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Pinnacle House 3 Meridian Way Norwich NR7 0TA	Havant Catchment A, B and F	
Date 04/05/2021 File SW NETWORK 1.MDX	Designed by iran.limbu Checked by	
XP Solutions		Network 2017.1.2

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.372	4-8	0.960	8-12	1.089	12-16	0.085

Total Area Contributing (ha) = 2.506

Total Pipe Volume (m³) = 328.792

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Existing Network Details for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type
5.000	14.748	0.025	589.9	0.059	4.00	0.0	0.600	Q90	-7	Pipe/Conduit
5.001	14.748	0.025	589.9	0.059	0.00	0.0	0.600	Q90	-7	Pipe/Conduit
5.002	14.748	0.025	589.9	0.059	0.00	0.0	0.600	Q90	-7	Pipe/Conduit
5.003	14.748	0.025	589.9	0.059	0.00	0.0	0.600	Q90	-7	Pipe/Conduit
6.000	11.244	0.100	112.4	0.059	5.00	0.0	0.600	Q90	-7	Pipe/Conduit
5.004	37.544	-0.551	-68.1	0.059	0.00	0.0	0.600	o	150	Pipe/Conduit
7.000	30.051	0.600	50.1	0.150	5.00	0.0	0.600	Q90	-7	Pipe/Conduit
7.001	30.051	0.075	400.7	0.150	0.00	0.0	0.600	Q90	-7	Pipe/Conduit
7.002	39.188	0.100	391.9	0.150	0.00	0.0	0.600	Q90	-7	Pipe/Conduit
7.003	39.188	0.000	0.0	0.056	0.00	0.0	0.600	Q90	-7	Pipe/Conduit
8.000	44.386	0.275	161.4	0.056	5.00	0.0	0.600	Q90	-7	Pipe/Conduit
7.004	5.511	0.055	100.2	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit
5.005	45.886	0.048	956.0	0.013	0.00	0.0	0.600	o	450	Pipe/Conduit
9.000	46.011	0.025	1840.4	0.044	5.00	0.0	0.600	Q90	-7	Pipe/Conduit
9.001	46.011	0.025	1840.4	0.044	0.00	0.0	0.600	Q90	-7	Pipe/Conduit
9.002	46.011	0.025	1840.4	0.044	0.00	0.0	0.600	Q90	-7	Pipe/Conduit
9.003	46.011	0.025	1840.4	0.044	0.00	0.0	0.600	Q90	-7	Pipe/Conduit

Network Results Table

PN	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Vel (m/s)	Cap (l/s)
5.000	12.919	0.059	0.0	1.09	452.4
5.001	12.894	0.118	0.0	1.09	452.4
5.002	12.869	0.177	0.0	1.09	452.4
5.003	12.844	0.236	0.0	1.09	452.4
6.000	12.919	0.059	0.0	2.52	1042.8
5.004	12.819	0.354	0.0	0.00	0.0
7.000	14.200	0.150	0.0	3.78	1565.2
7.001	13.600	0.300	0.0	1.33	550.0
7.002	13.525	0.450	0.0	1.34	556.2
7.003	13.425	0.506	0.0	0.00	0.0
8.000	13.700	0.056	0.0	2.10	869.5
7.004	13.425	0.562	0.0	1.00	17.7
5.005	13.370	0.929	0.0	0.65	103.3
9.000	14.300	0.044	0.0	0.61	254.0
9.001	14.275	0.088	0.0	0.61	254.0
9.002	14.250	0.132	0.0	0.61	254.0
9.003	14.225	0.176	0.0	0.61	254.0

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Existing Network Details for Storm

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9.004	18.654	0.400	46.6	0.044	5.00	0.0	0.600	o	150	Pipe/Conduit
10.000	46.085	0.460	100.2	0.072	5.00	0.0	0.600	Q90	-7	Pipe/Conduit
10.001	46.085	0.030	1536.2	0.072	0.00	0.0	0.600	Q90	-7	Pipe/Conduit
10.002	46.085	0.030	1536.2	0.072	0.00	0.0	0.600	Q90	-7	Pipe/Conduit
10.003	46.085	0.040	1152.1	0.072	0.00	0.0	0.600	Q90	-7	Pipe/Conduit
9.005	15.308	0.318	48.1	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit
5.006	15.232	0.046	331.1	0.000	0.00	0.0	0.600	o	525	Pipe/Conduit
5.007	38.872	0.142	273.7	0.199	4.00	0.0	0.600	o	525	Pipe/Conduit
5.008	45.092	0.023	1960.5	0.000	0.00	0.0	0.600	o	525	Pipe/Conduit
5.009	43.178	0.225	191.9	0.358	0.00	0.0	0.600	o	525	Pipe/Conduit
5.010	36.661	0.060	611.0	0.027	0.00	0.0	0.600	o	525	Pipe/Conduit
11.000	55.177	0.458	120.5	0.282	5.00	0.0	0.600	o	300	Pipe/Conduit
11.001	12.039	0.200	60.2	0.136	0.00	0.0	0.600	o	300	Pipe/Conduit
5.011	24.910	0.010	2491.0	0.045	0.00	0.0	0.600	o	525	Pipe/Conduit
5.012	15.783	0.058	272.1	0.021	0.00	0.0	0.600	o	525	Pipe/Conduit
12.000	14.017	0.000	0.0	0.000	5.00	0.0	0.600	o	600	Pipe/Conduit
5.013	24.379	0.337	72.3	0.000	0.00	0.0	0.600	o	450	Pipe/Conduit

