

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	100	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.200
CV	1.000	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)
Network1_1	0.058	5.00	18.420	1200	516639.649	105482.980	1.575
Network1_2	0.038	5.00	16.796	1200	516648.400	105438.389	1.575
Network1_3	0.014	5.00	15.894	1200	516662.521	105406.119	1.650
Network1_4	0.011	5.00	16.010	1200	516677.779	105407.926	1.858
Network1_5	0.041	5.00	16.093	1200	516687.450	105409.823	2.000
Network1_6			16.100	1200	516713.939	105410.909	2.166
Network1_7			15.040	1200	516716.413	105350.591	2.015
Network1_SA2_1			14.900	1200	516715.586	105348.393	2.000
Network1_8			14.750	1200	516709.469	105332.336	1.850

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	Network1_1	Network1_2	45.442	0.600	16.845	15.221	1.624	28.0	225	5.31	50.0
1.001	Network1_2	Network1_3	35.224	0.600	15.221	14.319	0.902	39.1	225	5.58	50.0
1.002	Network1_3	Network1_4	15.365	0.600	14.244	14.152	0.092	167.0	300	5.80	50.0
1.003	Network1_4	Network1_5	9.855	0.600	14.152	14.093	0.059	167.0	300	5.93	50.0
1.004	Network1_5	Network1_6	26.511	0.600	14.093	13.934	0.159	167.0	300	6.30	50.0
1.005	Network1_6	Network1_7	60.369	0.600	13.934	13.025	0.909	66.4	300	6.82	50.0
1.006	Network1_7	Network1_SA2_1	2.348	0.600	13.025	13.011	0.014	167.0	300	6.85	50.0
1.007	Network1_SA2_1	Network1_8	17.183	0.600	12.900	12.900	0.000	0.0	300	7.13	50.0

Name	US Node	DS Node	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	Network1_1	Network1_2	2.483	98.7	10.5	1.350	1.350	0.058	0.0	50	1.637
1.001	Network1_2	Network1_3	2.099	83.5	17.3	1.350	1.350	0.096	0.0	69	1.661
1.002	Network1_3	Network1_4	1.214	85.8	19.9	1.350	1.558	0.110	0.0	98	0.994
1.003	Network1_4	Network1_5	1.214	85.8	21.9	1.558	1.700	0.121	0.0	103	1.019
1.004	Network1_5	Network1_6	1.214	85.8	29.3	1.700	1.866	0.162	0.0	120	1.101
1.005	Network1_6	Network1_7	1.932	136.6	29.3	1.866	1.715	0.162	0.0	94	1.549
1.006	Network1_7	Network1_SA2_1	1.214	85.8	29.3	1.715	1.589	0.162	0.0	120	1.101
1.007	Network1_SA2_1	Network1_8	1.000	70.7	29.3	1.700	1.550	0.162	0.0	0	∞

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	45.442	28.0	225	Circular	18.420	16.845	1.350	16.796	15.221	1.350
1.001	35.224	39.1	225	Circular	16.796	15.221	1.350	15.894	14.319	1.350
1.002	15.365	167.0	300	Circular	15.894	14.244	1.350	16.010	14.152	1.558
1.003	9.855	167.0	300	Circular	16.010	14.152	1.558	16.093	14.093	1.700
1.004	26.511	167.0	300	Circular	16.093	14.093	1.700	16.100	13.934	1.866
1.005	60.369	66.4	300	Circular	16.100	13.934	1.866	15.040	13.025	1.715
1.006	2.348	167.0	300	Circular	15.040	13.025	1.715	14.900	13.011	1.589
1.007	17.183	0.0	300	Circular	14.900	12.900	1.700	14.750	12.900	1.550

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	Network1_1	1200	Manhole	Adoptable_Type A1	Network1_2	1200	Manhole	Adoptable_Type A1
1.001	Network1_2	1200	Manhole	Adoptable_Type A1	Network1_3	1200	Manhole	Adoptable_Type A1
1.002	Network1_3	1200	Manhole	Adoptable_Type A1	Network1_4	1200	Manhole	Adoptable_Type A1
1.003	Network1_4	1200	Manhole	Adoptable_Type A1	Network1_5	1200	Manhole	Adoptable_Type A1
1.004	Network1_5	1200	Manhole	Adoptable_Type A1	Network1_6	1200	Manhole	Adoptable_Type A1
1.005	Network1_6	1200	Manhole	Adoptable_Type A1	Network1_7	1200	Manhole	Adoptable_Type A1
1.006	Network1_7	1200	Manhole	Adoptable_Type A1	Network1_SA2_1	1200	Manhole	Adoptable_Type A1
1.007	Network1_SA2_1	1200	Manhole	Adoptable_Type A1	Network1_8	1200	Manhole	Adoptable_Type A1

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
Network1_1	516639.649	105482.980	18.420	1.575	1200				
						0	1.000	16.845	225
Network1_2	516648.400	105438.389	16.796	1.575	1200				
						0	1.001	15.221	225
Network1_3	516662.521	105406.119	15.894	1.650	1200				
						0	1.002	14.244	300
Network1_4	516677.779	105407.926	16.010	1.858	1200				
						0	1.003	14.152	300
Network1_5	516687.450	105409.823	16.093	2.000	1200				
						0	1.004	14.093	300
Network1_6	516713.939	105410.909	16.100	2.166	1200				
						0	1.005	13.934	300
Network1_7	516716.413	105350.591	15.040	2.015	1200				
						0	1.006	13.025	300

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
Network1_SA2_1	516715.586	105348.393	14.900	2.000	1200		1	1.006	13.011	300
							0	1.007	12.900	300
Network1_8	516709.469	105332.336	14.750	1.850	1200		1	1.007	12.900	300

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Detailed	Starting Level (m)	
Rainfall Events	Singular	Skip Steady State	x	Check Discharge Rate(s)	x
Summer CV	1.000	Drain Down Time (mins)	2880	Check Discharge Volume	x
Winter CV	1.000	Additional Storage (m³/ha)	0.0		

Storm Durations

15 | 30 | 60 | 120 | 180 | 240 | 360 | 480 | 600 | 720 | 960 | 1440 | 2160

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0
2	0	0	0
30	0	0	0
30	40	0	0
100	40	0	0

Node Network1_SA2_1 Online Head/Flow Control

Flap Valve	x	Replaces Downstream Link	x
Downstream Link	1.007	Invert Level (m)	12.900

Head (m)	Flow (l/s)	Head (m)	Flow (l/s)	Head (m)	Flow (l/s)
0.001	0.000	1.000	0.000	9.999	0.000

Node Network1_SA2_1 Soakaway Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	12.900	Depth (m)	1.000
Side Inf Coefficient (m/hr)	1.26000	Time to half empty (mins)		Inf Depth (m)	
Safety Factor	2.0	Pit Width (m)	9.000	Number Required	1
Porosity	0.95	Pit Length (m)	10.000		