min Winter)



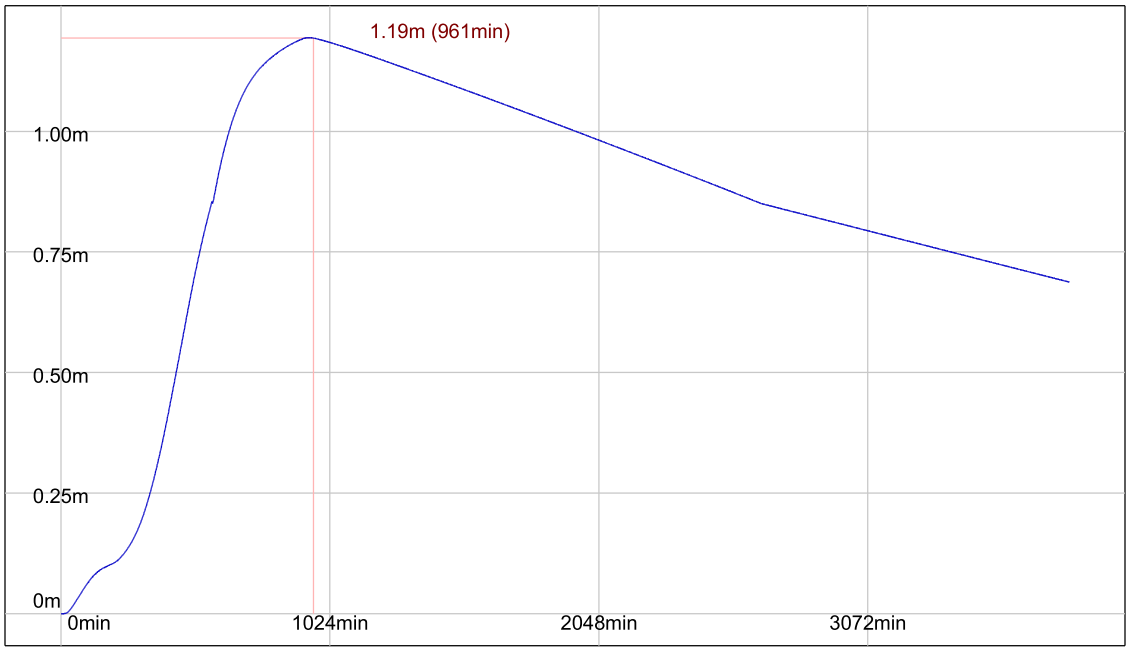
Pond Structure at Manhole S62

Pond Invert (m)	Max Depth (m)	Volume To Water Level (m3)	Water Level (m)	Freeboard (m)	Infil Base (m/hr)	Infil Side (m/hr)	Safety Factor
3.300	1.300	361.239	4.450	0.150	0.00000000	0.00000000	2.00

Pond Depth/Area Diagram at S62



Pond at S62 (100Yr+45% 960Min Winter)

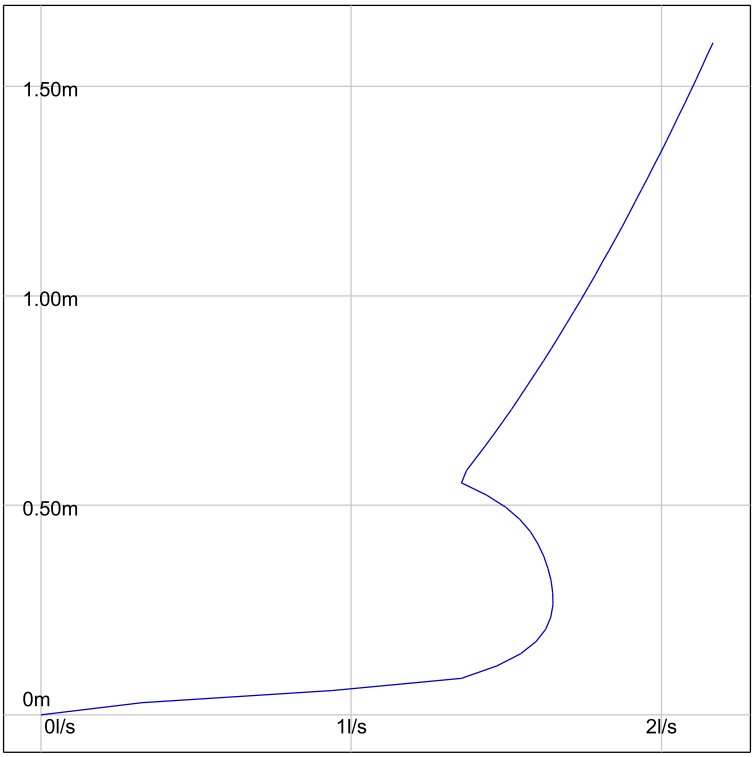


Controls within Manhole S100

Hydro-Brake® Optimum Control at Manhole S100

Model Ref	Design Depth (m)	Design Flow (l/s)	Depth Above Invert (m)	FF Head (m)	FF Flow (l/s)	KF Head (m)	KF Flow (l/s)
SHE-0063-2000-1350-2000	1.350	2.000	0.000	0.274	1.651	0.557	1.344

Hydro-Brake® Optimum Control at S100



Simulation Settings

FEH2022 (point): Filename=FEH_Point_Descriptors_488693_97897_v5_0_1.xml

Summer (Cv: 1.00), Winter (Cv: 1.00)

Global Time of Entry: 5.0 mins

Durations (mins): 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

Return Periods (yrs) + Climate Change: (1, +0%), (10, +40%), (30, +40%), (100, +45%)

Simulated Rainfall Events

Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %	Storm	Average Intensity (mm/hr)	Runoff Continuity %	Flow Continuity %
1Yr 15Min Winter	16.942	0.00	0.00	30Yr+40% 15Min Summer	112.863	-0.36	-0.07
1Yr 15Min Summer	16.942	0.00	0.00	30Yr+40% 15Min Winter	112.863	-0.43	-0.16
1Yr 30Min Winter	10.755	0.00	0.00	30Yr+40% 30Min Summer	74.071	-0.22	0.07
1Yr 30Min Summer	10.755	0.00	0.00	30Yr+40% 30Min Winter	74.071	-0.23	0.09
1Yr 60Min Winter	6.786	0.00	0.06	30Yr+40% 60Min Summer	46.547	0.00	0.19
1Yr 60Min Summer	6.786	0.00	0.07	30Yr+40% 60Min Winter	46.547	-0.05	0.24
1Yr 120Min Summer	5.246	0.00	0.05	30Yr+40% 120Min Summer	27.731	0.00	0.31
1Yr 120Min Winter	5.246	0.00	0.04	30Yr+40% 120Min Winter	27.731	0.00	0.37
1Yr 180Min Summer	4.383	0.00	0.04	30Yr+40% 180Min Summer	20.307	0.00	0.36
1Yr 180Min Winter	4.383	0.00	0.04	30Yr+40% 180Min Winter	20.307	0.00	0.40
1Yr 240Min Summer	3.631	0.00	0.04	30Yr+40% 240Min Summer	16.265	0.00	0.36
1Yr 240Min Winter	3.631	0.00	0.04	30Yr+40% 240Min Winter	16.265	0.00	0.39
1Yr 360Min Summer	2.818	0.00	0.03	30Yr+40% 360Min Summer	11.803	0.00	0.30
1Yr 360Min Winter	2.818	0.00	0.03	30Yr+40% 360Min Winter	11.803	0.00	0.34
1Yr 480Min Summer	2.343	0.00	0.03	30Yr+40% 480Min Summer	9.367	0.00	0.24
1Yr 480Min Winter	2.343	0.00	0.03	30Yr+40% 480Min Winter	9.367	0.00	0.27
1Yr 600Min Summer	2.004	0.00	0.02	30Yr+40% 600Min Summer	7.810	0.00	0.18
1Yr 600Min Winter	2.004	0.00	0.02	30Yr+40% 600Min Winter	7.810	0.00	1.74
1Yr 720Min Winter	1.752	0.00	0.02	30Yr+40% 720Min Summer	6.721	0.00	0.13
1Yr 720Min Summer	1.752	0.00	0.02	30Yr+40% 720Min Winter	6.721	0.00	2.95
1Yr 960Min Summer	1.420	0.00	0.02	30Yr+40% 960Min Summer	5.302	0.00	0.89
1Yr 960Min Winter	1.420	0.00	0.02	30Yr+40% 960Min Winter	5.302	0.00	4.11
1Yr 1440Min Summer	1.059	0.00	0.02	30Yr+40% 1440Min Summer	3.817	0.00	1.22
1Yr 1440Min Winter	1.059	0.00	0.02	30Yr+40% 1440Min Winter	3.817	0.00	-0.01
10Yr+40% 15Min Summer	87.036	-0.21	-0.09	100Yr+45% 15Min Summer	146.276	-0.49	0.00
10Yr+40% 15Min Winter	87.036	-0.28	-0.12	100Yr+45% 15Min Winter	146.276	-0.55	0.09
10Yr+40% 30Min Summer	56.678	-0.16	-0.14	100Yr+45% 30Min Summer	96.982	-0.32	0.24
10Yr+40% 30Min Winter	56.678	-0.16	-0.10	100Yr+45% 30Min Winter	96.982	-0.34	0.27
10Yr+40% 60Min Summer	35.401	0.00	-0.03	100Yr+45% 60Min Summer	61.530	-0.07	0.43
10Yr+40% 60Min Winter	35.401	0.00	0.10	100Yr+45% 60Min Winter	61.530	-0.07	0.48
10Yr+40% 120Min Winter	21.745	0.00	0.21	100Yr+45% 120Min Summer	35.946	0.00	0.57
10Yr+40% 120Min Summer	21.745	0.00	0.18	100Yr+45% 120Min Winter	35.946	0.00	0.63
10Yr+40% 180Min Summer	16.178	0.00	0.20	100Yr+45% 180Min Summer	26.053	0.00	3.35
10Yr+40% 180Min Winter	16.178	0.00	0.22	100Yr+45% 180Min Winter	26.053	0.00	6.00
10Yr+40% 240Min Summer	13.001	0.00	0.19	100Yr+45% 240Min Summer	20.923	0.00	8.16
10Yr+40% 240Min Winter	13.001	0.00	0.21	100Yr+45% 240Min Winter	20.923	0.00	10.65
10Yr+40% 360Min Summer	9.488	0.00	0.16	100Yr+45% 360Min Summer	15.176	0.00	13.45
10Yr+40% 360Min Winter	9.488	0.00	0.16	100Yr+45% 360Min Winter	15.176	0.00	15.80
10Yr+40% 480Min Summer	7.563	0.00	0.11	100Yr+45% 480Min Summer	12.028	0.00	16.21
10Yr+40% 480Min Winter	7.563	0.00	0.10	100Yr+45% 480Min Winter	12.028	0.00	1.41
10Yr+40% 600Min Winter	6.323	0.00	0.04	100Yr+45% 600Min Summer	10.033	0.00	17.68
10Yr+40% 600Min Summer	6.323	0.00	0.06	100Yr+45% 600Min Winter	10.033	0.00	20.13
10Yr+40% 720Min Summer	5.451	0.00	0.01	100Yr+45% 720Min Summer	8.641	0.00	1.25
10Yr+40% 720Min Winter	5.451	0.00	-0.02	100Yr+45% 720Min Winter	8.641	0.00	6.45
10Yr+40% 960Min Summer	4.313	0.00	-0.04	100Yr+45% 960Min Summer	6.827	0.00	19.61
10Yr+40% 960Min Winter	4.313	0.00	-0.15	100Yr+45% 960Min Winter	6.827	0.00	1.06
10Yr+40% 1440Min Summer	3.111	0.00	-0.09	100Yr+45% 1440Min Winter	4.922	0.00	18.43
10Yr+40% 1440Min Winter	3.111	0.00	-0.22	100Yr+45% 1440Min Summer	4.922	0.00	19.92

