



Design Settings

Frequency of use (kDU)	0.50	Minimum Velocity (m/s)	1.00
Flow per dwelling per day (l/day)	4000	Connection Type	Level Soffits
Domestic Flow (l/s/ha)	0.6	Minimum Backdrop Height (m)	0.200
Industrial Flow (l/s/ha)	0.8	Preferred Cover Depth (m)	0.500
Additional Flow (%)	0	Include Intermediate Ground	✓

Nodes

Name	Dwellings	Cover Level (m)	Manhole Type	Easting (m)	Northing (m)	Depth (m)
9	1	23.100	Adoptable	475161.691	107838.084	1.100
10	1	22.950	Adoptable	475166.382	107832.165	1.000
14	1	22.850	Adoptable	475182.507	107831.484	0.900
15	1	22.750	Adoptable	475188.253	107831.484	0.900
17	1	22.825	Adoptable	475195.181	107838.084	1.140
J7	1	22.850		475188.253	107838.084	1.252
J6		22.825		475182.507	107838.084	1.299
J5	1	22.900		475177.519	107838.084	1.436
J4	1	22.900		475173.936	107838.084	1.481
11	1	22.900	Adoptable	475170.714	107831.484	0.950
J3		22.950		475170.714	107838.084	1.571
J2		23.050		475166.384	107838.084	1.725
8		23.100	Adoptable	475165.297	107838.084	1.790
Pump		23.225	Adoptable	475165.297	107844.778	2.000
7	1	24.400	Adoptable	475192.809	107858.665	1.075
6	1	24.400	Adoptable	475186.610	107858.849	1.203
5	1	24.400	Adoptable	475182.042	107859.935	0.950
J1		24.350		475181.786	107856.535	1.233
4	1	24.850	Adoptable	475161.999	107859.614	0.920
3	1	24.850	Adoptable	475164.280	107859.613	0.949
2		23.500	Adoptable	475163.932	107848.142	0.529
1		23.500	Adoptable	475154.086	107848.135	0.595
Ex. MH		23.780	Adoptable	475151.035	107845.871	0.900

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)
1.004	1	Ex. MH	3.799	1.500	22.905	22.880	0.025	150.0	150
1.003	2	1	9.846	1.500	22.971	22.905	0.066	150.0	150
1.002	J1	2	19.728	1.500	23.117	22.971	0.146	135.0	150
3.001	3	2	11.476	1.500	23.901	23.021	0.880	13.0	100
3.000	4	3	2.281	1.500	23.930	23.901	0.029	80.0	100
1.001	6	J1	5.350	1.500	23.197	23.157	0.040	135.0	150

Name	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)
1.004	0.714	12.6	0.2	0.445	0.750	0.000	5	0.0	0.0
1.003	0.714	12.6	0.2	0.379	0.445	0.000	5	0.0	0.0
1.002	0.753	13.3	0.1	1.083	0.379	0.000	3	0.0	0.0
3.001	1.850	14.5	0.1	0.849	0.379	0.000	2	0.0	0.0
3.000	0.744	5.8	0.0	0.820	0.849	0.000	1	0.0	0.0
1.001	0.753	13.3	0.1	1.053	1.043	0.000	2	0.0	0.0

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)
2.000	5	J1	3.410	1.500	23.450	23.167	0.283	12.0	100
1.000	7	6	6.202	1.500	23.325	23.247	0.078	80.0	100
4.007	8	Pump	6.694	1.500	21.310	21.225	0.085	78.8	100
4.006	J2	8	1.087	1.500	21.325	21.311	0.014	80.0	100
9.000	9	8	3.606	1.500	22.000	21.954	0.046	78.4	100
8.000	10	J2	5.919	1.500	21.950	21.325	0.625	9.5	100
4.005	J3	J2	4.330	1.500	21.379	21.325	0.054	80.0	100
4.004	J4	J3	3.222	1.500	21.419	21.379	0.040	80.0	100
7.000	11	J3	6.600	1.500	21.950	21.379	0.571	11.6	100
4.003	J5	J4	3.583	1.500	21.464	21.419	0.045	80.0	100
4.002	J6	J5	4.988	1.500	21.526	21.464	0.062	80.0	100
6.000	14	J6	6.600	1.500	21.950	21.526	0.424	15.6	100
4.001	J7	J6	5.746	1.500	21.598	21.526	0.072	80.0	100
5.000	15	J7	6.600	1.500	21.850	21.598	0.252	26.2	100
4.000	17	J7	6.928	1.500	21.685	21.598	0.087	80.0	100

