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Cedar Barn White Lodge Walgrave Northampton NN6 9PY	26417 - Station Road, Market Bosworth - Foul Water Network Details	
Date 11/10/2024 15:27 File 26417 - DRAINAGE MODEL ...	Designed by CDG Checked by TL	

XP Solutions

Network 2016.1

Network Design Table for Foul

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Houses	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
F4.000	17.840	0.600	29.7	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F4.001	52.508	1.600	32.8	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F4.002	15.698	0.150	104.7	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F4.003	16.271	0.275	59.2	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1.007	13.511	0.090	150.1	0.000	0	0.0	1.500	o	225	Pipe/Conduit	
F1.008	7.700	0.055	140.0	0.000	0	0.0	1.500	o	225	Pipe/Conduit	
F1.009	36.658	0.245	149.6	0.000	0	0.0	1.500	o	225	Pipe/Conduit	
F1.010	8.545	0.203	42.1	0.000	0	0.0	1.500	o	225	Pipe/Conduit	
F1.011	63.169	1.185	53.3	0.000	0	0.0	1.500	o	300	Pipe/Conduit	
F1.012	41.630	0.557	74.7	0.000	0	0.0	1.500	o	300	Pipe/Conduit	
F5.000	14.344	0.250	57.4	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F5.001	34.050	0.850	40.1	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F5.002	31.408	0.400	78.5	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F5.003	64.956	0.810	80.2	0.000	0	0.0	1.500	o	150	Pipe/Conduit	
F1.013	8.695	0.240	36.2	0.000	0	0.0	1.500	o	300	Pipe/Conduit	

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Hse	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
F4.000	99.150	0.000	0.0	0	0.0	0	0.00	1.61	28.5	0.0
F4.001	98.550	0.000	0.0	0	0.0	0	0.00	1.53	27.1	0.0
F4.002	96.950	0.000	0.0	0	0.0	0	0.00	0.86	15.1	0.0
F4.003	96.800	0.000	0.0	0	0.0	0	0.00	1.14	20.1	0.0
F1.007	96.450	0.000	0.0	138	0.0	63	0.70	0.94	37.2	6.4
F1.008	96.360	0.000	0.0	138	0.0	62	0.72	0.97	38.5	6.4
F1.009	96.305	0.000	0.0	138	0.0	63	0.70	0.94	37.3	6.4
F1.010	96.060	0.000	0.0	138	0.0	46	1.10	1.77	70.5	6.4
F1.011	95.782	0.000	0.0	138	0.0	45	0.98	1.90	134.4	6.4
F1.012	94.597	0.000	0.0	138	0.0	48	0.87	1.61	113.5	6.4
F5.000	96.500	0.000	0.0	0	0.0	0	0.00	1.16	20.5	0.0
F5.001	96.250	0.000	0.0	0	0.0	0	0.00	1.39	24.5	0.0
F5.002	95.400	0.000	0.0	0	0.0	0	0.00	0.99	17.5	0.0
F5.003	95.000	0.000	0.0	0	0.0	0	0.00	0.98	17.3	0.0
F1.013	94.040	0.000	0.0	138	0.0	41	1.12	2.31	163.1	6.4

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Manhole Schedules for Foul

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
FA1	101.800	2.500	Open Manhole	1200	F1.000	99.300	150				
FA2	101.550	2.310	Open Manhole	1200	F1.001	99.240	150	F1.000	99.240	150	
FA3	101.200	2.055	Open Manhole	1200	F1.002	99.145	150	F1.001	99.145	150	
FA4	100.700	2.075	Open Manhole	1200	F1.003	98.625	150	F1.002	98.625	150	
F5008	100.299	1.378	Open Manhole	1200	F2.000	98.921	225				
FD1	99.950	2.575	Open Manhole	1200	F1.004	97.375	225	F1.003	97.450	150	
								F2.000	97.375	225	
FA5	99.850	2.300	Open Manhole	1200	F3.000	97.550	150				
FD2	99.450	2.265	Open Manhole	1200	F1.005	97.185	225	F1.004	97.185	225	
								F3.000	97.260	150	
FD3	99.200	2.205	Open Manhole	1200	F1.006	96.995	225	F1.005	96.995	225	
FA6	100.800	1.650	Open Manhole	1200	F4.000	99.150	150				
FA7	100.525	1.975	Open Manhole	1200	F4.001	98.550	150	F4.000	98.550	150	
FA8	99.050	2.100	Open Manhole	1200	F4.002	96.950	150	F4.001	96.950	150	
FA9	99.875	3.075	Open Manhole	1200	F4.003	96.800	150	F4.002	96.800	150	
FD4	99.000	2.550	Open Manhole	1200	F1.007	96.450	225	F1.006	96.450	225	
								F4.003	96.525	150	
FD5	98.700	2.340	Open Manhole	1200	F1.008	96.360	225	F1.007	96.360	225	
FD6	98.525	2.220	Open Manhole	1200	F1.009	96.305	225	F1.008	96.305	225	
FD7	97.800	1.740	Open Manhole	1200	F1.010	96.060	225	F1.009	96.060	225	
FD8	97.625	1.843	Open Manhole	1200	F1.011	95.782	300	F1.010	95.857	225	
F4801	96.577	1.980	Open Manhole	1200	F1.012	94.597	300	F1.011	94.597	300	
FA10	98.500	2.000	Open Manhole	1200	F5.000	96.500	150				
FA11	98.200	1.950	Open Manhole	1200	F5.001	96.250	150	F5.000	96.250	150	
FA12	97.450	2.050	Open Manhole	1200	F5.002	95.400	150	F5.001	95.400	150	
FA13	97.100	2.100	Open Manhole	1200	F5.003	95.000	150	F5.002	95.000	150	
FD9	96.000	1.960	Open Manhole	1200	F1.013	94.040	300	F1.012	94.040	300	
								F5.003	94.190	150	
F3800	95.300	1.500	Open Manhole	1350		OUTFALL		F1.013	93.800	300	