Network Results Table

PN	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Vel (m/s)	Cap (l/s)
9.004	14.200	0.220	0.0	1.48	26.1
10.000	14.200	0.072	0.0	2.67	1105.1
10.001	13.740	0.144	0.0	0.67	278.5
10.002	13.710	0.216	0.0	0.67	278.5
10.003	13.680	0.288	0.0	0.78	322.3
9.005	13.640	0.508	0.0	1.45	25.7
5.006	13.322	1.437	0.0	1.23	265.3
5.007	13.276	1.636	0.0	1.35	292.0
5.008	13.134	1.636	0.0	0.50	107.5
5.009	13.111	1.994	0.0	1.61	349.3
5.010	12.886	2.021	0.0	0.90	194.6
11.000	13.484	0.282	0.0	1.43	101.2
11.001	13.026	0.419	0.0	2.03	143.5
5.011	12.826	2.485	0.0	0.44	95.1
5.012	12.816	2.506	0.0	1.35	292.9
12.000	12.783	0.000	0.0	0.00	0.0
5.013	12.783	2.506	0.0	2.39	380.5

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5.014	13.200	0.096	137.5	0.000	0.00	0.0	0.600	o	450	Pipe/Conduit
5.015	3.661	0.110	33.3	0.000	0.00	0.0	0.600	o	450	Pipe/Conduit

Network Results Table

PN	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Vel (m/s)	Cap (l/s)
5.014	12.446	2.506	0.0	1.73	275.5
5.015	12.350	2.506	0.0	3.53	562.0

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Manhole Schedules for Storm

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)
QMAX	14.019	1.100	Open Manhole		5.000	12.919	-7				
QMAX	14.019	1.125	Junction		5.001	12.894	-7	5.000	12.894	-7	
QMAX	14.019	1.150	Junction		5.002	12.869	-7	5.001	12.869	-7	
QMAX	14.019	1.175	Junction		5.003	12.844	-7	5.002	12.844	-7	
QMAX	14.019	1.100	Open Manhole		6.000	12.919	-7				
S1	14.065	1.246	Junction	0	5.004	12.819	150	5.003	12.819	-7	
								6.000	12.819	-7	
QMAX	15.300	1.100	Open Manhole		7.000	14.200	-7				
QMAX	14.700	1.100	Junction		7.001	13.600	-7	7.000	13.600	-7	
QMAX	14.625	1.100	Junction		7.002	13.525	-7	7.001	13.525	-7	
QMAX	14.625	1.200	Junction		7.003	13.425	-7	7.002	13.425	-7	
QMAX	14.800	1.100	Open Manhole		8.000	13.700	-7				
QMAX	14.625	1.200	Junction	0	7.004	13.425	150	7.003	13.425	-7	
								8.000	13.425	-7	
S2	14.660	1.290	Open Manhole	1500	5.005	13.370	450	5.004	13.370	150	
								7.004	13.370	150	
QMAX	15.400	1.100	Open Manhole		9.000	14.300	-7				
QMAX	15.400	1.125	Junction		9.001	14.275	-7	9.000	14.275	-7	
QMAX	15.400	1.150	Junction		9.002	14.250	-7	9.001	14.250	-7	
QMAX	15.400	1.175	Junction		9.003	14.225	-7	9.002	14.225	-7	
QMAX	15.400	1.200	Junction		9.004	14.200	150	9.003	14.200	-7	
QMAX	15.300	1.100	Open Manhole		10.000	14.200	-7				
QMAX	14.840	1.100	Junction		10.001	13.740	-7	10.000	13.740	-7	
QMAX	14.840	1.130	Junction		10.002	13.710	-7	10.001	13.710	-7	
QMAX	14.840	1.160	Junction		10.003	13.680	-7	10.002	13.680	-7	
QMAX	14.840	1.200	Junction	0	9.005	13.640	150	9.004	13.800	150	160
								10.003	13.640	-7	
S3	14.780	1.458	Open Manhole	1500	5.006	13.322	525	5.005	13.322	450	
								9.005	13.322	150	
S4	14.756	1.480	Open Manhole	1200	5.007	13.276	525	5.006	13.276	525	
S5	14.750	1.616	Open Manhole	1200	5.008	13.134	525	5.007	13.134	525	
S6	14.623	1.512	Open Manhole	1200	5.009	13.111	525	5.008	13.111	525	
S8	14.380	1.494	Open Manhole	1250	5.010	12.886	525	5.009	12.886	525	
S14	14.808	1.324	Open Manhole	1200	11.000	13.484	300				
S15	14.739	1.713	Open Manhole	1200	11.001	13.026	300	11.000	13.026	300	
S9	14.215	1.389	Open Manhole	1250	5.011	12.826	525	5.010	12.826	525	
								11.001	12.826	300	
S10	14.191	1.375	Open Manhole	1250	5.012	12.816	525	5.011	12.816	525	
ATT	14.565	1.782	Open Manhole	1200	12.000	12.783	600				
S11	13.900	1.142	Open Manhole	1350	5.013	12.783	450	5.012	12.758	525	