

Design Settings

Rainfall Methodology	FEH-13	Minimum Velocity (m/s)	1.00
Return Period (years)	2	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	1.000
CV	0.750	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	x
Maximum Rainfall (mm/hr)	50.0		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
S9	0.102	5.00	53.135	1350	467760.865	108885.155	1.575
S10	0.068	5.00	54.699	1200	467715.657	108853.055	3.500
S11	0.022	5.00	54.490	1200	467705.811	108865.844	3.300
S12	0.106	5.00	54.346	1350	467702.456	108876.305	3.350
S13	0.049	5.00	53.644	1350	467706.032	108910.725	2.750
S31	0.069	5.00	51.753	1350	467784.201	108977.469	1.451
S30	0.030	5.00	51.518	1350	467805.754	108935.547	1.219
S1	0.062	5.00	51.513	1350	467795.203	108948.380	1.844
S29	0.098	5.00	51.994	1500	467777.691	108938.775	2.525
S2	0.080	5.00	52.756	1500	467738.834	108935.826	3.373
S3	0.015	5.00	53.147	1500	467706.228	108935.355	3.837
S33	0.041	5.00	51.808	1200	467642.746	108996.783	2.026
S32	0.023	5.00	52.191	1350	467662.518	108976.883	1.425
S16	0.041	5.00	51.923	1200	467663.374	108995.927	2.225
S14	0.063	5.00	51.790	1200	467724.292	108993.706	2.225
S15	0.129	5.00	51.639	1350	467697.041	108994.212	2.315
S4	0.067	5.00	53.290	1800	467693.825	108935.539	4.546
S34	0.069	5.00	56.284	1350	467670.207	108824.071	1.425
S35	0.019	5.00	56.083	1350	467655.256	108832.348	1.350
S17	0.113	5.00	55.881	1200	467664.381	108836.816	1.850
S18	0.112	5.00	55.050	1350	467652.407	108870.250	1.500
S36	0.055	5.00	53.871	1350	467624.625	108910.302	1.350
S37	0.054	5.00	54.153	1200	467656.131	108907.201	1.993
S5	0.173	5.00	53.698	1950	467659.083	108936.493	5.227
S19	0.288	5.00	58.665	1350	467623.660	108775.985	1.499
S38	0.070	5.00	56.480	1350	467572.568	108833.264	1.425
S20	0.049	5.00	56.413	1350	467599.139	108843.185	1.975
S21	0.124	5.00	55.631	1350	467591.904	108865.755	1.575
S22	0.078	5.00	54.346	1350	467595.094	108904.385	1.650
S28	0.124	5.00	52.355	1350	467606.926	108992.757	1.425
S6	0.102	5.00	53.498	2100	467600.048	108943.528	5.121
S23	0.145	5.00	58.951	1350	467572.244	108770.403	1.426
S24	0.030	5.00	56.393	1350	467549.347	108830.661	1.425
S25	0.042	5.00	55.160	1350	467542.852	108862.957	1.425
S26	0.097	5.00	54.029	1350	467543.106	108898.137	1.500
S27	0.015	5.00	53.414	1350	467549.287	108927.645	1.500
S7	0.104	5.00	52.740	2100	467548.758	108950.511	4.436
S8	0.015	5.00	51.141	2100	467547.849	109014.143	3.069
EX SW MH			49.500	1500	467498.841	109052.441	1.795
EX SW HEADWALL			48.059	1500	467501.149	109095.896	2.031

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.000	S9	S10	55.445	0.600	51.560	51.274	0.286	193.9	225	5.99	50.0
1.001	S10	S11	16.140	0.600	51.199	51.190	0.009	1793.3	300	6.73	48.7
1.002	S11	S12	10.986	0.600	51.190	51.146	0.044	249.7	300	6.92	48.0
1.003	S12	S13	34.605	0.600	50.996	50.894	0.102	339.3	450	7.44	46.4
1.004	S13	S3	24.631	0.600	50.894	49.460	1.434	17.2	450	7.52	46.1
2.000	S31	S1	31.100	0.600	50.302	49.894	0.408	76.2	225	5.35	50.0
3.000	S30	S1	16.614	0.600	50.299	49.819	0.480	34.6	300	5.10	50.0
2.001	S1	S29	19.973	0.600	49.669	49.619	0.050	399.5	450	5.68	50.0
2.002	S29	S2	38.969	0.600	49.469	49.383	0.086	453.1	600	6.25	50.0
2.003	S2	S3	32.609	0.600	49.383	49.310	0.073	446.7	600	6.72	48.7
1.005	S3	S4	12.404	0.600	49.310	49.044	0.266	46.6	600	7.58	46.0
4.000	S33	S16	20.646	0.600	49.782	49.698	0.084	245.8	225	5.41	50.0
5.000	S32	S16	19.063	0.600	50.766	49.698	1.068	17.8	225	5.10	50.0
4.001	S16	S15	33.711	0.600	49.698	49.549	0.149	226.2	225	6.06	50.0
6.000	S14	S15	27.256	0.600	49.565	49.474	0.091	299.5	300	5.50	50.0
4.002	S15	S4	58.761	0.600	49.324	49.194	0.130	452.0	450	7.10	47.4
1.006	S4	S5	34.755	0.600	48.744	48.696	0.048	724.1	825	8.11	44.4
7.000	S34	S17	14.013	0.600	54.859	54.106	0.753	18.6	225	5.08	50.0
8.000	S35	S17	10.160	0.600	54.733	54.106	0.627	16.2	150	5.07	50.0
7.001	S17	S18	35.514	0.600	54.031	53.625	0.406	87.5	225	5.50	50.0
7.002	S18	S37	37.138	0.600	53.550	52.160	1.390	26.7	300	5.70	50.0
9.000	S36	S37	31.658	0.600	52.521	52.310	0.211	150.0	150	5.65	50.0
7.003	S37	S5	29.440	0.600	52.160	49.221	2.939	10.0	300	5.80	50.0
1.007	S5	S6	59.453	0.600	48.471	48.377	0.094	632.5	1050	8.84	42.5

