

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	4.426	4.000	0.201	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	0.201

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

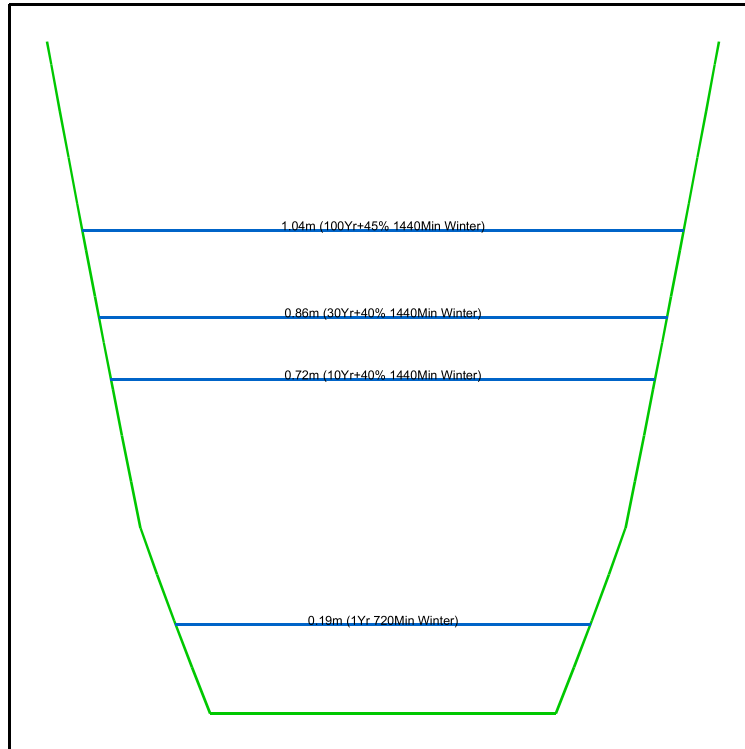
Outfall Manhole S73 : Free Discharge

Flow Control Details

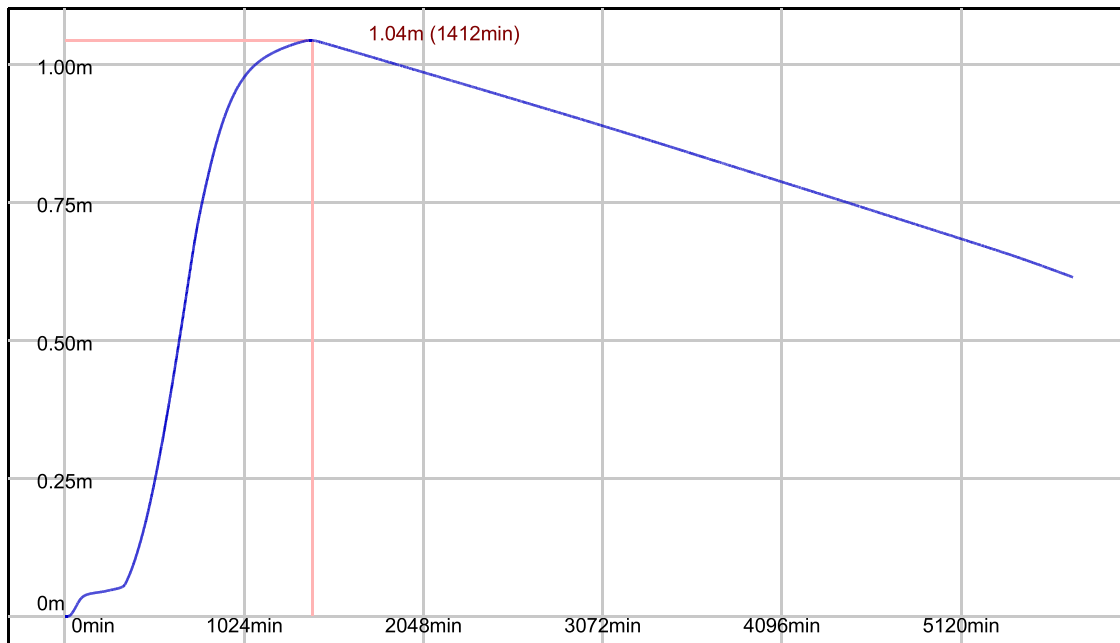
Pond Structure at Manhole S65

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



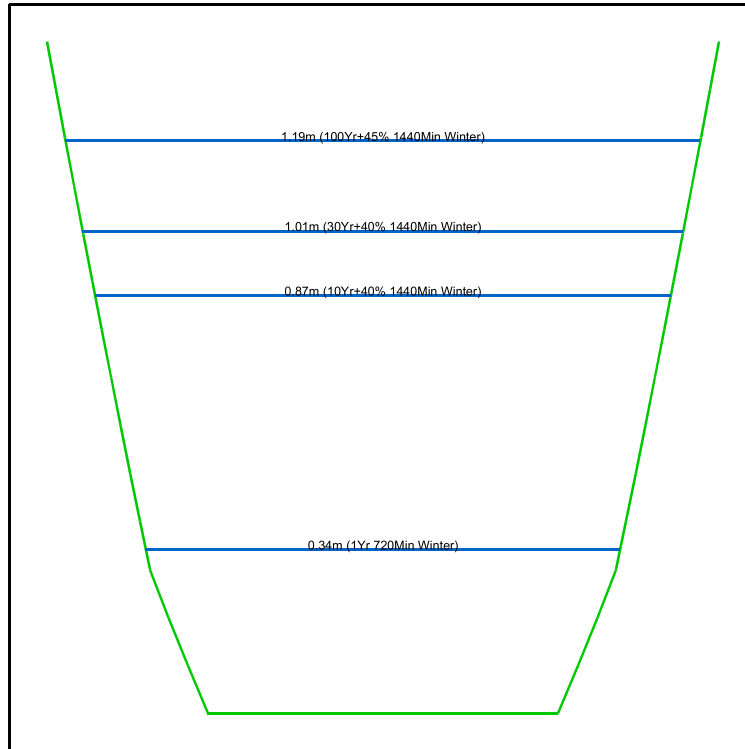
Pond at S65 (100Yr+45% 1440Min Winter)



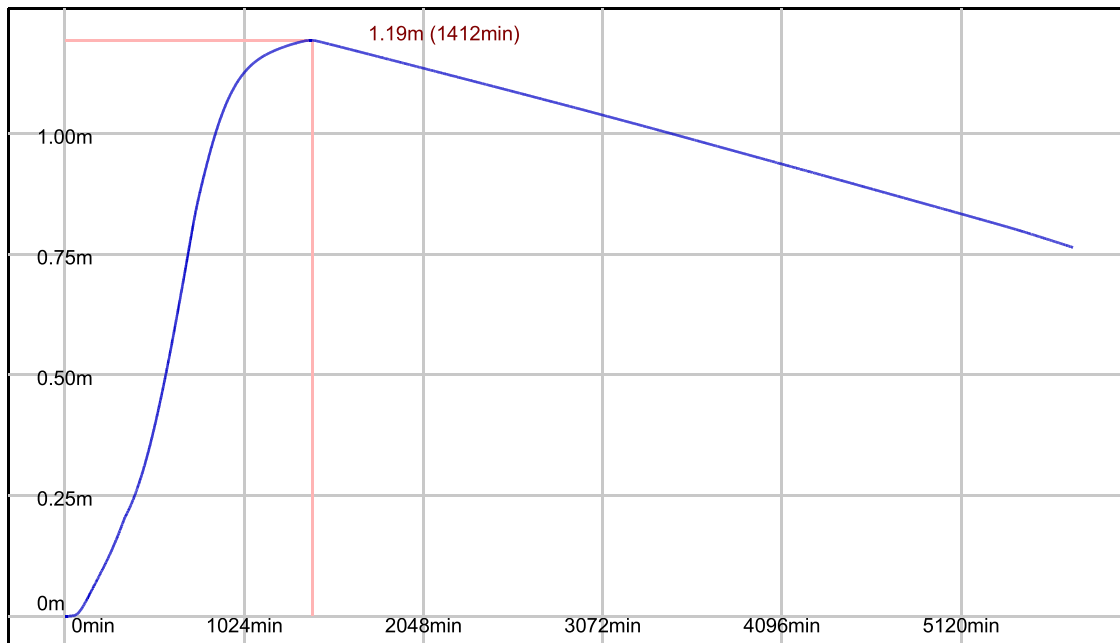
Pond Structure at Manhole S71

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)