Simulation Results

Return Period Yrs: 1.0

Climate Change %: 0

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
RWP299A	-	0	5.150	0.000	0.000		OK
RE299A	-	0	5.100	0.000	0.000		OK
ACO299	-	0	5.120	0.000	0.000		OK
RWP299B	-	0	5.150	0.000	0.000		OK
PS211	-	0	5.025	0.000	0.000		OK
RWP299C	-	0	5.150	0.000	0.000		OK
PS212	-	0	4.900	0.000	0.000		OK
ACO300	-	0	5.120	0.000	0.000		OK
RWP300B	-	0	5.150	0.000	0.000		OK
RE300A	-	0	5.100	0.000	0.000		OK
PS209	-	0	4.950	0.000	0.000		OK
RWP299D	-	0	5.150	0.000	0.000		OK
PS210	15 min Winter	8	4.814	0.024	1.010		OK
S64	15 min Winter	8	4.656	0.031	2.030		OK
ACO297	-	0	5.345	0.000	0.000		OK
RWP297A	-	0	5.375	0.000	0.000		OK
RE297A	-	0	5.300	0.000	0.000		OK
PS216	-	0	5.175	0.000	0.000		OK
ACO298	-	0	5.345	0.000	0.000		OK
RWP298A	-	0	5.375	0.000	0.000		OK
RE298A	-	0	5.300	0.000	0.000		OK
PS214	15 min Winter	8	5.015	0.015	0.859		OK
S123	720 min Winter	495	4.959	0.009	0.159		OK
S65	15 min Winter	9	4.522	0.047	4.366		OK
DF297	600 min Winter	394	5.204	0.004	0.071		OK
S125	15 min Winter	9	4.416	0.047	4.443		OK
RWP303A	-	0	5.650	0.000	0.000		OK
PS351	15 min Winter	8	5.648	0.023	0.754		OK
PS352	15 min Winter	9	5.448	0.023	0.723		OK
RE303A	15 min Winter	8	5.671	0.021	0.851		OK
PS354	15 min Winter	9	5.273	0.023	1.551		OK
RE306A	15 min Winter	8	5.677	0.027	1.272		OK
RWP306B	-	0	5.675	0.000	0.000		OK
PS378	15 min Winter	9	5.427	0.027	1.212		OK
RE306B	-	0	5.650	0.000	0.000		OK
DF306	600 min Winter	391	5.505	0.005	0.059		OK
RWP306A	-	0	5.675	0.000	0.000		OK
PS39	15 min Winter	9	5.119	0.019	1.236		OK
S97	15 min Winter	9	4.946	0.043	2.801		OK
RE292A	-	0	5.550	0.000	0.000		OK
DF293	600 min Winter	391	5.504	0.004	0.058		OK
PS387	600 min Winter	392	5.376	0.006	0.058		OK
PS35	600 min Winter	392	5.206	0.006	0.058		OK
RE291A	-	0	5.450	0.000	0.000		OK
PS386	-	0	5.300	0.000	0.000		OK
PS36	600 min Winter	393	5.124	0.004	0.058		OK
S121	600 min Winter	400	5.490	0.005	0.093		OK
S67	15 min Winter	9	4.852	0.052	7.380		OK
S68	15 min Winter	9	4.261	0.086	11.854		OK
S66	15 min Winter	9	4.201	0.096	13.885		OK
RWP266A	-	0	5.550	0.000	0.000		OK
RE266A	15 min Winter	8	5.514	0.014	0.330		OK
PS516	15 min Winter	9	5.415	0.015	0.318		OK
RE266B	-	0	5.575	0.000	0.000		OK
ACO266A	-	0	5.570	0.000	0.000		OK
PS850	15 min Winter	9	5.310	0.010	0.321		OK
GY267	-	0	5.450	0.000	0.000		OK
RWP266B	-	0	5.600	0.000	0.000		OK
PS523	-	0	5.600	0.000	0.000		OK

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
PS521	15 min Winter	10	5.116	0.016	0.307		OK
RE266C	-	0	5.700	0.000	0.000		OK
PS518	15 min Winter	10	5.034	0.009	0.315		OK
S56	15 min Winter	9	4.724	0.049	7.369		OK
S57	15 min Winter	9	4.096	0.121	21.909		OK
RE288B	-	0	5.150	0.000	0.000		OK
PS481	-	0	4.900	0.000	0.000		OK
RE288A	-	0	5.225	0.000	0.000		OK
DF290	600 min Winter	408	5.055	0.005	0.114		OK
PS58	600 min Winter	408	4.705	0.005	0.114		OK
PS851	-	0	5.375	0.000	0.000		OK
RE268A	-	0	5.300	0.000	0.000		OK
RWP268G	-	0	5.375	0.000	0.000		OK
PS494	-	0	5.100	0.000	0.000		OK
PS495	-	0	4.900	0.000	0.000		OK
RWP268B	-	0	5.375	0.000	0.000		OK
RE268B	15 min Winter	8	5.359	0.009	0.184		OK
RWP268A	-	0	5.375	0.000	0.000		OK
GY268A	-	0	5.325	0.000	0.000		OK
RWP268D	-	0	5.375	0.000	0.000		OK
PS852	-	0	5.175	0.000	0.000		OK
PS492	15 min Winter	9	4.909	0.009	0.177		OK
PS496	15 min Winter	9	4.809	0.009	0.179		OK
S58	15 min Winter	9	4.060	0.130	25.277		OK
RE287A	-	0	5.000	0.000	0.000		OK
RE285B	-	0	5.025	0.000	0.000		OK
PS469	-	0	4.830	0.000	0.000		OK
RE285A	-	0	5.000	0.000	0.000		OK
PS62(D)	600 min Winter	387	4.729	0.004	0.041		OK
PS63	600 min Winter	388	4.655	0.005	0.041		OK
DF287	600 min Winter	394	4.905	0.005	0.070		OK
PS60	600 min Winter	394	4.756	0.006	0.070		OK
PS61	600 min Winter	393	4.607	0.007	0.111		OK
RE274A	-	0	4.925	0.000	0.000		OK
PS585	-	0	4.750	0.000	0.000		OK
RE271B	-	0	4.950	0.000	0.000		OK
DF269	600 min Winter	392	4.829	0.004	0.062		OK
PS69	600 min Winter	392	4.554	0.004	0.062		OK
S59	15 min Winter	9	4.012	0.162	37.897		OK
GY285A	-	0	4.900	0.000	0.000		OK
PS466	-	0	4.975	0.000	0.000		OK
PS465	-	0	4.650	0.000	0.000		OK
GY283A	-	0	4.750	0.000	0.000		OK
ACO283	-	0	4.745	0.000	0.000		OK
PS463	-	0	4.775	0.000	0.000		OK
PS459	-	0	4.450	0.000	0.000		OK
RE284A	-	0	5.025	0.000	0.000		OK
PS460	-	0	4.350	0.000	0.000		OK
RE272A	-	0	4.775	0.000	0.000		OK
YG273	-	0	4.670	0.000	0.000		OK
RWP273B	-	0	4.925	0.000	0.000		OK
PS575	-	0	4.565	0.000	0.000		OK
RE273A	-	0	4.875	0.000	0.000		OK
PS576	-	0	4.450	0.000	0.000		OK
S157	15 min Winter	10	3.909	0.161	36.748		OK
RWP278A	-	0	4.485	0.000	0.000		OK
RE278	-	0	4.450	0.000	0.000		OK
PS563	-	0	4.300	0.000	0.000		OK
RWP278B	-	0	4.485	0.000	0.000		OK
RE278B	-	0	4.450	0.000	0.000		OK
DF277	600 min Winter	400	4.355	0.005	0.092		OK
PS70	600 min Winter	401	4.105	0.005	0.092		OK
DF282	600 min Winter	393	4.506	0.006	0.067		OK
PS65	600 min Winter	394	4.254	0.004	0.067		OK
S133	15 min Winter	10	3.804	0.159	37.593		OK
S60	15 min Winter	10	3.759	0.155	37.945		OK
RE279A	-	0	4.585	0.000	0.000		OK
PS436	15 min Winter	8	4.537	0.037	1.520		OK