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	0.935	37.2	13.8	1.350	3.200	0.102	0.0	94	0.866
1.001	0.362	25.6	22.4	3.200	3.000	0.170	0.0	218	0.407
1.002	0.990	70.0	25.0	3.000	2.900	0.192	0.0	123	0.908
1.003	1.098	174.6	37.4	2.900	2.300	0.298	0.0	141	0.882
1.004	4.923	783.0	43.4	2.300	3.237	0.347	0.0	71	2.694
2.000	1.499	59.6	9.4	1.226	1.394	0.069	0.0	60	1.101
3.000	2.681	189.5	4.1	0.919	1.394	0.030	0.0	30	1.102
2.001	1.011	160.8	21.9	1.394	1.925	0.162	0.0	111	0.714
2.002	1.137	321.5	35.2	1.925	2.773	0.260	0.0	133	0.757
2.003	1.145	323.9	44.8	2.773	3.237	0.339	0.0	149	0.814
1.005	3.572	1009.9	87.4	3.237	3.646	0.701	0.0	117	2.229
4.000	0.829	33.0	5.5	1.801	2.000	0.041	0.0	62	0.617
5.000	3.112	123.7	3.1	1.200	2.000	0.023	0.0	24	1.323
4.001	0.865	34.4	14.3	2.000	1.865	0.105	0.0	101	0.824
6.000	0.903	63.8	8.5	1.925	1.865	0.063	0.0	74	0.632
4.002	0.949	151.0	38.2	1.865	3.646	0.297	0.0	153	0.796
1.006	1.095	585.5	128.3	3.721	4.177	1.066	0.0	261	0.886
7.000	3.047	121.2	9.4	1.200	1.550	0.069	0.0	42	1.816
8.000	2.514	44.4	2.6	1.200	1.625	0.019	0.0	24	1.369
7.001	1.399	55.6	27.3	1.625	1.200	0.201	0.0	111	1.392
7.002	3.053	215.8	42.4	1.200	1.693	0.313	0.0	90	2.393
9.000	0.818	14.5	7.4	1.200	1.693	0.055	0.0	76	0.822
7.003	4.995	353.1	57.1	1.693	4.177	0.422	0.0	81	3.707
1.007	1.362	1179.8	191.2	4.177	4.071	1.660	0.0	283	1.016



Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
10.000	S19	S20	71.534	0.600	57.166	54.513	2.653	27.0	300	5.39	50.0
11.000	S38	S20	28.363	0.600	55.055	54.587	0.468	60.6	225	5.28	50.0
10.001	S20	S21	23.701	0.600	54.438	54.056	0.382	62.0	375	5.56	50.0
10.002	S21	S22	38.761	0.600	54.056	52.771	1.285	30.2	375	5.76	50.0
10.003	S22	S6	39.455	0.600	52.696	48.977	3.719	10.6	450	5.86	50.0
12.000	S28	S6	49.707	0.600	50.930	49.202	1.728	28.8	225	5.34	50.0
1.008	S6	S7	49.898	0.600	48.377	48.304	0.073	683.5	1050	9.47	41.0
13.000	S23	S24	64.462	0.600	57.525	54.968	2.557	25.2	225	5.41	50.0
13.001	S24	S25	32.943	0.600	54.968	53.735	1.233	26.7	225	5.63	50.0
13.002	S25	S26	35.181	0.600	53.735	52.604	1.131	31.1	225	5.88	50.0
13.003	S26	S27	30.148	0.600	52.529	51.914	0.615	49.0	300	6.10	50.0
13.004	S27	S7	22.652	0.600	51.914	49.054	2.860	7.9	300	6.17	50.0
1.009	S7	S8	62.304	0.600	48.304	48.072	0.232	268.6	1050	9.97	39.8
1.010	S8	EX SW MH	63.995	0.600	48.072	47.705	0.367	174.4	600	10.55	38.7
1.011	EX SW MH	EX SW HEADWALL	43.516	0.600	47.705	46.028	1.677	25.9	600	10.70	38.4

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
10.000	3.039	214.8	39.0	1.199	1.600	0.288	0.0	86	2.324
11.000	1.683	66.9	9.4	1.200	1.601	0.070	0.0	57	1.195
10.001	2.303	254.4	55.1	1.600	1.200	0.406	0.0	118	1.850
10.002	3.309	365.5	71.9	1.200	1.200	0.531	0.0	112	2.598
10.003	6.268	996.9	82.4	1.200	4.071	0.608	0.0	87	3.861
12.000	2.448	97.3	16.8	1.200	4.071	0.124	0.0	63	1.843
1.008	1.310	1134.5	277.0	4.071	3.386	2.495	0.0	351	1.092
13.000	2.616	104.0	19.6	1.201	1.200	0.145	0.0	65	2.014
13.001	2.541	101.0	23.7	1.200	1.200	0.175	0.0	73	2.078
13.002	2.354	93.6	29.3	1.200	1.200	0.216	0.0	87	2.092
13.003	2.251	159.1	42.5	1.200	1.200	0.313	0.0	105	1.912
13.004	5.619	397.2	44.5	1.200	3.386	0.328	0.0	67	3.752
1.009	2.098	1816.4	316.0	3.386	2.019	2.927	0.0	294	1.597
1.010	1.841	520.5	308.2	2.469	1.195	2.941	0.0	333	1.914
1.011	4.793	1355.1	305.8	1.195	1.431	2.941	0.0	192	3.909

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.000	55.445	193.9	225	Circular	53.135	51.560	1.350	54.699	51.274	3.200
1.001	16.140	1793.3	300	Circular	54.699	51.199	3.200	54.490	51.190	3.000
1.002	10.986	249.7	300	Circular	54.490	51.190	3.000	54.346	51.146	2.900
1.003	34.605	339.3	450	Circular	54.346	50.996	2.900	53.644	50.894	2.300
1.004	24.631	17.2	450	Circular	53.644	50.894	2.300	53.147	49.460	3.237

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	S9	1350	Manhole	Adoptable	S10	1200	Manhole	Adoptable
1.001	S10	1200	Manhole	Adoptable	S11	1200	Manhole	Adoptable
1.002	S11	1200	Manhole	Adoptable	S12	1350	Manhole	Adoptable
1.003	S12	1350	Manhole	Adoptable	S13	1350	Manhole	Adoptable
1.004	S13	1350	Manhole	Adoptable	S3	1500	Manhole	Adoptable

