

Network Details

Manhole Schedule

Manhole	Catchment Area (ha)	Diameter (m)	Type	CL (m)	IL (m)	Depth To Soffit (m)	Easting (m)	Northing (m)
RWP87A	0.000	0.180	Type E	6.049	5.500	0.449	488755.752	98262.791
RE85A	0.000	0.180	Type E	6.011	5.475	0.436	488753.837	98262.701
PS52	0.000	0.250	250	6.005	5.400	0.505	488751.856	98268.105
PS53	0.000	0.450	450	6.165	5.250	0.815	488763.642	98272.662
RWP85A	0.000	0.180	Type E	6.049	5.500	0.449	488757.717	98257.830
RE85B	0.000	0.180	Type E	6.018	5.475	0.443	488756.343	98256.746
PS50	0.000	0.250	250	5.972	5.400	0.472	488758.275	98251.804
PS48	0.000	0.450	450	6.099	5.250	0.749	488769.918	98256.419
RWP86A	0.000	0.180	Type E	6.199	5.500	0.599	488766.864	98261.607
PS49	0.000	0.450	450	6.187	5.050	0.987	488767.565	98262.453
S114 (D)	0.033	1.350	Type E	6.075	5.500	0.425	488780.507	98265.906
PS47	0.000	0.180	Type E	6.084	4.950	0.984	488779.953	98267.104
S116 (D)	0.015	1.350	Type E	6.214	5.650	0.414	488771.543	98283.910
S49	0.033	1.350	Type C	6.179	5.000	1.029	488774.922	98285.232
S115	0.000	1.350	Type C	6.052	4.870	1.032	488782.812	98267.633
RWP84A	0.000	0.180	Type E	5.949	5.400	0.449	488760.059	98251.389
RE84A	0.000	0.180	Type E	5.910	5.375	0.435	488759.632	98246.767
PS56	0.000	0.250	Unknown	6.013	5.200	0.713	488765.293	98233.069
PS55	0.000	0.450	450	5.986	5.025	0.861	488776.800	98237.854
RWP84B	0.000	0.180	Type E	5.978	5.400	0.478	488768.637	98255.070
RE84B	0.000	0.180	Type E	6.097	5.375	0.622	488770.191	98255.579
PS54	0.000	0.450	450	6.075	4.900	1.025	488774.150	98245.028
S113 (D)	0.038	1.350	Type E	5.943	5.400	0.393	488788.620	98249.899
PS46	0.000	0.450	450	5.951	4.800	1.001	488787.518	98251.221
YG80A	0.000	0.180	Type E	6.007	5.500	0.407	488790.999	98272.230
RWP80A	0.000	0.180	Type E	6.011	5.500	0.411	488791.996	98271.003
RE80A	0.000	0.180	Type E	6.059	5.400	0.559	488790.912	98271.138
RWP80B	0.000	0.180	Type E	6.009	5.500	0.409	488795.753	98262.297
PS240	0.000	0.450	450	6.087	5.006	0.930	488794.218	98262.812
S50	0.017	1.350	Type C	5.951	4.620	1.031	488788.907	98253.971
S51	0.030	1.350	Type C	5.875	4.575	1.000	488800.672	98250.367
S52	0.114	1.350	Type C	5.666	4.475	0.891	488831.128	98265.460
YG94A	0.000	0.180	Type E	6.036	5.450	0.486	488805.106	98303.246
RWP95C	0.000	0.180	Type E	6.032	5.575	0.357	488804.765	98305.804
PS253	0.000	0.250	250	6.035	5.400	0.535	488805.645	98304.802
PS252	0.000	0.450	450	6.038	5.200	0.738	488816.389	98309.964
RWP95A	0.000	0.180	Type E	6.101	5.575	0.426	488800.565	98314.170
RE95A	0.000	0.180	Type E	6.316	5.400	0.816	488799.734	98315.946
PS251	0.000	0.450	450	6.092	5.000	0.942	488811.195	98321.936
S103	0.041	1.350	Type C	6.263	4.860	1.178	488782.416	98314.272
RWP109A	0.000	0.180	Type E	5.990	5.400	0.490	488792.994	98338.782
ACO109A	0.000	0.180	Type E	5.955	5.400	0.455	488791.818	98339.746
PS147	0.000	0.250	250	5.977	5.350	0.527	488792.653	98340.107
PS148	0.000	0.250	250	5.832	5.150	0.582	488805.372	98346.748
RWP109C	0.000	0.180	Type E	6.033	5.400	0.533	488797.144	98330.420
RE109A	0.000	0.180	Type E	6.084	5.300	0.684	488799.086	98327.471
PS149	0.000	0.450	450	5.987	4.921	0.916	488812.027	98334.321
S104	0.167	1.350	Type C	5.849	4.630	0.919	488813.482	98330.734
RWP106A	0.000	0.180	Type E	5.680	5.200	0.380	488810.015	98348.698
ACO106A	0.000	0.180	Type E	5.652	5.150	0.402	488808.638	98349.775
PS146	0.000	0.250	250	5.675	5.100	0.475	488809.318	98349.877
PS144	0.000	0.250	250	5.627	4.925	0.552	488819.063	98356.413
RWP106C	0.000	0.180	Type E	5.718	5.200	0.418	488815.220	98340.945
RE106A	0.000	0.180	Type E	5.876	5.100	0.676	488818.615	98338.516
PS145	0.000	0.450	450	5.743	4.800	0.793	488827.544	98344.830
S120	0.004	1.350	Type C	5.665	4.475	0.815	488828.576	98339.599
S136	0.000	1.350	Type C	5.532	4.448	0.708	488839.378	98335.282
RWP97B	0.000	0.180	Type E	6.100	5.300	0.700	488817.525	98323.031
RE97B	0.000	0.180	Type E	6.047	5.200	0.747	488816.749	98325.181
PS244	0.000	0.450	450	5.932	5.000	0.832	488830.655	98333.694
YG97A	0.000	0.180	Type E	5.930	5.200	0.630	488822.882	98313.779
RWP99A	0.000	0.180	Type E	5.957	5.300	0.557	488836.074	98323.978
PS245	0.000	0.450	450	5.851	4.800	0.901	488838.458	98323.698
S55	0.032	1.350	Type C	5.587	4.421	0.791	488845.548	98326.855

Manhole Schedule

Manhole	Catchment Area (ha)	Diameter (m)	Type	CL (m)	IL (m)	Depth To Soffit (m)	Easting (m)	Northing (m)
RWP66A	0.000	0.180	Type E	5.775	5.200	0.475	488874.605	98311.381
RE66A	0.000	0.180	Type E	5.746	5.100	0.546	488875.681	98312.087
PS198	0.000	0.450	450	5.762	4.900	0.762	488866.667	98322.650
RWP66C	0.000	0.180	Type E	5.824	5.200	0.524	488866.506	98304.403
PS202	0.000	0.180	Type E	6.007	5.009	0.898	488864.573	98303.949
S117 (D)	0.023	1.350	Type E	5.657	5.150	0.357	488860.432	98325.222
PS203	0.000	0.450	450	5.800	4.600	1.050	488856.288	98314.169
YG99B	0.000	0.180	Type E	5.780	4.950	0.680	488842.212	98314.877
S56	0.000	1.350	Type C	5.815	4.376	1.105	488853.986	98312.581
RWP63A	0.000	0.180	Type E	5.749	5.100	0.549	488883.494	98337.898
RE68A	0.000	0.180	Type E	5.752	5.000	0.652	488882.819	98338.480
PS186	0.000	0.450	450	5.796	4.900	0.746	488886.430	98342.872
RWP64B	0.000	0.180	Type E	5.899	5.100	0.699	488890.492	98331.720
PS185	0.000	0.450	450	5.886	4.800	0.936	488894.800	98335.811
S69	0.000	1.350	Type C	5.782	4.575	0.907	488897.492	98331.603
RWP64A	0.000	0.180	Type E	5.749	5.100	0.549	488880.559	98334.463
RE65A	0.000	0.180	Type E	5.740	5.000	0.640	488879.916	98334.997
S118 (D)	0.013	1.350	Type E	5.695	5.000	0.545	488875.382	98326.561
PS196	0.000	0.450	450	5.745	4.850	0.745	488876.130	98330.625
RWP64C	0.000	0.180	Type E	5.897	5.100	0.697	488887.557	98328.286
PS193	0.000	0.450	450	5.789	4.750	0.889	488882.647	98321.014
S59	0.046	1.350	Type C	5.677	4.520	0.857	488886.776	98318.155
S60	0.000	1.350	Type C	5.559	4.465	0.794	488876.543	98301.935
S57	0.000	1.350	Type C	5.901	4.345	1.181	488859.887	98297.108
S53	0.000	1.350	Type C	5.844	4.320	1.149	488855.055	98286.551
S54	0.000	0.000	Type C	5.700	4.300	1.025	488861.058	98278.808
S65	0.056	0.000	Type C	5.700	4.250	1.075	488847.611	98259.247
S66	0.000	1.350	Type C	5.687	4.225	1.087	488841.958	98252.074
S67	0.000	0.000	Type C	5.500	4.150	0.975	488818.301	98227.930
S71	0.052	0.000	Type C	5.500	4.100	1.100	488789.869	98216.977
RE153A	0.000	0.180	Type E	5.695	5.050	0.545	488716.438	98239.228
PS31	0.000	0.450	450	5.681	4.675	0.856	488724.218	98218.945
RE153B	0.000	0.180	Type E	5.604	5.000	0.504	488725.345	98243.236
RWP153H	0.000	0.180	Type E	5.611	5.100	0.411	488734.630	98236.176
PS34	0.000	0.450	450	5.576	4.750	0.726	488735.894	98237.478
PS35	0.000	0.450	450	5.602	4.550	0.902	488740.930	98226.806
S15 (D)	0.068	0.600	Type E	5.478	4.800	0.528	488741.842	98237.404
S14	0.000	0.600	Type E	5.705	4.400	1.080	488751.498	98231.792
S72	0.000	1.350	Type C	5.405	4.050	1.130	488786.436	98212.340
S73	0.000	0.000	Type C	4.390	4.000	0.165	488786.164	98207.432

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)	DS Depth To Soffit (m)
1.000	RWP87A	5.500	RE85A	5.475	Circ	0.1mØ	1.917	76.7	0.600	0.449	0.436
1.001	RE85A	5.475	PS52	5.400	Circ	0.1mØ	5.755	76.7	0.600	0.436	0.505
1.002	PS52	5.400	PS53	5.250	Circ	0.1mØ	12.637	84.2	0.600	0.505	0.815
1.003	PS53	5.250	PS49	5.100	Circ	0.1mØ	10.937	72.9	0.600	0.815	0.987
2.000	RWP85A	5.500	RE85B	5.475	Circ	0.1mØ	1.750	70.0	0.600	0.449	0.443
2.001	RE85B	5.475	PS50	5.400	Circ	0.1mØ	5.307	70.8	0.600	0.443	0.472
2.002	PS50	5.400	PS48	5.250	Circ	0.1mØ	12.524	83.5	0.600	0.472	0.749
2.003	PS48	5.250	PS49	5.100	Circ	0.1mØ	6.477	43.2	0.600	0.749	0.987
3.000	RWP86A	5.500	PS49	5.100	Circ	0.1mØ	1.098	2.7	0.600	0.599	0.987
1.004	PS49	5.050	PS47	4.950	Circ	0.15mØ	13.232	132.3	0.600	0.987	0.984
4.000	S114 (D)	5.500	PS47	4.950	Circ	0.15mØ	1.320	2.4	0.600	0.425	0.984
1.005	PS47	4.950	S115	4.870	Circ	0.15mØ	2.908	36.3	0.600	0.984	1.032
5.000	S116 (D)	5.650	S49	5.000	Circ	0.15mØ	3.629	5.6	0.600	0.414	1.029
5.001	S49	5.000	S115	4.870	Circ	0.15mØ	19.286	148.4	0.600	1.029	1.032
1.006	S115	4.870	S50	4.770	Circ	0.15mØ	14.961	149.6	0.600	1.032	1.031
6.000	RWP84A	5.400	RE84A	5.375	Circ	0.1mØ	4.641	185.6	0.600	0.449	0.435
6.001	RE84A	5.375	PS56	5.200	Circ	0.1mØ	14.822	84.7	0.600	0.435	0.713
6.002	PS56	5.200	PS55	5.025	Circ	0.1mØ	12.462	71.2	0.600	0.713	0.861
6.003	PS55	5.025	PS54	4.950	Circ	0.1mØ	7.647	102.0	0.600	0.861	1.025
7.000	RWP84B	5.400	RE84B	5.375	Circ	0.1mØ	1.636	65.4	0.600	0.478	0.622
7.001	RE84B	5.375	PS54	4.950	Circ	0.1mØ	11.270	26.5	0.600	0.622	1.025