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
RE279B	-	0	4.500	0.000	0.000		OK
GY281	-	0	4.600	0.000	0.000		OK
PS439	-	0	4.300	0.000	0.000		OK
PS437	15 min Winter	9	4.219	0.019	1.464		OK
S122	-	0	3.925	0.000	0.000		OK
S95	15 min Winter	9	3.886	0.046	2.942		OK
S96	15 min Winter	10	3.688	0.113	40.362		OK
S94	15 min Winter	10	3.562	0.112	45.466		OK
S160	600 min Winter	526	3.509	0.159	0.000		OK
S159	600 min Winter	524	3.509	0.184	0.144		OK
S62	600 min Winter	527	3.509	0.209	0.482		OK
S100	600 min Winter	516	3.513	0.263	1.314		Surcharged
S63	600 min Winter	525	3.172	0.022	1.645		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	15 min Winter	0	RWP299A	RE299A	0.000	0.000	0.000	0.000	OK
1.001	15 min Winter	0	RE299A	PS211	0.000	0.000	0.000	0.000	OK
2.000	15 min Winter	0	ACO299	PS211	0.000	0.000	0.000	0.000	OK
3.000	15 min Winter	0	RWP299B	PS211	0.000	0.000	0.000	0.000	OK
1.002	15 min Winter	0	PS211	PS212	0.000	0.000	0.000	0.000	OK
4.000	15 min Winter	0	RWP299C	PS212	0.000	0.000	0.000	0.000	OK
1.003	15 min Winter	0	PS212	PS210	0.000	0.000	0.000	0.000	OK
5.000	15 min Winter	0	ACO300	RE300A	0.000	0.000	0.000	0.000	OK
6.000	15 min Winter	0	RWP300B	RE300A	0.000	0.000	0.000	0.000	OK
5.001	15 min Winter	0	RE300A	PS209	0.000	0.000	0.000	0.000	OK
5.002	15 min Winter	0	PS209	PS210	0.000	0.000	0.000	0.000	OK
7.000	15 min Winter	0	RWP299D	PS210	0.000	0.000	0.000	0.000	OK
1.004	15 min Winter	8	PS210	S64	0.024	0.555	0.995	0.055	OK
1.005	15 min Winter	9	S64	S65	0.039	0.427	1.974	0.041	OK
8.000	15 min Winter	0	ACO297	RE297A	0.000	0.000	0.000	0.000	OK
9.000	15 min Winter	0	RWP297A	RE297A	0.000	0.000	0.000	0.000	OK
8.001	15 min Winter	0	RE297A	PS216	0.000	0.000	0.000	0.000	OK
8.002	15 min Winter	0	PS216	PS214	0.000	0.000	0.000	0.000	OK
10.000	15 min Winter	0	ACO298	RE298A	0.000	0.000	0.000	0.000	OK
11.000	15 min Winter	0	RWP298A	RE298A	0.000	0.000	0.000	0.000	OK
10.001	15 min Winter	0	RE298A	PS214	0.000	0.000	0.000	0.000	OK
8.003	15 min Winter	8	PS214	S65	0.015	0.898	0.850	0.022	OK
12.000	720 min Winter	495	S123	S65	0.009	0.374	0.159	0.007	OK
1.006	15 min Winter	9	S65	S125	0.047	0.736	4.443	0.100	OK
13.000	600 min Winter	394	DF297	S125	0.004	0.548	0.071	0.001	OK
1.007	15 min Winter	9	S125	S68	0.067	0.448	4.436	0.099	OK
14.000	15 min Winter	8	RWP303A	PS351	0.012	0.000	0.000	0.000	OK
14.001	15 min Winter	8	PS351	PS352	0.023	0.544	0.741	0.120	OK
14.002	15 min Winter	9	PS352	PS354	0.023	0.540	0.735	0.117	OK
15.000	15 min Winter	8	RE303A	PS354	0.021	0.683	0.832	0.099	OK
14.003	15 min Winter	9	PS354	S97	0.033	0.647	1.558	0.049	OK
16.000	15 min Winter	8	RE306A	PS378	0.027	0.735	1.256	0.162	OK
17.000	15 min Winter	9	RWP306B	PS378	0.013	0.000	0.000	0.000	OK
16.001	15 min Winter	9	PS378	PS39	0.027	0.729	1.236	0.159	OK
18.000	15 min Winter	0	RE306B	PS39	0.000	0.000	0.000	0.000	OK
19.000	600 min Winter	391	DF306	PS39	0.005	0.328	0.059	0.002	OK
20.000	15 min Winter	0	RWP306A	PS39	0.000	0.000	0.000	0.000	OK
16.002	15 min Winter	9	PS39	S97	0.031	0.567	1.243	0.033	OK
14.004	15 min Winter	9	S97	S67	0.048	0.578	2.778	0.184	OK
21.000	15 min Winter	0	RE292A	PS387	0.000	0.000	0.000	0.000	OK
22.000	600 min Winter	391	DF293	PS387	0.005	0.338	0.058	0.001	OK
21.001	600 min Winter	392	PS387	PS35	0.006	0.254	0.058	0.003	OK
21.002	600 min Winter	393	PS35	PS36	0.005	0.329	0.058	0.003	OK
23.000	15 min Winter	0	RE291A	PS386	0.000	0.000	0.000	0.000	OK
23.001	15 min Winter	0	PS386	PS36	0.000	0.000	0.000	0.000	OK
21.003	15 min Winter	9	PS36	S67	0.026	0.000	0.000	0.000	OK
24.000	15 min Winter	9	S121	S67	0.026	0.013	0.002	0.000	OK
14.005	15 min Winter	9	S67	S68	0.052	1.352	7.417	0.263	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.008	15 min Winter	9	S68	S66	0.091	0.776	11.752	0.311	OK
1.009	15 min Winter	9	S66	S57	0.096	0.847	13.666	0.387	OK
25.000	15 min Winter	8	RWP266A	RE266A	0.007	0.000	0.000	0.000	OK
25.001	15 min Winter	9	RE266A	PS516	0.015	0.459	0.321	0.041	OK
25.002	15 min Winter	9	PS516	PS850	0.013	0.553	0.321	0.046	OK
26.000	15 min Winter	9	RE266B	PS850	0.005	0.000	0.000	0.000	OK
27.000	15 min Winter	9	ACO266A	PS850	0.005	0.000	0.000	0.000	OK
25.003	15 min Winter	9	PS850	PS521	0.010	0.790	0.319	0.021	OK
28.000	15 min Winter	10	GY267	PS521	0.008	0.000	0.000	0.000	OK
29.000	15 min Winter	0	RWP266B	PS521	0.000	0.000	0.000	0.000	OK
30.000	15 min Winter	0	PS523	PS521	0.000	0.000	0.000	0.000	OK
25.004	15 min Winter	10	PS521	PS518	0.013	0.445	0.315	0.021	OK
31.000	15 min Winter	0	RE266C	PS518	0.000	0.000	0.000	0.000	OK
25.005	15 min Winter	10	PS518	S56	0.009	0.707	0.316	0.007	OK
25.006	15 min Winter	9	S56	S57	0.049	1.181	7.507	0.105	OK
1.010	15 min Winter	9	S57	S58	0.125	0.778	21.805	0.341	OK
32.000	15 min Winter	0	RE288B	PS481	0.000	0.000	0.000	0.000	OK
32.001	15 min Winter	0	PS481	PS58	0.000	0.000	0.000	0.000	OK
33.000	15 min Winter	0	RE288A	PS58	0.000	0.000	0.000	0.000	OK
34.000	600 min Winter	408	DF290	PS58	0.005	0.625	0.114	0.002	OK
32.002	600 min Winter	408	PS58	S58	0.005	0.560	0.114	0.002	OK
35.000	15 min Winter	0	PS851	RE268A	0.000	0.000	0.000	0.000	OK
35.001	15 min Winter	0	RE268A	PS494	0.000	0.000	0.000	0.000	OK
36.000	15 min Winter	0	RWP268G	PS494	0.000	0.000	0.000	0.000	OK
35.002	15 min Winter	0	PS494	PS495	0.000	0.000	0.000	0.000	OK
35.003	15 min Winter	9	PS495	PS496	0.004	0.000	0.000	0.000	OK
37.000	15 min Winter	8	RWP268B	RE268B	0.004	0.000	0.000	0.000	OK
37.001	15 min Winter	8	RE268B	PS492	0.009	0.531	0.177	0.016	OK
38.000	15 min Winter	0	RWP268A	PS852	0.000	0.000	0.000	0.000	OK
39.000	15 min Winter	0	GY268A	PS852	0.000	0.000	0.000	0.000	OK
40.000	15 min Winter	0	RWP268D	PS852	0.000	0.000	0.000	0.000	OK
38.001	15 min Winter	9	PS852	PS492	0.005	0.000	0.000	0.000	OK
37.002	15 min Winter	9	PS492	PS496	0.009	0.428	0.179	0.007	OK
35.004	15 min Winter	9	PS496	S58	0.009	0.408	0.173	0.007	OK
1.011	15 min Winter	10	S58	S59	0.146	0.741	24.852	0.394	OK
41.000	15 min Winter	0	RE287A	PS469	0.000	0.000	0.000	0.000	OK
42.000	15 min Winter	0	RE285B	PS469	0.000	0.000	0.000	0.000	OK
41.001	15 min Winter	0	PS469	PS63	0.000	0.000	0.000	0.000	OK
43.000	15 min Winter	0	RE285A	PS63	0.000	0.000	0.000	0.000	OK
44.000	600 min Winter	388	PS62(D)	PS63	0.005	0.235	0.041	0.001	OK
41.002	600 min Winter	391	PS63	PS61	0.006	0.159	0.041	0.002	OK
45.000	600 min Winter	394	DF287	PS60	0.005	0.351	0.070	0.002	OK
45.001	600 min Winter	394	PS60	PS61	0.007	0.256	0.070	0.003	OK
41.003	600 min Winter	393	PS61	S59	0.007	0.349	0.111	0.005	OK
46.000	15 min Winter	0	RE274A	PS585	0.000	0.000	0.000	0.000	OK
46.001	15 min Winter	0	PS585	PS69	0.000	0.000	0.000	0.000	OK
47.000	15 min Winter	0	RE271B	PS69	0.000	0.000	0.000	0.000	OK
48.000	600 min Winter	392	DF269	PS69	0.004	0.488	0.062	0.001	OK
46.002	15 min Winter	9	PS69	S59	0.006	0.000	0.000	0.000	OK
1.012	15 min Winter	10	S59	S157	0.160	0.970	37.208	0.582	OK
49.000	15 min Winter	0	GY285A	PS465	0.000	0.000	0.000	0.000	OK
50.000	15 min Winter	0	PS466	PS465	0.000	0.000	0.000	0.000	OK
49.001	15 min Winter	0	PS465	PS459	0.000	0.000	0.000	0.000	OK
51.000	15 min Winter	0	GY283A	PS459	0.000	0.000	0.000	0.000	OK
52.000	15 min Winter	0	ACO283	PS459	0.000	0.000	0.000	0.000	OK
53.000	15 min Winter	0	PS463	PS459	0.000	0.000	0.000	0.000	OK
49.002	15 min Winter	0	PS459	PS460	0.000	0.000	0.000	0.000	OK
54.000	15 min Winter	0	RE284A	PS460	0.000	0.000	0.000	0.000	OK
49.003	15 min Winter	10	PS460	S157	0.006	0.000	0.000	0.000	OK
55.000	15 min Winter	0	RE272A	PS575	0.000	0.000	0.000	0.000	OK
56.000	15 min Winter	0	YG273	PS575	0.000	0.000	0.000	0.000	OK
57.000	15 min Winter	0	RWP273B	PS575	0.000	0.000	0.000	0.000	OK
55.001	15 min Winter	0	PS575	PS576	0.000	0.000	0.000	0.000	OK
58.000	15 min Winter	0	RE273A	PS576	0.000	0.000	0.000	0.000	OK
55.002	15 min Winter	10	PS576	S157	0.006	0.000	0.000	0.000	OK
1.013	15 min Winter	10	S157	S133	0.160	0.975	37.418	0.585	OK
59.000	15 min Winter	0	RWP278A	RE278	0.000	0.000	0.000	0.000	OK
59.001	15 min Winter	0	RE278	PS563	0.000	0.000	0.000	0.000	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
59.002	15 min Winter	0	PS563	PS70	0.000	0.000	0.000	0.000	OK
60.000	15 min Winter	0	RWP278B	RE278B	0.000	0.000	0.000	0.000	OK
60.001	15 min Winter	0	RE278B	PS70	0.000	0.000	0.000	0.000	OK
61.000	600 min Winter	400	DF277	PS70	0.005	0.574	0.092	0.002	OK
59.003	15 min Winter	10	PS70	S133	0.005	0.000	0.000	0.000	OK
62.000	600 min Winter	393	DF282	PS65	0.005	0.358	0.067	0.003	OK
62.001	15 min Winter	10	PS65	S133	0.005	0.000	0.000	0.000	OK
1.014	15 min Winter	10	S133	S60	0.157	0.999	37.452	0.585	OK
1.015	15 min Winter	11	S60	S96	0.134	1.248	37.603	0.590	OK
63.000	15 min Winter	8	RE279A	PS436	0.018	0.000	0.000	0.000	OK
63.001	15 min Winter	8	PS436	PS437	0.027	0.843	1.479	0.243	OK
64.000	15 min Winter	0	RE279B	PS439	0.000	0.000	0.000	0.000	OK
65.000	15 min Winter	0	GY281	PS439	0.000	0.000	0.000	0.000	OK
64.001	15 min Winter	9	PS439	PS437	0.009	0.000	0.000	0.000	OK
63.002	15 min Winter	9	PS437	S96	0.019	1.474	1.479	0.075	OK
66.000	15 min Winter	9	S122	S95	0.023	0.000	0.000	0.000	OK
66.001	15 min Winter	9	S95	S96	0.046	0.664	3.024	0.205	OK
1.016	15 min Winter	10	S96	S94	0.113	1.729	41.635	0.311	OK
1.017	600 min Winter	534	S94	S62	0.144	1.009	9.672	0.062	OK
67.000	600 min Winter	661	S160	S159	0.171	0.200	0.959	0.008	OK
67.001	600 min Winter	904	S159	S62	0.196	0.126	0.995	0.009	OK
1.018	600 min Winter	516	S62	S100	0.236	0.458	10.737	0.091	OK
1.019	600 min Winter	525	S100	S63	0.022	0.813	1.645	0.021	OK

Return Period Yrs: 10.0

Climate Change %: 40

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
RWP299A	-	0	5.150	0.000	0.000		OK
RE299A	-	0	5.100	0.000	0.000		OK
ACO299	-	0	5.120	0.000	0.000		OK
RWP299B	-	0	5.150	0.000	0.000		OK
PS211	-	0	5.025	0.000	0.000		OK
RWP299C	-	0	5.150	0.000	0.000		OK
PS212	15 min Winter	12	4.995	0.095	0.762		OK
ACO300	-	0	5.120	0.000	0.000		OK
RWP300B	-	0	5.150	0.000	0.000		OK
RE300A	-	0	5.100	0.000	0.000		OK
PS209	15 min Winter	12	4.994	0.044	0.000		OK
RWP299D	-	0	5.150	0.000	0.000		OK
PS210	15 min Winter	12	4.996	0.206	2.544		Surcharged
S64	15 min Winter	12	4.991	0.366	4.228		Surcharged
ACO297	-	0	5.345	0.000	0.000		OK
RWP297A	-	0	5.375	0.000	0.000		OK
RE297A	-	0	5.300	0.000	0.000		OK
PS216	-	0	5.175	0.000	0.000		OK
ACO298	-	0	5.345	0.000	0.000		OK
RWP298A	-	0	5.375	0.000	0.000		OK
RE298A	-	0	5.300	0.000	0.000		OK
PS214	15 min Winter	8	5.034	0.034	4.415		OK
S123	15 min Winter	12	4.999	0.049	0.626		OK
S65	15 min Winter	12	4.992	0.517	10.098		Surcharged
DF297	120 min Winter	87	5.210	0.010	0.517		OK
S125	15 min Winter	12	4.983	0.615	9.889		Surcharged
RWP303A	15 min Winter	8	5.681	0.031	0.040		OK
PS351	15 min Winter	8	5.681	0.056	3.876		OK
PS352	15 min Winter	9	5.480	0.055	3.720		OK
RE303A	15 min Winter	8	5.701	0.051	4.371		OK
PS354	15 min Winter	11	5.347	0.097	5.537		OK
RE306A	15 min Winter	8	5.720	0.070	6.537		OK
RWP306B	-	0	5.675	0.000	0.000		OK
PS378	15 min Winter	8	5.469	0.069	6.471		OK
RE306B	-	0	5.650	0.000	0.000		OK
DF306	120 min Summer	78	5.513	0.013	0.493		OK
RWP306A	-	0	5.675	0.000	0.000		OK
PS39	15 min Winter	11	5.346	0.246	4.298		Surcharged
S97	15 min Winter	11	5.344	0.441	8.739		Surcharged
RE292A	-	0	5.550	0.000	0.000		OK
DF293	120 min Summer	78	5.511	0.011	0.492		OK
PS387	120 min Summer	79	5.386	0.016	0.492		OK
PS35	15 min Winter	11	5.312	0.112	0.362		OK
RE291A	-	0	5.450	0.000	0.000		OK
PS386	15 min Winter	12	5.312	0.012	0.000		OK
PS36	15 min Winter	11	5.312	0.192	1.082		Surcharged
S121	120 min Winter	91	5.496	0.011	0.560		OK
S67	15 min Winter	11	5.311	0.511	23.378		Surcharged
S68	15 min Winter	11	4.971	0.796	28.922		Surcharged
S66	15 min Winter	11	4.934	0.829	34.898		Surcharged
RWP266A	-	0	5.550	0.000	0.000		OK
RE266A	15 min Winter	8	5.531	0.031	1.696		OK
PS516	15 min Winter	8	5.435	0.035	1.676		OK
RE266B	-	0	5.575	0.000	0.000		OK
ACO266A	-	0	5.570	0.000	0.000		OK
PS850	15 min Winter	9	5.322	0.022	1.634		OK
GY267	-	0	5.450	0.000	0.000		OK
RWP266B	-	0	5.600	0.000	0.000		OK
PS523	-	0	5.600	0.000	0.000		OK
PS521	15 min Winter	9	5.135	0.035	1.647		OK
RE266C	-	0	5.700	0.000	0.000		OK
PS518	15 min Winter	9	5.045	0.020	1.663		OK
S56	15 min Winter	10	4.959	0.284	31.641		Surcharged