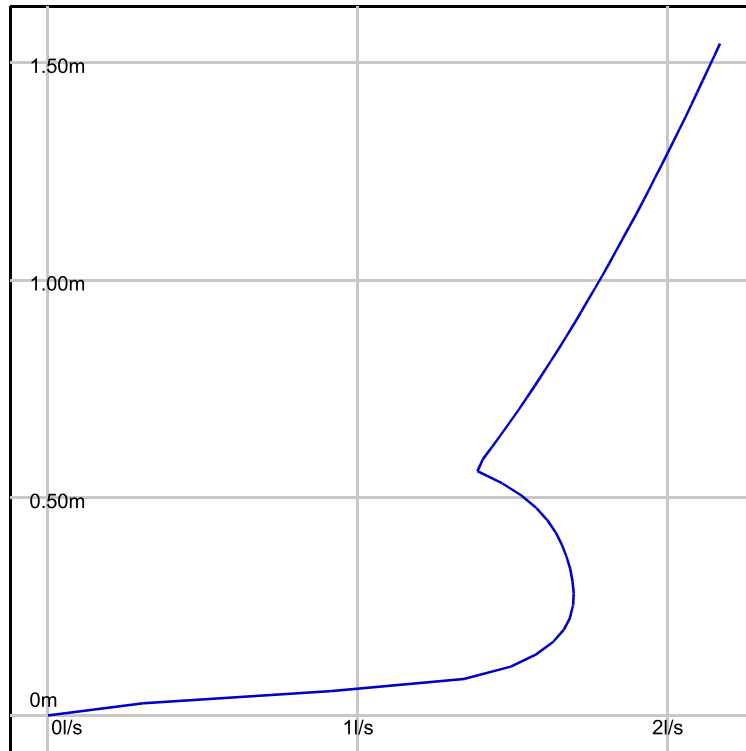


Controls within Manhole S72

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: (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	-0.17	30Yr+40% 15Min Summer	112.863	0.00	0.86
1Yr 15Min Summer	16.942	0.00	-0.17	30Yr+40% 15Min Winter	112.863	0.00	0.80
1Yr 30Min Winter	10.755	0.00	-0.09	30Yr+40% 30Min Summer	74.071	0.00	1.12
1Yr 30Min Summer	10.755	0.00	-0.10	30Yr+40% 30Min Winter	74.071	0.00	1.09
1Yr 60Min Winter	6.786	0.00	-0.07	30Yr+40% 60Min Summer	46.547	0.00	1.57
1Yr 60Min Summer	6.786	0.00	-0.05	30Yr+40% 60Min Winter	46.547	0.00	1.55
1Yr 120Min Summer	5.246	0.00	0.00	30Yr+40% 120Min Summer	27.731	0.00	1.90
1Yr 120Min Winter	5.246	0.00	0.00	30Yr+40% 120Min Winter	27.731	0.00	1.93
1Yr 180Min Summer	4.383	0.00	0.00	30Yr+40% 180Min Summer	20.307	0.00	2.02
1Yr 180Min Winter	4.383	0.00	0.00	30Yr+40% 180Min Winter	20.307	0.00	2.02
1Yr 240Min Summer	3.631	0.00	-0.04	30Yr+40% 240Min Summer	16.265	0.00	2.01
1Yr 240Min Winter	3.631	0.00	-0.04	30Yr+40% 240Min Winter	16.265	0.00	2.02
1Yr 360Min Summer	2.818	0.00	0.00	30Yr+40% 360Min Summer	11.803	0.00	1.87
1Yr 360Min Winter	2.818	0.00	0.00	30Yr+40% 360Min Winter	11.803	0.00	1.87
1Yr 480Min Summer	2.343	0.00	0.00	30Yr+40% 480Min Summer	9.367	0.00	1.67
1Yr 480Min Winter	2.343	0.00	0.00	30Yr+40% 480Min Winter	9.367	0.00	1.67
1Yr 600Min Summer	2.004	0.00	0.00	30Yr+40% 600Min Summer	7.810	0.00	1.44
1Yr 600Min Winter	2.004	0.00	0.00	30Yr+40% 600Min Winter	7.810	0.00	1.44
1Yr 720Min Winter	1.752	0.00	0.00	30Yr+40% 720Min Summer	6.721	0.00	1.19
1Yr 720Min Summer	1.752	0.00	0.00	30Yr+40% 720Min Winter	6.721	0.00	1.20
1Yr 960Min Summer	1.420	0.00	0.00	30Yr+40% 960Min Summer	5.302	0.00	0.76
1Yr 960Min Winter	1.420	0.00	0.00	30Yr+40% 960Min Winter	5.302	0.00	0.76
1Yr 1440Min Summer	1.059	0.00	0.00	30Yr+40% 1440Min Summer	3.817	0.00	0.25
1Yr 1440Min Winter	1.059	0.00	0.00	30Yr+40% 1440Min Winter	3.817	0.00	0.25
10Yr+40% 15Min Summer	87.036	0.00	0.65	100Yr+45% 15Min Summer	146.276	0.00	1.24
10Yr+40% 15Min Winter	87.036	0.00	0.58	100Yr+45% 15Min Winter	146.276	0.00	1.20
10Yr+40% 30Min Summer	56.678	0.00	0.70	100Yr+45% 30Min Summer	96.982	0.00	1.85
10Yr+40% 30Min Winter	56.678	0.00	0.69	100Yr+45% 30Min Winter	96.982	0.00	1.83
10Yr+40% 60Min Summer	35.401	0.00	0.91	100Yr+45% 60Min Summer	61.530	0.00	2.50
10Yr+40% 60Min Winter	35.401	0.00	0.86	100Yr+45% 60Min Winter	61.530	0.00	2.49
10Yr+40% 120Min Winter	21.745	0.00	1.16	100Yr+45% 120Min Summer	35.946	0.00	2.74
10Yr+40% 120Min Summer	21.745	0.00	1.11	100Yr+45% 120Min Winter	35.946	0.00	2.75
10Yr+40% 180Min Summer	16.178	0.00	1.25	100Yr+45% 180Min Summer	26.053	0.00	2.82
10Yr+40% 180Min Winter	16.178	0.00	1.26	100Yr+45% 180Min Winter	26.053	0.00	2.82
10Yr+40% 240Min Summer	13.001	0.00	1.26	100Yr+45% 240Min Summer	20.923	0.00	2.83
10Yr+40% 240Min Winter	13.001	0.00	1.26	100Yr+45% 240Min Winter	20.923	0.00	2.83
10Yr+40% 360Min Summer	9.488	0.00	1.13	100Yr+45% 360Min Summer	15.176	0.00	2.70
10Yr+40% 360Min Winter	9.488	0.00	1.13	100Yr+45% 360Min Winter	15.176	0.00	2.70
10Yr+40% 480Min Summer	7.563	0.00	0.95	100Yr+45% 480Min Summer	12.028	0.00	2.51
10Yr+40% 480Min Winter	7.563	0.00	0.95	100Yr+45% 480Min Winter	12.028	0.00	2.51
10Yr+40% 600Min Winter	6.323	0.00	0.77	100Yr+45% 600Min Summer	10.033	0.00	2.29
10Yr+40% 600Min Summer	6.323	0.00	0.77	100Yr+45% 600Min Winter	10.033	0.00	2.29
10Yr+40% 720Min Summer	5.451	0.00	0.60	100Yr+45% 720Min Summer	8.641	0.00	2.07
10Yr+40% 720Min Winter	5.451	0.00	0.60	100Yr+45% 720Min Winter	8.641	0.00	2.07
10Yr+40% 960Min Summer	4.313	0.00	0.34	100Yr+45% 960Min Summer	6.827	0.00	1.63
10Yr+40% 960Min Winter	4.313	0.00	0.34	100Yr+45% 960Min Winter	6.827	0.00	1.63
10Yr+40% 1440Min Summer	3.111	0.00	0.08	100Yr+45% 1440Min Winter	4.922	0.00	0.86
10Yr+40% 1440Min Winter	3.111	0.00	0.08	100Yr+45% 1440Min Summer	4.922	0.00	0.86