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)	DS Depth To Soffit (m)
6.004	PS54	4.900	PS46	4.800	Circ	0.15mØ	14.733	147.3	0.600	1.025	1.001
8.000	S113 (D)	5.400	PS46	4.800	Circ	0.15mØ	1.721	2.9	0.600	0.393	1.001
6.005	PS46	4.800	S50	4.770	Circ	0.15mØ	3.080	102.7	0.600	1.001	1.031
9.000	YG80A	5.500	RE80A	5.400	Circ	0.1mØ	1.095	11.0	0.600	0.407	0.559
10.000	RWP80A	5.500	RE80A	5.400	Circ	0.1mØ	1.093	10.9	0.600	0.411	0.559
9.001	RE80A	5.400	PS240	5.056	Circ	0.1mØ	8.958	26.1	0.600	0.559	0.930
11.000	RWP80B	5.500	PS240	5.056	Circ	0.1mØ	1.619	3.7	0.600	0.409	0.930
9.002	PS240	5.006	S50	4.770	Circ	0.15mØ	10.314	43.6	0.600	0.930	1.031
1.007	S50	4.620	S51	4.575	Circ	0.3mØ	12.305	273.4	0.600	1.031	1.000
1.008	S51	4.575	S52	4.475	Circ	0.3mØ	33.991	339.9	0.600	1.000	0.891
1.009	S52	4.475	S53	4.395	Circ	0.3mØ	31.895	398.7	0.600	0.891	1.149
12.000	YG94A	5.450	PS253	5.400	Circ	0.1mØ	1.646	32.9	0.600	0.486	0.535
13.000	RWP95C	5.575	PS253	5.400	Circ	0.1mØ	1.334	7.6	0.600	0.357	0.535
12.001	PS253	5.400	PS252	5.200	Circ	0.1mØ	11.920	59.6	0.600	0.535	0.738
12.002	PS252	5.200	PS251	5.050	Circ	0.1mØ	13.050	87.0	0.600	0.738	0.942
14.000	RWP95A	5.575	RE95A	5.400	Circ	0.1mØ	1.961	11.2	0.600	0.426	0.816
14.001	RE95A	5.400	PS251	5.050	Circ	0.1mØ	12.932	36.9	0.600	0.816	0.942
12.003	PS251	5.000	S104	4.780	Circ	0.15mØ	9.090	41.3	0.600	0.942	0.919
15.000	S103	4.860	S104	4.705	Circ	0.225mØ	35.158	226.8	0.600	1.178	0.919
16.000	RWP109A	5.400	PS147	5.350	Circ	0.1mØ	1.368	27.4	0.600	0.490	0.527
17.000	ACO109A	5.400	PS147	5.350	Circ	0.1mØ	0.910	18.2	0.600	0.455	0.527
16.001	PS147	5.350	PS148	5.150	Circ	0.1mØ	14.348	71.7	0.600	0.527	0.582
16.002	PS148	5.150	PS149	4.971	Circ	0.1mØ	14.098	78.6	0.600	0.582	0.916
18.000	RWP109C	5.400	RE109A	5.300	Circ	0.1mØ	3.532	35.3	0.600	0.533	0.684
18.001	RE109A	5.300	PS149	4.971	Circ	0.1mØ	14.642	44.5	0.600	0.684	0.916
16.003	PS149	4.921	S104	4.780	Circ	0.15mØ	3.871	27.5	0.600	0.916	0.919
12.004	S104	4.630	S120	4.550	Circ	0.3mØ	17.505	218.8	0.600	0.919	0.815
19.000	RWP106A	5.200	PS146	5.100	Circ	0.1mØ	1.369	13.7	0.600	0.380	0.475
20.000	ACO106A	5.150	PS146	5.100	Circ	0.1mØ	0.688	13.8	0.600	0.402	0.475
19.001	PS146	5.100	PS144	4.975	Circ	0.1mØ	11.734	93.9	0.600	0.475	0.552
19.002	PS144	4.925	PS145	4.800	Circ	0.15mØ	14.356	114.8	0.600	0.552	0.793
21.000	RWP106C	5.200	RE106A	5.100	Circ	0.1mØ	4.174	41.7	0.600	0.418	0.676
21.001	RE106A	5.100	PS145	4.850	Circ	0.1mØ	10.936	43.7	0.600	0.676	0.793
19.003	PS145	4.800	S120	4.700	Circ	0.15mØ	5.332	53.3	0.600	0.793	0.815
12.005	S120	4.475	S136	4.448	Circ	0.375mØ	11.633	433.1	0.600	0.815	0.708
12.006	S136	4.448	S55	4.421	Circ	0.375mØ	10.445	379.3	0.600	0.708	0.791
22.000	RWP97B	5.300	RE97B	5.200	Circ	0.1mØ	2.285	22.9	0.600	0.700	0.747
22.001	RE97B	5.200	PS244	5.000	Circ	0.1mØ	16.305	81.5	0.600	0.747	0.832
22.002	PS244	5.000	PS245	4.850	Circ	0.1mØ	12.681	84.5	0.600	0.832	0.901
23.000	YG97A	5.200	PS245	5.179	Circ	0.1mØ	18.465	868.4	0.600	0.630	0.572
24.000	RWP99A	5.300	PS245	4.850	Circ	0.1mØ	2.399	5.3	0.600	0.557	0.901
22.003	PS245	4.800	S55	4.646	Circ	0.15mØ	7.762	50.3	0.600	0.901	0.791
12.007	S55	4.421	S56	4.376	Circ	0.375mØ	16.581	375.0	0.600	0.791	1.064
25.000	RWP66A	5.200	RE66A	5.100	Circ	0.1mØ	1.287	12.9	0.600	0.475	0.546
25.001	RE66A	5.100	PS198	4.900	Circ	0.1mØ	13.886	69.4	0.600	0.546	0.762
25.002	PS198	4.900	PS203	4.650	Circ	0.1mØ	13.404	53.6	0.600	0.762	1.050
26.000	RWP66C	5.200	PS202	5.009	Circ	0.1mØ	1.986	10.4	0.600	0.524	0.898
26.001	PS202	5.009	PS203	4.650	Circ	0.1mØ	13.156	36.6	0.600	0.898	1.050
27.000	S117 (D)	5.150	PS203	4.600	Circ	0.15mØ	11.805	21.5	0.600	0.357	1.050
25.003	PS203	4.600	S56	4.560	Circ	0.15mØ	2.797	69.9	0.600	1.050	1.105
28.000	YG99B	4.950	S56	4.601	Circ	0.15mØ	11.995	34.4	0.600	0.680	1.064
12.008	S56	4.376	S57	4.345	Circ	0.375mØ	16.560	527.6	0.600	1.064	1.181
29.000	RWP63A	5.100	RE68A	5.000	Circ	0.1mØ	0.891	8.9	0.600	0.549	0.652
29.001	RE68A	5.000	PS186	4.950	Circ	0.1mØ	5.686	113.7	0.600	0.652	0.746
29.002	PS186	4.900	PS185	4.800	Circ	0.15mØ	10.951	109.5	0.600	0.746	0.936
30.000	RWP64B	5.100	PS185	4.850	Circ	0.1mØ	5.941	23.8	0.600	0.699	0.936
29.003	PS185	4.800	S69	4.725	Circ	0.15mØ	4.995	66.6	0.600	0.936	0.907
29.004	S69	4.575	S59	4.520	Circ	0.3mØ	17.195	312.6	0.600	0.907	0.857
31.000	RWP64A	5.100	RE65A	5.000	Circ	0.1mØ	0.836	8.4	0.600	0.549	0.640
31.001	RE65A	5.000	PS196	4.900	Circ	0.1mØ	5.783	57.8	0.600	0.640	0.745
32.000	S118 (D)	5.000	PS196	4.850	Circ	0.15mØ	4.132	27.5	0.600	0.545	0.745
31.002	PS196	4.850	PS193	4.750	Circ	0.15mØ	11.611	116.1	0.600	0.745	0.889
33.000	RWP64C	5.100	PS193	4.800	Circ	0.1mØ	8.774	29.2	0.600	0.697	0.889
31.003	PS193	4.750	S59	4.670	Circ	0.15mØ	5.022	62.8	0.600	0.889	0.857
29.005	S59	4.520	S60	4.465	Circ	0.3mØ	19.178	348.7	0.600	0.857	0.794
29.006	S60	4.465	S57	4.420	Circ	0.3mØ	17.341	385.4	0.600	0.794	1.181
12.009	S57	4.345	S53	4.320	Circ	0.375mØ	11.610	464.4	0.600	1.181	1.149
1.010	S53	4.320	S54	4.300	Circ	0.375mØ	9.798	489.9	0.600	1.149	1.025

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)	DS Depth To Soffit (m)
1.011	S54	4.300	S65	4.250	Circ	0.375mØ	23.737	474.7	0.600	1.025	1.075
1.012	S65	4.250	S66	4.225	Circ	0.375mØ	9.133	365.3	0.600	1.075	1.087
1.013	S66	4.225	S67	4.150	Circ	0.375mØ	33.802	450.7	0.600	1.087	0.975
1.014	S67	4.150	S71	4.100	Circ	0.375mØ	30.468	609.4	0.600	0.975	1.025
1.015	S71	4.100	S72	4.050	Circ	0.3mØ	5.770	115.4	0.600	1.100	1.055
34.000	RE153A	5.050	PS31	4.725	Circ	0.1mØ	21.724	66.8	0.600	0.545	0.856
34.001	PS31	4.675	PS35	4.550	Circ	0.15mØ	18.468	147.7	0.600	0.856	0.902
35.000	RE153B	5.000	PS34	4.750	Circ	0.1mØ	12.018	48.1	0.600	0.504	0.726
36.000	RWP153H	5.100	PS34	4.750	Circ	0.1mØ	1.815	5.2	0.600	0.411	0.726
35.001	PS34	4.750	PS35	4.600	Circ	0.1mØ	11.801	78.7	0.600	0.726	0.902
34.002	PS35	4.550	S14	4.475	Circ	0.15mØ	11.685	155.8	0.600	0.902	1.080
37.000	S15 (D)	4.800	S14	4.475	Circ	0.15mØ	11.168	34.4	0.600	0.528	1.080
34.003	S14	4.400	S72	4.050	Circ	0.225mØ	39.988	114.3	0.600	1.080	1.130
1.016	S72	4.050	S73	4.000	Circ	0.225mØ	4.916	98.3	0.600	1.130	0.165

Permeable Paving Schedule

Permeable Paving	Assigned Manhole	Effective Storage Volume (m3)	CL (m)	IL (m)	Storage Infil Rate (m/hr)	Safety Factor	Easting (m)	Northing (m)
S114	S114 (D)	20.885	6.075	5.495	0.00000000	2.00	488774.547	98266.179
S116	S116 (D)	19.846	6.214	5.634	0.00000000	2.00	488767.409	98283.545
S113	S113 (D)	25.325	5.943	5.363	0.00000000	2.00	488781.601	98249.474
S117	S117 (D)	12.445	5.657	5.077	0.00000000	2.00	488858.982	98319.824
S118	S118 (D)	8.064	5.695	5.115	0.00000000	2.00	488879.456	98325.389
S15	S15 (D)	57.926	5.478	4.898	0.00000000	2.00	488746.140	98236.442

Outfall Details

Outfall Manhole S73 : Surcharged (Constant Level)

Surcharged Constant

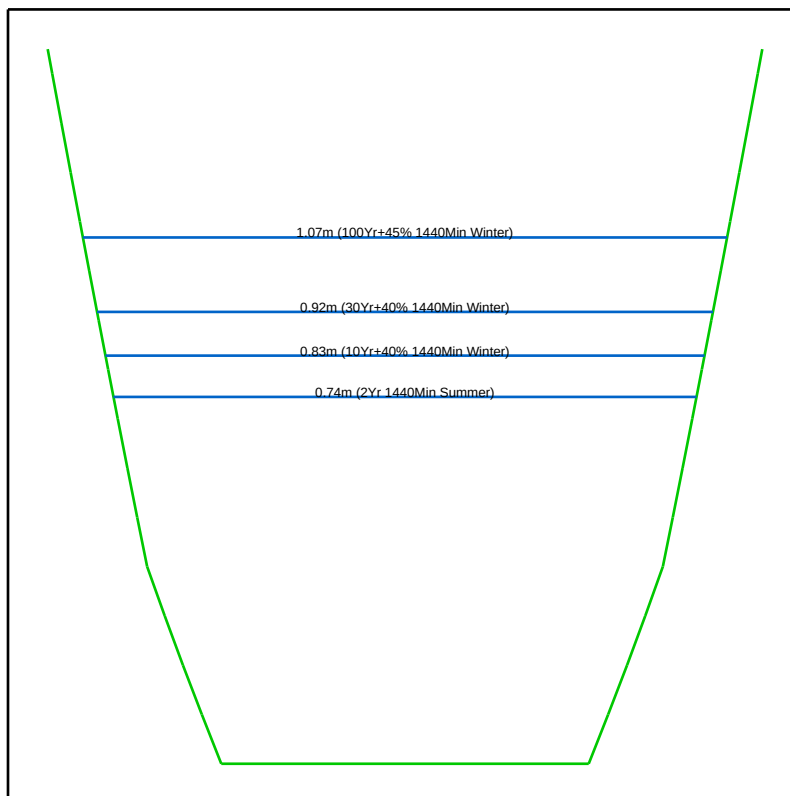
Water Elevation (m)	Water Depth (m)
5.000	1.000

Flow Control Details

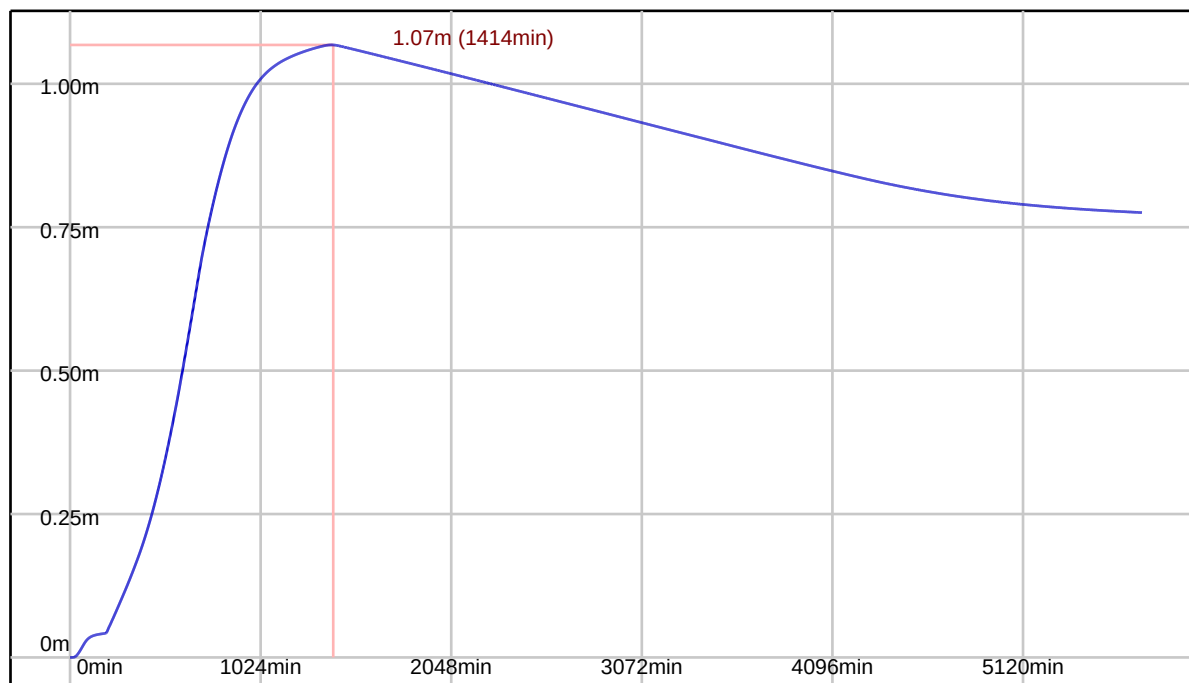
Pond Structure at Manhole S65

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
4.250	1.450	348.349	5.350	0.350	0.00000000	0.00000000	2.00