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
2.000	31.100	76.2	225	Circular	51.753	50.302	1.226	51.513	49.894	1.394
3.000	16.614	34.6	300	Circular	51.518	50.299	0.919	51.513	49.819	1.394
2.001	19.973	399.5	450	Circular	51.513	49.669	1.394	51.994	49.619	1.925
2.002	38.969	453.1	600	Circular	51.994	49.469	1.925	52.756	49.383	2.773
2.003	32.609	446.7	600	Circular	52.756	49.383	2.773	53.147	49.310	3.237
1.005	12.404	46.6	600	Circular	53.147	49.310	3.237	53.290	49.044	3.646
4.000	20.646	245.8	225	Circular	51.808	49.782	1.801	51.923	49.698	2.000
5.000	19.063	17.8	225	Circular	52.191	50.766	1.200	51.923	49.698	2.000
4.001	33.711	226.2	225	Circular	51.923	49.698	2.000	51.639	49.549	1.865
6.000	27.256	299.5	300	Circular	51.790	49.565	1.925	51.639	49.474	1.865
4.002	58.761	452.0	450	Circular	51.639	49.324	1.865	53.290	49.194	3.646
1.006	34.755	724.1	825	Circular	53.290	48.744	3.721	53.698	48.696	4.177
7.000	14.013	18.6	225	Circular	56.284	54.859	1.200	55.881	54.106	1.550
8.000	10.160	16.2	150	Circular	56.083	54.733	1.200	55.881	54.106	1.625
7.001	35.514	87.5	225	Circular	55.881	54.031	1.625	55.050	53.625	1.200
7.002	37.138	26.7	300	Circular	55.050	53.550	1.200	54.153	52.160	1.693
9.000	31.658	150.0	150	Circular	53.871	52.521	1.200	54.153	52.310	1.693
7.003	29.440	10.0	300	Circular	54.153	52.160	1.693	53.698	49.221	4.177
1.007	59.453	632.5	1050	Circular	53.698	48.471	4.177	53.498	48.377	4.071
10.000	71.534	27.0	300	Circular	58.665	57.166	1.199	56.413	54.513	1.600
11.000	28.363	60.6	225	Circular	56.480	55.055	1.200	56.413	54.587	1.601
10.001	23.701	62.0	375	Circular	56.413	54.438	1.600	55.631	54.056	1.200
10.002	38.761	30.2	375	Circular	55.631	54.056	1.200	54.346	52.771	1.200
10.003	39.455	10.6	450	Circular	54.346	52.696	1.200	53.498	48.977	4.071
12.000	49.707	28.8	225	Circular	52.355	50.930	1.200	53.498	49.202	4.071

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
2.000	S31	1350	Manhole	Adoptable	S1	1350	Manhole	Adoptable
3.000	S30	1350	Manhole	Adoptable	S1	1350	Manhole	Adoptable
2.001	S1	1350	Manhole	Adoptable	S29	1500	Manhole	Adoptable
2.002	S29	1500	Manhole	Adoptable	S2	1500	Manhole	Adoptable
2.003	S2	1500	Manhole	Adoptable	S3	1500	Manhole	Adoptable
1.005	S3	1500	Manhole	Adoptable	S4	1800	Manhole	Adoptable
4.000	S33	1200	Manhole	Adoptable	S16	1200	Manhole	Adoptable
5.000	S32	1350	Manhole	Adoptable	S16	1200	Manhole	Adoptable
4.001	S16	1200	Manhole	Adoptable	S15	1350	Manhole	Adoptable
6.000	S14	1200	Manhole	Adoptable	S15	1350	Manhole	Adoptable
4.002	S15	1350	Manhole	Adoptable	S4	1800	Manhole	Adoptable
1.006	S4	1800	Manhole	Adoptable	S5	1950	Manhole	Adoptable
7.000	S34	1350	Manhole	Adoptable	S17	1200	Manhole	Adoptable
8.000	S35	1350	Manhole	Adoptable	S17	1200	Manhole	Adoptable
7.001	S17	1200	Manhole	Adoptable	S18	1350	Manhole	Adoptable
7.002	S18	1350	Manhole	Adoptable	S37	1200	Manhole	Adoptable
9.000	S36	1350	Manhole	Adoptable	S37	1200	Manhole	Adoptable
7.003	S37	1200	Manhole	Adoptable	S5	1950	Manhole	Adoptable
1.007	S5	1950	Manhole	Adoptable	S6	2100	Manhole	Adoptable
10.000	S19	1350	Manhole	Adoptable	S20	1350	Manhole	Adoptable
11.000	S38	1350	Manhole	Adoptable	S20	1350	Manhole	Adoptable
10.001	S20	1350	Manhole	Adoptable	S21	1350	Manhole	Adoptable
10.002	S21	1350	Manhole	Adoptable	S22	1350	Manhole	Adoptable
10.003	S22	1350	Manhole	Adoptable	S6	2100	Manhole	Adoptable
12.000	S28	1350	Manhole	Adoptable	S6	2100	Manhole	Adoptable

Pipeline Schedule

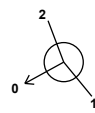
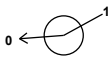
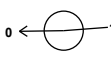
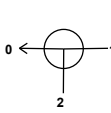
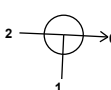
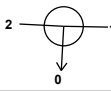
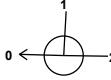
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.008	49.898	683.5	1050	Circular	53.498	48.377	4.071	52.740	48.304	3.386
13.000	64.462	25.2	225	Circular	58.951	57.525	1.201	56.393	54.968	1.200
13.001	32.943	26.7	225	Circular	56.393	54.968	1.200	55.160	53.735	1.200
13.002	35.181	31.1	225	Circular	55.160	53.735	1.200	54.029	52.604	1.200
13.003	30.148	49.0	300	Circular	54.029	52.529	1.200	53.414	51.914	1.200
13.004	22.652	7.9	300	Circular	53.414	51.914	1.200	52.740	49.054	3.386
1.009	62.304	268.6	1050	Circular	52.740	48.304	3.386	51.141	48.072	2.019
1.010	63.995	174.4	600	Circular	51.141	48.072	2.469	49.500	47.705	1.195
1.011	43.516	25.9	600	Circular	49.500	47.705	1.195	48.059	46.028	1.431

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.008	S6	2100	Manhole	Adoptable	S7	2100	Manhole	Adoptable
13.000	S23	1350	Manhole	Adoptable	S24	1350	Manhole	Adoptable
13.001	S24	1350	Manhole	Adoptable	S25	1350	Manhole	Adoptable
13.002	S25	1350	Manhole	Adoptable	S26	1350	Manhole	Adoptable
13.003	S26	1350	Manhole	Adoptable	S27	1350	Manhole	Adoptable
13.004	S27	1350	Manhole	Adoptable	S7	2100	Manhole	Adoptable
1.009	S7	2100	Manhole	Adoptable	S8	2100	Manhole	Adoptable
1.010	S8	2100	Manhole	Adoptable	EX SW MH	1500	Manhole	Adoptable
1.011	EX SW MH	1500	Manhole	Adoptable	EX SW HEADWALL	1500	Manhole	Adoptable

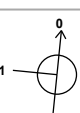
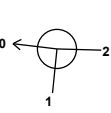
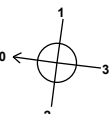
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S9	467760.865	108885.155	53.135	1.575	1350				
						0	1.000	51.560	225
S10	467715.657	108853.055	54.699	3.500	1200		1	1.000	51.274
						0	1.001	51.199	300
S11	467705.811	108865.844	54.490	3.300	1200		1	1.001	51.190
						0	1.002	51.190	300
S12	467702.456	108876.305	54.346	3.350	1350		1	1.002	51.146
						0	1.003	50.996	450
S13	467706.032	108910.725	53.644	2.750	1350		1	1.003	50.894
						0	1.004	50.894	450
S31	467784.201	108977.469	51.753	1.451	1350		0	2.000	50.302
						0	2.000	50.302	225