Name	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)
2.000	1.925	15.1	0.0	0.850	1.083	0.000		1	0.0
1.000	0.744	5.8	0.0	0.975	1.053	0.000		1	0.0
4.007	0.750	5.9	0.4	1.690	1.900	0.000		9	0.0
4.006	0.744	5.8	0.4	1.625	1.689	0.000		8	0.0
9.000	0.751	5.9	0.0	1.000	1.046	0.000		1	0.0
8.000	2.172	17.1	0.0	0.900	1.625	0.000		1	0.0
4.005	0.744	5.8	0.3	1.471	1.625	0.000		7	0.0
4.004	0.744	5.8	0.3	1.381	1.471	0.000		6	0.0
7.000	1.965	15.4	0.0	0.850	1.471	0.000		1	0.0
4.003	0.744	5.8	0.2	1.336	1.381	0.000		5	0.0
4.002	0.744	5.8	0.2	1.199	1.336	0.000		4	0.0
6.000	1.693	13.3	0.0	0.800	1.199	0.000		1	0.0
4.001	0.744	5.8	0.1	1.152	1.199	0.000		3	0.0
5.000	1.304	10.2	0.0	0.800	1.152	0.000		1	0.0
4.000	0.744	5.8	0.0	1.040	1.152	0.000		1	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)
1.004	3.799	150.0	150	Circular	23.500	22.905	0.445	23.780	22.880	0.750
1.003	9.846	150.0	150	Circular	23.500	22.971	0.379	23.500	22.905	0.445
1.002	19.728	135.0	150	Circular	24.350	23.117	1.083	23.500	22.971	0.379
3.001	11.476	13.0	100	Circular	24.850	23.901	0.849	23.500	23.021	0.379
3.000	2.281	80.0	100	Circular	24.850	23.930	0.820	24.850	23.901	0.849

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.004	1	450	Manhole	Adoptable	Ex. MH	1200	Manhole	Adoptable
1.003	2	450	Manhole	Adoptable	1	450	Manhole	Adoptable
1.002	J1		Junction		2	450	Manhole	Adoptable
3.001	3	450	Manhole	Adoptable	2	450	Manhole	Adoptable
3.000	4	450	Manhole	Adoptable	3	450	Manhole	Adoptable



Pipeline Schedule

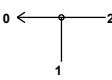
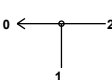
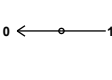
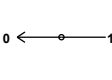
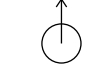
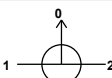
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
1.001	5.350	135.0	150	Circular	24.400	23.197	1.053	24.350	23.157	1.043
2.000	3.410	12.0	100	Circular	24.400	23.450	0.850	24.350	23.167	1.083
1.000	6.202	80.0	100	Circular	24.400	23.325	0.975	24.400	23.247	1.053
4.007	6.694	78.8	100	Circular	23.100	21.310	1.690	23.225	21.225	1.900
4.006	1.087	80.0	100	Circular	23.050	21.325	1.625	23.100	21.311	1.689
9.000	3.606	78.4	100	Circular	23.100	22.000	1.000	23.100	21.954	1.046
8.000	5.919	9.5	100	Circular	22.950	21.950	0.900	23.050	21.325	1.625
4.005	4.330	80.0	100	Circular	22.950	21.379	1.471	23.050	21.325	1.625
4.004	3.222	80.0	100	Circular	22.900	21.419	1.381	22.950	21.379	1.471
7.000	6.600	11.6	100	Circular	22.900	21.950	0.850	22.950	21.379	1.471
4.003	3.583	80.0	100	Circular	22.900	21.464	1.336	22.900	21.419	1.381
4.002	4.988	80.0	100	Circular	22.825	21.526	1.199	22.900	21.464	1.336
6.000	6.600	15.6	100	Circular	22.850	21.950	0.800	22.825	21.526	1.199
4.001	5.746	80.0	100	Circular	22.850	21.598	1.152	22.825	21.526	1.199
5.000	6.600	26.2	100	Circular	22.750	21.850	0.800	22.850	21.598	1.152
4.000	6.928	80.0	100	Circular	22.825	21.685	1.040	22.850	21.598	1.152