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
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	3.322		OK
PS47	15 min Summer	8	4.981	0.031	2.872		OK
S116 (D)	600 min Summer	346	5.655	0.005	0.174		OK
S49	15 min Summer	8	5.048	0.048	3.345		OK
S115	15 min Summer	9	4.937	0.067	6.019		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	-	0	4.900	0.000	0.000		OK
S113 (D)	15 min Summer	8	5.418	0.018	3.792		OK
PS46	15 min Summer	8	4.843	0.043	3.260		OK
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	15 min Summer	9	4.702	0.082	10.851		OK
S51	15 min Summer	9	4.671	0.096	13.755		OK
S52	15 min Summer	9	4.609	0.134	24.531		OK
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	15 min Summer	9	4.911	0.051	3.973		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	-	0	4.921	0.000	0.000		OK
S104	15 min Summer	8	4.735	0.105	20.576		OK
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	-	0	4.925	0.000	0.000		OK
RWP106C	-	0	5.200	0.000	0.000		OK
RE106A	-	0	5.100	0.000	0.000		OK
PS145	-	0	4.800	0.000	0.000		OK
S120	15 min Summer	9	4.591	0.116	20.707		OK
S136	15 min Summer	9	4.565	0.117	20.787		OK
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	-	0	4.800	0.000	0.000		OK
S55	15 min Summer	9	4.545	0.125	23.872		OK
RWP66A	-	0	5.200	0.000	0.000		OK
RE66A	-	0	5.100	0.000	0.000		OK
PS198	-	0	4.900	0.000	0.000		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	5.171	0.021	2.346		OK
PS203	15 min Summer	8	4.628	0.028	1.656		OK
YG99B	-	0	4.950	0.000	0.000		OK
S56	15 min Summer	10	4.524	0.147	24.206		OK
RWP63A	-	0	5.100	0.000	0.000		OK
RE68A	-	0	5.000	0.000	0.000		OK
PS186	-	0	4.900	0.000	0.000		OK
RWP64B	-	0	5.100	0.000	0.000		OK
PS185	-	0	4.800	0.000	0.000		OK
S69	15 min Summer	9	4.583	0.008	0.015		OK
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	1.273		OK
PS196	15 min Summer	8	4.878	0.028	1.264		OK
RWP64C	-	0	5.100	0.000	0.000		OK
PS193	15 min Summer	9	4.774	0.024	1.239		OK
S59	15 min Summer	9	4.582	0.062	5.695		OK
S60	15 min Summer	9	4.528	0.063	5.660		OK
S57	15 min Summer	10	4.511	0.166	30.087		OK
S53	15 min Summer	10	4.502	0.182	54.116		OK
S54	15 min Summer	10	4.469	0.169	54.316		OK
S65	720 min Winter	634	4.442	0.192	1.340		OK
S66	720 min Winter	634	4.442	0.217	1.341		OK
S67	720 min Winter	637	4.442	0.292	1.327		OK
S71	720 min Winter	637	4.442	0.342	1.419		Surcharged
RE153A	-	0	5.050	0.000	0.000		OK
PS31	-	0	4.675	0.000	0.000		OK
RE153B	-	0	5.000	0.000	0.000		OK
RWP153H	-	0	5.100	0.000	0.000		OK
PS34	-	0	4.750	0.000	0.000		OK
PS35	-	0	4.550	0.000	0.000		OK
S15 (D)	15 min Summer	8	4.848	0.048	6.832		OK
S14	15 min Summer	8	4.456	0.056	6.795		OK
S72	720 min Winter	637	4.442	0.392	1.674		Surcharged
S73	360 min Winter	704	4.027	0.027	1.696		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	15 min Summer	8	PS49	PS47	0.016	0.000	0.000	0.000	OK
4.000	15 min Summer	8	S114 (D)	PS47	0.024	1.607	2.872	0.025	OK
1.005	15 min Summer	9	PS47	S115	0.049	0.631	2.858	0.097	OK
5.000	15 min Summer	8	S116 (D)	S49	0.024	0.000	0.000	0.000	OK
5.001	15 min Summer	9	S49	S115	0.058	0.532	3.273	0.226	OK
1.006	15 min Summer	9	S115	S50	0.067	0.792	6.078	0.421	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	15 min Winter	0	PS55	PS54	0.000	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	15 min Winter	0	RE84B	PS54	0.000	0.000	0.000	0.000	OK
6.004	15 min Summer	8	PS54	PS46	0.022	0.000	0.000	0.000	OK
8.000	15 min Summer	8	S113 (D)	PS46	0.031	1.273	3.260	0.031	OK
6.005	15 min Summer	8	PS46	S50	0.043	0.762	3.233	0.185	OK
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	15 min Winter	0	PS240	S50	0.000	0.000	0.000	0.000	OK
1.007	15 min Summer	9	S50	S51	0.089	0.629	10.903	0.163	OK
1.008	15 min Summer	9	S51	S52	0.115	0.547	13.625	0.228	OK
1.009	15 min Summer	10	S52	S53	0.126	0.852	23.691	0.430	OK
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	15 min Winter	0	PS251	S104	0.000	0.000	0.000	0.000	OK
15.000	15 min Summer	9	S103	S104	0.051	0.591	4.000	0.117	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	15 min Winter	0	PS148	PS149	0.000	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	15 min Winter	0	RE109A	PS149	0.000	0.000	0.000	0.000	OK
16.003	15 min Winter	0	PS149	S104	0.000	0.000	0.000	0.000	OK
12.004	15 min Summer	9	S104	S120	0.105	0.921	20.279	0.271	OK
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	15 min Winter	0	PS146	PS144	0.000	0.000	0.000	0.000	OK
19.002	15 min Winter	0	PS144	PS145	0.000	0.000	0.000	0.000	OK
21.000	15 min Winter	0	RWP106C	RE106A	0.000	0.000	0.000	0.000	OK
21.001	15 min Winter	0	RE106A	PS145	0.000	0.000	0.000	0.000	OK
19.003	15 min Winter	0	PS145	S120	0.000	0.000	0.000	0.000	OK
12.005	15 min Summer	9	S120	S136	0.116	0.715	20.787	0.218	OK
12.006	15 min Summer	9	S136	S55	0.121	0.680	20.831	0.204	OK
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	15 min Winter	0	PS244	PS245	0.000	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	15 min Winter	0	RWP99A	PS245	0.000	0.000	0.000	0.000	OK
22.003	15 min Winter	0	PS245	S55	0.000	0.000	0.000	0.000	OK
12.007	15 min Summer	9	S55	S56	0.135	0.677	23.691	0.231	OK
25.000	15 min Winter	0	RWP66A	RE66A	0.000	0.000	0.000	0.000	OK
25.001	15 min Winter	0	RE66A	PS198	0.000	0.000	0.000	0.000	OK
25.002	15 min Winter	0	PS198	PS203	0.000	0.000	0.000	0.000	OK
26.000	15 min Winter	0	RWP66C	PS202	0.000	0.000	0.000	0.000	OK
26.001	15 min Winter	0	PS202	PS203	0.000	0.000	0.000	0.000	OK
27.000	15 min Summer	8	S117 (D)	PS203	0.025	0.874	1.656	0.043	OK
25.003	15 min Summer	8	PS203	S56	0.028	0.718	1.643	0.077	OK
28.000	15 min Winter	0	YG99B	S56	0.000	0.000	0.000	0.000	OK
12.008	15 min Summer	10	S56	S57	0.157	0.575	24.599	0.285	OK
29.000	15 min Winter	0	RWP63A	RE68A	0.000	0.000	0.000	0.000	OK
29.001	15 min Winter	0	RE68A	PS186	0.000	0.000	0.000	0.000	OK
29.002	15 min Winter	0	PS186	PS185	0.000	0.000	0.000	0.000	OK
30.000	15 min Winter	0	RWP64B	PS185	0.000	0.000	0.000	0.000	OK
29.003	15 min Winter	0	PS185	S69	0.000	0.000	0.000	0.000	OK
29.004	15 min Summer	10	S69	S59	0.035	0.020	0.063	0.001	OK
31.000	15 min Winter	0	RWP64A	RE65A	0.000	0.000	0.000	0.000	OK
31.001	15 min Winter	0	RE65A	PS196	0.000	0.000	0.000	0.000	OK
32.000	15 min Summer	8	S118 (D)	PS196	0.024	0.691	1.264	0.037	OK
31.002	15 min Summer	8	PS196	PS193	0.026	0.608	1.253	0.076	OK
33.000	15 min Winter	0	RWP64C	PS193	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
31.003	15 min Summer	9	PS193	S59	0.024	0.689	1.249	0.056	OK
29.005	15 min Summer	9	S59	S60	0.062	0.549	5.660	0.096	OK
29.006	15 min Summer	10	S60	S57	0.077	0.482	5.545	0.099	OK
12.009	15 min Summer	10	S57	S53	0.174	0.605	30.425	0.331	OK
1.010	15 min Summer	10	S53	S54	0.176	1.069	54.316	0.607	OK
1.011	720 min Winter	633	S54	S65	0.167	0.512	7.260	0.080	OK
1.012	720 min Winter	634	S65	S66	0.204	0.527	6.975	0.067	OK
1.013	720 min Winter	637	S66	S67	0.254	0.430	6.918	0.074	OK
1.014	720 min Winter	637	S67	S71	0.317	0.365	6.614	0.083	OK
1.015	600 min Winter	1664	S71	S72	0.300	0.438	8.549	0.083	Surcharged
34.000	15 min Winter	0	RE153A	PS31	0.000	0.000	0.000	0.000	OK
34.001	15 min Winter	0	PS31	PS35	0.000	0.000	0.000	0.000	OK
35.000	15 min Winter	0	RE153B	PS34	0.000	0.000	0.000	0.000	OK
36.000	15 min Winter	0	RWP153H	PS34	0.000	0.000	0.000	0.000	OK
35.001	15 min Winter	0	PS34	PS35	0.000	0.000	0.000	0.000	OK
34.002	15 min Winter	0	PS35	S14	0.000	0.000	0.000	0.000	OK
37.000	15 min Summer	8	S15 (D)	S14	0.048	1.392	6.795	0.223	OK
34.003	720 min Winter	639	S14	S72	0.133	0.232	1.180	0.024	OK
1.016	360 min Winter	704	S72	S73	0.027	0.613	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	240 min Summer	137	5.517	0.022	0.366		OK
S116	600 min Summer	346	5.660	0.026	0.174		OK
S113	720 min Summer	408	5.412	0.049	0.210		OK
S117	720 min Summer	406	5.161	0.084	0.106		OK
S118	180 min Summer	103	5.123	0.009	0.172		OK
S15	480 min Summer	278	4.917	0.019	0.580		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	15 min Summer	11	5.359	0.109	0.000		Surcharged
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	15 min Summer	11	5.359	0.109	0.000		Surcharged
RWP86A	-	0	5.500	0.000	0.000		OK
PS49	15 min Summer	11	5.356	0.306	0.961		Surcharged
S114 (D)	15 min Summer	8	5.536	0.036	17.065		OK
PS47	15 min Summer	11	5.350	0.400	9.799		Surcharged
S116 (D)	60 min Summer	42	5.667	0.017	2.067		OK
S49	15 min Summer	10	5.436	0.436	13.662		Surcharged
S115	15 min Summer	11	5.340	0.470	20.672		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	15 min Summer	10	5.163	0.138	0.600		Surcharged
RWP84B	-	0	5.400	0.000	0.000		OK
RE84B	-	0	5.375	0.000	0.000		OK
PS54	15 min Summer	10	5.160	0.260	1.163		Surcharged
S113 (D)	15 min Summer	8	5.441	0.041	19.477		OK
PS46	15 min Summer	10	5.156	0.356	14.027		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	5.142	0.136	0.000		OK
S50	15 min Summer	10	5.141	0.521	39.603		Surcharged
S51	15 min Summer	10	5.126	0.551	50.511		Surcharged
S52	15 min Summer	10	5.060	0.585	94.990		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	15 min Summer	10	5.084	0.084	0.000		OK
S103	15 min Summer	10	5.116	0.256	16.948		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	15 min Summer	10	5.081	0.160	0.138		Surcharged
S104	15 min Summer	10	5.082	0.452	85.849		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	15 min Summer	10	4.997	0.072	0.665		OK
RWP106C	-	0	5.200	0.000	0.000		OK
RE106A	-	0	5.100	0.000	0.000		OK
PS145	15 min Summer	10	4.991	0.191	1.295		Surcharged
S120	15 min Summer	10	4.987	0.512	86.850		Surcharged
S136	1440 min Winter	1387	4.971	0.523	0.382		Surcharged
RWP97B	-	0	5.300	0.000	0.000		OK
RE97B	-	0	5.200	0.000	0.000		OK
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	1377	4.971	0.171	0.002		Surcharged