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S57	15 min Winter	11	4.882	0.907	62.654		Surcharged
RE288B	-	0	5.150	0.000	0.000		OK
PS481	-	0	4.900	0.000	0.000		OK
RE288A	-	0	5.225	0.000	0.000		OK
DF290	180 min Winter	133	5.060	0.010	0.596		OK
PS58	15 min Winter	11	4.834	0.134	0.178		OK
PS851	-	0	5.375	0.000	0.000		OK
RE268A	-	0	5.300	0.000	0.000		OK
RWP268G	-	0	5.375	0.000	0.000		OK
PS494	-	0	5.100	0.000	0.000		OK
PS495	-	0	4.900	0.000	0.000		OK
RWP268B	-	0	5.375	0.000	0.000		OK
RE268B	15 min Winter	8	5.369	0.019	0.945		OK
RWP268A	-	0	5.375	0.000	0.000		OK
GY268A	-	0	5.325	0.000	0.000		OK
RWP268D	-	0	5.375	0.000	0.000		OK
PS852	-	0	5.175	0.000	0.000		OK
PS492	15 min Winter	8	4.920	0.020	0.933		OK
PS496	15 min Winter	11	4.834	0.034	0.645		OK
S58	15 min Winter	11	4.839	0.909	74.307		Surcharged
RE287A	-	0	5.000	0.000	0.000		OK
RE285B	-	0	5.025	0.000	0.000		OK
PS469	-	0	4.830	0.000	0.000		OK
RE285A	-	0	5.000	0.000	0.000		OK
PS62(D)	60 min Winter	50	4.738	0.013	0.449		OK
PS63	15 min Winter	11	4.735	0.085	0.017		OK
DF287	120 min Winter	87	4.912	0.012	0.517		OK
PS60	120 min Winter	87	4.765	0.015	0.517		OK
PS61	15 min Winter	11	4.732	0.132	0.023		OK
RE274A	-	0	4.925	0.000	0.000		OK
PS585	-	0	4.750	0.000	0.000		OK
RE271B	-	0	4.950	0.000	0.000		OK
DF269	120 min Summer	79	4.836	0.011	0.500		OK
PS69	15 min Winter	11	4.730	0.180	0.274		Surcharged
S59	15 min Winter	11	4.730	0.880	118.248		Surcharged
GY285A	-	0	4.900	0.000	0.000		OK
PS466	-	0	4.975	0.000	0.000		OK
PS465	-	0	4.650	0.000	0.000		OK
GY283A	-	0	4.750	0.000	0.000		OK
ACO283	-	0	4.745	0.000	0.000		OK
PS463	-	0	4.775	0.000	0.000		OK
PS459	-	0	4.450	0.000	0.000		OK
RE284A	-	0	5.025	0.000	0.000		OK
PS460	15 min Winter	11	4.401	0.051	0.087		OK
RE272A	-	0	4.775	0.000	0.000		OK
YG273	-	0	4.670	0.000	0.000		OK
RWP273B	-	0	4.925	0.000	0.000		OK
PS575	-	0	4.565	0.000	0.000		OK
RE273A	-	0	4.875	0.000	0.000		OK
PS576	-	0	4.450	0.000	0.000		OK
S157	15 min Winter	11	4.400	0.652	119.132		Surcharged
RWP278A	-	0	4.485	0.000	0.000		OK
RE278	-	0	4.450	0.000	0.000		OK
PS563	-	0	4.300	0.000	0.000		OK
RWP278B	-	0	4.485	0.000	0.000		OK
RE278B	-	0	4.450	0.000	0.000		OK
DF277	120 min Winter	92	4.361	0.011	0.557		OK
PS70	120 min Winter	91	4.111	0.011	0.557		OK
DF282	120 min Winter	86	4.515	0.015	0.509		OK
PS65	120 min Winter	87	4.261	0.011	0.509		OK
S133	15 min Winter	11	4.064	0.420	119.605		Surcharged
S60	1440 min Winter	1383	4.041	0.437	1.335		Surcharged
RE279A	15 min Winter	10	4.679	0.094	0.000		OK
PS436	15 min Winter	10	4.679	0.179	6.181		Surcharged
RE279B	-	0	4.500	0.000	0.000		OK
GY281	-	0	4.600	0.000	0.000		OK
PS439	-	0	4.300	0.000	0.000		OK
PS437	15 min Winter	10	4.239	0.039	6.418		OK

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S122	1440 min Winter	1382	4.041	0.116	0.009		OK
S95	1440 min Winter	1385	4.041	0.201	0.077		Surcharged
S96	1440 min Winter	1385	4.041	0.466	1.405		Surcharged
S94	1440 min Winter	1385	4.041	0.591	1.513		Surcharged
S160	1440 min Winter	1383	4.041	0.691	0.003		Surcharged
S159	1440 min Winter	1383	4.041	0.716	0.003		Surcharged
S62	1440 min Winter	1382	4.041	0.741	1.573		Surcharged
S100	1440 min Winter	1382	4.041	0.791	1.553		Surcharged
S63	1440 min Winter	603	3.172	0.022	1.650		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	15 min Summer	0	RWP299A	RE299A	0.000	0.000	0.000	0.000	OK
1.001	15 min Summer	0	RE299A	PS211	0.000	0.000	0.000	0.000	OK
2.000	15 min Summer	0	ACO299	PS211	0.000	0.000	0.000	0.000	OK
3.000	15 min Summer	0	RWP299B	PS211	0.000	0.000	0.000	0.000	OK
1.002	15 min Winter	12	PS211	PS212	0.048	0.000	0.000	0.000	OK
4.000	15 min Winter	12	RWP299C	PS212	0.048	0.000	0.000	0.000	OK
1.003	15 min Winter	14	PS212	PS210	0.098	0.247	1.320	0.196	OK
5.000	15 min Summer	0	ACO300	RE300A	0.000	0.000	0.000	0.000	OK
6.000	15 min Summer	0	RWP300B	RE300A	0.000	0.000	0.000	0.000	OK
5.001	15 min Winter	12	RE300A	PS209	0.022	0.000	0.000	0.000	OK
5.002	15 min Winter	13	PS209	PS210	0.072	0.213	0.671	0.088	OK
7.000	15 min Winter	10	RWP299D	PS210	0.050	0.000	0.000	0.000	OK
1.004	30 min Summer	19	PS210	S64	0.150	0.876	4.807	0.265	Surcharged
1.005	15 min Winter	9	S64	S65	0.225	0.661	10.328	0.215	OK
8.000	15 min Summer	0	ACO297	RE297A	0.000	0.000	0.000	0.000	OK
9.000	15 min Summer	0	RWP297A	RE297A	0.000	0.000	0.000	0.000	OK
8.001	15 min Summer	0	RE297A	PS216	0.000	0.000	0.000	0.000	OK
8.002	15 min Summer	0	PS216	PS214	0.000	0.000	0.000	0.000	OK
10.000	15 min Summer	0	ACO298	RE298A	0.000	0.000	0.000	0.000	OK
11.000	15 min Summer	0	RWP298A	RE298A	0.000	0.000	0.000	0.000	OK
10.001	15 min Summer	0	RE298A	PS214	0.000	0.000	0.000	0.000	OK
8.003	15 min Winter	9	PS214	S65	0.092	1.424	4.395	0.113	OK
12.000	15 min Winter	13	S123	S65	0.099	0.469	1.548	0.068	OK
1.006	15 min Winter	9	S65	S125	0.225	1.071	20.740	0.465	OK
13.000	60 min Summer	52	DF297	S125	0.079	0.988	0.490	0.009	OK
1.007	15 min Winter	17	S125	S68	0.225	0.724	28.788	0.645	OK
14.000	15 min Winter	12	RWP303A	PS351	0.044	0.110	0.167	0.024	OK
14.001	15 min Winter	8	PS351	PS352	0.056	0.843	3.786	0.611	OK
14.002	15 min Winter	9	PS352	PS354	0.056	0.844	3.783	0.602	OK
15.000	15 min Winter	8	RE303A	PS354	0.051	1.077	4.310	0.515	OK
14.003	15 min Winter	11	PS354	S97	0.123	0.794	7.972	0.253	OK
16.000	15 min Winter	8	RE306A	PS378	0.069	1.117	6.471	0.833	OK
17.000	15 min Winter	8	RWP306B	PS378	0.034	0.000	0.000	0.000	OK
16.001	15 min Winter	10	PS378	PS39	0.081	1.113	6.360	0.816	OK
18.000	15 min Winter	10	RE306B	PS39	0.050	0.000	0.000	0.000	OK
19.000	30 min Summer	36	DF306	PS39	0.076	0.592	0.409	0.014	OK
20.000	15 min Winter	9	RWP306A	PS39	0.050	0.000	0.000	0.000	OK
16.002	30 min Summer	17	PS39	S97	0.150	0.701	5.780	0.153	Surcharged
14.004	15 min Winter	15	S97	S67	0.150	0.730	10.382	0.688	Surcharged
21.000	15 min Summer	0	RE292A	PS387	0.000	0.000	0.000	0.000	OK
22.000	120 min Summer	78	DF293	PS387	0.013	0.646	0.492	0.010	OK
21.001	15 min Winter	27	PS387	PS35	0.056	0.415	0.291	0.014	OK
21.002	15 min Winter	13	PS35	PS36	0.131	0.539	1.212	0.055	OK
23.000	15 min Winter	12	RE291A	PS386	0.006	0.000	0.000	0.000	OK
23.001	15 min Winter	12	PS386	PS36	0.056	0.176	0.204	0.030	OK
21.003	30 min Summer	21	PS36	S67	0.150	0.410	2.176	0.043	Surcharged
24.000	60 min Summer	55	S121	S67	0.079	0.528	0.514	0.010	OK
14.005	30 min Summer	15	S67	S68	0.150	1.759	27.036	0.960	Surcharged
1.008	15 min Winter	16	S68	S66	0.225	1.225	48.714	1.288	OK
1.009	15 min Winter	16	S66	S57	0.225	1.349	53.639	1.521	OK
25.000	15 min Winter	8	RWP266A	RE266A	0.016	0.000	0.000	0.000	OK
25.001	15 min Winter	8	RE266A	PS516	0.033	0.745	1.676	0.212	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
25.002	15 min Winter	8	PS516	PS850	0.028	0.905	1.653	0.239	OK
26.000	15 min Winter	9	RE266B	PS850	0.011	0.000	0.000	0.000	OK
27.000	15 min Winter	9	ACO266A	PS850	0.011	0.000	0.000	0.000	OK
25.003	15 min Winter	9	PS850	PS521	0.022	1.283	1.647	0.106	OK
28.000	15 min Winter	9	GY267	PS521	0.017	0.000	0.000	0.000	OK
29.000	15 min Summer	0	RWP266B	PS521	0.000	0.000	0.000	0.000	OK
30.000	15 min Summer	0	PS523	PS521	0.000	0.000	0.000	0.000	OK
25.004	15 min Winter	9	PS521	PS518	0.028	0.746	1.663	0.112	OK
31.000	15 min Summer	0	RE266C	PS518	0.000	0.000	0.000	0.000	OK
25.005	15 min Winter	10	PS518	S56	0.085	0.837	1.669	0.039	OK
25.006	30 min Summer	18	S56	S57	0.225	1.263	34.756	0.486	OK
1.010	15 min Winter	14	S57	S58	0.300	1.010	71.374	1.116	Surcharged
32.000	15 min Summer	0	RE288B	PS481	0.000	0.000	0.000	0.000	OK
32.001	15 min Winter	11	PS481	PS58	0.042	0.000	0.000	0.000	OK
33.000	15 min Winter	11	RE288A	PS58	0.042	0.000	0.000	0.000	OK
34.000	15 min Winter	30	DF290	PS58	0.067	0.854	0.320	0.005	OK
32.002	15 min Winter	13	PS58	S58	0.142	0.766	1.822	0.038	OK
35.000	15 min Summer	0	PS851	RE268A	0.000	0.000	0.000	0.000	OK
35.001	15 min Summer	0	RE268A	PS494	0.000	0.000	0.000	0.000	OK
36.000	15 min Summer	0	RWP268G	PS494	0.000	0.000	0.000	0.000	OK
35.002	15 min Summer	0	PS494	PS495	0.000	0.000	0.000	0.000	OK
35.003	15 min Winter	11	PS495	PS496	0.017	0.000	0.000	0.000	OK
37.000	15 min Winter	8	RWP268B	RE268B	0.010	0.000	0.000	0.000	OK
37.001	15 min Winter	8	RE268B	PS492	0.019	0.872	0.933	0.082	OK
38.000	15 min Summer	0	RWP268A	PS852	0.000	0.000	0.000	0.000	OK
39.000	15 min Summer	0	GY268A	PS852	0.000	0.000	0.000	0.000	OK
40.000	15 min Summer	0	RWP268D	PS852	0.000	0.000	0.000	0.000	OK
38.001	15 min Winter	8	PS852	PS492	0.010	0.000	0.000	0.000	OK
37.002	15 min Winter	11	PS492	PS496	0.026	0.667	0.920	0.038	OK
35.004	15 min Winter	11	PS496	S58	0.072	0.672	1.017	0.041	OK
1.011	15 min Winter	14	S58	S59	0.300	1.155	81.663	1.294	Surcharged
41.000	15 min Summer	0	RE287A	PS469	0.000	0.000	0.000	0.000	OK
42.000	15 min Summer	0	RE285B	PS469	0.000	0.000	0.000	0.000	OK
41.001	15 min Winter	11	PS469	PS63	0.017	0.000	0.000	0.000	OK
43.000	15 min Winter	11	RE285A	PS63	0.017	0.000	0.000	0.000	OK
44.000	15 min Winter	26	PS62(D)	PS63	0.048	0.422	0.274	0.010	OK
41.002	15 min Winter	12	PS63	PS61	0.108	0.311	1.111	0.067	OK
45.000	120 min Winter	87	DF287	PS60	0.014	0.640	0.517	0.014	OK
45.001	15 min Winter	28	PS60	PS61	0.066	0.371	0.299	0.013	OK
41.003	15 min Winter	12	PS61	S59	0.141	0.577	2.370	0.097	OK
46.000	15 min Summer	0	RE274A	PS585	0.000	0.000	0.000	0.000	OK
46.001	15 min Winter	10	PS585	PS69	0.050	0.000	0.000	0.000	OK
47.000	15 min Winter	10	RE271B	PS69	0.050	0.000	0.000	0.000	OK
48.000	30 min Summer	36	DF269	PS69	0.075	0.868	0.413	0.009	OK
46.002	30 min Summer	20	PS69	S59	0.150	0.952	1.901	0.033	Surcharged
1.012	15 min Winter	10	S59	S157	0.300	1.696	119.875	1.875	Surcharged
49.000	15 min Summer	0	GY285A	PS465	0.000	0.000	0.000	0.000	OK
50.000	15 min Summer	0	PS466	PS465	0.000	0.000	0.000	0.000	OK
49.001	15 min Summer	0	PS465	PS459	0.000	0.000	0.000	0.000	OK
51.000	15 min Summer	0	GY283A	PS459	0.000	0.000	0.000	0.000	OK
52.000	15 min Summer	0	ACO283	PS459	0.000	0.000	0.000	0.000	OK
53.000	15 min Summer	0	PS463	PS459	0.000	0.000	0.000	0.000	OK
49.002	15 min Winter	11	PS459	PS460	0.025	0.000	0.000	0.000	OK
54.000	15 min Summer	0	RE284A	PS460	0.000	0.000	0.000	0.000	OK
49.003	15 min Winter	12	PS460	S157	0.100	0.048	0.564	0.011	OK
55.000	15 min Summer	0	RE272A	PS575	0.000	0.000	0.000	0.000	OK
56.000	15 min Summer	0	YG273	PS575	0.000	0.000	0.000	0.000	OK
57.000	15 min Summer	0	RWP273B	PS575	0.000	0.000	0.000	0.000	OK
55.001	15 min Summer	0	PS575	PS576	0.000	0.000	0.000	0.000	OK
58.000	15 min Summer	0	RE273A	PS576	0.000	0.000	0.000	0.000	OK
55.002	15 min Summer	7	PS576	S157	0.075	0.000	0.000	0.000	OK
1.013	15 min Winter	11	S157	S133	0.300	1.682	118.915	1.860	Surcharged
59.000	15 min Summer	0	RWP278A	RE278	0.000	0.000	0.000	0.000	OK
59.001	15 min Summer	0	RE278	PS563	0.000	0.000	0.000	0.000	OK
59.002	15 min Summer	0	PS563	PS70	0.000	0.000	0.000	0.000	OK
60.000	15 min Summer	0	RWP278B	RE278B	0.000	0.000	0.000	0.000	OK
60.001	15 min Summer	0	RE278B	PS70	0.000	0.000	0.000	0.000	OK
61.000	120 min Winter	91	DF277	PS70	0.011	0.993	0.557	0.011	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
59.003	360 min Winter	292	PS70	S133	0.079	0.971	0.494	0.009	OK
62.000	120 min Winter	87	DF282	PS65	0.013	0.664	0.509	0.020	OK
62.001	60 min Winter	52	PS65	S133	0.079	0.859	0.503	0.011	OK
1.014	15 min Winter	12	S133	S60	0.300	1.694	119.728	1.871	Surcharged
1.015	240 min Summer	222	S60	S96	0.300	1.548	72.347	1.134	Surcharged
63.000	15 min Winter	12	RE279A	PS436	0.097	0.149	0.754	0.118	OK
63.001	15 min Winter	10	PS436	PS437	0.070	1.134	6.418	1.055	OK
64.000	15 min Summer	0	RE279B	PS439	0.000	0.000	0.000	0.000	OK
65.000	15 min Summer	0	GY281	PS439	0.000	0.000	0.000	0.000	OK
64.001	15 min Winter	10	PS439	PS437	0.020	0.000	0.000	0.000	OK
63.002	360 min Winter	241	PS437	S96	0.056	1.356	1.115	0.057	OK
66.000	1440 min Winter	1568	S122	S95	0.133	0.007	0.049	0.003	OK
66.001	600 min Summer	571	S95	S96	0.150	0.617	2.352	0.160	Surcharged
1.016	240 min Summer	194	S96	S94	0.300	1.766	71.864	0.536	Surcharged
1.017	60 min Winter	54	S94	S62	0.300	2.527	120.878	0.773	Surcharged
67.000	960 min Winter	3601	S160	S159	0.375	0.010	0.897	0.008	Surcharged
67.001	960 min Winter	3601	S159	S62	0.375	0.009	0.903	0.008	Surcharged
1.018	30 min Summer	19	S62	S100	0.300	0.504	20.194	0.171	Surcharged
1.019	1440 min Winter	603	S100	S63	0.022	0.814	1.650	0.021	OK