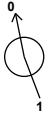
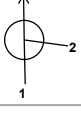
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
S30	467805.754	108935.547	51.518	1.219	1350		0	3.000	50.299	300
S1	467795.203	108948.380	51.513	1.844	1350		1 2 0	3.000 2.000 2.001	49.819 49.894 49.669	300 225 450
S29	467777.691	108938.775	51.994	2.525	1500		1 0	2.001 2.002	49.619 49.469	450 600
S2	467738.834	108935.826	52.756	3.373	1500		1 0	2.002 2.003	49.383 49.383	600 600
S3	467706.228	108935.355	53.147	3.837	1500		1 2 0	2.003 1.004 1.005	49.310 49.460 49.310	600 450 600
S33	467642.746	108996.783	51.808	2.026	1200		0	4.000	49.782	225
S32	467662.518	108976.883	52.191	1.425	1350		0	5.000	50.766	225
S16	467663.374	108995.927	51.923	2.225	1200		1 2 0	5.000 4.000 4.001	49.698 49.698 49.698	225 225 225
S14	467724.292	108993.706	51.790	2.225	1200		0	6.000	49.565	300
S15	467697.041	108994.212	51.639	2.315	1350		1 2 0	6.000 4.001 4.002	49.474 49.549 49.324	300 225 450
S4	467693.825	108935.539	53.290	4.546	1800		1 2 0	4.002 1.005 1.006	49.194 49.044 48.744	450 600 825
S34	467670.207	108824.071	56.284	1.425	1350		0	7.000	54.859	225
S35	467655.256	108832.348	56.083	1.350	1350		0	8.000	54.733	150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
S17	467664.381	108836.816	55.881	1.850	1200		1	8.000	54.106	150
							2	7.000	54.106	225
							0	7.001	54.031	225
S18	467652.407	108870.250	55.050	1.500	1350		1	7.001	53.625	225
							0	7.002	53.550	300
S36	467624.625	108910.302	53.871	1.350	1350					
S37	467656.131	108907.201	54.153	1.993	1200		0	9.000	52.521	150
							1	9.000	52.310	150
							2	7.002	52.160	300
S5	467659.083	108936.493	53.698	5.227	1950		0	7.003	52.160	300
							1	7.003	49.221	300
							2	1.006	48.696	825
S19	467623.660	108775.985	58.665	1.499	1350					
							0	1.007	48.471	1050
S38	467572.568	108833.264	56.480	1.425	1350					
							0	10.000	57.166	300
S20	467599.139	108843.185	56.413	1.975	1350		0	11.000	55.055	225
							1	11.000	54.587	225
							2	10.000	54.513	300
S21	467591.904	108865.755	55.631	1.575	1350		0	10.001	54.438	375
							1	10.001	54.056	375
S22	467595.094	108904.385	54.346	1.650	1350		0	10.002	54.056	375
							1	10.002	52.771	375
S28	467606.926	108992.757	52.355	1.425	1350					
							0	10.003	52.696	450
S6	467600.048	108943.528	53.498	5.121	2100		0	12.000	50.930	225
							1	12.000	49.202	225
							2	10.003	48.977	450
							3	1.007	48.377	1050
S23	467572.244	108770.403	58.951	1.426	1350					
							0	1.008	48.377	1050
							0	13.000	57.525	225

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
S24	467549.347	108830.661	56.393	1.425	1350	 0 1	13.000	54.968	225
S25	467542.852	108862.957	55.160	1.425	1350	 0 1	13.001	54.968	225
S26	467543.106	108898.137	54.029	1.500	1350	 0 1	13.002	53.735	225
S27	467549.287	108927.645	53.414	1.500	1350	 0 1	13.003	52.604	225
S7	467548.758	108950.511	52.740	4.436	2100	 0 1 2 1	13.004	52.529	300
S8	467547.849	109014.143	51.141	3.069	2100	 0 1	13.003	51.914	300
EX SW MH	467498.841	109052.441	49.500	1.795	1500	 0 1	13.004	51.914	300
EX SW HEADWALL	467501.149	109095.896	48.059	2.031	1500	 0 1	1.008	48.304	1050

Simulation Settings

Rainfall Methodology	FEH-13	Analysis Speed	Normal	Additional Storage (m³/ha)	0.0
Summer CV	0.750	Skip Steady State	x	Check Discharge Rate(s)	x
Winter CV	0.840	Drain Down Time (mins)	2000	Check Discharge Volume	x

Storm Durations

15	30	60	120	180	240	360	480	600	720	960	1440
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Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
10	0	0	0
30	0	0	0
100	0	0	0
100	45	0	0

