

Design Settings

Frequency of use (kDU)	1.00	Additional Flow (%)	0	Preferred Cover Depth (m)	1.200
Flow per dwelling per day (l/day)	4000	Minimum Velocity (m/s)	0.75	Include Intermediate Ground	✓
Domestic Flow (l/s/ha)	225.0	Connection Type	Level Soffits		
Industrial Flow (l/s/ha)	0.0	Minimum Backdrop Height (m)	1.800		

Circular Default Sewer Type Link Type

Shape Circular | Barrels 1 | Auto Increment (mm) 75 | Follow Ground x

Available Diameters (mm)

100 | 150

Nodes

Name	Dwellings	Cover Level (m)	Manhole Type	Easting (m)	Northing (m)	Depth (m)
01	6	23.796	Adoptable	507227.467	105170.951	1.996
03	2	23.980	Adoptable	507206.016	105166.475	2.610
05	6	24.230	Adoptable	507174.023	105170.188	3.725
07	7	24.517	Adoptable	507144.127	105183.635	4.232
09	0	23.200	Adoptable	507129.754	105159.727	3.150
11	3	22.370	Adoptable	507112.152	105135.651	2.720
13	7	22.775	Adoptable	507017.108	105211.191	1.525
15	6	22.938	Adoptable	507028.398	105211.137	2.838
17	12	24.531	Adoptable	507081.622	105211.187	1.731
19	1	23.982	Adoptable	507063.411	105211.085	4.182
21	0	23.250	Adoptable	507063.572	105189.320	3.700
23		22.800	Adoptable	507069.349	105175.502	3.420
25	10	22.500	Adoptable	507069.425	105163.950	3.250
27	6	22.250	Adoptable	507066.988	105155.243	3.100
29	2	21.800	Adoptable	507066.533	105134.954	2.800
31	6	21.200	Adoptable	507041.467	105134.869	2.400

Nodes

Name	Dwellings	Cover Level (m)	Manhole Type	Easting (m)	Northing (m)	Depth (m)
33	10	19.950	Adoptable	507000.812	105134.528	1.650
35		19.800	Adoptable	507000.560	105124.827	1.800
37		18.294	Adoptable	506924.629	105124.094	1.844
39		16.684	Adoptable	506864.302	105086.802	1.734
41		15.834	Adoptable	506778.300	105082.444	2.626
43		14.758	Adoptable	506758.463	105081.402	1.691
SADDLE		13.560	Adoptable	506745.635	105080.516	1.105

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)
1.000	01	03	21.913	1.500	21.800	21.370	0.430	51.0	100
1.001	03	05	32.208	1.500	21.370	20.555	0.815	39.5	100
1.002	05	07	32.781	1.500	20.505	20.285	0.220	149.0	150
1.003	07	09	27.896	1.500	20.285	20.050	0.235	118.7	150
1.004	09	11	29.824	1.500	20.050	19.650	0.400	74.6	150
1.005	11	29	45.624	1.500	19.650	19.000	0.650	70.2	150
2.000	13	15	11.290	1.500	21.250	20.100	1.150	9.8	150

Name	Pro Vel @ 1/3 Q (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Dwellings (ha)	Σ Units (ha)	Σ Add Inflow (ha)	Pro Depth (mm)	Pro Velocity (m/s)
1.000	0.303	0.933	7.3	0.3	1.896	2.510	0.000	6	0.0	0.0	14	0.436
1.001	0.369	1.060	8.3	0.4	2.510	3.575	0.000	8	0.0	0.0	14	0.515
1.002	0.258	0.716	12.7	0.6	3.575	4.082	0.000	14	0.0	0.0	23	0.368
1.003	0.324	0.803	14.2	1.0	4.082	3.000	0.000	21	0.0	0.0	27	0.452
1.004	0.378	1.015	17.9	1.0	3.000	2.570	0.000	21	0.0	0.0	24	0.531
1.005	0.401	1.046	18.5	1.1	2.570	2.650	0.000	24	0.0	0.0	25	0.564
2.000	0.526	2.806	49.6	0.3	1.375	2.688	0.000	7	0.0	0.0	9	0.759