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S55	1440 min Winter	1387	4.971	0.550	0.446		Surcharged
RWP66A	-	0	5.200	0.000	0.000		OK
RE66A	-	0	5.100	0.000	0.000		OK
PS198	1440 min Winter	1392	4.971	0.071	0.000		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	5.201	0.051	12.051		OK
PS203	1440 min Winter	1384	4.971	0.371	0.077		Surcharged
YG99B	1440 min Winter	1384	4.971	0.021	0.023		OK
S56	1440 min Winter	1384	4.971	0.594	0.557		Surcharged
RWP63A	-	0	5.100	0.000	0.000		OK
RE68A	-	0	5.000	0.000	0.000		OK
PS186	1440 min Winter	1382	4.971	0.071	0.024		OK
RWP64B	-	0	5.100	0.000	0.000		OK
PS185	1440 min Winter	1389	4.971	0.171	0.031		Surcharged
S69	1440 min Winter	1396	4.971	0.396	0.044		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	5.044	0.044	6.556		OK
PS196	1440 min Winter	1384	4.971	0.121	0.041		OK
RWP64C	-	0	5.100	0.000	0.000		OK
PS193	1440 min Winter	1390	4.971	0.221	0.023		Surcharged
S59	1440 min Winter	1387	4.971	0.451	0.096		Surcharged
S60	1440 min Winter	1394	4.971	0.506	0.149		Surcharged
S57	1440 min Winter	1394	4.971	0.626	0.559		Surcharged
S53	1440 min Winter	1394	4.971	0.651	1.134		Surcharged
S54	1440 min Winter	1394	4.971	0.671	1.160		Surcharged
S65	1440 min Winter	1389	4.971	0.721	1.364		Surcharged
S66	1440 min Winter	1389	4.971	0.746	1.382		Surcharged
S67	1440 min Winter	1389	4.971	0.821	1.383		Surcharged
S71	1440 min Winter	1388	4.971	0.871	1.488		Surcharged
RE153A	-	0	5.050	0.000	0.000		OK
PS31	1440 min Winter	1385	4.971	0.296	0.000		Surcharged
RE153B	-	0	5.000	0.000	0.000		OK
RWP153H	-	0	5.100	0.000	0.000		OK
PS34	1440 min Winter	1392	4.971	0.221	0.000		Surcharged
PS35	1440 min Winter	1392	4.971	0.421	0.031		Surcharged
S15 (D)	1440 min Winter	1389	4.971	0.171	0.163		Surcharged
S14	1440 min Winter	1390	4.971	0.571	0.219		Surcharged
S72	1440 min Winter	1387	4.971	0.921	1.692		Surcharged
S73	480 min Summer	183	4.027	0.027	1.696		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	11	PS52	PS53	0.050	0.000	0.000	0.000	OK
1.003	15 min Summer	12	PS53	PS49	0.100	0.276	1.203	0.170	Surcharged
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	11	PS50	PS48	0.050	0.000	0.000	0.000	OK
2.003	15 min Summer	12	PS48	PS49	0.100	0.276	1.258	0.136	Surcharged
3.000	15 min Summer	9	RWP86A	PS49	0.050	0.000	0.000	0.000	OK
1.004	15 min Winter	12	PS49	PS47	0.150	0.156	2.582	0.168	Surcharged
4.000	15 min Summer	8	S114 (D)	PS47	0.093	2.223	15.550	0.134	OK
1.005	30 min Summer	15	PS47	S115	0.150	0.826	11.472	0.388	Surcharged
5.000	60 min Summer	42	S116 (D)	S49	0.081	0.685	2.070	0.027	OK
5.001	15 min Winter	8	S49	S115	0.150	0.717	12.646	0.871	Surcharged
1.006	30 min Summer	20	S115	S50	0.150	1.249	22.063	1.527	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	15 min Summer	10	PS56	PS55	0.050	0.000	0.000	0.000	OK
6.003	15 min Summer	12	PS55	PS54	0.100	0.265	1.627	0.273	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	9	RE84B	PS54	0.050	0.000	0.000	0.000	OK
6.004	15 min Winter	13	PS54	PS46	0.150	0.229	3.080	0.211	Surcharged
8.000	15 min Summer	8	S113 (D)	PS46	0.095	1.878	17.641	0.167	OK
6.005	15 min Winter	8	PS46	S50	0.150	1.119	14.778	0.845	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	10	RE80A	PS240	0.043	0.000	0.000	0.000	OK
11.000	15 min Summer	10	RWP80B	PS240	0.043	0.000	0.000	0.000	OK
9.002	15 min Summer	12	PS240	S50	0.143	0.172	1.572	0.058	OK
1.007	15 min Winter	12	S50	S51	0.300	0.789	39.490	0.592	Surcharged
1.008	15 min Winter	11	S51	S52	0.300	0.706	49.880	0.835	Surcharged
1.009	15 min Winter	9	S52	S53	0.300	1.279	90.392	1.640	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	15 min Summer	10	PS252	PS251	0.017	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	15 min Summer	10	RE95A	PS251	0.017	0.000	0.000	0.000	OK
12.003	15 min Summer	11	PS251	S104	0.117	0.155	1.656	0.060	OK
15.000	15 min Summer	10	S103	S104	0.225	0.656	19.164	0.559	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	15 min Summer	10	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	15 min Summer	10	RE109A	PS149	0.050	0.000	0.000	0.000	OK
16.003	15 min Summer	11	PS149	S104	0.150	0.176	2.853	0.084	Surcharged
12.004	30 min Summer	16	S104	S120	0.300	1.370	88.369	1.182	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	15 min Summer	10	PS146	PS144	0.011	0.000	0.000	0.000	OK
19.002	15 min Summer	11	PS144	PS145	0.111	0.114	0.793	0.048	OK
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	1440 min Winter	1118	PS145	S120	0.150	0.032	0.428	0.018	Surcharged
12.005	15 min Winter	8	S120	S136	0.375	0.932	83.580	0.877	Surcharged
12.006	15 min Winter	9	S136	S55	0.375	0.836	81.090	0.796	Surcharged
22.000	15 min Summer	0	RWP97B	RE97B	0.000	0.000	0.000	0.000	OK
22.001	15 min Summer	0	RE97B	PS244	0.000	0.000	0.000	0.000	OK
22.002	15 min Summer	10	PS244	PS245	0.050	0.000	0.000	0.000	OK
23.000	15 min Summer	0	YG97A	PS245	0.000	0.000	0.000	0.000	OK
24.000	15 min Summer	10	RWP99A	PS245	0.050	0.000	0.000	0.000	OK
22.003	1440 min Summer	1184	PS245	S55	0.150	0.071	0.950	0.038	Surcharged
12.007	15 min Winter	8	S55	S56	0.375	0.854	90.845	0.886	Surcharged
25.000	15 min Summer	0	RWP66A	RE66A	0.000	0.000	0.000	0.000	OK
25.001	1440 min Winter	1392	RE66A	PS198	0.036	0.000	0.000	0.000	OK
25.002	1440 min Winter	1550	PS198	PS203	0.086	0.009	0.058	0.007	OK
26.000	15 min Summer	0	RWP66C	PS202	0.000	0.000	0.000	0.000	OK