Results for 10 year Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S9	10	51.701	0.141	27.7	0.2023	0.0000	OK
15 minute winter	S10	11	51.450	0.251	45.7	0.2840	0.0000	OK
15 minute winter	S11	11	51.393	0.203	50.3	0.2293	0.0000	OK
15 minute winter	S12	11	51.202	0.206	77.8	0.2949	0.0000	OK
15 minute winter	S13	11	51.002	0.108	90.9	0.1551	0.0000	OK
15 minute winter	S31	10	50.391	0.089	18.9	0.1269	0.0000	OK
15 minute winter	S30	10	50.342	0.043	8.2	0.0619	0.0000	OK
15 minute winter	S1	10	49.833	0.164	43.6	0.2344	0.0000	OK
15 minute winter	S29	11	49.667	0.198	69.3	0.3501	0.0000	OK
15 minute winter	S2	11	49.607	0.224	89.4	0.3961	0.0000	OK
15 minute winter	S3	11	49.512	0.202	184.9	0.3565	0.0000	OK
15 minute winter	S33	11	49.871	0.089	11.1	0.1002	0.0000	OK
15 minute winter	S32	10	50.800	0.034	6.3	0.0491	0.0000	OK
15 minute winter	S16	11	49.856	0.158	28.5	0.1790	0.0000	OK
15 minute winter	S14	10	49.673	0.108	17.1	0.1220	0.0000	OK
15 minute winter	S15	11	49.557	0.233	77.8	0.3332	0.0000	OK
15 minute winter	S4	11	49.126	0.382	278.8	0.9721	0.0000	OK
15 minute winter	S34	10	54.919	0.060	18.8	0.0853	0.0000	OK
15 minute winter	S35	10	54.767	0.034	5.1	0.0491	0.0000	OK
15 minute winter	S17	10	54.219	0.188	54.5	0.2128	0.0000	OK
15 minute winter	S18	10	53.686	0.136	83.3	0.1947	0.0000	OK
15 minute winter	S36	11	52.650	0.129	14.9	0.1846	0.0000	OK
15 minute winter	S37	11	52.281	0.121	111.4	0.1370	0.0000	OK
15 minute winter	S5	12	48.997	0.526	430.5	1.5720	0.0000	OK
15 minute winter	S19	10	57.292	0.126	78.4	0.1810	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S9	1.000	S10	27.3	0.925	0.733	1.6390	
15 minute winter	S10	1.001	S11	44.6	0.781	1.743	0.9173	
15 minute winter	S11	1.002	S12	50.6	1.085	0.723	0.5119	
15 minute winter	S12	1.003	S13	78.3	1.588	0.448	1.7316	
15 minute winter	S13	1.004	S3	91.1	3.235	0.116	0.6939	
15 minute winter	S31	2.000	S1	18.5	1.305	0.310	0.4407	
15 minute winter	S30	3.000	S1	8.1	1.325	0.043	0.1015	
15 minute winter	S1	2.001	S29	42.9	0.911	0.267	0.9455	
15 minute winter	S29	2.002	S2	69.0	0.779	0.215	3.4502	
15 minute winter	S2	2.003	S3	90.0	1.005	0.278	2.9206	
15 minute winter	S3	1.005	S4	184.7	2.487	0.183	0.9227	
15 minute winter	S33	4.000	S16	10.9	0.513	0.332	0.4578	
15 minute winter	S32	5.000	S16	6.2	0.432	0.050	0.3195	
15 minute winter	S16	4.001	S15	27.5	0.989	0.799	0.9349	
15 minute winter	S14	6.000	S15	16.6	0.784	0.260	0.5804	
15 minute winter	S15	4.002	S4	76.8	1.050	0.509	4.3201	
15 minute winter	S4	1.006	S5	275.3	1.312	0.470	7.3713	
15 minute winter	S34	7.000	S17	18.7	1.823	0.154	0.1989	
15 minute winter	S35	8.000	S17	5.1	1.245	0.114	0.0878	
15 minute winter	S17	7.001	S18	53.1	1.559	0.955	1.2104	
15 minute winter	S18	7.002	S37	82.7	2.872	0.383	1.0702	
15 minute winter	S36	9.000	S37	14.3	0.946	0.989	0.4764	
15 minute winter	S37	7.003	S5	111.0	4.325	0.314	0.7557	
15 minute winter	S5	1.007	S6	421.0	0.922	0.357	27.2501	
15 minute winter	S19	10.000	S20	76.9	2.777	0.358	1.9798	

Results for 10 year Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S38	10	55.139	0.084	19.0	0.1200	0.0000	OK
15 minute winter	S20	10	54.624	0.186	108.8	0.2659	0.0000	OK
15 minute winter	S21	10	54.226	0.170	142.0	0.2427	0.0000	OK
15 minute winter	S22	11	52.822	0.126	160.9	0.1808	0.0000	OK
15 minute winter	S28	10	51.023	0.093	33.9	0.1325	0.0000	OK
15 minute winter	S6	12	48.952	0.575	637.5	1.9923	0.0000	OK
15 minute winter	S23	10	57.620	0.095	39.4	0.1359	0.0000	OK
15 minute winter	S24	10	55.075	0.107	47.2	0.1529	0.0000	OK
15 minute winter	S25	11	53.868	0.133	57.8	0.1903	0.0000	OK
15 minute winter	S26	10	52.702	0.173	82.7	0.2480	0.0000	OK
15 minute winter	S27	11	52.014	0.100	86.7	0.1436	0.0000	OK
15 minute winter	S7	13	48.879	0.575	728.6	1.9916	0.0000	OK
15 minute winter	S8	13	48.843	0.771	692.8	2.6703	0.0000	SURCHARGED
15 minute winter	EX SW MH	13	48.024	0.319	642.3	0.5630	0.0000	OK
15 minute winter	EX SW HEADWALL	13	46.312	0.284	643.8	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S38	11.000	S20	18.7	1.421	0.279	0.3725	
15 minute winter	S20	10.001	S21	108.1	2.107	0.425	1.2185	
15 minute winter	S21	10.002	S22	140.7	3.036	0.385	1.7971	
15 minute winter	S22	10.003	S6	161.6	4.580	0.162	1.3927	
15 minute winter	S28	12.000	S6	33.2	2.199	0.341	0.7516	
15 minute winter	S6	1.008	S7	627.4	1.375	0.553	23.6799	
15 minute winter	S23	13.000	S24	39.0	2.261	0.375	1.1112	
15 minute winter	S24	13.001	S25	46.4	2.168	0.459	0.7050	
15 minute winter	S25	13.002	S26	57.5	2.425	0.615	0.8345	
15 minute winter	S26	13.003	S27	82.9	2.652	0.521	0.9462	
15 minute winter	S27	13.004	S7	87.1	4.393	0.219	0.4492	
15 minute winter	S7	1.009	S8	689.7	1.515	0.380	36.2198	
15 minute winter	S8	1.010	EX SW MH	642.3	2.783	1.234	13.8760	
15 minute winter	EX SW MH	1.011	EX SW HEADWALL	643.8	4.544	0.475	6.1655	370.1