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.001	6	450	Manhole	Adoptable	J1		Junction	
2.000	5	450	Manhole	Adoptable	J1		Junction	
1.000	7	450	Manhole	Adoptable	6	450	Manhole	Adoptable
4.007	8	1200	Manhole	Adoptable	Pump	1230	Manhole	Adoptable
4.006	J2		Junction		8	1200	Manhole	Adoptable
9.000	9	450	Manhole	Adoptable	8	1200	Manhole	Adoptable
8.000	10	450	Manhole	Adoptable	J2		Junction	
4.005	J3		Junction		J2		Junction	
4.004	J4		Junction		J3		Junction	
7.000	11	1200	Manhole	Adoptable	J3		Junction	
4.003	J5		Junction		J4		Junction	
4.002	J6		Junction		J5		Junction	
6.000	14	450	Manhole	Adoptable	J6		Junction	
4.001	J7		Junction		J6		Junction	
5.000	15	450	Manhole	Adoptable	J7		Junction	
4.000	17	450	Manhole	Adoptable	J7		Junction	

Manhole Schedule

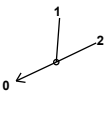
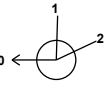
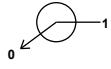
Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
9	475161.691	107838.084	23.100	1.100	450				
						0	9.000	22.000	100
10	475166.382	107832.165	22.950	1.000	450				
						0	8.000	21.950	100
14	475182.507	107831.484	22.850	0.900	450				
						0	6.000	21.950	100

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
15	475188.253	107831.484	22.750	0.900	450	0 	0	5.000	21.850	100
17	475195.181	107838.084	22.825	1.140	450	0 	0	4.000	21.685	100
J7	475188.253	107838.084	22.850	1.252		0 1 2 	1	5.000	21.598	100
							2	4.000	21.598	100
J6	475182.507	107838.084	22.825	1.299		0 1 2 	0	4.001	21.598	100
							1	6.000	21.526	100
							2	4.001	21.526	100
J5	475177.519	107838.084	22.900	1.436		0 1 2 	0	4.002	21.526	100
							1	4.002	21.464	100
J4	475173.936	107838.084	22.900	1.481		0 1 2 	0	4.003	21.464	100
							1	4.003	21.419	100
							0	4.004	21.419	100
11	475170.714	107831.484	22.900	0.950	1200	0 1 2 	0	7.000	21.950	100
J3	475170.714	107838.084	22.950	1.571		0 1 2 	1	7.000	21.379	100
							2	4.004	21.379	100
							0	4.005	21.379	100
J2	475166.384	107838.084	23.050	1.725		0 1 2 	1	8.000	21.325	100
							2	4.005	21.325	100
							0	4.006	21.325	100
8	475165.297	107838.084	23.100	1.790	1200	0 1 2 	1	9.000	21.954	100
							2	4.006	21.311	100
							0	4.007	21.310	100
Pump	475165.297	107844.778	23.225	2.000	1230	0 1 2 	1	4.007	21.225	100
7	475192.809	107858.665	24.400	1.075	450	0 1 2 	0	1.000	23.325	100
6	475186.610	107858.849	24.400	1.203	450	0 1 2 	1	1.000	23.247	100
							0	1.001	23.197	150



Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)	
5	475182.042	107859.935	24.400	0.950	450		0	2.000	23.450	100
J1	475181.786	107856.535	24.350	1.233			1	2.000	23.167	100
						2	1.001	23.157	150	
						0	1.002	23.117	150	
4	475161.999	107859.614	24.850	0.920	450		0	3.000	23.930	100
3	475164.280	107859.613	24.850	0.949	450		1	3.000	23.901	100
2	475163.932	107848.142	23.500	0.529	450		0	3.001	23.901	100
						1	3.001	23.021	100	
						2	1.002	22.971	150	
1	475154.086	107848.135	23.500	0.595	450		0	1.003	22.971	150
						1	1.003	22.905	150	
						0	1.004	22.905	150	
Ex. MH	475151.035	107845.871	23.780	0.900	1200		1	1.004	22.880	150