26.001	15 min Summer	8	PS202	PS203	0.050	0.000	0.000	0.000	OK
27.000	15 min Summer	8	S117 (D)	PS203	0.100	1.357	9.505	0.246	OK
25.003	120 min Summer	100	PS203	S56	0.150	0.859	9.005	0.424	Surcharged
28.000	1440 min Winter	1501	YG99B	S56	0.086	0.006	0.054	0.002	OK
12.008	15 min Winter	8	S56	S57	0.375	0.849	93.817	1.089	Surcharged
29.000	15 min Summer	0	RWP63A	RE68A	0.000	0.000	0.000	0.000	OK
29.001	1440 min Winter	1382	RE68A	PS186	0.011	0.000	0.000	0.000	OK
29.002	1440 min Winter	1795	PS186	PS185	0.111	0.007	0.058	0.003	OK
30.000	720 min Summer	713	RWP64B	PS185	0.050	0.000	0.000	0.000	OK
29.003	1440 min Winter	1119	PS185	S69	0.150	0.041	0.343	0.016	Surcharged
29.004	30 min Summer	21	S69	S59	0.300	0.067	3.685	0.059	Surcharged
31.000	15 min Summer	0	RWP64A	RE65A	0.000	0.000	0.000	0.000	OK
31.001	1440 min Winter	1384	RE65A	PS196	0.035	0.000	0.000	0.000	OK
32.000	1440 min Winter	1379	S118 (D)	PS196	0.062	0.487	0.403	0.012	OK
31.002	1440 min Winter	1384	PS196	PS193	0.135	0.431	0.403	0.025	OK
33.000	15 min Summer	11	RWP64C	PS193	0.050	0.000	0.000	0.000	OK
31.003	480 min Winter	386	PS193	S59	0.150	0.640	2.338	0.104	Surcharged
29.005	15 min Winter	10	S59	S60	0.300	0.678	21.297	0.361	Surcharged
29.006	15 min Winter	13	S60	S57	0.300	0.472	20.844	0.372	Surcharged
12.009	15 min Winter	11	S57	S53	0.375	0.967	106.773	1.161	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	1.745	192.772	2.154	Surcharged
1.011	60 min Winter	53	S54	S65	0.375	1.493	129.300	1.422	Surcharged
1.012	60 min Winter	41	S65	S66	0.375	1.009	92.465	0.890	Surcharged
1.013	30 min Winter	24	S66	S67	0.375	1.102	108.553	1.163	Surcharged
1.014	30 min Summer	24	S67	S71	0.375	1.293	109.810	1.371	Surcharged
1.015	1440 min Summer	589	S71	S72	0.300	0.419	7.586	0.073	Surcharged
34.000	180 min Summer	171	RE153A	PS31	0.050	0.000	0.000	0.000	OK
34.001	1440 min Summer	3085	PS31	PS35	0.150	0.006	0.075	0.005	Surcharged
35.000	240 min Summer	218	RE153B	PS34	0.050	0.000	0.000	0.000	OK
36.000	240 min Summer	218	RWP153H	PS34	0.050	0.000	0.000	0.000	OK
35.001	1440 min Summer	2804	PS34	PS35	0.100	0.009	0.062	0.009	Surcharged
34.002	1440 min Winter	2582	PS35	S14	0.150	0.008	0.131	0.009	Surcharged
37.000	960 min Summer	868	S15 (D)	S14	0.150	1.125	4.778	0.157	Surcharged
34.003	60 min Winter	45	S14	S72	0.225	0.602	17.578	0.362	OK
1.016	1440 min Winter	504	S72	S73	0.027	0.613	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	60 min Summer	41	5.559	0.064	3.020		OK
S116	60 min Summer	42	5.697	0.063	1.544		OK
S113	120 min Summer	71	5.453	0.090	2.359		OK
S117	120 min Summer	69	5.198	0.121	1.548		OK
S118	30 min Summer	24	5.148	0.034	1.337		OK
S15	1440 min Winter	1391	4.971	0.073	0.086		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	15 min Summer	12	5.552	0.052	0.297		OK
RE85A	15 min Summer	12	5.552	0.077	0.595		OK
PS52	15 min Summer	12	5.549	0.149	0.857		Surcharged
PS53	15 min Summer	11	5.545	0.295	2.289		Surcharged
RWP85A	15 min Summer	12	5.557	0.057	0.141		OK
RE85B	15 min Summer	12	5.556	0.081	0.294		OK
PS50	15 min Summer	12	5.554	0.154	0.466		Surcharged
PS48	15 min Summer	11	5.552	0.302	2.183		Surcharged
RWP86A	15 min Summer	11	5.558	0.058	0.000		OK
PS49	15 min Summer	11	5.557	0.507	4.430		Surcharged
S114 (D)	15 min Summer	10	5.572	0.072	17.593		OK
PS47	15 min Summer	11	5.559	0.609	9.932		Surcharged
S116 (D)	15 min Summer	10	5.692	0.042	2.053		OK
S49	15 min Summer	10	5.696	0.696	17.716		Surcharged
S115	15 min Summer	11	5.555	0.685	19.516		Surcharged
RWP84A	15 min Summer	12	5.401	0.001	0.000		OK
RE84A	15 min Summer	11	5.397	0.022	0.765		OK
PS56	15 min Summer	11	5.399	0.199	0.562		Surcharged
PS55	15 min Summer	11	5.395	0.370	0.000		Surcharged
RWP84B	15 min Summer	12	5.400	0.000	0.000		OK
RE84B	15 min Summer	11	5.402	0.027	0.000		OK
PS54	15 min Summer	11	5.388	0.488	0.315		Surcharged
S113 (D)	15 min Summer	10	5.459	0.059	20.080		OK
PS46	15 min Summer	10	5.392	0.592	16.890		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	5.377	0.370	0.495		Surcharged
S50	15 min Summer	10	5.378	0.758	40.159		Surcharged
S51	15 min Summer	10	5.364	0.789	54.100		Surcharged
S52	15 min Summer	10	5.290	0.815	112.614		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	5.355	0.155	0.226		Surcharged
RWP95A	-	0	5.575	0.000	0.000		OK
RE95A	-	0	5.400	0.000	0.000		OK
PS251	15 min Summer	10	5.343	0.343	0.687		Surcharged
S103	15 min Summer	10	5.398	0.538	21.978		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	5.348	0.198	0.005		Surcharged
RWP109C	-	0	5.400	0.000	0.000		OK
RE109A	15 min Summer	10	5.333	0.033	1.070		OK
PS149	15 min Summer	10	5.341	0.421	1.465		Surcharged
S104	15 min Summer	10	5.340	0.710	111.071		Surcharged
RWP106A	15 min Summer	12	5.204	0.004	0.000		OK
ACO106A	15 min Summer	11	5.206	0.056	0.277		OK
PS146	15 min Summer	11	5.206	0.106	1.091		Surcharged
PS144	15 min Summer	11	5.201	0.276	0.766		Surcharged
RWP106C	15 min Summer	11	5.205	0.005	0.000		OK
RE106A	15 min Summer	11	5.200	0.100	0.053		OK
PS145	15 min Summer	11	5.195	0.395	0.409		Surcharged
S120	15 min Summer	11	5.191	0.716	90.304		Surcharged
S136	15 min Summer	11	5.170	0.722	92.582		Surcharged
RWP97B	-	0	5.300	0.000	0.000		OK
RE97B	-	0	5.200	0.000	0.000		OK
PS244	15 min Summer	11	5.156	0.156	0.000		Surcharged
YG97A	-	0	5.200	0.000	0.000		OK
RWP99A	-	0	5.300	0.000	0.000		OK
PS245	15 min Summer	11	5.151	0.351	0.426		Surcharged