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PIPELINE SCHEDULES for Foul

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
F1.000	o	150	FA1	101.800	99.300	2.350	Open Manhole	1200
F1.001	o	150	FA2	101.550	99.240	2.160	Open Manhole	1200
F1.002	o	150	FA3	101.200	99.145	1.905	Open Manhole	1200
F1.003	o	150	FA4	100.700	98.625	1.925	Open Manhole	1200
F2.000	o	225	F5008	100.299	98.921	1.153	Open Manhole	1200
F1.004	o	225	FD1	99.950	97.375	2.350	Open Manhole	1200
F3.000	o	150	FA5	99.850	97.550	2.150	Open Manhole	1200
F1.005	o	225	FD2	99.450	97.185	2.040	Open Manhole	1200
F1.006	o	225	FD3	99.200	96.995	1.980	Open Manhole	1200
F4.000	o	150	FA6	100.800	99.150	1.500	Open Manhole	1200
F4.001	o	150	FA7	100.525	98.550	1.825	Open Manhole	1200
F4.002	o	150	FA8	99.050	96.950	1.950	Open Manhole	1200
F4.003	o	150	FA9	99.875	96.800	2.925	Open Manhole	1200
F1.007	o	225	FD4	99.000	96.450	2.325	Open Manhole	1200

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
F1.000	8.931	148.9	FA2	101.550	99.240	2.160	Open Manhole	1200
F1.001	14.120	148.6	FA3	101.200	99.145	1.905	Open Manhole	1200
F1.002	22.922	44.1	FA4	100.700	98.625	1.925	Open Manhole	1200
F1.003	31.710	27.0	FD1	99.950	97.450	2.350	Open Manhole	1200
F2.000	20.843	13.5	FD1	99.950	97.375	2.350	Open Manhole	1200
F1.004	28.405	149.5	FD2	99.450	97.185	2.040	Open Manhole	1200
F3.000	40.387	139.3	FD2	99.450	97.260	2.040	Open Manhole	1200
F1.005	28.109	147.9	FD3	99.200	96.995	1.980	Open Manhole	1200
F1.006	16.461	30.2	FD4	99.000	96.450	2.325	Open Manhole	1200
F4.000	17.840	29.7	FA7	100.525	98.550	1.825	Open Manhole	1200
F4.001	52.508	32.8	FA8	99.050	96.950	1.950	Open Manhole	1200
F4.002	15.698	104.7	FA9	99.875	96.800	2.925	Open Manhole	1200
F4.003	16.271	59.2	FD4	99.000	96.525	2.325	Open Manhole	1200
F1.007	13.511	150.1	FD5	98.700	96.360	2.115	Open Manhole	1200

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PIPELINE SCHEDULES for Foul

Upstream Manhole

PN	Hyd	Diam	MH	C.Level	I.Level	D.Depth	MH	MH DIAM., L*W
	Sect	(mm)	Name	(m)	(m)	(m)	Connection	(mm)
F1.008	o	225	FD5	98.700	96.360	2.115	Open Manhole	1200
F1.009	o	225	FD6	98.525	96.305	1.995	Open Manhole	1200
F1.010	o	225	FD7	97.800	96.060	1.515	Open Manhole	1200
F1.011	o	300	FD8	97.625	95.782	1.543	Open Manhole	1200
F1.012	o	300	F4801	96.577	94.597	1.680	Open Manhole	1200
F5.000	o	150	FA10	98.500	96.500	1.850	Open Manhole	1200
F5.001	o	150	FA11	98.200	96.250	1.800	Open Manhole	1200
F5.002	o	150	FA12	97.450	95.400	1.900	Open Manhole	1200
F5.003	o	150	FA13	97.100	95.000	1.950	Open Manhole	1200
F1.013	o	300	FD9	96.000	94.040	1.660	Open Manhole	1200

Downstream Manhole

PN	Length	Slope	MH	C.Level	I.Level	D.Depth	MH	MH DIAM., L*W
	(m)	(1:X)	Name	(m)	(m)	(m)	Connection	(mm)
F1.008	7.700	140.0	FD6	98.525	96.305	1.995	Open Manhole	1200
F1.009	36.658	149.6	FD7	97.800	96.060	1.515	Open Manhole	1200
F1.010	8.545	42.1	FD8	97.625	95.857	1.543	Open Manhole	1200
F1.011	63.169	53.3	F4801	96.577	94.597	1.680	Open Manhole	1200
F1.012	41.630	74.7	FD9	96.000	94.040	1.660	Open Manhole	1200
F5.000	14.344	57.4	FA11	98.200	96.250	1.800	Open Manhole	1200
F5.001	34.050	40.1	FA12	97.450	95.400	1.900	Open Manhole	1200
F5.002	31.408	78.5	FA13	97.100	95.000	1.950	Open Manhole	1200
F5.003	64.956	80.2	FD9	96.000	94.190	1.660	Open Manhole	1200
F1.013	8.695	36.2	F3800	95.300	93.800	1.200	Open Manhole	1350

Free Flowing Outfall Details for Foul

Outfall	Outfall	C. Level	I. Level	Min	D,L	W
Pipe Number	Name	(m)	(m)	I. Level (m)	(mm)	(mm)
F1.013	F3800	95.300	93.800	0.000	1350	0