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)
2.001	15	19	35.013	1.500	20.100	19.800	0.300	116.7	150
3.000	17	19	18.211	1.500	22.800	21.000	1.800	10.1	150
2.002	19	21	21.766	1.500	19.800	19.550	0.250	87.1	150
2.003	21	23	14.977	1.500	19.550	19.380	0.170	88.1	150
2.004	23	25	11.552	1.500	19.380	19.250	0.130	88.9	150
2.005	25	27	9.042	1.500	19.250	19.150	0.100	90.4	150
2.006	27	29	20.294	1.500	19.150	19.000	0.150	135.3	150
1.006	29	31	25.066	1.500	19.000	18.800	0.200	125.3	150
1.007	31	33	40.656	1.500	18.800	18.300	0.500	81.3	150
1.008	33	35	9.704	1.500	18.300	18.000	0.300	32.3	150
1.009	35	37	75.935	1.500	18.000	16.450	1.550	49.0	150
1.010	37	39	70.923	1.500	16.450	14.950	1.500	47.3	150
1.011	39	41	86.112	1.500	14.950	13.208	1.742	49.4	150

Name	Pro Vel @ 1/3 Q (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Dwellings (ha)	Σ Units (ha)	Σ Add Inflow (ha)	Pro Depth (mm)	Pro Velocity (m/s)
2.001	0.275	0.810	14.3	0.6	2.688	4.032	0.000	13	0.0	0.0	21	0.395
3.000	0.599	2.764	48.9	0.6	1.581	2.832	0.000	12	0.0	0.0	11	0.882
2.002	0.379	0.939	16.6	1.2	4.032	3.550	0.000	26	0.0	0.0	28	0.543
2.003	0.386	0.933	16.5	1.2	3.550	3.270	0.000	26	0.0	0.0	28	0.540
2.004	0.384	0.929	16.4	1.2	3.270	3.100	0.000	26	0.0	0.0	28	0.538
2.005	0.416	0.921	16.3	1.7	3.100	2.950	0.000	36	0.0	0.0	33	0.587
2.006	0.380	0.752	13.3	1.9	2.950	2.650	0.000	42	0.0	0.0	39	0.534
1.006	0.458	0.782	13.8	3.1	2.650	2.250	0.000	68	0.0	0.0	49	0.632
1.007	0.547	0.972	17.2	3.4	2.250	1.500	0.000	74	0.0	0.0	45	0.755
1.008	0.782	1.544	27.3	3.9	1.500	1.650	0.000	84	0.0	0.0	38	1.089
1.009	0.677	1.253	22.1	3.9	1.650	1.694	0.000	84	0.0	0.0	42	0.937
1.010	0.689	1.276	22.5	3.9	1.694	1.584	0.000	84	0.0	0.0	42	0.954
1.011	0.673	1.248	22.0	3.9	1.584	2.476	0.000	84	0.0	0.0	42	0.933

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)			
1.012	41	43	19.864	1.500	13.208	13.067	0.141	140.9	150			
1.013	43	SADDLE	12.859	1.500	13.067	12.455	0.612	21.0	150			

Name	Pro Vel @ 1/3 Q (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Dwellings (ha)	Σ Units (ha)	Σ Add Inflow (ha)	Pro Depth (mm)	Pro Velocity (m/s)
1.012	0.464	0.737	13.0	3.9	2.476	1.541	0.000		84	0.0	57	0.644
1.013	0.904	1.917	33.9	3.9	1.541	0.955	0.000		84	0.0	34	1.264