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S55	15 min Summer	11	5.150	0.729	105.068		Surcharged
RWP66A	-	0	5.200	0.000	0.000		OK
RE66A	15 min Summer	12	5.111	0.011	0.000		OK
PS198	15 min Summer	11	5.114	0.214	0.486		Surcharged
RWP66C	-	0	5.200	0.000	0.000		OK
PS202	15 min Summer	11	5.117	0.108	0.000		Surcharged
S117 (D)	15 min Summer	8	5.208	0.058	15.626		OK
PS203	15 min Summer	11	5.111	0.511	6.487		Surcharged
YG99B	15 min Summer	11	5.109	0.159	0.061		Surcharged
S56	15 min Summer	11	5.108	0.731	113.065		Surcharged
RWP63A	1440 min Winter	1389	5.106	0.006	0.008		OK
RE68A	1440 min Winter	1397	5.106	0.106	0.029		Surcharged
PS186	1440 min Winter	1394	5.105	0.205	0.013		Surcharged
RWP64B	1440 min Winter	1404	5.106	0.006	0.000		OK
PS185	1440 min Winter	1393	5.105	0.305	0.039		Surcharged
S69	1440 min Winter	1402	5.105	0.530	0.014		Surcharged
RWP64A	1440 min Winter	1403	5.106	0.006	0.014		OK
RE65A	1440 min Winter	1401	5.106	0.106	0.039		Surcharged
S118 (D)	1440 min Winter	1403	5.105	0.105	0.036		OK
PS196	1440 min Winter	1398	5.105	0.255	0.066		Surcharged
RWP64C	1440 min Winter	1395	5.106	0.006	0.018		OK
PS193	1440 min Winter	1391	5.105	0.355	0.099		Surcharged
S59	1440 min Winter	1402	5.105	0.585	0.160		Surcharged
S60	1440 min Winter	1398	5.105	0.640	0.138		Surcharged
S57	1440 min Winter	1398	5.105	0.760	0.627		Surcharged
S53	1440 min Winter	1398	5.105	0.785	1.274		Surcharged
S54	1440 min Winter	1398	5.105	0.805	1.315		Surcharged
S65	1440 min Winter	1397	5.105	0.855	1.487		Surcharged
S66	1440 min Winter	1397	5.105	0.880	1.472		Surcharged
S67	1440 min Winter	1397	5.105	0.955	1.472		Surcharged
S71	1440 min Winter	1397	5.105	1.005	1.573		Surcharged
RE153A	1440 min Winter	1411	5.106	0.056	0.018		OK
PS31	1440 min Winter	1396	5.106	0.431	0.000		Surcharged
RE153B	1440 min Winter	1392	5.106	0.106	0.012		Surcharged
RWP153H	1440 min Winter	1400	5.106	0.006	0.000		OK
PS34	1440 min Winter	1400	5.106	0.356	0.032		Surcharged
PS35	1440 min Winter	1400	5.105	0.555	0.028		Surcharged
S15 (D)	1440 min Winter	1394	5.105	0.305	0.210		Surcharged
S14	1440 min Winter	1404	5.105	0.705	0.239		Surcharged
S72	1440 min Winter	1397	5.105	1.055	1.799		Surcharged
S73	1440 min Winter	1397	4.028	0.028	1.801		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	13	RWP87A	RE85A	0.064	0.209	0.649	0.094	OK
1.001	15 min Summer	14	RE85A	PS52	0.088	0.235	1.256	0.182	OK
1.002	15 min Winter	14	PS52	PS53	0.100	0.221	1.608	0.245	Surcharged
1.003	15 min Winter	15	PS53	PS49	0.100	0.375	2.927	0.414	Surcharged
2.000	15 min Summer	13	RWP85A	RE85B	0.069	0.219	0.679	0.094	OK
2.001	15 min Summer	13	RE85B	PS50	0.090	0.196	1.280	0.178	OK
2.002	15 min Winter	13	PS50	PS48	0.100	0.225	1.589	0.241	Surcharged
2.003	15 min Winter	14	PS48	PS49	0.100	0.418	2.886	0.313	Surcharged
3.000	15 min Summer	13	RWP86A	PS49	0.079	0.164	0.719	0.019	OK
1.004	15 min Winter	15	PS49	PS47	0.150	0.429	7.575	0.493	Surcharged
4.000	15 min Summer	10	S114 (D)	PS47	0.111	2.106	20.006	0.173	OK
1.005	30 min Summer	23	PS47	S115	0.150	0.930	15.032	0.508	Surcharged
5.000	15 min Summer	18	S116 (D)	S49	0.096	0.903	2.171	0.029	OK
5.001	15 min Winter	9	S49	S115	0.150	0.900	15.899	1.096	Surcharged
1.006	30 min Summer	23	S115	S50	0.150	1.468	25.947	1.796	Surcharged
6.000	15 min Summer	12	RWP84A	RE84A	0.011	0.009	0.001	0.000	OK
6.001	15 min Summer	12	RE84A	PS56	0.061	0.104	0.301	0.046	OK
6.002	15 min Winter	13	PS56	PS55	0.100	0.256	1.539	0.215	Surcharged
6.003	15 min Winter	13	PS55	PS54	0.100	0.382	3.002	0.503	Surcharged
7.000	15 min Summer	12	RWP84B	RE84B	0.013	0.004	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	11	RE84B	PS54	0.063	0.041	0.213	0.018	OK
6.004	15 min Winter	13	PS54	PS46	0.150	0.257	4.540	0.312	Surcharged
8.000	15 min Summer	10	S113 (D)	PS46	0.105	1.927	23.004	0.217	OK
6.005	15 min Winter	7	PS46	S50	0.150	1.126	15.545	0.889	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	8	RE80A	PS240	0.050	0.000	0.000	0.000	OK
11.000	15 min Summer	8	RWP80B	PS240	0.050	0.000	0.000	0.000	OK
9.002	15 min Winter	14	PS240	S50	0.150	0.124	1.934	0.072	Surcharged
1.007	15 min Winter	13	S50	S51	0.300	0.813	45.587	0.683	Surcharged
1.008	15 min Winter	12	S51	S52	0.300	0.806	56.976	0.953	Surcharged
1.009	15 min Winter	9	S52	S53	0.300	1.505	106.357	1.930	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	0.223	1.639	0.253	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	15 min Winter	13	PS251	S104	0.150	0.280	3.769	0.136	Surcharged
15.000	15 min Winter	10	S103	S104	0.225	0.660	20.699	0.604	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	9	PS147	PS148	0.050	0.000	0.000	0.000	OK
16.002	15 min Winter	12	PS148	PS149	0.100	0.312	1.746	0.256	Surcharged
18.000	15 min Summer	10	RWP109C	RE109A	0.017	0.000	0.000	0.000	OK
18.001	15 min Summer	11	RE109A	PS149	0.067	0.218	0.897	0.099	OK
16.003	15 min Winter	12	PS149	S104	0.150	0.231	3.782	0.111	Surcharged
12.004	15 min Winter	9	S104	S120	0.300	1.510	106.703	1.428	Surcharged
19.000	15 min Summer	12	RWP106A	PS146	0.051	0.062	0.062	0.004	OK
20.000	15 min Summer	12	ACO106A	PS146	0.078	0.336	1.314	0.080	OK
19.001	15 min Summer	12	PS146	PS144	0.100	0.400	2.985	0.480	Surcharged
19.002	15 min Winter	12	PS144	PS145	0.150	0.150	2.543	0.154	Surcharged
21.000	15 min Summer	11	RWP106C	RE106A	0.053	0.084	0.053	0.006	OK
21.001	15 min Summer	12	RE106A	PS145	0.100	0.213	1.295	0.141	OK
19.003	15 min Winter	12	PS145	S120	0.150	0.274	4.622	0.190	Surcharged
12.005	15 min Winter	9	S120	S136	0.375	0.966	100.478	1.055	Surcharged
12.006	15 min Winter	10	S136	S55	0.375	0.869	96.028	0.942	Surcharged
22.000	15 min Summer	0	RWP97B	RE97B	0.000	0.000	0.000	0.000	OK
22.001	15 min Summer	10	RE97B	PS244	0.050	0.000	0.000	0.000	OK
22.002	15 min Winter	13	PS244	PS245	0.100	0.274	1.511	0.230	Surcharged
23.000	15 min Summer	0	YG97A	PS245	0.000	0.000	0.000	0.000	OK
24.000	15 min Summer	8	RWP99A	PS245	0.050	0.000	0.000	0.000	OK
22.003	15 min Winter	13	PS245	S55	0.150	0.182	3.217	0.128	Surcharged
12.007	15 min Winter	9	S55	S56	0.375	0.975	107.666	1.050	Surcharged
25.000	15 min Summer	12	RWP66A	RE66A	0.006	0.000	0.000	0.000	OK
25.001	15 min Summer	12	RE66A	PS198	0.056	0.084	0.190	0.026	OK
25.002	15 min Winter	14	PS198	PS203	0.100	0.257	1.536	0.186	Surcharged
26.000	15 min Summer	11	RWP66C	PS202	0.050	0.000	0.000	0.000	OK
26.001	15 min Summer	12	PS202	PS203	0.100	0.120	0.792	0.079	Surcharged
27.000	15 min Summer	8	S117 (D)	PS203	0.104	1.331	12.464	0.323	OK
25.003	15 min Winter	7	PS203	S56	0.150	0.953	8.755	0.412	Surcharged
28.000	1440 min Winter	2623	YG99B	S56	0.150	0.005	0.060	0.002	Surcharged
12.008	15 min Winter	10	S56	S57	0.375	0.995	109.947	1.276	Surcharged
29.000	1440 min Winter	1400	RWP63A	RE68A	0.053	0.009	0.036	0.002	OK
29.001	1440 min Winter	1728	RE68A	PS186	0.100	0.022	0.061	0.011	Surcharged
29.002	30 min Summer	21	PS186	PS185	0.150	0.108	1.332	0.079	Surcharged
30.000	1440 min Winter	1404	RWP64B	PS185	0.053	0.007	0.030	0.002	OK
29.003	15 min Winter	14	PS185	S69	0.150	0.281	2.605	0.120	Surcharged
29.004	15 min Winter	15	S69	S59	0.300	0.117	5.653	0.091	Surcharged
31.000	1440 min Winter	1418	RWP64A	RE65A	0.053	0.009	0.039	0.002	OK
31.001	1440 min Winter	1784	RE65A	PS196	0.100	0.011	0.066	0.008	Surcharged
32.000	1440 min Winter	1403	S118 (D)	PS196	0.128	0.528	0.494	0.015	OK
31.002	15 min Winter	10	PS196	PS193	0.150	0.992	7.893	0.480	Surcharged
33.000	1440 min Winter	1399	RWP64C	PS193	0.053	0.013	0.056	0.005	OK
31.003	15 min Winter	9	PS193	S59	0.150	1.055	6.790	0.303	Surcharged
29.005	15 min Winter	13	S59	S60	0.300	0.671	22.474	0.381	Surcharged
29.006	15 min Winter	13	S60	S57	0.300	0.496	25.729	0.459	Surcharged
12.009	15 min Winter	12	S57	S53	0.375	1.160	128.120	1.393	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	2.050	226.401	2.530	Surcharged
1.011	15 min Winter	14	S54	S65	0.375	2.583	225.942	2.485	Surcharged
1.012	15 min Winter	14	S65	S66	0.375	1.140	121.408	1.169	Surcharged
1.013	15 min Winter	16	S66	S67	0.375	1.172	120.170	1.287	Surcharged
1.014	15 min Winter	17	S67	S71	0.375	1.423	117.789	1.471	Surcharged
1.015	1440 min Summer	541	S71	S72	0.300	0.415	7.439	0.072	Surcharged
34.000	1440 min Winter	1411	RE153A	PS31	0.078	0.008	0.047	0.006	OK
34.001	600 min Winter	970	PS31	PS35	0.150	0.004	0.074	0.005	Surcharged
35.000	1440 min Winter	2089	RE153B	PS34	0.100	0.009	0.053	0.006	Surcharged
36.000	1440 min Winter	1443	RWP153H	PS34	0.053	0.011	0.043	0.002	OK
35.001	720 min Winter	1184	PS34	PS35	0.100	0.011	0.089	0.013	Surcharged
34.002	60 min Summer	69	PS35	S14	0.150	0.011	0.200	0.014	Surcharged
37.000	15 min Winter	8	S15 (D)	S14	0.150	1.970	33.452	1.100	Surcharged
34.003	30 min Winter	28	S14	S72	0.225	0.933	31.375	0.646	OK
1.016	1440 min Winter	1397	S72	S73	0.028	0.623	1.801	0.034	OK