Pond Depth/Area Diagram at S65



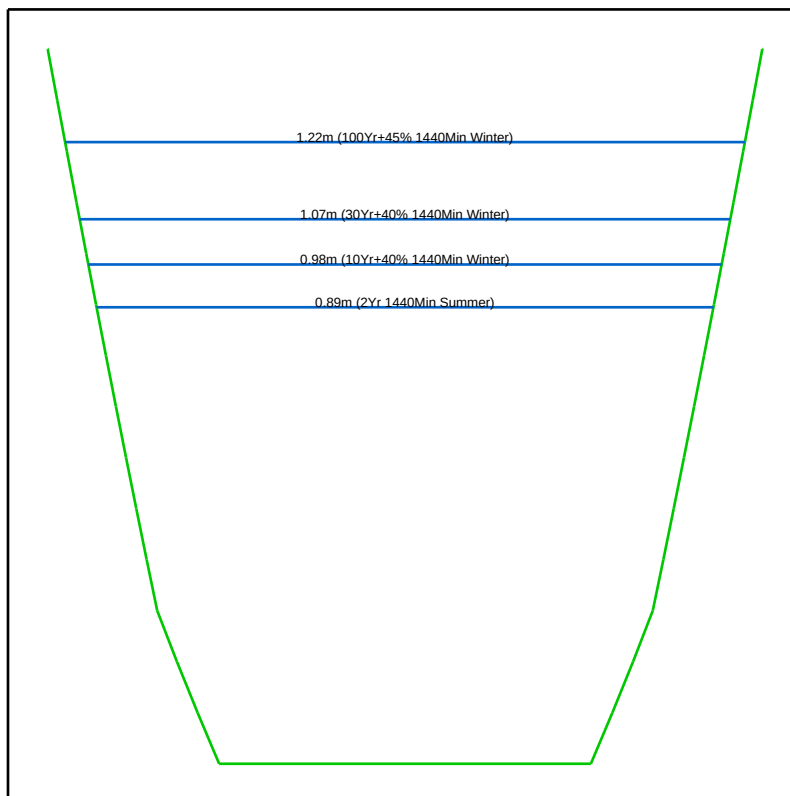
Pond at S65 (100Yr+45% 1440Min Winter)



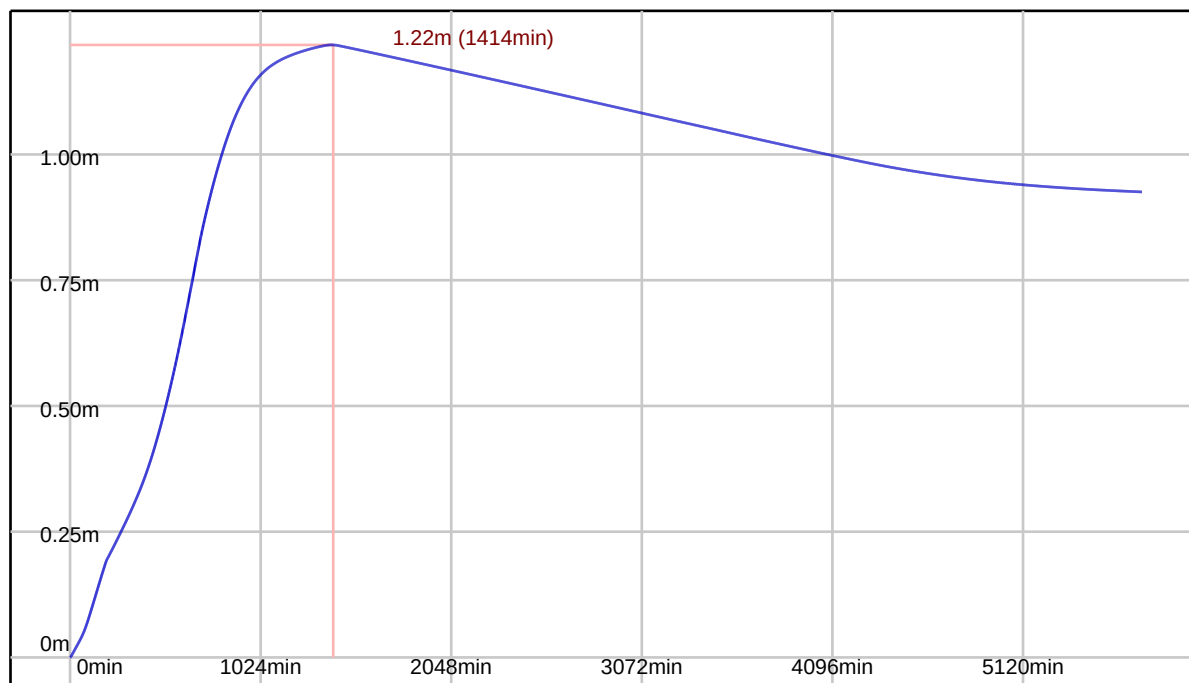
Pond Structure at Manhole S71

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
4.100	1.400	421.870	5.350	0.150	0.00000000	0.00000000	2.00

Pond Depth/Area Diagram at S71



Pond at S71 (100Yr+45% 1440Min Winter)

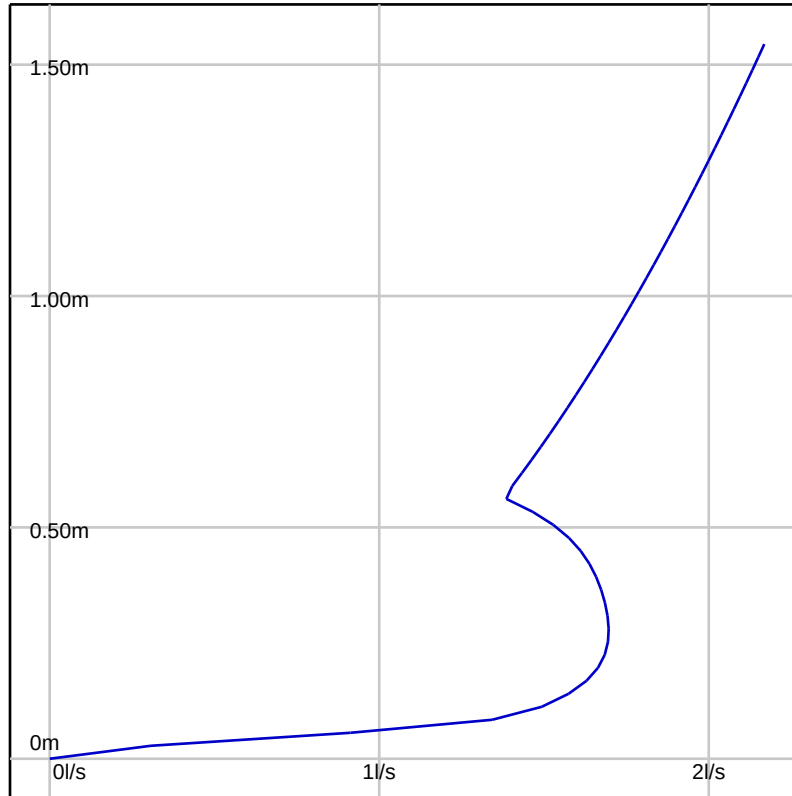


Controls within Manhole S72

Hydro-Brake® Optimum Control at Manhole S72

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-0063-2000-1300-2000 ID:646189	1.300	2.000	0.000	0.276	1.696	0.564	1.376

Hydro-Brake® Optimum Control at S72



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: (2, +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 %
2Yr 15Min Winter	32.920	0.00	0.80	30Yr+40% 15Min Summer	112.863	0.00	1.77
2Yr 15Min Summer	32.920	0.00	0.74	30Yr+40% 15Min Winter	112.863	0.00	1.71
2Yr 30Min Winter	21.400	0.00	0.80	30Yr+40% 30Min Summer	74.071	0.00	2.23
2Yr 30Min Summer	21.400	0.00	0.87	30Yr+40% 30Min Winter	74.071	0.00	2.19
2Yr 60Min Winter	13.300	0.00	0.84	30Yr+40% 60Min Summer	46.547	0.00	2.58
2Yr 60Min Summer	13.300	0.00	0.88	30Yr+40% 60Min Winter	46.547	0.00	2.56
2Yr 120Min Summer	8.917	0.00	1.11	30Yr+40% 120Min Summer	27.731	0.00	2.73
2Yr 120Min Winter	8.917	0.00	1.11	30Yr+40% 120Min Winter	27.731	0.00	2.76
2Yr 180Min Summer	6.969	0.00	1.34	30Yr+40% 180Min Summer	20.307	0.00	2.80
2Yr 180Min Winter	6.969	0.00	1.33	30Yr+40% 180Min Winter	20.307	0.00	2.80
2Yr 240Min Summer	5.692	0.00	1.50	30Yr+40% 240Min Summer	16.265	0.00	2.84
2Yr 240Min Winter	5.692	0.00	1.49	30Yr+40% 240Min Winter	16.265	0.00	2.84
2Yr 360Min Summer	4.267	0.00	1.79	30Yr+40% 360Min Summer	11.803	0.00	2.88
2Yr 360Min Winter	4.267	0.00	1.78	30Yr+40% 360Min Winter	11.803	0.00	2.88
2Yr 480Min Summer	3.462	0.00	2.03	30Yr+40% 480Min Summer	9.367	0.00	2.82
2Yr 480Min Winter	3.462	0.00	2.02	30Yr+40% 480Min Winter	9.367	0.00	2.82
2Yr 600Min Summer	2.922	0.00	2.50	30Yr+40% 600Min Summer	7.810	0.00	2.69
2Yr 600Min Winter	2.922	0.00	2.49	30Yr+40% 600Min Winter	7.810	0.00	2.69
2Yr 720Min Winter	2.536	0.00	2.75	30Yr+40% 720Min Summer	6.721	0.00	2.58
2Yr 720Min Summer	2.536	0.00	2.75	30Yr+40% 720Min Winter	6.721	0.00	2.58
2Yr 960Min Summer	2.031	0.00	2.95	30Yr+40% 960Min Summer	5.302	0.00	2.39
2Yr 960Min Winter	2.031	0.00	2.96	30Yr+40% 960Min Winter	5.302	0.00	2.39
2Yr 1440Min Summer	1.486	0.00	3.04	30Yr+40% 1440Min Summer	3.817	0.00	2.12
2Yr 1440Min Winter	1.486	0.00	3.04	30Yr+40% 1440Min Winter	3.817	0.00	2.12
10Yr+40% 15Min Summer	87.036	0.00	1.34	100Yr+45% 15Min Summer	146.276	0.00	2.30
10Yr+40% 15Min Winter	87.036	0.00	1.29	100Yr+45% 15Min Winter	146.276	0.00	2.25
10Yr+40% 30Min Summer	56.678	0.00	1.67	100Yr+45% 30Min Summer	96.982	0.00	2.68
10Yr+40% 30Min Winter	56.678	0.00	1.65	100Yr+45% 30Min Winter	96.982	0.00	2.65
10Yr+40% 60Min Summer	35.401	0.00	2.10	100Yr+45% 60Min Summer	61.530	0.00	2.76
10Yr+40% 60Min Winter	35.401	0.00	2.10	100Yr+45% 60Min Winter	61.530	0.00	2.74
10Yr+40% 120Min Winter	21.745	0.00	2.54	100Yr+45% 120Min Summer	35.946	0.00	2.82
10Yr+40% 120Min Summer	21.745	0.00	2.52	100Yr+45% 120Min Winter	35.946	0.00	2.85
10Yr+40% 180Min Summer	16.178	0.00	2.69	100Yr+45% 180Min Summer	26.053	0.00	2.77
10Yr+40% 180Min Winter	16.178	0.00	2.70	100Yr+45% 180Min Winter	26.053	0.00	2.78
10Yr+40% 240Min Summer	13.001	0.00	2.76	100Yr+45% 240Min Summer	20.923	0.00	2.68
10Yr+40% 240Min Winter	13.001	0.00	2.77	100Yr+45% 240Min Winter	20.923	0.00	2.69
10Yr+40% 360Min Summer	9.488	0.00	2.81	100Yr+45% 360Min Summer	15.176	0.00	2.62
10Yr+40% 360Min Winter	9.488	0.00	2.82	100Yr+45% 360Min Winter	15.176	0.00	2.62
10Yr+40% 480Min Summer	7.563	0.00	2.85	100Yr+45% 480Min Summer	12.028	0.00	2.65
10Yr+40% 480Min Winter	7.563	0.00	2.85	100Yr+45% 480Min Winter	12.028	0.00	2.65
10Yr+40% 600Min Winter	6.323	0.00	2.90	100Yr+45% 600Min Summer	10.033	0.00	2.50
10Yr+40% 600Min Summer	6.323	0.00	2.90	100Yr+45% 600Min Winter	10.033	0.00	2.51
10Yr+40% 720Min Summer	5.451	0.00	2.90	100Yr+45% 720Min Summer	8.641	0.00	2.36
10Yr+40% 720Min Winter	5.451	0.00	2.91	100Yr+45% 720Min Winter	8.641	0.00	2.37
10Yr+40% 960Min Summer	4.313	0.00	2.77	100Yr+45% 960Min Summer	6.827	0.00	2.12
10Yr+40% 960Min Winter	4.313	0.00	2.78	100Yr+45% 960Min Winter	6.827	0.00	2.12
10Yr+40% 1440Min Summer	3.111	0.00	2.49	100Yr+45% 1440Min Winter	4.922	0.00	1.80
10Yr+40% 1440Min Winter	3.111	0.00	2.49	100Yr+45% 1440Min Summer	4.922	0.00	1.79