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S9	10	51.732	0.172	36.2	0.2465	0.0000	OK
15 minute winter	S10	11	51.500	0.301	59.3	0.3408	0.0000	SURCHARGED
15 minute winter	S11	11	51.433	0.243	65.7	0.2752	0.0000	OK
15 minute winter	S12	11	51.233	0.237	101.7	0.3398	0.0000	OK
15 minute winter	S13	11	51.019	0.125	119.0	0.1796	0.0000	OK
15 minute winter	S31	10	50.405	0.103	24.7	0.1481	0.0000	OK
15 minute winter	S30	10	50.349	0.049	10.7	0.0708	0.0000	OK
15 minute winter	S1	10	49.859	0.190	56.9	0.2712	0.0000	OK
15 minute winter	S29	11	49.702	0.233	90.7	0.4121	0.0000	OK
15 minute winter	S2	11	49.644	0.261	116.7	0.4620	0.0000	OK
15 minute winter	S3	11	49.547	0.237	242.4	0.4192	0.0000	OK
15 minute winter	S33	11	49.910	0.128	14.5	0.1443	0.0000	OK
15 minute winter	S32	10	50.805	0.039	8.2	0.0559	0.0000	OK
15 minute winter	S16	11	49.896	0.198	36.3	0.2238	0.0000	OK
15 minute winter	S14	10	49.690	0.125	22.3	0.1419	0.0000	OK
15 minute winter	S15	11	49.596	0.272	100.9	0.3891	0.0000	OK
15 minute winter	S4	11	49.208	0.464	364.8	1.1799	0.0000	OK
15 minute winter	S34	10	54.927	0.068	24.6	0.0979	0.0000	OK
15 minute winter	S35	10	54.772	0.039	6.7	0.0563	0.0000	OK
15 minute winter	S17	11	54.507	0.476	71.4	0.5386	0.0000	SURCHARGED
15 minute winter	S18	11	53.707	0.157	105.4	0.2245	0.0000	OK
15 minute winter	S36	11	52.765	0.244	19.4	0.3499	0.0000	SURCHARGED
15 minute winter	S37	11	52.300	0.140	141.7	0.1586	0.0000	OK
15 minute winter	S5	13	49.173	0.702	558.7	2.0969	0.0000	OK
15 minute winter	S19	10	57.315	0.149	102.4	0.2126	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S9	1.000	S10	35.1	0.952	0.944	2.0058	
15 minute winter	S10	1.001	S11	58.2	0.867	2.274	1.0620	
15 minute winter	S11	1.002	S12	66.1	1.183	0.945	0.6113	
15 minute winter	S12	1.003	S13	102.5	1.714	0.587	2.0915	
15 minute winter	S13	1.004	S3	119.7	3.478	0.153	0.8480	
15 minute winter	S31	2.000	S1	24.2	1.397	0.406	0.5383	
15 minute winter	S30	3.000	S1	10.6	1.430	0.056	0.1229	
15 minute winter	S1	2.001	S29	56.0	0.982	0.348	1.1477	
15 minute winter	S29	2.002	S2	90.0	0.823	0.280	4.2686	
15 minute winter	S2	2.003	S3	117.6	1.063	0.363	3.6102	
15 minute winter	S3	1.005	S4	242.6	2.649	0.240	1.1375	
15 minute winter	S33	4.000	S16	13.5	0.531	0.411	0.6217	
15 minute winter	S32	5.000	S16	8.1	0.503	0.066	0.3954	
15 minute winter	S16	4.001	S15	35.0	1.044	1.019	1.1221	
15 minute winter	S14	6.000	S15	21.7	0.829	0.340	0.7374	
15 minute winter	S15	4.002	S4	99.6	1.128	0.659	5.1980	
15 minute winter	S4	1.006	S5	358.8	1.329	0.613	10.8850	
15 minute winter	S34	7.000	S17	24.5	1.771	0.202	0.3500	
15 minute winter	S35	8.000	S17	6.7	1.189	0.150	0.1081	
15 minute winter	S17	7.001	S18	67.9	1.707	1.221	1.3874	
15 minute winter	S18	7.002	S37	105.7	3.039	0.490	1.2916	
15 minute winter	S36	9.000	S37	18.0	1.034	1.243	0.5242	
15 minute winter	S37	7.003	S5	142.1	4.592	0.402	0.9109	
15 minute winter	S5	1.007	S6	540.4	0.962	0.458	38.5659	
15 minute winter	S19	10.000	S20	101.6	2.965	0.473	2.4521	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S38	10	55.153	0.098	24.8	0.1396	0.0000	OK
15 minute winter	S20	10	54.658	0.220	143.3	0.3151	0.0000	OK
15 minute winter	S21	11	54.256	0.200	184.9	0.2858	0.0000	OK
15 minute winter	S22	11	52.842	0.146	210.5	0.2095	0.0000	OK
15 minute winter	S28	10	51.038	0.108	44.2	0.1546	0.0000	OK
15 minute winter	S6	13	49.153	0.776	828.6	2.6885	0.0000	OK
15 minute winter	S23	10	57.635	0.110	51.4	0.1581	0.0000	OK
15 minute winter	S24	10	55.094	0.126	61.6	0.1802	0.0000	OK
15 minute winter	S25	11	53.897	0.162	75.6	0.2313	0.0000	OK
15 minute winter	S26	11	52.737	0.208	108.1	0.2973	0.0000	OK
15 minute winter	S27	11	52.031	0.117	113.3	0.1669	0.0000	OK
15 minute winter	S7	13	49.126	0.822	935.8	2.8487	0.0000	OK
15 minute winter	S8	13	49.081	1.009	791.4	3.4953	0.0000	SURCHARGED
15 minute winter	EX SW MH	13	48.052	0.347	730.5	0.6127	0.0000	OK
15 minute winter	EX SW HEADWALL	13	46.334	0.306	731.6	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S38	11.000	S20	24.4	1.521	0.364	0.4542	
15 minute winter	S20	10.001	S21	140.7	2.228	0.553	1.5035	
15 minute winter	S21	10.002	S22	184.5	3.235	0.505	2.2114	
15 minute winter	S22	10.003	S6	211.7	4.917	0.212	1.7643	
15 minute winter	S28	12.000	S6	43.4	2.353	0.446	0.9169	
15 minute winter	S6	1.008	S7	787.3	1.412	0.694	35.1567	
15 minute winter	S23	13.000	S24	50.9	2.409	0.489	1.3609	
15 minute winter	S24	13.001	S25	60.7	2.279	0.601	0.8745	
15 minute winter	S25	13.002	S26	75.2	2.551	0.804	1.0372	
15 minute winter	S26	13.003	S27	108.4	2.790	0.681	1.1664	
15 minute winter	S27	13.004	S7	113.7	4.702	0.286	0.5480	
15 minute winter	S7	1.009	S8	787.3	1.531	0.433	49.1233	
15 minute winter	S8	1.010	EX SW MH	730.5	2.894	1.403	14.4110	
15 minute winter	EX SW MH	1.011	EX SW HEADWALL	731.6	4.670	0.540	6.8160	481.7