Return Period Yrs: 30.0

Climate Change %: 40

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
RWP299A	15 min Winter	14	5.211	0.061	0.046		OK
RE299A	15 min Winter	14	5.211	0.111	0.089		Surcharged
ACO299	15 min Winter	14	5.210	0.090	0.021		OK
RWP299B	15 min Winter	14	5.210	0.060	0.021		OK
PS211	15 min Winter	14	5.210	0.185	0.146		Surcharged
RWP299C	15 min Winter	13	5.208	0.058	0.077		OK
PS212	15 min Winter	13	5.208	0.308	2.150		Surcharged
ACO300	15 min Winter	13	5.215	0.095	0.331		OK
RWP300B	15 min Winter	13	5.215	0.065	0.322		OK
RE300A	15 min Winter	13	5.215	0.115	0.967		Surcharged
PS209	15 min Winter	13	5.214	0.264	1.002		Surcharged
RWP299D	15 min Winter	13	5.212	0.062	0.000		OK
PS210	15 min Winter	13	5.212	0.422	2.923		Surcharged
S64	15 min Winter	12	5.212	0.587	3.992		Surcharged
ACO297	-	0	5.345	0.000	0.000		OK
RWP297A	-	0	5.375	0.000	0.000		OK
RE297A	-	0	5.300	0.000	0.000		OK
PS216	15 min Winter	12	5.219	0.044	0.201		OK
ACO298	-	0	5.345	0.000	0.000		OK
RWP298A	-	0	5.375	0.000	0.000		OK
RE298A	-	0	5.300	0.000	0.000		OK
PS214	15 min Winter	12	5.213	0.213	2.333		Surcharged
S123	15 min Winter	12	5.214	0.264	0.004		Surcharged
S65	15 min Winter	12	5.212	0.737	6.504		Surcharged
DF297	60 min Winter	61	5.211	0.011	0.644		OK
S125	15 min Winter	12	5.211	0.842	5.919		Surcharged
RWP303A	15 min Winter	8	5.692	0.042	0.055		OK
PS351	15 min Winter	8	5.692	0.067	5.027		OK
PS352	15 min Winter	12	5.605	0.180	2.410		Surcharged
RE303A	15 min Winter	8	5.710	0.060	5.668		OK
PS354	15 min Winter	12	5.585	0.335	5.044		Surcharged
RE306A	15 min Winter	10	5.779	0.129	6.593		Surcharged
RWP306B	-	0	5.675	0.000	0.000		OK
PS378	15 min Winter	12	5.655	0.255	4.683		Surcharged
RE306B	-	0	5.650	0.000	0.000		OK
DF306	15 min Winter	12	5.582	0.082	0.001		OK
RWP306A	-	0	5.675	0.000	0.000		OK
PS39	15 min Winter	12	5.582	0.482	4.812		Surcharged
S97	15 min Winter	12	5.579	0.676	9.554		Surcharged
RE292A	-	0	5.550	0.000	0.000		OK
DF293	15 min Winter	12	5.545	0.045	0.001		OK
PS387	15 min Winter	12	5.545	0.175	0.123		Surcharged
PS35	15 min Winter	12	5.544	0.344	0.172		Surcharged
RE291A	15 min Winter	12	5.548	0.098	0.000		OK
PS386	15 min Winter	12	5.545	0.245	0.144		Surcharged
PS36	15 min Winter	12	5.542	0.422	0.214		Surcharged
S121	15 min Winter	12	5.540	0.055	0.064		OK
S67	15 min Winter	12	5.540	0.740	22.592		Surcharged
S68	15 min Winter	12	5.201	1.026	27.370		Surcharged
S66	15 min Winter	11	5.166	1.061	32.018		Surcharged
RWP266A	-	0	5.550	0.000	0.000		OK
RE266A	15 min Winter	8	5.536	0.036	2.200		OK
PS516	15 min Winter	8	5.440	0.040	2.176		OK
RE266B	-	0	5.575	0.000	0.000		OK
ACO266A	-	0	5.570	0.000	0.000		OK
PS850	15 min Winter	8	5.325	0.025	2.149		OK
GY267	-	0	5.450	0.000	0.000		OK
RWP266B	-	0	5.600	0.000	0.000		OK
PS523	-	0	5.600	0.000	0.000		OK
PS521	15 min Winter	11	5.256	0.156	1.525		Surcharged
RE266C	-	0	5.700	0.000	0.000		OK
PS518	15 min Winter	10	5.255	0.230	0.321		Surcharged
S56	15 min Winter	10	5.256	0.581	39.045		Surcharged

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S57	15 min Winter	11	5.123	1.148	68.537		Surcharged
RE288B	-	0	5.150	0.000	0.000		OK
PS481	15 min Winter	12	5.077	0.177	0.000		Surcharged
RE288A	-	0	5.225	0.000	0.000		OK
DF290	15 min Winter	12	5.076	0.026	0.002		OK
PS58	15 min Winter	11	5.075	0.375	0.948		Surcharged
PS851	-	0	5.375	0.000	0.000		OK
RE268A	-	0	5.300	0.000	0.000		OK
RWP268G	-	0	5.375	0.000	0.000		OK
PS494	-	0	5.100	0.000	0.000		OK
PS495	15 min Winter	11	5.073	0.173	0.349		Surcharged
RWP268B	-	0	5.375	0.000	0.000		OK
RE268B	15 min Winter	8	5.372	0.022	1.226		OK
RWP268A	-	0	5.375	0.000	0.000		OK
GY268A	-	0	5.325	0.000	0.000		OK
RWP268D	-	0	5.375	0.000	0.000		OK
PS852	-	0	5.175	0.000	0.000		OK
PS492	15 min Winter	11	5.072	0.172	0.778		Surcharged
PS496	15 min Winter	11	5.073	0.273	1.034		Surcharged
S58	15 min Winter	11	5.074	1.144	81.664		Surcharged
RE287A	-	0	5.000	0.000	0.000		OK
RE285B	-	0	5.025	0.000	0.000		OK
PS469	15 min Winter	11	4.968	0.138	0.060		Surcharged
RE285A	-	0	5.000	0.000	0.000		OK
PS62(D)	15 min Winter	11	4.962	0.237	0.000		Surcharged
PS63	15 min Winter	11	4.962	0.312	0.061		Surcharged
DF287	15 min Winter	11	4.961	0.061	0.370		OK
PS60	15 min Winter	11	4.961	0.211	0.604		Surcharged
PS61	15 min Winter	11	4.959	0.359	0.724		Surcharged
RE274A	15 min Winter	12	4.963	0.038	0.000		OK
PS585	15 min Winter	12	4.954	0.204	0.330		Surcharged
RE271B	15 min Winter	12	4.958	0.008	0.000		OK
DF269	15 min Winter	11	4.954	0.129	0.316		OK
PS69	15 min Winter	11	4.954	0.404	1.550		Surcharged
S59	15 min Winter	11	4.954	1.104	134.234		Surcharged
GY285A	-	0	4.900	0.000	0.000		OK
PS466	-	0	4.975	0.000	0.000		OK
PS465	-	0	4.650	0.000	0.000		OK
GY283A	-	0	4.750	0.000	0.000		OK
ACO283	-	0	4.745	0.000	0.000		OK
PS463	-	0	4.775	0.000	0.000		OK
PS459	15 min Winter	12	4.568	0.118	0.076		OK
RE284A	-	0	5.025	0.000	0.000		OK
PS460	30 min Summer	19	4.567	0.217	0.497		Surcharged
RE272A	-	0	4.775	0.000	0.000		OK
YG273	-	0	4.670	0.000	0.000		OK
RWP273B	-	0	4.925	0.000	0.000		OK
PS575	30 min Summer	20	4.571	0.006	0.000		OK
RE273A	-	0	4.875	0.000	0.000		OK
PS576	30 min Summer	19	4.566	0.116	0.254		OK
S157	30 min Summer	19	4.566	0.818	127.735		Surcharged
RWP278A	-	0	4.485	0.000	0.000		OK
RE278	-	0	4.450	0.000	0.000		OK
PS563	-	0	4.300	0.000	0.000		OK
RWP278B	-	0	4.485	0.000	0.000		OK
RE278B	-	0	4.450	0.000	0.000		OK
DF277	120 min Winter	91	4.362	0.012	0.685		OK
PS70	1440 min Winter	1387	4.221	0.121	0.039		OK
DF282	60 min Winter	61	4.517	0.017	0.636		OK
PS65	60 min Winter	61	4.262	0.012	0.636		OK
S133	1440 min Winter	1387	4.221	0.577	1.482		Surcharged
S60	1440 min Winter	1387	4.221	0.617	1.545		Surcharged
RE279A	15 min Winter	10	4.842	0.257	0.170		Surcharged
PS436	15 min Winter	10	4.841	0.341	7.885		Surcharged
RE279B	-	0	4.500	0.000	0.000		OK
GY281	-	0	4.600	0.000	0.000		OK
PS439	-	0	4.300	0.000	0.000		OK
PS437	15 min Winter	10	4.243	0.043	7.591		OK