Simulation Results

Return Period Yrs: 2.0

Climate Change %: 0

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
RWP87A	-	0	5.500	0.000	0.000		OK
RE85A	-	0	5.475	0.000	0.000		OK
PS52	-	0	5.400	0.000	0.000		OK
PS53	-	0	5.250	0.000	0.000		OK
RWP85A	-	0	5.500	0.000	0.000		OK
RE85B	-	0	5.475	0.000	0.000		OK
PS50	-	0	5.400	0.000	0.000		OK
PS48	-	0	5.250	0.000	0.000		OK
RWP86A	-	0	5.500	0.000	0.000		OK
PS49	-	0	5.050	0.000	0.000		OK
S114 (D)	15 min Summer	8	5.516	0.016	3.441		OK
PS47	1440 min Summer	5755	4.995	0.045	0.008		OK
S116 (D)	240 min Summer	144	5.658	0.008	0.412		OK
S49	15 min Summer	8	5.069	0.069	6.500		OK
S115	1440 min Summer	5755	4.995	0.125	0.039		OK
RWP84A	-	0	5.400	0.000	0.000		OK
RE84A	-	0	5.375	0.000	0.000		OK
PS56	-	0	5.200	0.000	0.000		OK
PS55	-	0	5.025	0.000	0.000		OK
RWP84B	-	0	5.400	0.000	0.000		OK
RE84B	-	0	5.375	0.000	0.000		OK
PS54	1440 min Summer	5751	4.995	0.095	0.001		OK
S113 (D)	15 min Summer	8	5.418	0.018	3.712		OK
PS46	1440 min Summer	5755	4.995	0.195	0.014		Surcharged
YG80A	-	0	5.500	0.000	0.000		OK
RWP80A	-	0	5.500	0.000	0.000		OK
RE80A	-	0	5.400	0.000	0.000		OK
RWP80B	-	0	5.500	0.000	0.000		OK
PS240	-	0	5.006	0.000	0.000		OK
S50	1440 min Summer	5755	4.995	0.375	0.077		Surcharged
S51	1440 min Summer	5755	4.995	0.420	0.105		Surcharged
S52	1440 min Summer	5755	4.995	0.520	0.115		Surcharged
YG94A	-	0	5.450	0.000	0.000		OK
RWP95C	-	0	5.575	0.000	0.000		OK
PS253	-	0	5.400	0.000	0.000		OK
PS252	-	0	5.200	0.000	0.000		OK
RWP95A	-	0	5.575	0.000	0.000		OK
RE95A	-	0	5.400	0.000	0.000		OK
PS251	-	0	5.000	0.000	0.000		OK
S103	1440 min Winter	5719	4.995	0.135	0.048		OK
RWP109A	-	0	5.400	0.000	0.000		OK
ACO109A	-	0	5.400	0.000	0.000		OK
PS147	-	0	5.350	0.000	0.000		OK
PS148	-	0	5.150	0.000	0.000		OK
RWP109C	-	0	5.400	0.000	0.000		OK
RE109A	-	0	5.300	0.000	0.000		OK
PS149	1440 min Summer	5739	4.995	0.074	0.000		OK
S104	1440 min Summer	5749	4.995	0.365	0.095		Surcharged
RWP106A	-	0	5.200	0.000	0.000		OK
ACO106A	-	0	5.150	0.000	0.000		OK
PS146	-	0	5.100	0.000	0.000		OK
PS144	1440 min Winter	5756	4.995	0.070	0.003		OK
RWP106C	-	0	5.200	0.000	0.000		OK
RE106A	-	0	5.100	0.000	0.000		OK
PS145	1440 min Summer	5744	4.995	0.195	0.021		Surcharged
S120	1440 min Summer	5739	4.995	0.520	0.134		Surcharged
S136	1440 min Summer	5726	4.995	0.546	0.128		Surcharged
RWP97B	-	0	5.300	0.000	0.000		OK
RE97B	-	0	5.200	0.000	0.000		OK

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
PS244	-	0	5.000	0.000	0.000		OK
YG97A	-	0	5.200	0.000	0.000		OK
RWP99A	-	0	5.300	0.000	0.000		OK
PS245	1440 min Winter	5738	4.995	0.195	0.002		Surcharged
S55	1440 min Summer	5726	4.995	0.574	0.190		Surcharged
RWP66A	-	0	5.200	0.000	0.000		OK
RE66A	-	0	5.100	0.000	0.000		OK
PS198	1440 min Summer	5757	4.995	0.095	0.005		OK
RWP66C	-	0	5.200	0.000	0.000		OK
PS202	-	0	5.009	0.000	0.000		OK
S117 (D)	15 min Summer	8	5.173	0.023	2.762		OK
PS203	1440 min Summer	5757	4.995	0.395	0.000		Surcharged
YG99B	1440 min Winter	5743	4.995	0.045	0.003		OK
S56	1440 min Summer	5757	4.995	0.618	0.180		Surcharged
RWP63A	-	0	5.100	0.000	0.000		OK
RE68A	-	0	5.000	0.000	0.000		OK
PS186	1440 min Winter	5737	4.995	0.095	0.005		OK
RWP64B	-	0	5.100	0.000	0.000		OK
PS185	1440 min Winter	5737	4.995	0.195	0.003		Surcharged
S69	1440 min Winter	5737	4.995	0.420	0.019		Surcharged
RWP64A	-	0	5.100	0.000	0.000		OK
RE65A	-	0	5.000	0.000	0.000		OK
S118 (D)	15 min Summer	8	5.020	0.020	1.309		OK
PS196	1440 min Winter	5747	4.995	0.145	0.003		OK
RWP64C	-	0	5.100	0.000	0.000		OK
PS193	1440 min Summer	5750	4.995	0.245	0.014		Surcharged
S59	1440 min Winter	5737	4.995	0.475	0.054		Surcharged
S60	1440 min Summer	5750	4.995	0.530	0.008		Surcharged
S57	1440 min Summer	5750	4.995	0.650	0.247		Surcharged
S53	1440 min Summer	5750	4.994	0.674	0.202		Surcharged
S54	1440 min Summer	5750	4.994	0.694	0.005		Surcharged
S65	1440 min Summer	5753	4.994	0.744	0.023		Surcharged
S66	1440 min Summer	5759	4.994	0.769	0.022		Surcharged
S67	1440 min Summer	5758	4.994	0.844	0.014		Surcharged
S71	1440 min Summer	5759	4.994	0.894	0.000		Surcharged
RE153A	-	0	5.050	0.000	0.000		OK
PS31	1440 min Summer	5754	4.995	0.320	0.015		Surcharged
RE153B	-	0	5.000	0.000	0.000		OK
RWP153H	-	0	5.100	0.000	0.000		OK
PS34	1440 min Summer	5744	4.995	0.245	0.000		Surcharged
PS35	1440 min Summer	5744	4.995	0.445	0.000		Surcharged
S15 (D)	1440 min Winter	5759	4.994	0.194	0.057		Surcharged
S14	1440 min Summer	5757	4.995	0.595	0.013		Surcharged
S72	1440 min Summer	5757	4.994	0.944	0.066		Surcharged
S73	15 min Winter	0	5.000	1.000	1.715		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	RWP87A	RE85A	0.000	0.000	0.000	0.000	OK
1.001	15 min Winter	0	RE85A	PS52	0.000	0.000	0.000	0.000	OK
1.002	15 min Winter	0	PS52	PS53	0.000	0.000	0.000	0.000	OK
1.003	15 min Winter	0	PS53	PS49	0.000	0.000	0.000	0.000	OK
2.000	15 min Winter	0	RWP85A	RE85B	0.000	0.000	0.000	0.000	OK
2.001	15 min Winter	0	RE85B	PS50	0.000	0.000	0.000	0.000	OK
2.002	15 min Winter	0	PS50	PS48	0.000	0.000	0.000	0.000	OK
2.003	15 min Winter	0	PS48	PS49	0.000	0.000	0.000	0.000	OK
3.000	15 min Winter	0	RWP86A	PS49	0.000	0.000	0.000	0.000	OK
1.004	1440 min Summer	5755	PS49	PS47	0.023	0.000	0.000	0.000	OK
4.000	15 min Summer	8	S114 (D)	PS47	0.024	1.625	2.979	0.026	OK
1.005	1440 min Summer	5755	PS47	S115	0.085	0.325	0.515	0.017	OK
5.000	15 min Summer	8	S116 (D)	S49	0.035	0.000	0.000	0.000	OK
5.001	15 min Summer	9	S49	S115	0.078	0.704	6.399	0.441	OK
1.006	1440 min Summer	5755	S115	S50	0.138	0.509	1.268	0.088	OK
6.000	15 min Winter	0	RWP84A	RE84A	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
6.001	15 min Winter	0	RE84A	PS56	0.000	0.000	0.000	0.000	OK
6.002	15 min Winter	0	PS56	PS55	0.000	0.000	0.000	0.000	OK
6.003	1440 min Summer	5751	PS55	PS54	0.023	0.000	0.000	0.000	OK
7.000	15 min Winter	0	RWP84B	RE84B	0.000	0.000	0.000	0.000	OK
7.001	1440 min Summer	5751	RE84B	PS54	0.023	0.000	0.000	0.000	OK
6.004	1440 min Summer	5751	PS54	PS46	0.123	0.005	0.076	0.005	OK
8.000	1440 min Summer	2626	S113 (D)	PS46	0.075	0.752	0.563	0.005	OK
6.005	1440 min Summer	2586	PS46	S50	0.150	0.458	0.563	0.032	Surcharged
9.000	15 min Winter	0	YG80A	RE80A	0.000	0.000	0.000	0.000	OK
10.000	15 min Winter	0	RWP80A	RE80A	0.000	0.000	0.000	0.000	OK
9.001	15 min Winter	0	RE80A	PS240	0.000	0.000	0.000	0.000	OK
11.000	15 min Winter	0	RWP80B	PS240	0.000	0.000	0.000	0.000	OK
9.002	720 min Winter	2495	PS240	S50	0.075	0.000	0.000	0.000	OK
1.007	720 min Summer	2483	S50	S51	0.300	0.441	3.215	0.048	Surcharged
1.008	720 min Summer	2015	S51	S52	0.300	0.385	4.016	0.067	Surcharged
1.009	480 min Summer	1403	S52	S53	0.300	0.640	9.135	0.166	Surcharged
12.000	15 min Winter	0	YG94A	PS253	0.000	0.000	0.000	0.000	OK
13.000	15 min Winter	0	RWP95C	PS253	0.000	0.000	0.000	0.000	OK
12.001	15 min Winter	0	PS253	PS252	0.000	0.000	0.000	0.000	OK
12.002	15 min Winter	0	PS252	PS251	0.000	0.000	0.000	0.000	OK
14.000	15 min Winter	0	RWP95A	RE95A	0.000	0.000	0.000	0.000	OK
14.001	15 min Winter	0	RE95A	PS251	0.000	0.000	0.000	0.000	OK
12.003	720 min Winter	2633	PS251	S104	0.075	0.000	0.000	0.000	OK
15.000	1440 min Winter	5719	S103	S104	0.180	0.315	0.427	0.012	OK
16.000	15 min Winter	0	RWP109A	PS147	0.000	0.000	0.000	0.000	OK
17.000	15 min Winter	0	ACO109A	PS147	0.000	0.000	0.000	0.000	OK
16.001	15 min Winter	0	PS147	PS148	0.000	0.000	0.000	0.000	OK
16.002	1440 min Summer	5739	PS148	PS149	0.012	0.000	0.000	0.000	OK
18.000	15 min Winter	0	RWP109C	RE109A	0.000	0.000	0.000	0.000	OK
18.001	1440 min Summer	5739	RE109A	PS149	0.012	0.000	0.000	0.000	OK
16.003	1440 min Summer	5739	PS149	S104	0.112	0.004	0.049	0.001	OK
12.004	720 min Summer	2623	S104	S120	0.300	0.641	5.762	0.077	Surcharged
19.000	15 min Winter	0	RWP106A	PS146	0.000	0.000	0.000	0.000	OK
20.000	15 min Winter	0	ACO106A	PS146	0.000	0.000	0.000	0.000	OK
19.001	1440 min Winter	5756	PS146	PS144	0.010	0.000	0.000	0.000	OK
19.002	1440 min Winter	5756	PS144	PS145	0.110	0.006	0.074	0.004	OK
21.000	15 min Winter	0	RWP106C	RE106A	0.000	0.000	0.000	0.000	OK
21.001	960 min Summer	2816	RE106A	PS145	0.050	0.000	0.000	0.000	OK
19.003	1440 min Winter	3864	PS145	S120	0.150	0.006	0.104	0.004	Surcharged
12.005	720 min Summer	1797	S120	S136	0.375	0.504	5.885	0.062	Surcharged
12.006	600 min Summer	1665	S136	S55	0.375	0.511	6.779	0.067	Surcharged
22.000	15 min Winter	0	RWP97B	RE97B	0.000	0.000	0.000	0.000	OK
22.001	15 min Winter	0	RE97B	PS244	0.000	0.000	0.000	0.000	OK
22.002	960 min Summer	2811	PS244	PS245	0.050	0.000	0.000	0.000	OK
23.000	15 min Winter	0	YG97A	PS245	0.000	0.000	0.000	0.000	OK
24.000	960 min Summer	2811	RWP99A	PS245	0.050	0.000	0.000	0.000	OK
22.003	1440 min Summer	2592	PS245	S55	0.150	0.008	0.091	0.004	Surcharged
12.007	480 min Summer	1561	S55	S56	0.375	0.529	9.213	0.090	Surcharged
25.000	15 min Winter	0	RWP66A	RE66A	0.000	0.000	0.000	0.000	OK
25.001	1440 min Winter	5743	RE66A	PS198	0.047	0.000	0.000	0.000	OK
25.002	1440 min Winter	5743	PS198	PS203	0.097	0.011	0.069	0.008	OK
26.000	15 min Winter	0	RWP66C	PS202	0.000	0.000	0.000	0.000	OK
26.001	240 min Summer	1598	PS202	PS203	0.050	0.000	0.000	0.000	OK
27.000	1440 min Winter	1022	S117 (D)	PS203	0.078	0.487	0.239	0.006	OK
25.003	1440 min Summer	1015	PS203	S56	0.150	0.458	1.317	0.062	Surcharged
28.000	1440 min Winter	5743	YG99B	S56	0.097	0.004	0.046	0.002	OK
12.008	360 min Summer	1384	S56	S57	0.375	0.460	11.683	0.136	Surcharged
29.000	15 min Winter	0	RWP63A	RE68A	0.000	0.000	0.000	0.000	OK
29.001	1440 min Winter	5737	RE68A	PS186	0.023	0.000	0.000	0.000	OK
29.002	1440 min Winter	5737	PS186	PS185	0.123	0.008	0.069	0.004	OK
30.000	960 min Summer	2811	RWP64B	PS185	0.050	0.000	0.000	0.000	OK
29.003	960 min Winter	2823	PS185	S69	0.150	0.007	0.117	0.005	Surcharged
29.004	960 min Summer	3468	S69	S59	0.300	0.003	0.182	0.003	Surcharged
31.000	15 min Winter	0	RWP64A	RE65A	0.000	0.000	0.000	0.000	OK
31.001	1440 min Winter	5747	RE65A	PS196	0.048	0.000	0.000	0.000	OK
32.000	1440 min Winter	5747	S118 (D)	PS196	0.073	0.345	0.131	0.004	OK
31.002	1440 min Winter	5747	PS196	PS193	0.148	0.307	0.131	0.008	OK
33.000	600 min Summer	2334	RWP64C	PS193	0.050	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
31.003	720 min Summer	2246	PS193	S59	0.150	0.464	0.338	0.015	Surcharged
29.005	600 min Summer	1638	S59	S60	0.300	0.381	1.854	0.031	Surcharged
29.006	480 min Summer	1326	S60	S57	0.300	0.429	2.194	0.039	Surcharged
12.009	240 min Summer	1375	S57	S53	0.375	0.492	18.802	0.204	Surcharged
1.010	240 min Summer	1192	S53	S54	0.375	0.797	32.889	0.367	Surcharged
1.011	180 min Summer	1199	S54	S65	0.375	0.957	39.283	0.432	Surcharged
1.012	180 min Summer	841	S65	S66	0.375	0.781	32.527	0.313	Surcharged
1.013	60 min Summer	1340	S66	S67	0.375	0.856	44.204	0.473	Surcharged
1.014	30 min Summer	1065	S67	S71	0.375	1.259	45.538	0.569	Surcharged
1.015	1440 min Winter	4887	S71	S72	0.300	0.004	0.260	0.003	Surcharged
34.000	480 min Summer	1791	RE153A	PS31	0.050	0.000	0.000	0.000	OK
34.001	1440 min Summer	4535	PS31	PS35	0.150	0.005	0.095	0.007	Surcharged
35.000	600 min Summer	1882	RE153B	PS34	0.050	0.000	0.000	0.000	OK
36.000	600 min Summer	1882	RWP153H	PS34	0.050	0.000	0.000	0.000	OK
35.001	1440 min Summer	4291	PS34	PS35	0.100	0.009	0.072	0.011	Surcharged
34.002	1440 min Summer	5014	PS35	S14	0.150	0.009	0.150	0.011	Surcharged
37.000	1440 min Summer	2601	S15 (D)	S14	0.150	0.696	0.967	0.032	Surcharged
34.003	180 min Summer	842	S14	S72	0.225	0.100	2.362	0.049	OK
1.016	15 min Winter	0	S72	S73	0.225	0.000	0.000	0.000	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S114	180 min Summer	104	5.523	0.029	0.675		OK
S116	240 min Summer	144	5.667	0.033	0.411		OK
S113	480 min Summer	275	5.417	0.054	0.397		OK
S117	480 min Summer	276	5.164	0.086	0.192		OK
S118	120 min Summer	69	5.129	0.014	0.361		OK
S15	1440 min Summer	5759	4.994	0.096	0.000		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
RWP87A	-	0	5.500	0.000	0.000		OK
RE85A	-	0	5.475	0.000	0.000		OK
PS52	-	0	5.400	0.000	0.000		OK
PS53	-	0	5.250	0.000	0.000		OK
RWP85A	-	0	5.500	0.000	0.000		OK
RE85B	-	0	5.475	0.000	0.000		OK
PS50	-	0	5.400	0.000	0.000		OK
PS48	-	0	5.250	0.000	0.000		OK
RWP86A	-	0	5.500	0.000	0.000		OK
PS49	15 min Summer	10	5.194	0.144	0.638		OK
S114 (D)	15 min Summer	8	5.526	0.026	9.096		OK
PS47	15 min Summer	10	5.193	0.243	6.653		Surcharged
S116 (D)	60 min Summer	42	5.667	0.017	2.066		OK
S49	15 min Summer	10	5.296	0.296	13.668		Surcharged
S115	15 min Summer	10	5.190	0.320	18.976		Surcharged
RWP84A	-	0	5.400	0.000	0.000		OK
RE84A	-	0	5.375	0.000	0.000		OK
PS56	-	0	5.200	0.000	0.000		OK
PS55	1440 min Winter	1403	5.079	0.054	0.014		OK
RWP84B	-	0	5.400	0.000	0.000		OK
RE84B	-	0	5.375	0.000	0.000		OK
PS54	1440 min Winter	1401	5.078	0.178	0.059		Surcharged
S113 (D)	15 min Summer	8	5.429	0.029	9.813		OK
PS46	1440 min Winter	1399	5.078	0.278	0.078		Surcharged
YG80A	-	0	5.500	0.000	0.000		OK
RWP80A	-	0	5.500	0.000	0.000		OK
RE80A	-	0	5.400	0.000	0.000		OK
RWP80B	-	0	5.500	0.000	0.000		OK
PS240	1440 min Winter	1395	5.078	0.072	0.042		OK
S50	1440 min Winter	1399	5.078	0.458	0.241		Surcharged
S51	1440 min Winter	1393	5.078	0.503	0.334		Surcharged
S52	1440 min Winter	1397	5.078	0.603	0.469		Surcharged
YG94A	-	0	5.450	0.000	0.000		OK
RWP95C	-	0	5.575	0.000	0.000		OK
PS253	-	0	5.400	0.000	0.000		OK
PS252	-	0	5.200	0.000	0.000		OK
RWP95A	-	0	5.575	0.000	0.000		OK
RE95A	-	0	5.400	0.000	0.000		OK
PS251	1440 min Winter	1397	5.078	0.078	0.020		OK
S103	15 min Summer	10	5.086	0.226	16.955		Surcharged
RWP109A	-	0	5.400	0.000	0.000		OK
ACO109A	-	0	5.400	0.000	0.000		OK
PS147	-	0	5.350	0.000	0.000		OK
PS148	-	0	5.150	0.000	0.000		OK
RWP109C	-	0	5.400	0.000	0.000		OK
RE109A	-	0	5.300	0.000	0.000		OK
PS149	1440 min Winter	1405	5.078	0.158	0.003		Surcharged
S104	1440 min Winter	1397	5.078	0.448	0.333		Surcharged
RWP106A	-	0	5.200	0.000	0.000		OK
ACO106A	-	0	5.150	0.000	0.000		OK
PS146	-	0	5.100	0.000	0.000		OK
PS144	1440 min Winter	1403	5.078	0.153	0.009		Surcharged
RWP106C	-	0	5.200	0.000	0.000		OK
RE106A	-	0	5.100	0.000	0.000		OK
PS145	1440 min Winter	1395	5.078	0.278	0.029		Surcharged
S120	1440 min Winter	1395	5.078	0.603	0.381		Surcharged
S136	1440 min Winter	1403	5.078	0.630	0.259		Surcharged
RWP97B	-	0	5.300	0.000	0.000		OK
RE97B	-	0	5.200	0.000	0.000		OK
PS244	1440 min Winter	1392	5.079	0.079	0.000		OK
YG97A	-	0	5.200	0.000	0.000		OK
RWP99A	-	0	5.300	0.000	0.000		OK
PS245	1440 min Winter	1390	5.078	0.278	0.021		Surcharged