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	21.913	51.0	100	Circular_Default Sewer Type	23.796	21.800	1.896	23.980	21.370	2.510
1.001	32.208	39.5	100	Circular_Default Sewer Type	23.980	21.370	2.510	24.230	20.555	3.575
1.002	32.781	149.0	150	Circular_Default Sewer Type	24.230	20.505	3.575	24.517	20.285	4.082
1.003	27.896	118.7	150	Circular_Default Sewer Type	24.517	20.285	4.082	23.200	20.050	3.000
1.004	29.824	74.6	150	Circular_Default Sewer Type	23.200	20.050	3.000	22.370	19.650	2.570
1.005	45.624	70.2	150	Circular_Default Sewer Type	22.370	19.650	2.570	21.800	19.000	2.650
2.000	11.290	9.8	150	Circular_Default Sewer Type	22.775	21.250	1.375	22.938	20.100	2.688

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	01	1200	Manhole	Adoptable	03	1200	Manhole	Adoptable
1.001	03	1200	Manhole	Adoptable	05	1200	Manhole	Adoptable
1.002	05	1200	Manhole	Adoptable	07	1200	Manhole	Adoptable
1.003	07	1200	Manhole	Adoptable	09	1200	Manhole	Adoptable
1.004	09	1200	Manhole	Adoptable	11	1200	Manhole	Adoptable
1.005	11	1200	Manhole	Adoptable	29	1200	Manhole	Adoptable
2.000	13	1200	Manhole	Adoptable	15	1200	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)
2.001	35.013	116.7	150	Circular_Default Sewer Type	22.938	20.100	2.688	23.982	19.800	4.032
3.000	18.211	10.1	150	Circular_Default Sewer Type	24.531	22.800	1.581	23.982	21.000	2.832
2.002	21.766	87.1	150	Circular_Default Sewer Type	23.982	19.800	4.032	23.250	19.550	3.550
2.003	14.977	88.1	150	Circular_Default Sewer Type	23.250	19.550	3.550	22.800	19.380	3.270
2.004	11.552	88.9	150	Circular_Default Sewer Type	22.800	19.380	3.270	22.500	19.250	3.100
2.005	9.042	90.4	150	Circular_Default Sewer Type	22.500	19.250	3.100	22.250	19.150	2.950
2.006	20.294	135.3	150	Circular_Default Sewer Type	22.250	19.150	2.950	21.800	19.000	2.650
1.006	25.066	125.3	150	Circular_Default Sewer Type	21.800	19.000	2.650	21.200	18.800	2.250
1.007	40.656	81.3	150	Circular_Default Sewer Type	21.200	18.800	2.250	19.950	18.300	1.500
1.008	9.704	32.3	150	Circular_Default Sewer Type	19.950	18.300	1.500	19.800	18.000	1.650
1.009	75.935	49.0	150	Circular_Default Sewer Type	19.800	18.000	1.650	18.294	16.450	1.694
1.010	70.923	47.3	150	Circular_Default Sewer Type	18.294	16.450	1.694	16.684	14.950	1.584
1.011	86.112	49.4	150	Circular_Default Sewer Type	16.684	14.950	1.584	15.834	13.208	2.476
1.012	19.864	140.9	150	Circular_Default Sewer Type	15.834	13.208	2.476	14.758	13.067	1.541

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
2.001	15	1200	Manhole	Adoptable	19	1200	Manhole	Adoptable
3.000	17	1200	Manhole	Adoptable	19	1200	Manhole	Adoptable
2.002	19	1200	Manhole	Adoptable	21	1200	Manhole	Adoptable
2.003	21	1200	Manhole	Adoptable	23	1200	Manhole	Adoptable
2.004	23	1200	Manhole	Adoptable	25	1200	Manhole	Adoptable
2.005	25	1200	Manhole	Adoptable	27	1200	Manhole	Adoptable
2.006	27	1200	Manhole	Adoptable	29	1200	Manhole	Adoptable
1.006	29	1200	Manhole	Adoptable	31	1200	Manhole	Adoptable
1.007	31	1200	Manhole	Adoptable	33	1200	Manhole	Adoptable
1.008	33	1200	Manhole	Adoptable	35	1200	Manhole	Adoptable
1.009	35	1200	Manhole	Adoptable	37	1200	Manhole	Adoptable
1.010	37	1200	Manhole	Adoptable	39	1200	Manhole	Adoptable
1.011	39	1200	Manhole	Adoptable	41	1200	Manhole	Adoptable
1.012	41	1200	Manhole	Adoptable	43	1200	Manhole	Adoptable