Permeable Paving Storage

Permeable Paving	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S114	30 min Summer	24	5.574	0.079	4.153		OK
S116	60 min Summer	43	5.710	0.076	3.008		OK
S113	60 min Summer	43	5.469	0.107	3.838		OK
S117	60 min Summer	39	5.211	0.134	2.582		OK
S118	30 min Summer	23	5.156	0.041	1.788		OK
S15	1440 min Winter	1395	5.105	0.207	0.114		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	22	5.647	0.147	0.000		Surcharged
RE85A	30 min Summer	22	5.647	0.172	0.102		Surcharged
PS52	30 min Summer	21	5.646	0.246	0.223		Surcharged
PS53	30 min Summer	21	5.646	0.396	0.277		Surcharged
RWP85A	30 min Summer	22	5.644	0.144	0.060		Surcharged
RE85B	30 min Summer	22	5.644	0.169	0.089		Surcharged
PS50	30 min Summer	22	5.644	0.244	0.123		Surcharged
PS48	30 min Summer	21	5.644	0.394	0.075		Surcharged
RWP86A	30 min Summer	21	5.645	0.145	0.021		Surcharged
PS49	30 min Summer	21	5.645	0.595	0.328		Surcharged
S114 (D)	15 min Summer	10	5.670	0.170	22.801		Surcharged
PS47	15 min Summer	10	5.668	0.718	8.753		Surcharged
S116 (D)	15 min Summer	9	5.784	0.134	11.063		OK
S49	15 min Summer	9	5.798	0.798	27.649		Surcharged
S115	15 min Summer	10	5.668	0.798	14.385		Surcharged
RWP84A	15 min Summer	12	5.540	0.140	0.063		Surcharged
RE84A	15 min Summer	12	5.538	0.163	0.039		Surcharged
PS56	15 min Summer	12	5.521	0.321	0.000		Surcharged
PS55	15 min Summer	11	5.540	0.515	2.813		Surcharged
RWP84B	15 min Summer	11	5.571	0.171	0.000		Surcharged
RE84B	15 min Summer	11	5.569	0.194	0.449		Surcharged
PS54	15 min Summer	10	5.555	0.655	7.937		Surcharged
S113 (D)	15 min Summer	10	5.584	0.184	26.024		Surcharged
PS46	15 min Summer	10	5.578	0.778	10.671		Surcharged
YG80A	15 min Summer	11	5.576	0.076	0.000		OK
RWP80A	15 min Summer	11	5.576	0.076	0.000		OK
RE80A	15 min Summer	11	5.576	0.176	1.650		Surcharged
RWP80B	15 min Summer	10	5.580	0.080	0.152		OK
PS240	15 min Summer	10	5.579	0.573	3.458		Surcharged
S50	15 min Summer	10	5.577	0.957	28.351		Surcharged
S51	15 min Summer	10	5.569	0.994	45.248		Surcharged
S52	15 min Summer	10	5.512	1.037	123.476		Surcharged
YG94A	15 min Summer	11	5.591	0.141	0.380		Surcharged
RWP95C	15 min Summer	11	5.588	0.013	0.648		OK
PS253	15 min Summer	11	5.590	0.190	1.174		Surcharged
PS252	15 min Summer	11	5.584	0.384	0.286		Surcharged
RWP95A	15 min Summer	10	5.612	0.037	1.070		OK
RE95A	15 min Summer	10	5.615	0.215	1.743		Surcharged
PS251	15 min Summer	10	5.622	0.622	6.057		Surcharged
S103	15 min Summer	10	5.736	0.876	28.484		Surcharged
RWP109A	15 min Summer	11	5.541	0.141	0.819		Surcharged
ACO109A	15 min Summer	11	5.541	0.141	0.804		Surcharged
PS147	15 min Summer	11	5.541	0.191	2.421		Surcharged
PS148	15 min Summer	11	5.554	0.404	1.890		Surcharged
RWP109C	15 min Summer	11	5.607	0.207	0.000		Surcharged
RE109A	15 min Summer	11	5.603	0.303	1.570		Surcharged
PS149	15 min Summer	10	5.623	0.703	8.128		Surcharged
S104	15 min Summer	10	5.629	0.999	144.561		Surcharged
RWP106A	15 min Summer	12	5.389	0.189	0.000		Surcharged
ACO106A	15 min Summer	12	5.389	0.239	0.000		Surcharged
PS146	15 min Summer	12	5.389	0.289	1.377		Surcharged
PS144	15 min Summer	11	5.397	0.472	3.011		Surcharged
RWP106C	15 min Summer	11	5.411	0.211	0.231		Surcharged
RE106A	15 min Summer	11	5.409	0.309	0.323		Surcharged
PS145	15 min Summer	11	5.395	0.595	2.872		Surcharged
S120	15 min Summer	10	5.403	0.928	133.880		Surcharged
S136	15 min Summer	10	5.363	0.915	121.534		Surcharged
RWP97B	15 min Summer	12	5.333	0.033	0.000		OK
RE97B	15 min Summer	12	5.334	0.134	1.051		Surcharged
PS244	15 min Summer	11	5.336	0.336	1.535		Surcharged
YG97A	15 min Summer	11	5.348	0.148	0.000		Surcharged
RWP99A	15 min Summer	11	5.340	0.040	0.000		OK
PS245	15 min Summer	11	5.338	0.538	1.157		Surcharged