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S55	1440 min Winter	1403	5.078	0.658	0.323		Surcharged
RWP66A	-	0	5.200	0.000	0.000		OK
RE66A	-	0	5.100	0.000	0.000		OK
PS198	1440 min Winter	1389	5.078	0.178	0.006		Surcharged
RWP66C	-	0	5.200	0.000	0.000		OK
PS202	1440 min Winter	1396	5.078	0.069	0.022		OK
S117 (D)	15 min Summer	8	5.189	0.039	7.302		OK
PS203	1440 min Winter	1391	5.078	0.478	0.056		Surcharged
YG99B	1440 min Winter	1386	5.078	0.128	0.000		OK
S56	1440 min Winter	1391	5.078	0.702	0.496		Surcharged
RWP63A	-	0	5.100	0.000	0.000		OK
RE68A	1440 min Winter	1411	5.079	0.079	0.000		OK
PS186	1440 min Winter	1407	5.078	0.178	0.017		Surcharged
RWP64B	-	0	5.100	0.000	0.000		OK
PS185	1440 min Winter	1409	5.078	0.278	0.032		Surcharged
S69	1440 min Winter	1405	5.078	0.503	0.057		Surcharged
RWP64A	-	0	5.100	0.000	0.000		OK
RE65A	1440 min Winter	1408	5.078	0.078	0.000		OK
S118 (D)	1440 min Winter	1412	5.078	0.078	0.018		OK
PS196	1440 min Winter	1412	5.078	0.228	0.022		Surcharged
RWP64C	-	0	5.100	0.000	0.000		OK
PS193	1440 min Winter	1404	5.078	0.328	0.082		Surcharged
S59	1440 min Winter	1404	5.078	0.558	0.130		Surcharged
S60	1440 min Winter	1400	5.078	0.613	0.109		Surcharged
S57	1440 min Winter	1400	5.078	0.733	0.471		Surcharged
S53	1440 min Winter	1400	5.078	0.758	0.941		Surcharged
S54	1440 min Winter	1402	5.078	0.778	0.892		Surcharged
S65	1440 min Winter	1399	5.078	0.828	1.103		Surcharged
S66	1440 min Winter	1399	5.078	0.853	1.066		Surcharged
S67	1440 min Winter	1399	5.078	0.928	1.064		Surcharged
S71	1440 min Winter	1398	5.078	0.978	1.156		Surcharged
RE153A	1440 min Winter	1410	5.079	0.029	0.000		OK
PS31	1440 min Winter	1417	5.078	0.403	0.014		Surcharged
RE153B	1440 min Winter	1399	5.079	0.079	0.004		OK
RWP153H	-	0	5.100	0.000	0.000		OK
PS34	1440 min Winter	1396	5.078	0.328	0.024		Surcharged
PS35	1440 min Winter	1399	5.078	0.528	0.028		Surcharged
S15 (D)	1440 min Winter	1429	5.078	0.278	0.258		Surcharged
S14	1440 min Winter	1392	5.078	0.678	0.112		Surcharged
S72	1440 min Winter	1402	5.078	1.028	1.252		Surcharged
S73	15 min Summer	0	5.000	1.000	1.715		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	RWP87A	RE85A	0.000	0.000	0.000	0.000	OK
1.001	15 min Summer	0	RE85A	PS52	0.000	0.000	0.000	0.000	OK
1.002	15 min Summer	0	PS52	PS53	0.000	0.000	0.000	0.000	OK
1.003	15 min Summer	10	PS53	PS49	0.047	0.000	0.000	0.000	OK
2.000	15 min Summer	0	RWP85A	RE85B	0.000	0.000	0.000	0.000	OK
2.001	15 min Summer	0	RE85B	PS50	0.000	0.000	0.000	0.000	OK
2.002	15 min Summer	0	PS50	PS48	0.000	0.000	0.000	0.000	OK
2.003	15 min Summer	10	PS48	PS49	0.047	0.000	0.000	0.000	OK
3.000	15 min Summer	10	RWP86A	PS49	0.047	0.000	0.000	0.000	OK
1.004	15 min Summer	12	PS49	PS47	0.147	0.160	2.408	0.157	OK
4.000	15 min Summer	9	S114 (D)	PS47	0.088	2.042	8.145	0.070	OK
1.005	15 min Winter	9	PS47	S115	0.150	0.629	10.359	0.350	Surcharged
5.000	30 min Summer	27	S116 (D)	S49	0.079	0.783	1.756	0.023	OK
5.001	15 min Winter	9	S49	S115	0.150	0.821	13.834	0.953	Surcharged
1.006	15 min Winter	9	S115	S50	0.150	1.083	18.806	1.301	Surcharged
6.000	15 min Summer	0	RWP84A	RE84A	0.000	0.000	0.000	0.000	OK
6.001	15 min Summer	0	RE84A	PS56	0.000	0.000	0.000	0.000	OK
6.002	1440 min Winter	1403	PS56	PS55	0.027	0.000	0.000	0.000	OK
6.003	1440 min Winter	1403	PS55	PS54	0.077	0.011	0.059	0.010	OK
7.000	15 min Summer	0	RWP84B	RE84B	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
7.001	1440 min Summer	1128	RE84B	PS54	0.050	0.000	0.000	0.000	OK
6.004	1440 min Winter	1093	PS54	PS46	0.150	0.024	0.363	0.025	Surcharged
8.000	15 min Summer	8	S113 (D)	PS46	0.089	1.621	8.729	0.082	OK
6.005	15 min Winter	9	PS46	S50	0.150	0.952	7.352	0.420	Surcharged
9.000	15 min Summer	0	YG80A	RE80A	0.000	0.000	0.000	0.000	OK
10.000	15 min Summer	0	RWP80A	RE80A	0.000	0.000	0.000	0.000	OK
9.001	1440 min Winter	1395	RE80A	PS240	0.011	0.000	0.000	0.000	OK
11.000	1440 min Winter	1395	RWP80B	PS240	0.011	0.000	0.000	0.000	OK
9.002	1440 min Winter	1395	PS240	S50	0.111	0.005	0.050	0.002	OK
1.007	15 min Winter	11	S50	S51	0.300	0.733	31.151	0.467	Surcharged
1.008	15 min Winter	11	S51	S52	0.300	0.590	41.678	0.697	Surcharged
1.009	15 min Winter	9	S52	S53	0.300	1.204	85.111	1.544	Surcharged
12.000	15 min Summer	0	YG94A	PS253	0.000	0.000	0.000	0.000	OK
13.000	15 min Summer	0	RWP95C	PS253	0.000	0.000	0.000	0.000	OK
12.001	15 min Summer	0	PS253	PS252	0.000	0.000	0.000	0.000	OK
12.002	1440 min Winter	1397	PS252	PS251	0.014	0.000	0.000	0.000	OK
14.000	15 min Summer	0	RWP95A	RE95A	0.000	0.000	0.000	0.000	OK
14.001	1440 min Winter	1397	RE95A	PS251	0.014	0.000	0.000	0.000	OK
12.003	1440 min Winter	1397	PS251	S104	0.114	0.006	0.080	0.003	OK
15.000	15 min Summer	10	S103	S104	0.225	0.656	19.316	0.563	OK
16.000	15 min Summer	0	RWP109A	PS147	0.000	0.000	0.000	0.000	OK
17.000	15 min Summer	0	ACO109A	PS147	0.000	0.000	0.000	0.000	OK
16.001	15 min Summer	0	PS147	PS148	0.000	0.000	0.000	0.000	OK
16.002	1440 min Summer	1334	PS148	PS149	0.050	0.000	0.000	0.000	OK
18.000	15 min Summer	0	RWP109C	RE109A	0.000	0.000	0.000	0.000	OK
18.001	1440 min Summer	1334	RE109A	PS149	0.050	0.000	0.000	0.000	OK
16.003	1440 min Winter	2525	PS149	S104	0.150	0.004	0.058	0.002	Surcharged
12.004	15 min Winter	9	S104	S120	0.300	1.403	92.626	1.239	Surcharged
19.000	15 min Summer	0	RWP106A	PS146	0.000	0.000	0.000	0.000	OK
20.000	15 min Summer	0	ACO106A	PS146	0.000	0.000	0.000	0.000	OK
19.001	1440 min Summer	1398	PS146	PS144	0.050	0.000	0.000	0.000	OK
19.002	1440 min Winter	4207	PS144	PS145	0.150	0.005	0.071	0.004	Surcharged
21.000	15 min Summer	0	RWP106C	RE106A	0.000	0.000	0.000	0.000	OK
21.001	15 min Summer	10	RE106A	PS145	0.050	0.000	0.000	0.000	OK
19.003	240 min Winter	1271	PS145	S120	0.150	0.034	0.444	0.018	Surcharged
12.005	15 min Winter	9	S120	S136	0.375	0.944	87.811	0.922	Surcharged
12.006	15 min Winter	9	S136	S55	0.375	0.854	85.262	0.837	Surcharged
22.000	15 min Summer	0	RWP97B	RE97B	0.000	0.000	0.000	0.000	OK
22.001	1440 min Winter	1392	RE97B	PS244	0.039	0.000	0.000	0.000	OK
22.002	1440 min Winter	1474	PS244	PS245	0.089	0.012	0.073	0.011	OK
23.000	15 min Summer	0	YG97A	PS245	0.000	0.000	0.000	0.000	OK
24.000	180 min Summer	1538	RWP99A	PS245	0.050	0.000	0.000	0.000	OK
22.003	600 min Winter	487	PS245	S55	0.150	0.062	0.828	0.033	Surcharged
12.007	15 min Winter	9	S55	S56	0.375	0.886	94.014	0.917	Surcharged
25.000	15 min Summer	0	RWP66A	RE66A	0.000	0.000	0.000	0.000	OK
25.001	720 min Summer	697	RE66A	PS198	0.050	0.000	0.000	0.000	OK
25.002	1440 min Summer	1798	PS198	PS203	0.100	0.008	0.061	0.007	Surcharged
26.000	1440 min Winter	1396	RWP66C	PS202	0.035	0.000	0.000	0.000	OK
26.001	1440 min Winter	1631	PS202	PS203	0.085	0.011	0.053	0.005	OK
27.000	15 min Summer	8	S117 (D)	PS203	0.094	1.152	5.608	0.145	OK
25.003	180 min Summer	131	PS203	S56	0.150	0.722	7.703	0.362	Surcharged
28.000	1440 min Winter	4576	YG99B	S56	0.139	0.004	0.049	0.002	OK
12.008	15 min Winter	8	S56	S57	0.375	0.853	94.204	1.093	Surcharged
29.000	1440 min Winter	1411	RWP63A	RE68A	0.039	0.000	0.000	0.000	OK
29.001	1440 min Winter	4857	RE68A	PS186	0.089	0.027	0.059	0.011	OK
29.002	1440 min Winter	1540	PS186	PS185	0.150	0.005	0.097	0.006	Surcharged
30.000	180 min Summer	1534	RWP64B	PS185	0.050	0.000	0.000	0.000	OK
29.003	720 min Summer	536	PS185	S69	0.150	0.035	0.375	0.017	Surcharged
29.004	240 min Winter	337	S69	S59	0.300	0.020	1.275	0.020	Surcharged
31.000	1440 min Winter	1408	RWP64A	RE65A	0.039	0.000	0.000	0.000	OK
31.001	1440 min Winter	3863	RE65A	PS196	0.089	0.014	0.066	0.008	OK
32.000	1440 min Winter	1412	S118 (D)	PS196	0.114	0.443	0.274	0.008	OK
31.002	960 min Summer	763	PS196	PS193	0.150	0.483	0.587	0.036	Surcharged
33.000	120 min Winter	1224	RWP64C	PS193	0.050	0.000	0.000	0.000	OK
31.003	120 min Summer	1206	PS193	S59	0.150	0.833	2.392	0.107	Surcharged
29.005	15 min Winter	10	S59	S60	0.300	0.669	19.440	0.329	Surcharged
29.006	15 min Winter	13	S60	S57	0.300	0.472	20.332	0.363	Surcharged
12.009	15 min Winter	9	S57	S53	0.375	0.977	107.927	1.174	Surcharged