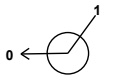
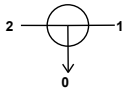
Pipeline Schedule

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)
1.013	12.859	21.0	150	Circular_Default Sewer Type	14.758	13.067	1.541	13.560	12.455	0.955
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type		
1.013	43	1200	Manhole	Adoptable	SADDLE	100	Manhole	Adoptable		

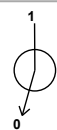
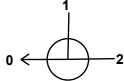
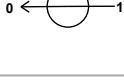
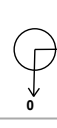
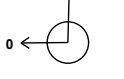
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
01	507227.467	105170.951	23.796	1.996	1200				
						0	1.000	21.800	100
03	507206.016	105166.475	23.980	2.610	1200		1	1.000	21.370
						0	1.001	21.370	100
05	507174.023	105170.188	24.230	3.725	1200		1	1.001	20.555
						0	1.002	20.505	150
07	507144.127	105183.635	24.517	4.232	1200		1	1.002	20.285
						0	1.003	20.285	150
09	507129.754	105159.727	23.200	3.150	1200		1	1.003	20.050
						0	1.004	20.050	150

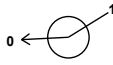
Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
11	507112.152	105135.651	22.370	2.720	1200		1	1.004	19.650	150
						0	1.005	19.650	150	
13	507017.108	105211.191	22.775	1.525	1200		0	2.000	21.250	150
15	507028.398	105211.137	22.938	2.838	1200		1	2.000	20.100	150
						0	2.001	20.100	150	
17	507081.622	105211.187	24.531	1.731	1200		0	3.000	22.800	150
19	507063.411	105211.085	23.982	4.182	1200		1 2	3.000 2.001	21.000 19.800	150 150
						0	2.002	19.800	150	
21	507063.572	105189.320	23.250	3.700	1200		1	2.002	19.550	150
						0	2.003	19.550	150	
23	507069.349	105175.502	22.800	3.420	1200		1	2.003	19.380	150
						0	2.004	19.380	150	

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
25	507069.425	105163.950	22.500	3.250	1200		1	2.004	19.250	150
27	507066.988	105155.243	22.250	3.100	1200		0	2.005	19.250	150
							1	2.005	19.150	150
29	507066.533	105134.954	21.800	2.800	1200		0	2.006	19.150	150
							1	2.006	19.000	150
31	507041.467	105134.869	21.200	2.400	1200		2	1.005	19.000	150
							0	1.006	19.000	150
33	507000.812	105134.528	19.950	1.650	1200		1	1.006	18.800	150
							0	1.007	18.800	150
35	507000.560	105124.827	19.800	1.800	1200		1	1.007	18.300	150
							0	1.008	18.300	150
37	506924.629	105124.094	18.294	1.844	1200		1	1.008	18.000	150
							0	1.009	18.000	150
							1	1.009	16.450	150
							0	1.010	16.450	150

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
39	506864.302	105086.802	16.684	1.734	1200		1	1.010	14.950	150
							0	1.011	14.950	150
41	506778.300	105082.444	15.834	2.626	1200		1	1.011	13.208	150
							0	1.012	13.208	150
43	506758.463	105081.402	14.758	1.691	1200		1	1.012	13.067	150
							0	1.013	13.067	150
SADDLE	506745.635	105080.516	13.560	1.105	100		1	1.013	12.455	150