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S9	11	52.020	0.460	45.4	0.6581	0.0000	SURCHARGED
15 minute winter	S10	11	51.580	0.381	72.4	0.4308	0.0000	SURCHARGED
15 minute winter	S11	11	51.485	0.295	82.0	0.3332	0.0000	OK
15 minute winter	S12	11	51.264	0.268	127.0	0.3840	0.0000	OK
15 minute winter	S13	11	51.036	0.142	148.7	0.2031	0.0000	OK
15 minute winter	S31	10	50.421	0.119	31.0	0.1699	0.0000	OK
15 minute winter	S30	10	50.353	0.054	13.4	0.0770	0.0000	OK
15 minute winter	S1	10	49.884	0.215	71.6	0.3076	0.0000	OK
15 minute winter	S29	11	49.738	0.269	113.8	0.4761	0.0000	OK
15 minute winter	S2	11	49.682	0.299	146.2	0.5287	0.0000	OK
15 minute winter	S3	13	49.645	0.335	303.1	0.5924	0.0000	OK
15 minute winter	S33	11	50.006	0.224	18.2	0.2533	0.0000	OK
15 minute winter	S32	10	50.810	0.044	10.3	0.0625	0.0000	OK
15 minute winter	S16	11	49.980	0.282	44.0	0.3189	0.0000	SURCHARGED
15 minute winter	S14	14	49.713	0.148	28.0	0.1677	0.0000	OK
15 minute winter	S15	13	49.668	0.344	125.5	0.4926	0.0000	OK
15 minute winter	S4	13	49.688	0.944	454.7	2.4037	0.0000	SURCHARGED
15 minute winter	S34	11	54.945	0.086	30.8	0.1235	0.0000	OK
15 minute winter	S35	11	54.892	0.159	8.4	0.2271	0.0000	SURCHARGED
15 minute winter	S17	11	54.866	0.835	83.9	0.9443	0.0000	SURCHARGED
15 minute winter	S18	10	53.731	0.181	131.4	0.2591	0.0000	OK
15 minute winter	S36	11	52.958	0.437	24.4	0.6252	0.0000	SURCHARGED
15 minute winter	S37	11	52.320	0.160	175.8	0.1813	0.0000	OK
15 minute winter	S5	13	49.688	1.217	695.9	3.6337	0.0000	SURCHARGED
15 minute winter	S19	10	57.333	0.167	128.4	0.2394	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S9	1.000	S10	43.8	1.100	1.177	2.2051	
15 minute winter	S10	1.001	S11	72.7	1.032	2.837	1.1342	
15 minute winter	S11	1.002	S12	82.4	1.273	1.177	0.6956	
15 minute winter	S12	1.003	S13	128.0	1.819	0.733	2.4466	
15 minute winter	S13	1.004	S3	149.6	3.683	0.191	1.1354	
15 minute winter	S31	2.000	S1	30.4	1.477	0.509	0.6399	
15 minute winter	S30	3.000	S1	13.4	1.464	0.070	0.1641	
15 minute winter	S1	2.001	S29	70.2	1.047	0.437	1.3496	
15 minute winter	S29	2.002	S2	112.8	0.859	0.351	5.1245	
15 minute winter	S2	2.003	S3	147.2	1.109	0.455	4.7213	
15 minute winter	S3	1.005	S4	303.2	2.727	0.300	2.7511	
15 minute winter	S33	4.000	S16	16.8	0.536	0.510	0.8206	
15 minute winter	S32	5.000	S16	10.2	0.531	0.083	0.4305	
15 minute winter	S16	4.001	S15	43.2	1.116	1.255	1.2255	
15 minute winter	S14	6.000	S15	27.6	0.839	0.432	1.1244	
15 minute winter	S15	4.002	S4	124.2	1.195	0.823	8.4786	
15 minute winter	S4	1.006	S5	447.2	1.322	0.764	18.5290	
15 minute winter	S34	7.000	S17	29.9	1.825	0.247	0.3768	
15 minute winter	S35	8.000	S17	11.5	1.248	0.259	0.1789	
15 minute winter	S17	7.001	S18	83.6	2.102	1.503	1.3981	
15 minute winter	S18	7.002	S37	131.0	3.233	0.607	1.5318	
15 minute winter	S36	9.000	S37	22.1	1.259	1.532	0.5414	
15 minute winter	S37	7.003	S5	176.1	4.824	0.499	1.4922	
15 minute winter	S5	1.007	S6	619.0	0.991	0.525	51.2863	
15 minute winter	S19	10.000	S20	127.4	2.992	0.593	3.0638	

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S38	10	55.167	0.112	31.1	0.1600	0.0000	OK
15 minute winter	S20	10	54.697	0.259	179.9	0.3706	0.0000	OK
15 minute winter	S21	10	54.289	0.233	232.4	0.3332	0.0000	OK
15 minute winter	S22	10	52.862	0.166	264.1	0.2370	0.0000	OK
15 minute winter	S28	10	51.054	0.124	55.4	0.1777	0.0000	OK
15 minute winter	S6	13	49.616	1.239	979.5	4.2930	0.0000	SURCHARGED
15 minute winter	S23	10	57.652	0.127	64.4	0.1813	0.0000	OK
15 minute winter	S24	10	55.115	0.147	77.2	0.2096	0.0000	OK
15 minute winter	S25	11	53.938	0.203	94.9	0.2906	0.0000	OK
15 minute winter	S26	11	52.782	0.253	135.5	0.3620	0.0000	OK
15 minute winter	S27	10	52.045	0.131	141.0	0.1879	0.0000	OK
15 minute winter	S7	13	49.571	1.267	1062.7	4.3881	0.0000	SURCHARGED
15 minute winter	S8	13	49.525	1.453	872.3	5.0318	0.0000	SURCHARGED
15 minute winter	EX SW MH	13	48.102	0.397	882.1	0.7014	0.0000	OK
15 minute winter	EX SW HEADWALL	13	46.369	0.341	873.6	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S38	11.000	S20	30.9	1.586	0.462	0.5522	
15 minute winter	S20	10.001	S21	177.0	2.321	0.696	1.8139	
15 minute winter	S21	10.002	S22	231.5	3.394	0.633	2.6427	
15 minute winter	S22	10.003	S6	264.7	5.183	0.265	4.0060	
15 minute winter	S28	12.000	S6	54.5	2.484	0.560	1.4457	
15 minute winter	S6	1.008	S7	878.0	1.456	0.774	43.0438	
15 minute winter	S23	13.000	S24	63.8	2.532	0.614	1.6237	
15 minute winter	S24	13.001	S25	76.3	2.332	0.755	1.0649	
15 minute winter	S25	13.002	S26	94.6	2.597	1.011	1.3635	
15 minute winter	S26	13.003	S27	134.8	2.925	0.847	1.3876	
15 minute winter	S27	13.004	S7	142.1	4.923	0.358	1.0826	
15 minute winter	S7	1.009	S8	865.7	1.559	0.477	53.7457	
15 minute winter	S8	1.010	EX SW MH	882.1	3.356	1.695	15.3434	
15 minute winter	EX SW MH	1.011	EX SW HEADWALL	873.6	4.824	0.645	7.9041	605.7