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
1.010	15 min Winter	10	S53	S54	0.375	1.716	189.154	2.114	Surcharged
1.011	15 min Winter	1138	S54	S65	0.375	2.315	186.759	2.054	Surcharged
1.012	30 min Summer	255	S65	S66	0.375	1.110	111.810	1.076	Surcharged
1.013	30 min Summer	105	S66	S67	0.375	1.132	110.694	1.186	Surcharged
1.014	30 min Summer	25	S67	S71	0.375	1.385	108.586	1.356	Surcharged
1.015	1440 min Summer	1491	S71	S72	0.300	0.019	1.332	0.013	Surcharged
34.000	1440 min Winter	1479	RE153A	PS31	0.064	0.014	0.072	0.010	OK
34.001	960 min Summer	2863	PS31	PS35	0.150	0.008	0.135	0.009	Surcharged
35.000	1440 min Winter	4254	RE153B	PS34	0.089	0.025	0.109	0.013	OK
36.000	60 min Summer	1378	RWP153H	PS34	0.050	0.000	0.000	0.000	OK
35.001	960 min Winter	2900	PS34	PS35	0.100	0.026	0.206	0.030	Surcharged
34.002	960 min Summer	3351	PS35	S14	0.150	0.014	0.246	0.017	Surcharged
37.000	240 min Summer	1265	S15 (D)	S14	0.150	1.293	6.089	0.200	Surcharged
34.003	15 min Winter	779	S14	S72	0.225	0.676	11.818	0.243	OK
1.016	1440 min Winter	1401	S72	S73	0.225	0.031	1.249	0.024	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S114	60 min Summer	41	5.556	0.061	3.019		OK
S116	60 min Summer	42	5.697	0.063	1.537		OK
S113	120 min Summer	72	5.448	0.085	2.173		OK
S117	120 min Summer	70	5.191	0.113	1.254		OK
S118	30 min Summer	24	5.148	0.034	1.336		OK
S15	1440 min Winter	1398	5.078	0.180	0.067		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
RWP87A	-	0	5.500	0.000	0.000		OK
RE85A	-	0	5.475	0.000	0.000		OK
PS52	15 min Summer	12	5.431	0.031	0.000		OK
PS53	15 min Summer	11	5.431	0.181	1.088		Surcharged
RWP85A	-	0	5.500	0.000	0.000		OK
RE85B	-	0	5.475	0.000	0.000		OK
PS50	15 min Summer	11	5.430	0.030	0.877		OK
PS48	15 min Summer	11	5.433	0.183	1.049		Surcharged
RWP86A	-	0	5.500	0.000	0.000		OK
PS49	15 min Summer	11	5.433	0.383	2.090		Surcharged
S114 (D)	15 min Summer	8	5.530	0.030	11.795		OK
PS47	15 min Summer	11	5.430	0.480	6.505		Surcharged
S116 (D)	60 min Summer	43	5.670	0.020	3.027		OK
S49	15 min Summer	10	5.570	0.570	17.720		Surcharged
S115	15 min Summer	11	5.428	0.558	18.549		Surcharged
RWP84A	-	0	5.400	0.000	0.000		OK
RE84A	-	0	5.375	0.000	0.000		OK
PS56	15 min Summer	11	5.286	0.086	0.000		OK
PS55	15 min Summer	11	5.277	0.252	0.043		Surcharged
RWP84B	-	0	5.400	0.000	0.000		OK
RE84B	-	0	5.375	0.000	0.000		OK
PS54	15 min Summer	11	5.266	0.366	0.360		Surcharged
S113 (D)	15 min Summer	8	5.433	0.033	12.725		OK
PS46	15 min Summer	10	5.265	0.465	9.071		Surcharged
YG80A	-	0	5.500	0.000	0.000		OK
RWP80A	-	0	5.500	0.000	0.000		OK
RE80A	-	0	5.400	0.000	0.000		OK
RWP80B	-	0	5.500	0.000	0.000		OK
PS240	15 min Summer	10	5.264	0.258	0.786		Surcharged
S50	15 min Summer	10	5.262	0.642	31.906		Surcharged
S51	15 min Summer	10	5.253	0.678	45.392		Surcharged
S52	15 min Summer	10	5.199	0.724	104.038		Surcharged
YG94A	-	0	5.450	0.000	0.000		OK
RWP95C	-	0	5.575	0.000	0.000		OK
PS253	-	0	5.400	0.000	0.000		OK
PS252	15 min Summer	10	5.325	0.125	0.705		Surcharged
RWP95A	-	0	5.575	0.000	0.000		OK
RE95A	-	0	5.400	0.000	0.000		OK
PS251	15 min Summer	10	5.313	0.313	0.742		Surcharged
S103	15 min Summer	10	5.368	0.508	21.981		Surcharged
RWP109A	-	0	5.400	0.000	0.000		OK
ACO109A	-	0	5.400	0.000	0.000		OK
PS147	-	0	5.350	0.000	0.000		OK
PS148	15 min Summer	10	5.320	0.170	0.000		Surcharged
RWP109C	-	0	5.400	0.000	0.000		OK
RE109A	15 min Summer	11	5.307	0.007	0.000		OK
PS149	15 min Summer	10	5.308	0.387	0.645		Surcharged
S104	15 min Summer	10	5.308	0.678	111.287		Surcharged
RWP106A	-	0	5.200	0.000	0.000		OK
ACO106A	1440 min Winter	1408	5.167	0.017	0.000		OK
PS146	15 min Summer	11	5.167	0.067	0.299		OK
PS144	1440 min Winter	1394	5.167	0.242	0.015		Surcharged
RWP106C	-	0	5.200	0.000	0.000		OK
RE106A	1440 min Winter	1402	5.167	0.067	0.000		OK
PS145	1440 min Winter	1395	5.167	0.367	0.051		Surcharged
S120	1440 min Winter	1390	5.167	0.692	0.531		Surcharged
S136	1440 min Winter	1390	5.167	0.719	0.488		Surcharged
RWP97B	-	0	5.300	0.000	0.000		OK
RE97B	-	0	5.200	0.000	0.000		OK
PS244	1440 min Winter	1388	5.167	0.167	0.000		Surcharged
YG97A	-	0	5.200	0.000	0.000		OK
RWP99A	-	0	5.300	0.000	0.000		OK
PS245	1440 min Winter	1401	5.167	0.367	0.040		Surcharged