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S122	1440 min Winter	1390	4.221	0.296	0.000		Surcharged
S95	1440 min Winter	1385	4.221	0.381	0.085		Surcharged
S96	1440 min Winter	1388	4.221	0.646	1.611		Surcharged
S94	1440 min Winter	1388	4.221	0.771	1.707		Surcharged
S160	1440 min Winter	1390	4.221	0.871	0.005		Flood Risk
S159	1440 min Winter	1394	4.221	0.896	0.006		Surcharged
S62	1440 min Winter	1389	4.221	0.921	1.684		Surcharged
S100	1440 min Winter	1389	4.221	0.971	1.706		Surcharged
S63	1440 min Winter	1389	3.172	0.022	1.706		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	15 min Winter	15	RWP299A	RE299A	0.081	0.131	0.373	0.024	OK
1.001	30 min Summer	25	RE299A	PS211	0.100	0.211	1.223	0.173	Surcharged
2.000	15 min Winter	17	ACO299	PS211	0.095	0.171	0.799	0.051	OK
3.000	15 min Winter	16	RWP299B	PS211	0.080	0.130	0.669	0.030	OK
1.002	30 min Winter	26	PS211	PS212	0.100	0.324	2.539	0.409	Surcharged
4.000	15 min Winter	15	RWP299C	PS212	0.079	0.097	0.549	0.023	OK
1.003	15 min Winter	17	PS212	PS210	0.100	0.589	4.629	0.689	Surcharged
5.000	15 min Winter	15	ACO300	RE300A	0.098	0.239	0.486	0.089	OK
6.000	15 min Winter	15	RWP300B	RE300A	0.082	0.254	0.646	0.036	OK
5.001	30 min Summer	24	RE300A	PS209	0.100	0.230	1.516	0.217	Surcharged
5.002	15 min Winter	16	PS209	PS210	0.100	0.423	2.894	0.381	Surcharged
7.000	15 min Winter	15	RWP299D	PS210	0.081	0.138	0.690	0.027	OK
1.004	15 min Winter	17	PS210	S64	0.150	0.931	8.463	0.466	Surcharged
1.005	15 min Winter	8	S64	S65	0.225	0.674	12.159	0.253	OK
8.000	15 min Summer	0	ACO297	RE297A	0.000	0.000	0.000	0.000	OK
9.000	15 min Summer	0	RWP297A	RE297A	0.000	0.000	0.000	0.000	OK
8.001	15 min Winter	12	RE297A	PS216	0.022	0.000	0.000	0.000	OK
8.002	15 min Winter	13	PS216	PS214	0.072	0.179	0.403	0.062	OK
10.000	15 min Summer	0	ACO298	RE298A	0.000	0.000	0.000	0.000	OK
11.000	15 min Summer	0	RWP298A	RE298A	0.000	0.000	0.000	0.000	OK
10.001	15 min Winter	11	RE298A	PS214	0.050	0.000	0.000	0.000	OK
8.003	30 min Summer	18	PS214	S65	0.150	1.392	5.342	0.138	Surcharged
12.000	30 min Winter	27	S123	S65	0.150	0.564	2.662	0.117	Surcharged
1.006	15 min Winter	18	S65	S125	0.225	1.063	22.744	0.510	OK
13.000	120 min Summer	85	DF297	S125	0.080	1.072	0.641	0.011	OK
1.007	15 min Winter	20	S125	S68	0.225	0.869	29.064	0.652	OK
14.000	15 min Winter	12	RWP303A	PS351	0.055	0.107	0.190	0.027	OK
14.001	15 min Winter	10	PS351	PS352	0.080	0.891	4.910	0.792	OK
14.002	30 min Summer	18	PS352	PS354	0.100	0.867	4.672	0.743	Surcharged
15.000	15 min Winter	9	RE303A	PS354	0.079	1.145	5.592	0.668	OK
14.003	30 min Summer	17	PS354	S97	0.150	0.811	9.475	0.300	Surcharged
16.000	15 min Winter	9	RE306A	PS378	0.100	1.148	8.299	1.068	Surcharged
17.000	15 min Summer	10	RWP306B	PS378	0.050	0.000	0.000	0.000	OK
16.001	15 min Winter	9	PS378	PS39	0.100	1.128	7.802	1.001	Surcharged
18.000	15 min Summer	9	RE306B	PS39	0.050	0.000	0.000	0.000	OK
19.000	15 min Winter	14	DF306	PS39	0.116	0.593	0.762	0.026	OK
20.000	15 min Summer	9	RWP306A	PS39	0.050	0.000	0.000	0.000	OK
16.002	30 min Summer	16	PS39	S97	0.150	0.711	6.463	0.171	Surcharged
14.004	15 min Winter	18	S97	S67	0.150	0.706	11.662	0.773	Surcharged
21.000	15 min Winter	11	RE292A	PS387	0.050	0.000	0.000	0.000	OK
22.000	15 min Winter	31	DF293	PS387	0.098	0.616	0.412	0.009	OK
21.001	30 min Summer	23	PS387	PS35	0.150	0.494	1.071	0.051	Surcharged
21.002	15 min Winter	15	PS35	PS36	0.150	0.601	2.710	0.123	Surcharged
23.000	15 min Winter	14	RE291A	PS386	0.099	0.117	0.636	0.095	OK
23.001	15 min Winter	15	PS386	PS36	0.100	0.315	1.978	0.289	Surcharged
21.003	15 min Winter	15	PS36	S67	0.150	0.425	5.822	0.116	Surcharged
24.000	15 min Winter	14	S121	S67	0.103	0.457	1.026	0.021	OK
14.005	30 min Summer	14	S67	S68	0.150	1.745	27.439	0.974	Surcharged
1.008	15 min Winter	19	S68	S66	0.225	1.430	56.838	1.503	OK
1.009	15 min Winter	18	S66	S57	0.225	1.541	61.277	1.737	OK
25.000	15 min Winter	8	RWP266A	RE266A	0.018	0.000	0.000	0.000	OK
25.001	15 min Winter	8	RE266A	PS516	0.038	0.804	2.176	0.275	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
25.002	15 min Winter	8	PS516	PS850	0.032	0.977	2.149	0.310	OK
26.000	15 min Winter	8	RE266B	PS850	0.013	0.000	0.000	0.000	OK
27.000	15 min Winter	8	ACO266A	PS850	0.013	0.000	0.000	0.000	OK
25.003	15 min Winter	10	PS850	PS521	0.062	1.381	2.132	0.138	OK
28.000	15 min Winter	10	GY267	PS521	0.075	0.000	0.000	0.000	OK
29.000	15 min Winter	10	RWP266B	PS521	0.050	0.000	0.000	0.000	OK
30.000	15 min Winter	10	PS523	PS521	0.050	0.000	0.000	0.000	OK
25.004	15 min Winter	12	PS521	PS518	0.150	0.764	2.591	0.174	Surcharged
31.000	15 min Winter	9	RE266C	PS518	0.050	0.000	0.000	0.000	OK
25.005	30 min Summer	20	PS518	S56	0.150	0.882	3.796	0.089	Surcharged
25.006	15 min Winter	8	S56	S57	0.225	1.309	40.821	0.571	OK
1.010	15 min Winter	17	S57	S58	0.300	1.095	77.399	1.210	Surcharged
32.000	15 min Winter	10	RE288B	PS481	0.050	0.000	0.000	0.000	OK
32.001	30 min Summer	22	PS481	PS58	0.100	0.212	1.258	0.187	Surcharged
33.000	15 min Summer	9	RE288A	PS58	0.050	0.000	0.000	0.000	OK
34.000	15 min Winter	12	DF290	PS58	0.088	0.951	0.608	0.009	OK
32.002	15 min Winter	16	PS58	S58	0.150	0.848	4.305	0.091	Surcharged
35.000	15 min Summer	0	PS851	RE268A	0.000	0.000	0.000	0.000	OK
35.001	15 min Summer	0	RE268A	PS494	0.000	0.000	0.000	0.000	OK
36.000	15 min Summer	0	RWP268G	PS494	0.000	0.000	0.000	0.000	OK
35.002	15 min Winter	11	PS494	PS495	0.075	0.000	0.000	0.000	OK
35.003	30 min Summer	22	PS495	PS496	0.150	0.107	1.311	0.058	Surcharged
37.000	15 min Winter	8	RWP268B	RE268B	0.011	0.000	0.000	0.000	OK
37.001	30 min Summer	18	RE268B	PS492	0.059	0.926	1.143	0.101	OK
38.000	15 min Summer	0	RWP268A	PS852	0.000	0.000	0.000	0.000	OK
39.000	15 min Summer	0	GY268A	PS852	0.000	0.000	0.000	0.000	OK
40.000	15 min Summer	0	RWP268D	PS852	0.000	0.000	0.000	0.000	OK
38.001	15 min Winter	11	PS852	PS492	0.075	0.000	0.000	0.000	OK
37.002	30 min Summer	21	PS492	PS496	0.150	0.705	1.884	0.078	Surcharged
35.004	15 min Winter	14	PS496	S58	0.150	0.697	5.500	0.221	Surcharged
1.011	15 min Winter	17	S58	S59	0.300	1.227	86.765	1.375	Surcharged
41.000	15 min Winter	11	RE287A	PS469	0.050	0.000	0.000	0.000	OK
42.000	15 min Winter	11	RE285B	PS469	0.050	0.000	0.000	0.000	OK
41.001	30 min Summer	21	PS469	PS63	0.100	0.223	1.326	0.217	Surcharged
43.000	15 min Summer	10	RE285A	PS63	0.050	0.000	0.000	0.000	OK
44.000	30 min Summer	23	PS62(D)	PS63	0.150	0.493	1.381	0.050	Surcharged
41.002	15 min Winter	15	PS63	PS61	0.150	0.347	5.521	0.335	Surcharged
45.000	15 min Winter	12	DF287	PS60	0.106	0.606	0.473	0.012	OK
45.001	30 min Summer	22	PS60	PS61	0.150	0.443	1.449	0.061	Surcharged
41.003	15 min Winter	14	PS61	S59	0.150	0.641	7.527	0.309	Surcharged
46.000	15 min Winter	12	RE274A	PS585	0.069	0.083	0.330	0.053	OK
46.001	15 min Winter	14	PS585	PS69	0.100	0.250	1.522	0.226	Surcharged
47.000	15 min Winter	12	RE271B	PS69	0.054	0.028	0.121	0.014	OK
48.000	15 min Winter	13	DF269	PS69	0.140	0.869	1.279	0.027	OK
46.002	15 min Winter	16	PS69	S59	0.150	0.955	6.135	0.106	Surcharged
1.012	15 min Winter	10	S59	S157	0.300	1.883	133.133	2.082	Surcharged
49.000	15 min Summer	0	GY285A	PS465	0.000	0.000	0.000	0.000	OK
50.000	15 min Summer	0	PS466	PS465	0.000	0.000	0.000	0.000	OK
49.001	15 min Winter	12	PS465	PS459	0.034	0.000	0.000	0.000	OK
51.000	15 min Winter	12	GY283A	PS459	0.059	0.000	0.000	0.000	OK
52.000	15 min Winter	12	ACO283	PS459	0.034	0.000	0.000	0.000	OK
53.000	15 min Winter	12	PS463	PS459	0.034	0.000	0.000	0.000	OK
49.002	15 min Winter	14	PS459	PS460	0.134	0.192	1.357	0.081	OK
54.000	15 min Summer	0	RE284A	PS460	0.000	0.000	0.000	0.000	OK
49.003	30 min Summer	23	PS460	S157	0.150	0.116	1.904	0.037	Surcharged
55.000	15 min Summer	0	RE272A	PS575	0.000	0.000	0.000	0.000	OK
56.000	30 min Summer	20	YG273	PS575	0.003	0.000	0.000	0.000	OK
57.000	15 min Summer	0	RWP273B	PS575	0.000	0.000	0.000	0.000	OK
55.001	30 min Summer	20	PS575	PS576	0.061	0.025	0.055	0.003	OK
58.000	30 min Summer	19	RE273A	PS576	0.033	0.000	0.000	0.000	OK
55.002	30 min Summer	22	PS576	S157	0.133	0.076	0.967	0.012	OK
1.013	15 min Winter	12	S157	S133	0.300	1.808	127.803	1.999	Surcharged
59.000	15 min Summer	0	RWP278A	RE278	0.000	0.000	0.000	0.000	OK
59.001	15 min Summer	0	RE278	PS563	0.000	0.000	0.000	0.000	OK
59.002	1440 min Winter	1387	PS563	PS70	0.036	0.000	0.000	0.000	OK
60.000	15 min Summer	0	RWP278B	RE278B	0.000	0.000	0.000	0.000	OK
60.001	1440 min Winter	1387	RE278B	PS70	0.036	0.000	0.000	0.000	OK
61.000	1440 min Winter	1387	DF277	PS70	0.062	0.813	0.290	0.005	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
59.003	1440 min Winter	1387	PS70	S133	0.136	0.817	0.918	0.016	OK
62.000	60 min Winter	61	DF282	PS65	0.015	0.711	0.636	0.025	OK
62.001	120 min Winter	86	PS65	S133	0.081	0.072	0.632	0.014	OK
1.014	15 min Winter	13	S133	S60	0.300	1.818	128.510	2.009	Surcharged
1.015	30 min Summer	20	S60	S96	0.300	1.826	129.043	2.023	Surcharged
63.000	15 min Winter	13	RE279A	PS436	0.100	0.230	1.803	0.282	Surcharged
63.001	15 min Winter	10	PS436	PS437	0.072	1.263	7.591	1.248	OK
64.000	15 min Summer	0	RE279B	PS439	0.000	0.000	0.000	0.000	OK
65.000	15 min Summer	0	GY281	PS439	0.000	0.000	0.000	0.000	OK
64.001	15 min Winter	10	PS439	PS437	0.022	0.000	0.000	0.000	OK
63.002	15 min Winter	10	PS437	S96	0.072	2.221	7.581	0.385	OK
66.000	720 min Winter	671	S122	S95	0.150	0.013	0.231	0.015	Surcharged
66.001	30 min Summer	17	S95	S96	0.150	1.044	17.880	1.214	Surcharged
1.016	30 min Summer	19	S96	S94	0.300	2.120	148.009	1.105	Surcharged
1.017	30 min Summer	17	S94	S62	0.300	3.175	172.299	1.102	Surcharged
67.000	30 min Winter	37	S160	S159	0.375	0.100	11.083	0.095	Surcharged
67.001	600 min Winter	559	S159	S62	0.375	0.127	14.003	0.126	Surcharged
1.018	15 min Winter	12	S62	S100	0.300	0.593	27.524	0.233	Surcharged
1.019	1440 min Winter	1390	S100	S63	0.023	0.823	1.706	0.021	OK