Manholes

Manhole	Critical Storm	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Flood (m3)	Status
S55	15 min Summer	11	5.330	0.909	126.719		Surcharged
RWP66A	1440 min Winter	1400	5.293	0.093	0.000		OK
RE66A	1440 min Winter	1409	5.293	0.193	0.004		Surcharged
PS198	1440 min Winter	1400	5.293	0.393	0.012		Surcharged
RWP66C	1440 min Winter	1405	5.294	0.094	0.000		OK
PS202	1440 min Winter	1405	5.293	0.284	0.022		Surcharged
S117 (D)	1440 min Winter	1403	5.293	0.143	0.053		OK
PS203	1440 min Winter	1401	5.293	0.693	0.092		Surcharged
YG99B	1440 min Winter	1403	5.293	0.343	0.012		Surcharged
S56	1440 min Winter	1404	5.293	0.917	0.591		Surcharged
RWP63A	1440 min Winter	1409	5.293	0.193	0.000		Surcharged
RE68A	1440 min Winter	1409	5.293	0.293	0.009		Surcharged
PS186	1440 min Winter	1400	5.293	0.393	0.010		Surcharged
RWP64B	1440 min Winter	1399	5.294	0.194	0.000		Surcharged
PS185	1440 min Winter	1403	5.293	0.493	0.013		Surcharged
S69	1440 min Winter	1403	5.293	0.718	0.015		Surcharged
RWP64A	1440 min Winter	1400	5.293	0.193	0.010		Surcharged
RE65A	1440 min Winter	1408	5.293	0.293	0.019		Surcharged
S118 (D)	1440 min Winter	1404	5.293	0.293	0.026		Surcharged
PS196	1440 min Winter	1403	5.293	0.443	0.038		Surcharged
RWP64C	1440 min Winter	1410	5.294	0.194	0.000		Surcharged
PS193	1440 min Winter	1402	5.293	0.543	0.070		Surcharged
S59	1440 min Winter	1408	5.293	0.773	0.138		Surcharged
S60	1440 min Winter	1404	5.293	0.828	0.175		Surcharged
S57	1440 min Winter	1404	5.293	0.948	0.705		Surcharged
S53	1440 min Winter	1400	5.293	0.973	1.579		Surcharged
S54	1440 min Winter	1400	5.293	0.993	1.624		Surcharged
S65	1440 min Winter	1403	5.293	1.043	1.650		Surcharged
S66	1440 min Winter	1403	5.293	1.068	1.607		Surcharged
S67	1440 min Winter	1403	5.293	1.143	1.607		Surcharged
S71	1440 min Winter	1404	5.293	1.193	1.703		Surcharged
RE153A	1440 min Winter	1403	5.293	0.243	0.000		Surcharged
PS31	1440 min Winter	1408	5.293	0.618	0.005		Surcharged
RE153B	1440 min Winter	1411	5.293	0.293	0.008		Surcharged
RWP153H	1440 min Winter	1404	5.293	0.193	0.000		Surcharged
PS34	1440 min Winter	1404	5.293	0.543	0.013		Surcharged
PS35	1440 min Winter	1404	5.293	0.743	0.013		Surcharged
S15 (D)	1440 min Winter	1403	5.293	0.493	0.149		Surcharged
S14	1440 min Winter	1403	5.293	0.893	0.238		Surcharged
S72	1440 min Winter	1406	5.293	1.243	1.938		Flood Risk
S73	1440 min Winter	1404	4.029	0.029	1.943		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	17	RWP87A	RE85A	0.100	0.261	0.649	0.094	Surcharged
1.001	15 min Winter	18	RE85A	PS52	0.100	0.311	1.855	0.269	Surcharged
1.002	15 min Winter	18	PS52	PS53	0.100	0.345	2.707	0.412	Surcharged
1.003	15 min Winter	19	PS53	PS49	0.100	0.506	3.978	0.562	Surcharged
2.000	15 min Winter	17	RWP85A	RE85B	0.100	0.263	0.711	0.098	Surcharged
2.001	15 min Winter	17	RE85B	PS50	0.100	0.255	1.400	0.195	Surcharged
2.002	15 min Winter	18	PS50	PS48	0.100	0.375	2.942	0.445	Surcharged
2.003	15 min Winter	18	PS48	PS49	0.100	0.516	4.050	0.439	Surcharged
3.000	30 min Winter	29	RWP86A	PS49	0.100	0.195	0.867	0.023	Surcharged
1.004	15 min Winter	19	PS49	PS47	0.150	0.533	9.420	0.612	Surcharged
4.000	15 min Summer	9	S114 (D)	PS47	0.150	2.162	24.544	0.212	Surcharged
1.005	15 min Winter	17	PS47	S115	0.150	1.071	18.257	0.617	Surcharged
5.000	15 min Summer	15	S116 (D)	S49	0.142	0.987	5.051	0.067	OK
5.001	15 min Winter	8	S49	S115	0.150	1.015	17.942	1.236	Surcharged
1.006	15 min Winter	19	S115	S50	0.150	1.658	29.191	2.020	Surcharged
6.000	15 min Winter	14	RWP84A	RE84A	0.100	0.259	0.869	0.198	Surcharged
6.001	15 min Winter	14	RE84A	PS56	0.100	0.232	1.731	0.264	Surcharged
6.002	15 min Winter	15	PS56	PS55	0.100	0.425	3.338	0.466	Surcharged
6.003	15 min Winter	15	PS55	PS54	0.100	0.623	4.896	0.821	Surcharged
7.000	30 min Summer	22	RWP84B	RE84B	0.100	0.278	0.956	0.128	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	30 min Summer	22	RE84B	PS54	0.100	0.259	1.776	0.150	Surcharged
6.004	15 min Winter	14	PS54	PS46	0.150	0.426	7.530	0.517	Surcharged
8.000	15 min Summer	9	S113 (D)	PS46	0.150	2.197	28.127	0.265	Surcharged
6.005	30 min Summer	22	PS46	S50	0.150	1.112	19.650	1.123	Surcharged
9.000	15 min Summer	12	YG80A	RE80A	0.088	0.228	1.079	0.059	OK
10.000	15 min Summer	12	RWP80A	RE80A	0.088	0.216	1.017	0.055	OK
9.001	30 min Summer	19	RE80A	PS240	0.100	0.250	1.967	0.165	Surcharged
11.000	15 min Summer	11	RWP80B	PS240	0.090	0.197	1.233	0.038	OK
9.002	30 min Summer	19	PS240	S50	0.150	0.243	4.288	0.159	Surcharged
1.007	15 min Winter	14	S50	S51	0.300	0.810	49.962	0.748	Surcharged
1.008	15 min Winter	13	S51	S52	0.300	0.841	59.436	0.994	Surcharged
1.009	15 min Winter	9	S52	S53	0.300	1.774	125.368	2.275	Surcharged
12.000	30 min Summer	20	YG94A	PS253	0.100	0.178	1.120	0.106	Surcharged
13.000	15 min Summer	12	RWP95C	PS253	0.056	0.052	0.101	0.005	OK
12.001	30 min Summer	20	PS253	PS252	0.100	0.274	2.153	0.275	Surcharged
12.002	15 min Winter	13	PS252	PS251	0.100	0.550	4.317	0.667	Surcharged
14.000	15 min Summer	11	RWP95A	RE95A	0.068	0.479	2.471	0.136	OK
14.001	15 min Winter	12	RE95A	PS251	0.100	0.222	1.476	0.148	Surcharged
12.003	15 min Winter	13	PS251	S104	0.150	0.371	6.556	0.236	Surcharged
15.000	15 min Winter	10	S103	S104	0.225	0.679	27.010	0.788	OK
16.000	15 min Winter	13	RWP109A	PS147	0.100	0.285	1.010	0.087	Surcharged
17.000	15 min Winter	13	ACO109A	PS147	0.100	0.161	1.028	0.072	Surcharged
16.001	15 min Winter	13	PS147	PS148	0.100	0.381	2.992	0.419	Surcharged
16.002	15 min Winter	14	PS148	PS149	0.100	0.684	5.375	0.789	Surcharged
18.000	15 min Winter	12	RWP109C	RE109A	0.100	0.191	1.396	0.137	Surcharged
18.001	15 min Winter	13	RE109A	PS149	0.100	0.418	3.113	0.342	Surcharged
16.003	15 min Winter	13	PS149	S104	0.150	0.545	9.630	0.283	Surcharged
12.004	15 min Winter	9	S104	S120	0.300	1.849	130.719	1.749	Surcharged
19.000	30 min Summer	23	RWP106A	PS146	0.100	0.331	1.646	0.100	Surcharged
20.000	15 min Winter	15	ACO106A	PS146	0.100	0.622	3.240	0.197	Surcharged
19.001	15 min Winter	15	PS146	PS144	0.100	0.553	4.166	0.669	Surcharged
19.002	15 min Winter	15	PS144	PS145	0.150	0.351	6.210	0.376	Surcharged
21.000	15 min Winter	14	RWP106C	RE106A	0.100	0.277	1.539	0.164	Surcharged
21.001	15 min Winter	14	RE106A	PS145	0.100	0.364	2.857	0.312	Surcharged
19.003	15 min Winter	15	PS145	S120	0.150	0.568	10.040	0.412	Surcharged
12.005	15 min Winter	9	S120	S136	0.375	1.065	117.659	1.235	Surcharged
12.006	15 min Winter	10	S136	S55	0.375	1.018	112.443	1.103	Surcharged
22.000	15 min Summer	12	RWP97B	RE97B	0.067	0.189	1.051	0.083	OK
22.001	30 min Summer	20	RE97B	PS244	0.100	0.160	1.162	0.174	Surcharged
22.002	15 min Winter	14	PS244	PS245	0.100	0.277	2.175	0.331	Surcharged
23.000	30 min Summer	21	YG97A	PS245	0.100	0.190	0.826	0.417	Surcharged
24.000	15 min Summer	11	RWP99A	PS245	0.070	0.125	0.734	0.028	OK
22.003	15 min Winter	14	PS245	S55	0.150	0.233	4.109	0.164	Surcharged
12.007	15 min Winter	10	S55	S56	0.375	1.138	125.644	1.226	Surcharged
25.000	1440 min Winter	2368	RWP66A	RE66A	0.097	0.012	0.050	0.003	OK
25.001	15 min Winter	13	RE66A	PS198	0.100	0.193	1.188	0.164	Surcharged
25.002	15 min Winter	15	PS198	PS203	0.100	0.339	2.661	0.322	Surcharged
26.000	1440 min Winter	1809	RWP66C	PS202	0.097	0.010	0.064	0.003	OK
26.001	15 min Winter	15	PS202	PS203	0.100	0.187	1.430	0.143	Surcharged
27.000	1440 min Winter	1438	S117 (D)	PS203	0.147	0.716	1.114	0.029	OK
25.003	30 min Summer	23	PS203	S56	0.150	0.910	14.220	0.669	Surcharged
28.000	15 min Winter	15	YG99B	S56	0.150	0.114	1.442	0.047	Surcharged
12.008	15 min Winter	10	S56	S57	0.375	1.144	126.399	1.467	Surcharged
29.000	15 min Winter	14	RWP63A	RE68A	0.100	0.122	0.713	0.035	Surcharged
29.001	15 min Winter	15	RE68A	PS186	0.100	0.289	1.830	0.324	Surcharged
29.002	15 min Winter	15	PS186	PS185	0.150	0.173	3.027	0.179	Surcharged
30.000	30 min Summer	23	RWP64B	PS185	0.100	0.116	0.678	0.054	Surcharged
29.003	15 min Winter	15	PS185	S69	0.150	0.252	4.444	0.204	Surcharged
29.004	15 min Winter	15	S69	S59	0.300	0.108	7.652	0.123	Surcharged
31.000	30 min Summer	24	RWP64A	RE65A	0.100	0.098	0.638	0.030	Surcharged
31.001	30 min Summer	25	RE65A	PS196	0.100	0.239	1.877	0.236	Surcharged
32.000	15 min Winter	10	S118 (D)	PS196	0.150	1.238	10.337	0.304	Surcharged
31.002	30 min Summer	25	PS196	PS193	0.150	0.996	10.200	0.621	Surcharged
33.000	30 min Summer	24	RWP64C	PS193	0.100	0.142	0.694	0.062	Surcharged
31.003	15 min Winter	16	PS193	S59	0.150	1.067	11.610	0.517	Surcharged
29.005	15 min Winter	15	S59	S60	0.300	0.692	26.096	0.442	Surcharged
29.006	15 min Winter	15	S60	S57	0.300	0.486	29.961	0.534	Surcharged
12.009	15 min Winter	11	S57	S53	0.375	1.326	146.445	1.592	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	2.340	258.405	2.887	Surcharged
1.011	15 min Winter	12	S54	S65	0.375	2.472	258.081	2.838	Surcharged
1.012	15 min Winter	12	S65	S66	0.375	1.153	126.004	1.213	Surcharged
1.013	15 min Winter	14	S66	S67	0.375	1.182	124.000	1.328	Surcharged
1.014	15 min Winter	15	S67	S71	0.375	1.413	121.621	1.518	Surcharged
1.015	1440 min Summer	468	S71	S72	0.300	0.391	7.380	0.071	Surcharged
34.000	1440 min Summer	2726	RE153A	PS31	0.100	0.010	0.075	0.010	Surcharged
34.001	600 min Summer	1915	PS31	PS35	0.150	0.006	0.113	0.008	Surcharged
35.000	1440 min Winter	4115	RE153B	PS34	0.100	0.012	0.068	0.008	Surcharged
36.000	960 min Winter	1170	RWP153H	PS34	0.100	0.012	0.064	0.002	Surcharged
35.001	960 min Summer	2468	PS34	PS35	0.100	0.013	0.104	0.015	Surcharged
34.002	30 min Summer	27	PS35	S14	0.150	0.032	0.268	0.019	Surcharged
37.000	15 min Winter	8	S15 (D)	S14	0.150	2.104	37.184	1.222	Surcharged
34.003	15 min Winter	22	S14	S72	0.225	1.209	36.884	0.760	OK
1.016	1440 min Winter	1404	S72	S73	0.029	0.637	1.943	0.037	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	5.654	0.160	5.598		OK
S116	30 min Summer	22	5.748	0.114	6.132		OK
S113	30 min Summer	23	5.507	0.144	6.789		OK
S117	1440 min Winter	1402	5.293	0.216	0.026		OK
S118	1440 min Winter	1401	5.293	0.178	0.036		OK
S15	1440 min Winter	1405	5.293	0.395	0.091		OK