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S55	1440 min Winter	1398	5.167	0.746	0.480		Surcharged
RWP66A	-	0	5.200	0.000	0.000		OK
RE66A	1440 min Winter	1393	5.167	0.067	0.000		OK
PS198	1440 min Winter	1393	5.167	0.267	0.004		Surcharged
RWP66C	-	0	5.200	0.000	0.000		OK
PS202	1440 min Winter	1395	5.167	0.158	0.004		Surcharged
S117 (D)	15 min Summer	8	5.194	0.044	9.469		OK
PS203	1440 min Winter	1395	5.167	0.567	0.042		Surcharged
YG99B	1440 min Winter	1403	5.167	0.217	0.015		Surcharged
S56	1440 min Winter	1395	5.167	0.790	0.554		Surcharged
RWP63A	1440 min Winter	1397	5.167	0.067	0.007		OK
RE68A	1440 min Winter	1397	5.167	0.167	0.000		Surcharged
PS186	1440 min Winter	1400	5.167	0.267	0.029		Surcharged
RWP64B	1440 min Winter	1399	5.167	0.067	0.007		OK
PS185	1440 min Winter	1396	5.167	0.367	0.060		Surcharged
S69	1440 min Winter	1393	5.167	0.592	0.030		Surcharged
RWP64A	1440 min Winter	1398	5.167	0.067	0.037		OK
RE65A	1440 min Winter	1400	5.167	0.167	0.017		Surcharged
S118 (D)	1440 min Winter	1391	5.167	0.167	0.024		Surcharged
PS196	1440 min Winter	1394	5.167	0.317	0.028		Surcharged
RWP64C	1440 min Winter	1386	5.167	0.067	0.026		OK
PS193	1440 min Winter	1403	5.167	0.417	0.009		Surcharged
S59	1440 min Winter	1403	5.167	0.647	0.111		Surcharged
S60	1440 min Winter	1390	5.167	0.702	0.140		Surcharged
S57	1440 min Winter	1388	5.167	0.822	0.717		Surcharged
S53	1440 min Winter	1399	5.167	0.847	1.206		Surcharged
S54	1440 min Winter	1399	5.167	0.867	1.207		Surcharged
S65	1440 min Winter	1395	5.167	0.917	1.362		Surcharged
S66	1440 min Winter	1395	5.167	0.942	1.388		Surcharged
S67	1440 min Winter	1396	5.167	1.017	1.375		Surcharged
S71	1440 min Winter	1396	5.167	1.067	1.475		Surcharged
RE153A	1440 min Winter	1392	5.167	0.117	0.002		Surcharged
PS31	1440 min Winter	1402	5.167	0.492	0.017		Surcharged
RE153B	1440 min Winter	1398	5.167	0.167	0.000		Surcharged
RWP153H	1440 min Winter	1391	5.167	0.067	0.000		OK
PS34	1440 min Winter	1391	5.167	0.417	0.026		Surcharged
PS35	1440 min Winter	1394	5.167	0.617	0.037		Surcharged
S15 (D)	1440 min Winter	1419	5.168	0.368	0.024		Surcharged
S14	1440 min Winter	1399	5.167	0.767	0.150		Surcharged
S72	1440 min Winter	1393	5.167	1.117	1.638		Surcharged
S73	15 min Summer	0	5.000	1.000	1.715		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	RWP87A	RE85A	0.000	0.000	0.000	0.000	OK
1.001	15 min Summer	12	RE85A	PS52	0.016	0.000	0.000	0.000	OK
1.002	15 min Summer	12	PS52	PS53	0.066	0.157	0.857	0.130	OK
1.003	30 min Summer	22	PS53	PS49	0.100	0.235	1.268	0.179	Surcharged
2.000	15 min Summer	0	RWP85A	RE85B	0.000	0.000	0.000	0.000	OK
2.001	15 min Summer	11	RE85B	PS50	0.015	0.000	0.000	0.000	OK
2.002	15 min Summer	12	PS50	PS48	0.065	0.185	0.955	0.145	OK
2.003	30 min Summer	22	PS48	PS49	0.100	0.246	1.276	0.138	Surcharged
3.000	15 min Summer	8	RWP86A	PS49	0.050	0.000	0.000	0.000	OK
1.004	30 min Summer	22	PS49	PS47	0.150	0.211	3.732	0.243	Surcharged
4.000	15 min Summer	8	S114 (D)	PS47	0.090	2.130	10.658	0.092	OK
1.005	60 min Summer	31	PS47	S115	0.150	0.681	10.758	0.364	Surcharged
5.000	60 min Summer	43	S116 (D)	S49	0.085	0.749	3.027	0.040	OK
5.001	15 min Winter	8	S49	S115	0.150	0.927	16.380	1.129	Surcharged
1.006	15 min Winter	14	S115	S50	0.150	1.263	22.207	1.537	Surcharged
6.000	15 min Summer	0	RWP84A	RE84A	0.000	0.000	0.000	0.000	OK
6.001	15 min Summer	11	RE84A	PS56	0.043	0.000	0.000	0.000	OK
6.002	15 min Summer	12	PS56	PS55	0.093	0.258	1.386	0.194	OK
6.003	15 min Winter	13	PS55	PS54	0.100	0.277	1.567	0.263	Surcharged
7.000	15 min Summer	0	RWP84B	RE84B	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
7.001	15 min Summer	8	RE84B	PS54	0.050	0.000	0.000	0.000	OK
6.004	15 min Winter	14	PS54	PS46	0.150	0.201	3.254	0.223	Surcharged
8.000	15 min Summer	8	S113 (D)	PS46	0.091	1.670	11.403	0.108	OK
6.005	30 min Summer	20	PS46	S50	0.150	0.930	8.395	0.480	Surcharged
9.000	15 min Summer	0	YG80A	RE80A	0.000	0.000	0.000	0.000	OK
10.000	15 min Summer	0	RWP80A	RE80A	0.000	0.000	0.000	0.000	OK
9.001	15 min Summer	9	RE80A	PS240	0.050	0.000	0.000	0.000	OK
11.000	15 min Summer	9	RWP80B	PS240	0.050	0.000	0.000	0.000	OK
9.002	15 min Winter	13	PS240	S50	0.150	0.125	1.825	0.068	Surcharged
1.007	15 min Winter	13	S50	S51	0.300	0.739	38.159	0.572	Surcharged
1.008	15 min Winter	12	S51	S52	0.300	0.689	48.676	0.814	Surcharged
1.009	15 min Winter	9	S52	S53	0.300	1.383	97.751	1.774	Surcharged
12.000	15 min Summer	0	YG94A	PS253	0.000	0.000	0.000	0.000	OK
13.000	15 min Summer	0	RWP95C	PS253	0.000	0.000	0.000	0.000	OK
12.001	15 min Summer	10	PS253	PS252	0.050	0.000	0.000	0.000	OK
12.002	15 min Summer	11	PS252	PS251	0.100	0.288	2.007	0.310	Surcharged
14.000	15 min Summer	0	RWP95A	RE95A	0.000	0.000	0.000	0.000	OK
14.001	15 min Summer	8	RE95A	PS251	0.050	0.000	0.000	0.000	OK
12.003	30 min Summer	20	PS251	S104	0.150	0.199	3.128	0.113	Surcharged
15.000	15 min Winter	10	S103	S104	0.225	0.660	20.957	0.611	OK
16.000	15 min Summer	0	RWP109A	PS147	0.000	0.000	0.000	0.000	OK
17.000	15 min Summer	0	ACO109A	PS147	0.000	0.000	0.000	0.000	OK
16.001	15 min Summer	10	PS147	PS148	0.050	0.000	0.000	0.000	OK
16.002	15 min Winter	11	PS148	PS149	0.100	0.214	1.129	0.166	Surcharged
18.000	15 min Summer	11	RWP109C	RE109A	0.003	0.000	0.000	0.000	OK
18.001	15 min Summer	11	RE109A	PS149	0.053	0.019	0.079	0.009	OK
16.003	15 min Winter	13	PS149	S104	0.150	0.288	3.765	0.111	Surcharged
12.004	15 min Winter	9	S104	S120	0.300	1.532	108.320	1.449	Surcharged
19.000	15 min Summer	11	RWP106A	PS146	0.034	0.000	0.000	0.000	OK
20.000	1440 min Winter	1489	ACO106A	PS146	0.042	0.020	0.052	0.003	OK
19.001	15 min Summer	12	PS146	PS144	0.084	0.244	0.706	0.113	OK
19.002	15 min Winter	13	PS144	PS145	0.150	0.168	2.289	0.138	Surcharged
21.000	1440 min Winter	1402	RWP106C	RE106A	0.034	0.000	0.000	0.000	OK
21.001	1440 min Winter	1514	RE106A	PS145	0.084	0.011	0.053	0.006	OK
19.003	15 min Winter	13	PS145	S120	0.150	0.267	4.433	0.182	Surcharged
12.005	15 min Winter	9	S120	S136	0.375	0.984	101.377	1.064	Surcharged
12.006	15 min Winter	10	S136	S55	0.375	0.903	99.744	0.979	Surcharged
22.000	15 min Summer	0	RWP97B	RE97B	0.000	0.000	0.000	0.000	OK
22.001	15 min Summer	11	RE97B	PS244	0.050	0.000	0.000	0.000	OK
22.002	960 min Winter	1469	PS244	PS245	0.100	0.014	0.084	0.013	Surcharged
23.000	15 min Summer	0	YG97A	PS245	0.000	0.000	0.000	0.000	OK
24.000	15 min Summer	9	RWP99A	PS245	0.050	0.000	0.000	0.000	OK
22.003	15 min Winter	14	PS245	S55	0.150	0.153	2.269	0.090	Surcharged
12.007	15 min Winter	10	S55	S56	0.375	1.012	111.728	1.090	Surcharged
25.000	1440 min Winter	1393	RWP66A	RE66A	0.034	0.000	0.000	0.000	OK
25.001	1440 min Winter	1999	RE66A	PS198	0.084	0.012	0.056	0.008	OK
25.002	15 min Winter	13	PS198	PS203	0.100	0.207	1.369	0.166	Surcharged
26.000	960 min Summer	864	RWP66C	PS202	0.050	0.000	0.000	0.000	OK
26.001	1440 min Summer	2303	PS202	PS203	0.100	0.010	0.077	0.008	Surcharged
27.000	15 min Summer	8	S117 (D)	PS203	0.097	1.188	7.379	0.191	OK
25.003	120 min Winter	70	PS203	S56	0.150	0.709	7.627	0.359	Surcharged
28.000	1440 min Winter	1588	YG99B	S56	0.150	0.003	0.050	0.002	Surcharged
12.008	15 min Winter	10	S56	S57	0.375	0.998	110.231	1.279	Surcharged
29.000	1440 min Winter	1487	RWP63A	RE68A	0.084	0.012	0.084	0.004	OK
29.001	1440 min Winter	2150	RE68A	PS186	0.100	0.022	0.087	0.015	Surcharged
29.002	1440 min Winter	2150	PS186	PS185	0.150	0.006	0.115	0.007	Surcharged
30.000	1440 min Winter	1458	RWP64B	PS185	0.084	0.011	0.055	0.004	OK
29.003	15 min Winter	13	PS185	S69	0.150	0.230	2.115	0.097	Surcharged
29.004	15 min Winter	14	S69	S59	0.300	0.153	5.232	0.084	Surcharged
31.000	1440 min Winter	1631	RWP64A	RE65A	0.084	0.013	0.082	0.004	OK
31.001	1440 min Winter	2123	RE65A	PS196	0.100	0.013	0.102	0.013	Surcharged
32.000	1440 min Winter	1163	S118 (D)	PS196	0.150	0.471	0.336	0.010	Surcharged
31.002	30 min Summer	18	PS196	PS193	0.150	0.854	4.423	0.269	Surcharged
33.000	1440 min Winter	1536	RWP64C	PS193	0.084	0.012	0.073	0.006	OK
31.003	30 min Summer	22	PS193	S59	0.150	0.924	5.224	0.233	Surcharged
29.005	15 min Winter	8	S59	S60	0.300	0.654	22.403	0.380	Surcharged
29.006	15 min Winter	13	S60	S57	0.300	0.489	24.196	0.431	Surcharged
12.009	30 min Summer	19	S57	S53	0.375	1.139	125.846	1.368	Surcharged

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
1.010	15 min Winter	11	S53	S54	0.375	1.956	215.985	2.413	Surcharged
1.011	15 min Winter	15	S54	S65	0.375	2.475	215.722	2.372	Surcharged
1.012	15 min Winter	15	S65	S66	0.375	1.152	122.673	1.181	Surcharged
1.013	15 min Winter	17	S66	S67	0.375	1.198	121.063	1.297	Surcharged
1.014	15 min Winter	18	S67	S71	0.375	1.543	118.801	1.483	Surcharged
1.015	720 min Summer	736	S71	S72	0.300	0.024	1.713	0.017	Surcharged
34.000	1440 min Winter	1682	RE153A	PS31	0.100	0.017	0.116	0.016	Surcharged
34.001	1440 min Winter	1926	PS31	PS35	0.150	0.010	0.183	0.013	Surcharged
35.000	1440 min Summer	5660	RE153B	PS34	0.100	0.029	0.127	0.015	Surcharged
36.000	1440 min Winter	1443	RWP153H	PS34	0.084	0.012	0.071	0.003	OK
35.001	360 min Summer	1228	PS34	PS35	0.100	0.024	0.192	0.028	Surcharged
34.002	1440 min Summer	5650	PS35	S14	0.150	0.014	0.249	0.018	Surcharged
37.000	180 min Summer	418	S15 (D)	S14	0.150	1.403	8.856	0.291	Surcharged
34.003	15 min Winter	267	S14	S72	0.225	0.768	15.389	0.317	OK
1.016	1440 min Winter	1398	S72	S73	0.225	0.041	1.626	0.031	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S114	60 min Summer	41	5.568	0.073	3.690		OK
S116	60 min Summer	43	5.710	0.076	3.007		OK
S113	60 min Summer	44	5.465	0.102	3.320		OK
S117	60 min Summer	41	5.203	0.126	2.199		OK
S118	1440 min Winter	1399	5.167	0.052	0.039		OK
S15	1440 min Winter	1396	5.167	0.269	0.087		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
RWP87A	30 min Summer	21	5.593	0.093	0.112		OK
RE85A	30 min Summer	21	5.593	0.118	0.212		Surcharged
PS52	30 min Summer	21	5.593	0.193	0.314		Surcharged
PS53	30 min Summer	21	5.590	0.340	0.380		Surcharged
RWP85A	30 min Summer	21	5.594	0.094	0.000		OK
RE85B	30 min Summer	21	5.594	0.119	0.028		Surcharged
PS50	30 min Summer	21	5.593	0.193	0.091		Surcharged
PS48	30 min Summer	21	5.589	0.339	0.122		Surcharged
RWP86A	30 min Summer	21	5.588	0.088	0.343		OK
PS49	30 min Summer	20	5.588	0.538	2.365		Surcharged
S114 (D)	15 min Summer	11	5.588	0.088	7.155		OK
PS47	15 min Summer	10	5.592	0.642	9.030		Surcharged
S116 (D)	15 min Summer	10	5.752	0.102	6.682		OK
S49	15 min Summer	10	5.762	0.762	22.964		Surcharged
S115	15 min Summer	10	5.593	0.723	16.896		Surcharged
RWP84A	15 min Summer	12	5.482	0.082	0.000		OK
RE84A	15 min Summer	12	5.478	0.103	0.035		Surcharged
PS56	15 min Summer	11	5.467	0.267	2.219		Surcharged
PS55	15 min Summer	11	5.481	0.456	2.228		Surcharged
RWP84B	15 min Summer	11	5.501	0.101	0.195		Surcharged
RE84B	15 min Summer	11	5.500	0.125	0.255		Surcharged
PS54	15 min Summer	11	5.487	0.587	1.901		Surcharged
S113 (D)	15 min Summer	10	5.496	0.096	13.114		OK
PS46	15 min Summer	10	5.500	0.700	8.201		Surcharged
YG80A	15 min Summer	11	5.506	0.006	0.000		OK
RWP80A	15 min Summer	11	5.506	0.006	0.000		OK
RE80A	15 min Summer	10	5.508	0.108	1.307		Surcharged
RWP80B	15 min Summer	11	5.503	0.003	0.000		OK
PS240	15 min Summer	10	5.506	0.500	2.052		Surcharged
S50	15 min Summer	10	5.500	0.880	25.763		Surcharged
S51	15 min Summer	10	5.495	0.920	41.616		Surcharged
S52	15 min Summer	10	5.448	0.973	119.651		Surcharged
YG94A	15 min Summer	11	5.576	0.126	0.337		Surcharged
RWP95C	15 min Summer	12	5.575	0.000	0.000		OK
PS253	15 min Summer	11	5.575	0.175	0.575		Surcharged
PS252	15 min Summer	11	5.561	0.361	0.000		Surcharged
RWP95A	15 min Summer	10	5.592	0.017	0.713		OK
RE95A	15 min Summer	10	5.595	0.195	1.077		Surcharged
PS251	15 min Summer	10	5.596	0.596	5.013		Surcharged
S103	15 min Summer	10	5.706	0.846	28.487		Surcharged
RWP109A	15 min Summer	11	5.526	0.126	0.709		Surcharged
ACO109A	15 min Summer	11	5.526	0.126	0.703		Surcharged
PS147	15 min Summer	11	5.526	0.176	2.114		Surcharged
PS148	15 min Summer	11	5.533	0.383	1.442		Surcharged
RWP109C	15 min Summer	11	5.579	0.179	0.000		Surcharged
RE109A	15 min Summer	11	5.576	0.276	1.617		Surcharged
PS149	15 min Summer	10	5.595	0.674	7.667		Surcharged
S104	15 min Summer	10	5.600	0.970	144.643		Surcharged
RWP106A	15 min Summer	12	5.358	0.158	0.000		Surcharged
ACO106A	15 min Summer	12	5.358	0.208	0.000		Surcharged
PS146	15 min Summer	12	5.358	0.258	1.497		Surcharged
PS144	15 min Summer	11	5.366	0.441	2.745		Surcharged
RWP106C	15 min Summer	11	5.380	0.180	0.159		Surcharged
RE106A	15 min Summer	11	5.377	0.277	0.285		Surcharged
PS145	15 min Summer	11	5.364	0.564	2.562		Surcharged
S120	15 min Summer	10	5.370	0.895	135.130		Surcharged
S136	15 min Summer	10	5.329	0.881	122.738		Surcharged
RWP97B	1440 min Winter	1399	5.318	0.018	0.000		OK
RE97B	1440 min Winter	1399	5.318	0.118	0.022		Surcharged
PS244	1440 min Winter	1421	5.318	0.318	0.018		Surcharged
YG97A	15 min Summer	11	5.320	0.120	0.000		Surcharged
RWP99A	1440 min Winter	1396	5.318	0.018	0.000		OK
PS245	1440 min Winter	1402	5.318	0.518	0.040		Surcharged