Return Period Yrs: 100.0

Climate Change %: 45

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
RWP299A	30 min Winter	25	5.450	0.300	0.000		Flood Risk
RE299A	30 min Winter	25	5.449	0.349	0.170		Flood Risk
ACO299	30 min Winter	25	5.448	0.328	0.000		Flood Risk
RWP299B	30 min Winter	25	5.448	0.298	0.000		Flood Risk
PS211	30 min Winter	25	5.448	0.423	0.669		Flood Risk
RWP299C	30 min Winter	24	5.447	0.297	0.000		Flood Risk
PS212	30 min Winter	24	5.447	0.547	1.410		Surcharged
ACO300	30 min Winter	23	5.460	0.340	0.068		Flood Risk
RWP300B	30 min Winter	23	5.460	0.310	0.066		Surcharged
RE300A	30 min Winter	23	5.460	0.360	0.200		Surcharged
PS209	30 min Winter	23	5.456	0.506	0.207		Surcharged
RWP299D	30 min Winter	23	5.454	0.304	0.000		Surcharged
PS210	30 min Winter	23	5.454	0.664	3.215		Surcharged
S64	30 min Winter	22	5.453	0.828	3.468		Surcharged
ACO297	30 min Winter	23	5.459	0.114	0.000		Surcharged
RWP297A	30 min Winter	23	5.459	0.084	0.000		OK
RE297A	30 min Winter	23	5.459	0.159	0.163		Surcharged
PS216	30 min Winter	23	5.456	0.281	0.247		Surcharged
ACO298	30 min Winter	22	5.456	0.111	0.000		Surcharged
RWP298A	30 min Winter	22	5.456	0.081	0.032		OK
RE298A	30 min Winter	22	5.456	0.156	0.052		Surcharged
PS214	30 min Winter	22	5.454	0.454	2.342		Surcharged
S123	30 min Winter	22	5.453	0.503	0.174		Flood Risk
S65	30 min Winter	22	5.452	0.977	6.010		Surcharged
DF297	30 min Winter	22	5.449	0.249	0.166		Surcharged
S125	30 min Winter	22	5.449	1.081	5.583		Surcharged
RWP303A	30 min Winter	22	5.843	0.193	0.041		Surcharged
PS351	30 min Winter	22	5.843	0.218	2.056		Surcharged
PS352	30 min Winter	23	5.823	0.398	1.866		Surcharged
RE303A	15 min Winter	11	5.846	0.196	4.377		Surcharged
PS354	30 min Winter	22	5.812	0.562	4.322		Surcharged
RE306A	15 min Winter	10	6.061	0.411	8.524		Flood Risk
RWP306B	15 min Winter	12	5.873	0.198	0.217		Surcharged
PS378	15 min Winter	12	5.872	0.472	5.738		Surcharged
RE306B	30 min Winter	22	5.809	0.159	0.117		Surcharged
DF306	30 min Winter	22	5.809	0.309	0.163		Surcharged
RWP306A	30 min Winter	22	5.808	0.133	0.103		Surcharged
PS39	30 min Winter	22	5.808	0.708	4.289		Surcharged
S97	30 min Winter	22	5.806	0.903	8.205		Surcharged
RE292A	30 min Winter	22	5.779	0.229	0.000		Surcharged
DF293	30 min Winter	22	5.778	0.278	0.163		Surcharged
PS387	30 min Winter	22	5.778	0.408	0.219		Surcharged
PS35	30 min Winter	22	5.778	0.578	0.239		Surcharged
RE291A	30 min Winter	22	5.779	0.329	0.000		Surcharged
PS386	30 min Winter	22	5.778	0.478	0.035		Surcharged
PS36	30 min Winter	22	5.777	0.657	0.335		Surcharged
S121	30 min Winter	22	5.777	0.292	0.169		Surcharged
S67	30 min Winter	22	5.776	0.976	21.981		Surcharged
S68	30 min Winter	22	5.442	1.267	27.706		Surcharged
S66	30 min Winter	21	5.413	1.308	31.665		Surcharged
RWP266A	15 min Winter	11	5.592	0.042	0.153		OK
RE266A	15 min Winter	11	5.592	0.092	1.699		OK
PS516	15 min Winter	11	5.587	0.187	1.314		Surcharged
RE266B	30 min Summer	19	5.582	0.007	0.000		OK
ACO266A	15 min Winter	11	5.582	0.012	0.000		OK
PS850	15 min Winter	11	5.581	0.281	1.017		Surcharged
GY267	15 min Winter	11	5.579	0.129	0.000		OK
RWP266B	-	0	5.600	0.000	0.000		OK
PS523	-	0	5.600	0.000	0.000		OK
PS521	15 min Winter	11	5.579	0.479	1.114		Surcharged
RE266C	-	0	5.700	0.000	0.000		OK
PS518	30 min Summer	18	5.575	0.550	1.261		Surcharged
S56	30 min Summer	18	5.574	0.898	44.724		Surcharged

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S57	30 min Summer	19	5.377	1.402	69.256		Surcharged
RE288B	30 min Summer	20	5.340	0.190	0.000		Surcharged
PS481	15 min Winter	12	5.334	0.434	0.385		Surcharged
RE288A	30 min Summer	19	5.338	0.113	0.043		Surcharged
DF290	30 min Summer	19	5.331	0.281	0.357		Surcharged
PS58	30 min Summer	19	5.331	0.631	2.321		Surcharged
PS851	-	0	5.375	0.000	0.000		OK
RE268A	30 min Summer	19	5.332	0.032	0.167		OK
RWP268G	-	0	5.375	0.000	0.000		OK
PS494	30 min Summer	19	5.330	0.230	0.430		Surcharged
PS495	30 min Summer	19	5.329	0.429	0.596		Surcharged
RWP268B	15 min Winter	9	5.375	0.000	0.000		OK
RE268B	15 min Winter	8	5.375	0.025	1.588		OK
RWP268A	-	0	5.375	0.000	0.000		OK
GY268A	30 min Summer	20	5.330	0.005	0.000		OK
RWP268D	-	0	5.375	0.000	0.000		OK
PS852	30 min Summer	19	5.329	0.154	0.325		Surcharged
PS492	30 min Summer	19	5.327	0.427	0.857		Surcharged
PS496	30 min Summer	19	5.328	0.528	0.644		Surcharged
S58	30 min Summer	19	5.328	1.398	84.038		Surcharged
RE287A	30 min Summer	20	5.207	0.207	0.201		Surcharged
RE285B	30 min Summer	20	5.208	0.183	0.149		Surcharged
PS469	30 min Summer	20	5.205	0.375	0.423		Surcharged
RE285A	30 min Summer	19	5.205	0.205	0.243		Surcharged
PS62(D)	30 min Summer	19	5.202	0.477	0.116		Surcharged
PS63	30 min Summer	19	5.202	0.552	3.531		Surcharged
DF287	30 min Summer	19	5.203	0.303	0.050		Surcharged
PS60	30 min Summer	19	5.203	0.453	0.038		Surcharged
PS61	30 min Summer	19	5.202	0.602	3.545		Surcharged
RE274A	30 min Summer	19	5.214	0.289	0.450		Flood Risk
PS585	30 min Summer	19	5.209	0.459	0.646		Flood Risk
RE271B	30 min Summer	19	5.205	0.255	0.000		Surcharged
DF269	30 min Summer	19	5.203	0.378	0.049		Flood Risk
PS69	30 min Summer	19	5.203	0.653	0.550		Surcharged
S59	30 min Summer	19	5.200	1.350	141.874		Flood Risk
GY285A	-	0	4.900	0.000	0.000		OK
PS466	-	0	4.975	0.000	0.000		OK
PS465	30 min Summer	20	4.767	0.117	0.158		Surcharged
GY283A	30 min Summer	20	4.764	0.014	0.187		OK
ACO283	30 min Summer	20	4.763	0.018	0.078		OK
PS463	-	0	4.775	0.000	0.000		OK
PS459	30 min Summer	20	4.764	0.314	0.550		Surcharged
RE284A	-	0	5.025	0.000	0.000		OK
PS460	30 min Summer	20	4.763	0.413	0.514		Surcharged
RE272A	-	0	4.775	0.000	0.000		OK
YG273	30 min Summer	20	4.762	0.092	0.000		OK
RWP273B	-	0	4.925	0.000	0.000		OK
PS575	30 min Summer	20	4.762	0.197	0.038		Surcharged
RE273A	-	0	4.875	0.000	0.000		OK
PS576	30 min Summer	20	4.763	0.313	0.083		Surcharged
S157	30 min Summer	20	4.763	1.015	135.571		Surcharged
RWP278A	960 min Winter	944	4.494	0.009	0.022		OK
RE278	960 min Winter	947	4.495	0.045	0.016		OK
PS563	960 min Winter	947	4.495	0.195	0.012		Surcharged
RWP278B	960 min Winter	943	4.495	0.010	0.011		OK
RE278B	960 min Winter	943	4.495	0.045	0.000		OK
DF277	960 min Winter	948	4.494	0.144	0.058		OK
PS70	960 min Winter	948	4.494	0.394	0.077		Surcharged
DF282	120 min Winter	97	4.519	0.019	0.774		OK
PS65	960 min Winter	948	4.494	0.244	0.039		Surcharged
S133	960 min Winter	948	4.494	0.850	1.586		Surcharged
S60	960 min Winter	944	4.494	0.890	1.767		Surcharged
RE279A	15 min Winter	10	5.072	0.487	0.589		Flood Risk
PS436	15 min Winter	10	5.071	0.571	10.194		Flood Risk
RE279B	-	0	4.500	0.000	0.000		OK
GY281	-	0	4.600	0.000	0.000		OK
PS439	960 min Winter	948	4.495	0.195	0.007		Surcharged
PS437	960 min Winter	946	4.494	0.294	0.036		Surcharged

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S122	960 min Winter	949	4.494	0.569	0.000		Surcharged
S95	960 min Winter	944	4.494	0.654	0.074		Surcharged
S96	960 min Winter	944	4.494	0.919	1.883		Surcharged
S94	960 min Winter	944	4.494	1.044	2.014		Flood Risk
S160	360 min Winter	265	4.530	1.180	0.000		Flood Risk
S159	960 min Winter	947	4.494	1.169	0.024		Flood Risk
S62	960 min Winter	945	4.494	1.194	1.926		Flood Risk
S100	960 min Winter	945	4.494	1.244	1.913		Flood Risk
S63	960 min Winter	945	3.174	0.024	1.913		Outfall