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S9	11	52.739	1.179	65.7	1.6869	0.0000	SURCHARGED
15 minute winter	S10	11	51.821	0.622	104.6	0.7032	0.0000	SURCHARGED
15 minute winter	S11	13	51.624	0.434	118.4	0.4911	0.0000	SURCHARGED
15 minute winter	S12	13	51.529	0.533	185.3	0.7623	0.0000	SURCHARGED
15 minute winter	S13	13	51.460	0.566	214.9	0.8105	0.0000	SURCHARGED
15 minute winter	S31	12	51.538	1.236	44.9	1.7687	0.0000	FLOOD RISK
15 minute winter	S30	13	51.453	1.154	52.4	1.6520	0.0000	FLOOD RISK
15 minute winter	S1	13	51.427	1.758	158.7	2.5160	0.0000	FLOOD RISK
15 minute winter	S29	13	51.415	1.946	216.9	3.4393	0.0000	SURCHARGED
15 minute winter	S2	13	51.412	2.029	211.6	3.5852	0.0000	SURCHARGED
15 minute winter	S3	13	51.396	2.086	425.3	3.6861	0.0000	SURCHARGED
15 minute winter	S33	13	51.678	1.896	26.4	2.1442	0.0000	FLOOD RISK
15 minute winter	S32	13	51.616	0.850	15.0	1.2169	0.0000	SURCHARGED
15 minute winter	S16	13	51.629	1.931	65.4	2.1837	0.0000	FLOOD RISK
15 minute winter	S14	13	51.441	1.876	40.6	2.1213	0.0000	SURCHARGED
15 minute winter	S15	13	51.432	2.108	181.7	3.0168	0.0000	FLOOD RISK
15 minute winter	S4	13	51.357	2.613	614.0	6.6503	0.0000	SURCHARGED
15 minute winter	S34	11	55.840	0.981	44.7	1.4039	0.0000	SURCHARGED
15 minute winter	S35	12	55.766	1.033	12.2	1.4788	0.0000	SURCHARGED
15 minute winter	S17	11	55.733	1.702	115.7	1.9246	0.0000	FLOOD RISK
15 minute winter	S18	11	53.779	0.229	181.5	0.3276	0.0000	OK
15 minute winter	S36	11	53.567	1.046	35.3	1.4961	0.0000	SURCHARGED
15 minute winter	S37	13	52.485	0.325	247.2	0.3673	0.0000	SURCHARGED
15 minute winter	S5	13	51.317	2.846	795.0	8.4991	0.0000	SURCHARGED
15 minute winter	S19	10	57.378	0.212	186.3	0.3032	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S9	1.000	S10	63.1	1.586	1.696	2.2051	
15 minute winter	S10	1.001	S11	104.9	1.490	4.096	1.1366	
15 minute winter	S11	1.002	S12	118.7	1.689	1.696	0.7736	
15 minute winter	S12	1.003	S13	184.4	2.014	1.056	5.4829	
15 minute winter	S13	1.004	S3	215.0	3.781	0.275	3.9026	
15 minute winter	S31	2.000	S1	48.9	1.598	0.821	1.2369	
15 minute winter	S30	3.000	S1	-34.1	1.416	-0.180	1.1699	
15 minute winter	S1	2.001	S29	101.8	1.160	0.633	3.1646	
15 minute winter	S29	2.002	S2	160.0	0.909	0.498	10.9767	
15 minute winter	S2	2.003	S3	213.8	1.209	0.660	9.1852	
15 minute winter	S3	1.005	S4	401.7	2.645	0.398	3.4939	
15 minute winter	S33	4.000	S16	23.7	0.596	0.719	0.8211	
15 minute winter	S32	5.000	S16	14.9	0.596	0.121	0.7582	
15 minute winter	S16	4.001	S15	59.4	1.497	1.728	1.3407	
15 minute winter	S14	6.000	S15	38.7	0.847	0.606	1.9193	
15 minute winter	S15	4.002	S4	167.3	1.207	1.108	9.3103	
15 minute winter	S4	1.006	S5	533.8	1.327	0.912	18.5290	
15 minute winter	S34	7.000	S17	39.3	1.831	0.324	0.5573	
15 minute winter	S35	8.000	S17	16.5	1.244	0.371	0.1789	
15 minute winter	S17	7.001	S18	113.3	2.850	2.038	1.3981	
15 minute winter	S18	7.002	S37	182.6	3.377	0.846	2.1791	
15 minute winter	S36	9.000	S37	31.7	1.803	2.196	0.5573	
15 minute winter	S37	7.003	S5	242.0	4.986	0.685	2.0731	
15 minute winter	S5	1.007	S6	711.2	1.026	0.603	51.2863	
15 minute winter	S19	10.000	S20	184.9	3.025	0.860	4.4211	

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.79%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	S38	10	55.189	0.134	45.1	0.1912	0.0000	OK
15 minute winter	S20	11	54.897	0.459	261.1	0.6573	0.0000	SURCHARGED
15 minute winter	S21	11	54.374	0.318	330.7	0.4547	0.0000	OK
15 minute winter	S22	12	52.895	0.199	380.9	0.2854	0.0000	OK
15 minute winter	S28	13	51.788	0.858	80.3	1.2285	0.0000	SURCHARGED
15 minute winter	S6	13	51.262	2.885	1188.6	9.9940	0.0000	SURCHARGED
15 minute winter	S23	11	57.711	0.186	93.4	0.2658	0.0000	OK
15 minute winter	S24	12	56.231	1.263	109.6	1.8079	0.0000	FLOOD RISK
15 minute winter	S25	12	55.021	1.286	114.2	1.8396	0.0000	FLOOD RISK
15 minute winter	S26	11	53.101	0.572	167.8	0.8184	0.0000	SURCHARGED
15 minute winter	S27	13	52.102	0.188	174.9	0.2684	0.0000	OK
15 minute winter	S7	13	51.169	2.865	1338.7	9.9255	0.0000	SURCHARGED
15 minute winter	S8	13	51.022	2.949	1279.4	10.2171	0.0000	FLOOD RISK
15 minute winter	EX SW MH	13	48.491	0.786	1253.8	1.3883	0.0000	SURCHARGED
15 minute winter	EX SW HEADWALL	13	46.463	0.435	1239.4	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	S38	11.000	S20	44.8	1.581	0.669	0.9123	
15 minute winter	S20	10.001	S21	254.9	2.435	1.002	2.4873	
15 minute winter	S21	10.002	S22	333.7	3.569	0.913	3.6119	
15 minute winter	S22	10.003	S6	378.9	5.159	0.380	4.4633	
15 minute winter	S28	12.000	S6	76.5	2.621	0.786	1.9769	
15 minute winter	S6	1.008	S7	1115.7	1.510	0.983	43.0438	
15 minute winter	S23	13.000	S24	90.2	2.584	0.868	2.4120	
15 minute winter	S24	13.001	S25	91.7	2.369	0.907	1.3102	
15 minute winter	S25	13.002	S26	113.2	2.847	1.210	1.3992	
15 minute winter	S26	13.003	S27	167.0	2.859	1.050	1.7598	
15 minute winter	S27	13.004	S7	171.9	5.070	0.433	1.3223	
15 minute winter	S7	1.009	S8	1272.0	1.579	0.700	53.7457	
15 minute winter	S8	1.010	EX SW MH	1253.8	4.452	2.409	18.0259	
15 minute winter	EX SW MH	1.011	EX SW HEADWALL	1239.4	5.019	0.915	10.8954	880.9