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S55	1440 min Winter	1396	5.318	0.897	0.670		Surcharged
RWP66A	1440 min Winter	1402	5.318	0.118	0.010		Surcharged
RE66A	1440 min Winter	1402	5.318	0.218	0.000		Surcharged
PS198	1440 min Winter	1399	5.318	0.418	0.003		Surcharged
RWP66C	1440 min Winter	1408	5.318	0.118	0.013		Surcharged
PS202	1440 min Winter	1406	5.318	0.309	0.000		Surcharged
S117 (D)	1440 min Winter	1441	5.319	0.169	0.186		Surcharged
PS203	1440 min Winter	1401	5.318	0.718	0.064		Surcharged
YG99B	1440 min Winter	1401	5.318	0.368	0.000		Surcharged
S56	1440 min Winter	1396	5.318	0.942	0.742		Surcharged
RWP63A	1440 min Winter	1400	5.318	0.218	0.024		Surcharged
RE68A	1440 min Winter	1400	5.318	0.318	0.035		Surcharged
PS186	1440 min Winter	1400	5.318	0.418	0.025		Surcharged
RWP64B	1440 min Winter	1410	5.318	0.218	0.000		Surcharged
PS185	1440 min Winter	1397	5.318	0.518	0.031		Surcharged
S69	1440 min Winter	1400	5.318	0.743	0.005		Surcharged
RWP64A	1440 min Winter	1411	5.318	0.218	0.000		Surcharged
RE65A	1440 min Winter	1405	5.318	0.318	0.015		Surcharged
S118 (D)	1440 min Summer	1464	5.318	0.318	0.000		Surcharged
PS196	1440 min Winter	1398	5.318	0.468	0.026		Surcharged
RWP64C	1440 min Winter	1403	5.318	0.218	0.000		Surcharged
PS193	1440 min Winter	1403	5.318	0.568	0.058		Surcharged
S59	1440 min Winter	1403	5.318	0.798	0.153		Surcharged
S60	1440 min Winter	1407	5.318	0.853	0.163		Surcharged
S57	1440 min Winter	1407	5.318	0.973	0.655		Surcharged
S53	1440 min Winter	1407	5.318	0.998	1.291		Surcharged
S54	1440 min Winter	1407	5.318	1.018	1.268		Surcharged
S65	1440 min Winter	1404	5.318	1.068	1.510		Surcharged
S66	1440 min Winter	1404	5.318	1.093	1.458		Surcharged
S67	1440 min Winter	1405	5.318	1.168	1.448		Surcharged
S71	1440 min Winter	1404	5.318	1.218	1.564		Surcharged
RE153A	1440 min Winter	1405	5.318	0.268	0.000		Surcharged
PS31	1440 min Winter	1405	5.318	0.643	0.026		Surcharged
RE153B	1440 min Summer	1438	5.318	0.318	0.001		Surcharged
RWP153H	1440 min Winter	1409	5.318	0.218	0.000		Surcharged
PS34	1440 min Winter	1409	5.318	0.568	0.024		Surcharged
PS35	1440 min Winter	1413	5.318	0.768	0.020		Surcharged
S15 (D)	1440 min Winter	1403	5.318	0.518	0.090		Surcharged
S14	1440 min Winter	1412	5.318	0.918	0.150		Surcharged
S72	1440 min Winter	1405	5.318	1.268	1.679		Flood Risk
S73	15 min Summer	0	5.000	1.000	1.714		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	25	RWP87A	RE85A	0.097	0.200	0.636	0.092	OK
1.001	15 min Winter	15	RE85A	PS52	0.100	0.199	1.230	0.178	Surcharged
1.002	15 min Winter	16	PS52	PS53	0.100	0.300	2.328	0.354	Surcharged
1.003	15 min Winter	16	PS53	PS49	0.100	0.435	3.414	0.482	Surcharged
2.000	30 min Summer	25	RWP85A	RE85B	0.097	0.305	0.843	0.117	OK
2.001	15 min Winter	15	RE85B	PS50	0.100	0.204	1.312	0.183	Surcharged
2.002	15 min Winter	16	PS50	PS48	0.100	0.304	2.214	0.335	Surcharged
2.003	15 min Winter	16	PS48	PS49	0.100	0.455	3.570	0.387	Surcharged
3.000	30 min Summer	24	RWP86A	PS49	0.094	0.187	1.075	0.029	OK
1.004	15 min Winter	16	PS49	PS47	0.150	0.468	8.269	0.538	Surcharged
4.000	15 min Summer	11	S114 (D)	PS47	0.119	2.031	13.628	0.118	OK
1.005	15 min Winter	16	PS47	S115	0.150	0.841	14.856	0.502	Surcharged
5.000	15 min Summer	17	S116 (D)	S49	0.126	1.015	4.015	0.053	OK
5.001	30 min Summer	16	S49	S115	0.150	1.124	19.867	1.369	Surcharged
1.006	30 min Summer	26	S115	S50	0.150	1.503	26.557	1.838	Surcharged
6.000	15 min Summer	13	RWP84A	RE84A	0.091	0.231	0.814	0.185	OK
6.001	15 min Summer	13	RE84A	PS56	0.100	0.259	1.787	0.272	Surcharged
6.002	15 min Winter	13	PS56	PS55	0.100	0.328	2.574	0.359	Surcharged
6.003	15 min Winter	14	PS55	PS54	0.100	0.527	4.141	0.694	Surcharged
7.000	15 min Summer	12	RWP84B	RE84B	0.100	0.328	1.503	0.201	Surcharged

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
7.001	15 min Summer	12	RE84B	PS54	0.100	0.372	2.751	0.233	Surcharged
6.004	15 min Winter	14	PS54	PS46	0.150	0.337	5.964	0.409	Surcharged
8.000	15 min Summer	10	S113 (D)	PS46	0.123	1.760	14.549	0.137	OK
6.005	30 min Summer	21	PS46	S50	0.150	0.919	13.864	0.793	Surcharged
9.000	15 min Summer	11	YG80A	RE80A	0.052	0.119	0.129	0.007	OK
10.000	15 min Summer	11	RWP80A	RE80A	0.052	0.119	0.129	0.007	OK
9.001	15 min Summer	11	RE80A	PS240	0.100	0.270	2.073	0.174	Surcharged
11.000	15 min Summer	11	RWP80B	PS240	0.051	0.012	0.048	0.001	OK
9.002	15 min Winter	11	PS240	S50	0.150	0.144	2.096	0.078	Surcharged
1.007	15 min Winter	14	S50	S51	0.300	0.720	43.924	0.658	Surcharged
1.008	15 min Winter	13	S51	S52	0.300	0.774	54.735	0.916	Surcharged
1.009	15 min Winter	9	S52	S53	0.300	1.646	116.361	2.111	Surcharged
12.000	15 min Summer	12	YG94A	PS253	0.100	0.229	1.405	0.133	Surcharged
13.000	15 min Summer	12	RWP95C	PS253	0.050	0.007	0.001	0.000	OK
12.001	15 min Winter	12	PS253	PS252	0.100	0.315	2.342	0.299	Surcharged
12.002	30 min Summer	20	PS252	PS251	0.100	0.438	3.439	0.532	Surcharged
14.000	15 min Summer	11	RWP95A	RE95A	0.058	0.107	0.318	0.017	OK
14.001	15 min Winter	12	RE95A	PS251	0.100	0.279	1.496	0.150	Surcharged
12.003	15 min Winter	12	PS251	S104	0.150	0.374	6.611	0.239	Surcharged
15.000	15 min Winter	10	S103	S104	0.225	0.685	27.250	0.795	OK
16.000	30 min Summer	20	RWP109A	PS147	0.100	0.195	0.781	0.067	Surcharged
17.000	30 min Summer	21	ACO109A	PS147	0.100	0.333	1.425	0.100	Surcharged
16.001	15 min Winter	13	PS147	PS148	0.100	0.441	3.381	0.474	Surcharged
16.002	15 min Winter	13	PS148	PS149	0.100	0.581	4.565	0.670	Surcharged
18.000	15 min Winter	12	RWP109C	RE109A	0.100	0.248	1.504	0.147	Surcharged
18.001	15 min Winter	12	RE109A	PS149	0.100	0.407	2.825	0.311	Surcharged
16.003	15 min Winter	13	PS149	S104	0.150	0.520	9.193	0.270	Surcharged
12.004	15 min Winter	9	S104	S120	0.300	1.880	132.884	1.778	Surcharged
19.000	15 min Winter	14	RWP106A	PS146	0.100	0.355	1.776	0.108	Surcharged
20.000	30 min Winter	23	ACO106A	PS146	0.100	0.543	1.847	0.112	Surcharged
19.001	15 min Winter	14	PS146	PS144	0.100	0.491	3.854	0.619	Surcharged
19.002	15 min Winter	15	PS144	PS145	0.150	0.315	5.484	0.332	Surcharged
21.000	15 min Winter	13	RWP106C	RE106A	0.100	0.162	1.089	0.116	Surcharged
21.001	15 min Winter	14	RE106A	PS145	0.100	0.350	2.646	0.289	Surcharged
19.003	15 min Winter	14	PS145	S120	0.150	0.561	9.918	0.407	Surcharged
12.005	15 min Winter	9	S120	S136	0.375	1.095	120.906	1.269	Surcharged
12.006	15 min Winter	9	S136	S55	0.375	1.050	116.017	1.138	Surcharged
22.000	1440 min Winter	1543	RWP97B	RE97B	0.059	0.011	0.047	0.004	OK
22.001	1440 min Summer	1583	RE97B	PS244	0.100	0.011	0.090	0.013	Surcharged
22.002	15 min Winter	15	PS244	PS245	0.100	0.281	1.912	0.291	Surcharged
23.000	1440 min Summer	1582	YG97A	PS245	0.100	0.018	0.068	0.034	Surcharged
24.000	1440 min Winter	1565	RWP99A	PS245	0.059	0.013	0.056	0.002	OK
22.003	15 min Winter	15	PS245	S55	0.150	0.214	3.787	0.151	Surcharged
12.007	15 min Winter	9	S55	S56	0.375	1.169	129.066	1.259	Surcharged
25.000	1440 min Summer	2713	RWP66A	RE66A	0.100	0.011	0.050	0.003	Surcharged
25.001	15 min Winter	14	RE66A	PS198	0.100	0.190	1.094	0.151	Surcharged
25.002	15 min Winter	14	PS198	PS203	0.100	0.282	2.212	0.267	Surcharged
26.000	1440 min Summer	2329	RWP66C	PS202	0.100	0.014	0.075	0.004	Surcharged
26.001	15 min Winter	15	PS202	PS203	0.100	0.264	1.518	0.151	Surcharged
27.000	1440 min Summer	1258	S117 (D)	PS203	0.150	0.576	1.242	0.032	Surcharged
25.003	30 min Summer	22	PS203	S56	0.150	0.778	10.083	0.474	Surcharged
28.000	15 min Winter	15	YG99B	S56	0.150	0.107	1.568	0.052	Surcharged
12.008	15 min Winter	10	S56	S57	0.375	1.156	127.731	1.482	Surcharged
29.000	1440 min Winter	2324	RWP63A	RE68A	0.100	0.014	0.112	0.005	Surcharged
29.001	15 min Winter	14	RE68A	PS186	0.100	0.324	1.487	0.263	Surcharged
29.002	15 min Winter	14	PS186	PS185	0.150	0.169	2.840	0.168	Surcharged
30.000	1440 min Winter	2448	RWP64B	PS185	0.100	0.015	0.117	0.009	Surcharged
29.003	15 min Winter	14	PS185	S69	0.150	0.260	4.176	0.192	Surcharged
29.004	15 min Winter	16	S69	S59	0.300	0.103	7.315	0.117	Surcharged
31.000	1440 min Summer	2624	RWP64A	RE65A	0.100	0.025	0.193	0.009	Surcharged
31.001	15 min Winter	14	RE65A	PS196	0.100	0.312	1.910	0.240	Surcharged
32.000	30 min Summer	24	S118 (D)	PS196	0.150	1.039	6.108	0.180	Surcharged
31.002	30 min Summer	24	PS196	PS193	0.150	0.852	8.336	0.507	Surcharged
33.000	720 min Summer	861	RWP64C	PS193	0.100	0.017	0.131	0.012	Surcharged
31.003	15 min Winter	15	PS193	S59	0.150	0.933	9.528	0.425	Surcharged
29.005	15 min Winter	15	S59	S60	0.300	0.686	24.692	0.419	Surcharged
29.006	15 min Winter	15	S60	S57	0.300	0.479	28.814	0.514	Surcharged
12.009	15 min Winter	12	S57	S53	0.375	1.304	144.015	1.566	Surcharged

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
1.010	15 min Winter	11	S53	S54	0.375	2.276	251.405	2.809	Surcharged
1.011	15 min Winter	12	S54	S65	0.375	2.476	251.494	2.766	Surcharged
1.012	15 min Winter	13	S65	S66	0.375	1.170	128.325	1.235	Surcharged
1.013	15 min Winter	14	S66	S67	0.375	1.210	126.543	1.355	Surcharged
1.014	15 min Winter	16	S67	S71	0.375	1.519	124.632	1.556	Surcharged
1.015	600 min Summer	353	S71	S72	0.300	0.052	3.659	0.035	Surcharged
34.000	1440 min Summer	2937	RE153A	PS31	0.100	0.016	0.124	0.017	Surcharged
34.001	600 min Summer	1454	PS31	PS35	0.150	0.012	0.207	0.014	Surcharged
35.000	600 min Summer	1420	RE153B	PS34	0.100	0.020	0.159	0.018	Surcharged
36.000	1440 min Winter	3097	RWP153H	PS34	0.100	0.013	0.094	0.003	Surcharged
35.001	960 min Winter	2436	PS34	PS35	0.100	0.025	0.199	0.029	Surcharged
34.002	600 min Summer	1454	PS35	S14	0.150	0.015	0.271	0.019	Surcharged
37.000	60 min Winter	416	S15 (D)	S14	0.150	1.683	13.797	0.454	Surcharged
34.003	30 min Summer	26	S14	S72	0.225	0.658	20.263	0.417	OK
1.016	1440 min Summer	1902	S72	S73	0.225	0.043	1.696	0.032	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S114	30 min Summer	23	5.596	0.101	5.603		OK
S116	30 min Summer	24	5.731	0.097	4.696		OK
S113	60 min Summer	42	5.484	0.121	5.007		OK
S117	1440 min Winter	1409	5.318	0.240	0.044		OK
S118	1440 min Winter	1405	5.318	0.203	0.032		OK
S15	1440 min Winter	1407	5.318	0.420	0.098		OK