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
1.000	30 min Summer	33	RWP299A	RE299A	0.100	0.233	1.217	0.079	Surcharged
1.001	15 min Winter	23	RE299A	PS211	0.100	0.398	2.404	0.340	Surcharged
2.000	15 min Winter	22	ACO299	PS211	0.100	0.185	1.029	0.065	Surcharged
3.000	30 min Summer	33	RWP299B	PS211	0.100	0.239	1.300	0.058	Surcharged
1.002	15 min Winter	23	PS211	PS212	0.100	0.737	5.788	0.932	Surcharged
4.000	30 min Winter	33	RWP299C	PS212	0.100	0.507	2.592	0.109	Surcharged
1.003	15 min Winter	23	PS212	PS210	0.100	1.087	8.410	1.251	Surcharged
5.000	60 min Winter	48	ACO300	RE300A	0.100	0.296	1.109	0.202	Surcharged
6.000	30 min Summer	32	RWP300B	RE300A	0.100	0.542	2.709	0.149	Surcharged
5.001	15 min Winter	21	RE300A	PS209	0.100	0.426	3.345	0.478	Surcharged
5.002	15 min Winter	22	PS209	PS210	0.100	0.627	4.928	0.649	Surcharged
7.000	30 min Winter	32	RWP299D	PS210	0.100	0.261	1.476	0.057	Surcharged
1.004	15 min Winter	22	PS210	S64	0.150	0.944	13.468	0.741	Surcharged
1.005	15 min Winter	23	S64	S65	0.225	0.672	16.986	0.353	OK
8.000	30 min Winter	28	ACO297	RE297A	0.100	0.141	0.473	0.070	Surcharged
9.000	30 min Winter	27	RWP297A	RE297A	0.092	0.089	0.459	0.026	OK
8.001	30 min Winter	28	RE297A	PS216	0.100	0.218	1.600	0.249	Surcharged
8.002	15 min Winter	17	PS216	PS214	0.100	0.313	2.456	0.378	Surcharged
10.000	30 min Winter	28	ACO298	RE298A	0.100	0.160	0.436	0.060	Surcharged
11.000	30 min Winter	26	RWP298A	RE298A	0.090	0.076	0.408	0.022	OK
10.001	30 min Winter	27	RE298A	PS214	0.100	0.218	1.542	0.169	Surcharged
8.003	30 min Summer	16	PS214	S65	0.150	1.374	6.945	0.179	Surcharged
12.000	15 min Winter	22	S123	S65	0.150	0.557	3.817	0.167	Surcharged
1.006	15 min Winter	22	S65	S125	0.225	1.138	27.643	0.620	OK
13.000	30 min Winter	30	DF297	S125	0.150	1.082	1.627	0.029	Surcharged
1.007	15 min Winter	25	S125	S68	0.225	0.892	34.998	0.785	OK
14.000	30 min Winter	30	RWP303A	PS351	0.100	0.329	0.911	0.130	Surcharged
14.001	15 min Winter	9	PS351	PS352	0.100	0.919	6.173	0.996	Surcharged
14.002	15 min Winter	8	PS352	PS354	0.100	0.899	5.306	0.844	Surcharged
15.000	30 min Summer	17	RE303A	PS354	0.100	1.158	6.734	0.804	Surcharged
14.003	30 min Summer	15	PS354	S97	0.150	0.881	10.100	0.320	Surcharged
16.000	15 min Winter	8	RE306A	PS378	0.100	1.151	8.660	1.115	Surcharged
17.000	30 min Summer	28	RWP306B	PS378	0.100	0.239	1.127	0.044	Surcharged
16.001	30 min Summer	15	PS378	PS39	0.100	1.113	8.157	1.047	Surcharged
18.000	30 min Winter	29	RE306B	PS39	0.100	0.127	0.679	0.065	Surcharged
19.000	30 min Winter	31	DF306	PS39	0.150	0.677	1.572	0.054	Surcharged
20.000	30 min Winter	28	RWP306A	PS39	0.100	0.112	0.612	0.019	Surcharged
16.002	15 min Winter	7	PS39	S97	0.150	0.803	7.428	0.197	Surcharged
14.004	15 min Winter	23	S97	S67	0.150	0.725	12.819	0.849	Surcharged
21.000	15 min Winter	18	RE292A	PS387	0.100	0.202	1.027	0.147	Surcharged
22.000	30 min Winter	31	DF293	PS387	0.150	0.695	2.356	0.049	Surcharged
21.001	15 min Winter	18	PS387	PS35	0.150	0.494	3.064	0.145	Surcharged
21.002	15 min Winter	18	PS35	PS36	0.150	0.643	4.010	0.182	Surcharged
23.000	30 min Winter	32	RE291A	PS386	0.100	0.241	1.294	0.193	Surcharged
23.001	15 min Winter	20	PS386	PS36	0.100	0.361	2.836	0.414	Surcharged
21.003	15 min Winter	20	PS36	S67	0.150	0.463	8.185	0.163	Surcharged
24.000	30 min Winter	31	S121	S67	0.150	0.544	1.900	0.039	Surcharged
14.005	15 min Winter	6	S67	S68	0.150	1.731	28.847	1.024	Surcharged
1.008	15 min Winter	22	S68	S66	0.225	1.562	62.100	1.642	OK
1.009	15 min Winter	22	S66	S57	0.225	1.649	65.580	1.859	OK
25.000	15 min Winter	12	RWP266A	RE266A	0.067	0.141	0.324	0.020	OK
25.001	15 min Winter	11	RE266A	PS516	0.096	0.865	2.823	0.357	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
25.002	30 min Summer	20	PS516	PS850	0.100	1.032	3.287	0.475	Surcharged
26.000	30 min Summer	19	RE266B	PS850	0.053	0.021	0.090	0.009	OK
27.000	15 min Winter	12	ACO266A	PS850	0.056	0.015	0.041	0.001	OK
25.003	15 min Winter	13	PS850	PS521	0.100	1.436	5.003	0.324	Surcharged
28.000	15 min Winter	13	GY267	PS521	0.139	0.133	1.507	0.028	OK
29.000	15 min Summer	9	RWP266B	PS521	0.050	0.000	0.000	0.000	OK
30.000	15 min Summer	9	PS523	PS521	0.050	0.000	0.000	0.000	OK
25.004	15 min Winter	13	PS521	PS518	0.150	0.768	7.885	0.529	Surcharged
31.000	15 min Summer	8	RE266C	PS518	0.050	0.000	0.000	0.000	OK
25.005	15 min Winter	13	PS518	S56	0.150	0.687	9.441	0.222	Surcharged
25.006	15 min Winter	9	S56	S57	0.225	1.392	48.002	0.672	OK
1.010	15 min Winter	20	S57	S58	0.300	1.136	80.281	1.255	Surcharged
32.000	30 min Summer	24	RE288B	PS481	0.100	0.185	0.991	0.125	Surcharged
32.001	15 min Winter	15	PS481	PS58	0.100	0.329	2.581	0.383	Surcharged
33.000	30 min Summer	21	RE288A	PS58	0.100	0.126	0.763	0.073	Surcharged
34.000	30 min Winter	27	DF290	PS58	0.150	1.100	1.608	0.024	Surcharged
32.002	15 min Winter	16	PS58	S58	0.150	0.915	6.447	0.136	Surcharged
35.000	15 min Summer	0	PS851	RE268A	0.000	0.000	0.000	0.000	OK
35.001	30 min Summer	20	RE268A	PS494	0.091	0.026	0.275	0.008	OK
36.000	15 min Winter	10	RWP268G	PS494	0.050	0.000	0.000	0.000	OK
35.002	30 min Summer	24	PS494	PS495	0.150	0.100	1.292	0.043	Surcharged
35.003	15 min Winter	15	PS495	PS496	0.150	0.170	2.993	0.133	Surcharged
37.000	15 min Winter	9	RWP268B	RE268B	0.013	0.001	0.000	0.000	OK
37.001	15 min Winter	9	RE268B	PS492	0.062	0.989	1.572	0.139	OK
38.000	30 min Summer	19	RWP268A	PS852	0.050	0.000	0.000	0.000	OK
39.000	30 min Summer	20	GY268A	PS852	0.077	0.031	0.100	0.002	OK
40.000	30 min Summer	19	RWP268D	PS852	0.050	0.000	0.000	0.000	OK
38.001	30 min Summer	23	PS852	PS492	0.150	0.081	0.940	0.032	Surcharged
37.002	15 min Winter	17	PS492	PS496	0.150	0.712	2.988	0.124	Surcharged
35.004	15 min Winter	15	PS496	S58	0.150	0.703	7.486	0.301	Surcharged
1.011	15 min Winter	20	S58	S59	0.300	1.248	88.183	1.397	Surcharged
41.000	30 min Winter	26	RE287A	PS469	0.100	0.168	0.965	0.131	Surcharged
42.000	30 min Summer	24	RE285B	PS469	0.100	0.149	0.886	0.107	Surcharged
41.001	15 min Winter	16	PS469	PS63	0.100	0.468	3.677	0.602	Surcharged
43.000	30 min Summer	24	RE285A	PS63	0.100	0.158	0.941	0.096	Surcharged
44.000	15 min Winter	17	PS62(D)	PS63	0.150	0.491	2.351	0.085	Surcharged
41.002	15 min Winter	16	PS63	PS61	0.150	0.417	7.369	0.447	Surcharged
45.000	15 min Winter	16	DF287	PS60	0.150	0.647	1.656	0.044	Surcharged
45.001	15 min Winter	16	PS60	PS61	0.150	0.442	3.218	0.135	Surcharged
41.003	15 min Winter	16	PS61	S59	0.150	0.690	12.202	0.500	Surcharged
46.000	15 min Winter	16	RE274A	PS585	0.100	0.195	1.407	0.228	Surcharged
46.001	15 min Winter	16	PS585	PS69	0.100	0.365	2.868	0.427	Surcharged
47.000	15 min Winter	15	RE271B	PS69	0.100	0.229	1.325	0.151	Surcharged
48.000	15 min Winter	17	DF269	PS69	0.150	0.931	2.272	0.048	Surcharged
46.002	15 min Winter	16	PS69	S59	0.150	1.018	7.561	0.131	Surcharged
1.012	15 min Winter	9	S59	S157	0.300	2.056	145.301	2.273	Surcharged
49.000	30 min Summer	19	GY285A	PS465	0.050	0.000	0.000	0.000	OK
50.000	30 min Summer	19	PS466	PS465	0.050	0.000	0.000	0.000	OK
49.001	30 min Winter	25	PS465	PS459	0.100	0.108	0.623	0.084	Surcharged
51.000	30 min Summer	21	GY283A	PS459	0.082	0.034	0.325	0.006	OK
52.000	30 min Summer	21	ACO283	PS459	0.059	0.065	0.291	0.014	OK
53.000	15 min Summer	10	PS463	PS459	0.050	0.000	0.000	0.000	OK
49.002	15 min Winter	17	PS459	PS460	0.150	0.218	2.072	0.124	Surcharged
54.000	15 min Summer	0	RE284A	PS460	0.000	0.000	0.000	0.000	OK
49.003	15 min Winter	17	PS460	S157	0.150	0.193	3.403	0.066	Surcharged
55.000	15 min Winter	11	RE272A	PS575	0.050	0.000	0.000	0.000	OK
56.000	30 min Summer	23	YG273	PS575	0.121	0.060	0.617	0.014	OK
57.000	15 min Winter	11	RWP273B	PS575	0.050	0.000	0.000	0.000	OK
55.001	30 min Winter	25	PS575	PS576	0.150	0.166	1.438	0.084	Surcharged
58.000	15 min Summer	10	RE273A	PS576	0.050	0.000	0.000	0.000	OK
55.002	15 min Winter	16	PS576	S157	0.150	0.181	2.938	0.037	Surcharged
1.013	15 min Winter	13	S157	S133	0.300	1.927	136.223	2.131	Surcharged
59.000	960 min Winter	958	RWP278A	RE278	0.027	0.023	0.034	0.003	OK
59.001	960 min Winter	961	RE278	PS563	0.072	0.009	0.045	0.007	OK
59.002	960 min Winter	1087	PS563	PS70	0.100	0.008	0.060	0.009	Surcharged
60.000	960 min Winter	989	RWP278B	RE278B	0.027	0.028	0.035	0.004	OK
60.001	960 min Winter	1139	RE278B	PS70	0.072	0.010	0.048	0.005	OK
61.000	960 min Winter	948	DF277	PS70	0.147	0.947	0.475	0.009	OK

Conduits

Pipe No.	Critical Storm	Peak (mins)	US Manhole	DS Manhole	Flow Depth (m)	Max Velocity (m/s)	Max Flow (l/s)	Flow / Capacity	Status
59.003	720 min Summer	487	PS70	S133	0.150	0.933	3.898	0.070	Surcharged
62.000	960 min Winter	715	DF282	PS65	0.079	0.598	0.359	0.014	OK
62.001	720 min Summer	671	PS65	S133	0.150	0.774	0.527	0.011	Surcharged
1.014	15 min Winter	14	S133	S60	0.300	1.960	138.531	2.165	Surcharged
1.015	15 min Winter	14	S60	S96	0.300	1.988	140.496	2.203	Surcharged
63.000	15 min Winter	14	RE279A	PS436	0.100	0.314	2.427	0.380	Surcharged
63.001	30 min Summer	19	PS436	PS437	0.075	1.430	9.040	1.486	OK
64.000	480 min Winter	459	RE279B	PS439	0.050	0.000	0.000	0.000	OK
65.000	480 min Winter	459	GY281	PS439	0.050	0.000	0.000	0.000	OK
64.001	960 min Winter	1250	PS439	PS437	0.100	0.009	0.065	0.010	Surcharged
63.002	720 min Summer	528	PS437	S96	0.100	1.410	1.567	0.080	Surcharged
66.000	15 min Winter	12	S122	S95	0.150	0.129	2.184	0.146	Surcharged
66.001	15 min Winter	9	S95	S96	0.150	1.239	21.903	1.487	Surcharged
1.016	15 min Winter	12	S96	S94	0.300	2.317	163.778	1.222	Surcharged
1.017	15 min Winter	11	S94	S62	0.300	4.080	194.871	1.246	Surcharged
67.000	720 min Winter	465	S160	S159	0.375	0.273	30.141	0.260	Surcharged
67.001	600 min Winter	407	S159	S62	0.375	0.442	48.776	0.439	Surcharged
1.018	30 min Winter	16	S62	S100	0.300	0.518	23.733	0.201	Surcharged
1.019	960 min Winter	945	S100	S63	0.024	0.848	1.913	0.024	OK