

Bellamy Wallace Partnership		Page 0
Grange House Bearsted Green Business Centre Bearsted, ME14 4DZ	Littlehampton West Sussex 1 in 100 year +30% Climate	
Date 12/12/2017 09:24 File FULL STORM NETWORK AK C...	Designed by Sean Young Checked by	
XP Solutions	Network 2017.1.2	

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for NEW FULL STORM NETWORK 1.SWS

Pipe Sizes NETWORK 2 STORM Manhole Sizes NETWORK 2 STORM

FSR Rainfall Model - England and Wales

Return Period (years)	100	PIMP (%)	100
M5-60 (mm)	19.000	Add Flow / Climate Change (%)	30
Ratio R	0.350	Minimum Backdrop Height (m)	0.200
Maximum Rainfall (mm/hr)	50	Maximum Backdrop Height (m)	0.000
Maximum Time of Concentration (mins)	30	Min Design Depth for Optimisation (m)	1.200
Foul Sewage (l/s/ha)	0.000	Min Vel for Auto Design only (m/s)	0.75
Volumetric Runoff Coeff.	0.750	Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Time Area Diagram for NEW FULL STORM NETWORK 1.SWS

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.317	4-8	0.538	8-12	0.029

Total Area Contributing (ha) = 0.885

Total Pipe Volume (m³) = 26.274

Network Design Table for NEW FULL STORM NETWORK 1.SWS

« - Indicates pipe capacity < flow

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	Auto Design
1.000	5.000	0.050	100.0	0.028	5.00	0.0	0.600	o	100	Pipe/Conduit	
1.001	12.879	0.150	85.9	0.001	0.00	0.0	0.600	o	100	Pipe/Conduit	
2.000	5.000	0.050	100.0	0.011	5.00	0.0	0.600	o	100	Pipe/Conduit	
2.001	7.828	0.150	52.2	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL E (m)	I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.11	5.900	0.028	0.0	0.0	1.1	0.77	6.0	4.9
1.001	50.00	5.37	5.850	0.029	0.0	0.0	1.2	0.83	6.5	5.1
2.000	50.00	5.11	5.900	0.011	0.0	0.0	0.4	0.77	6.0	1.9
2.001	50.00	5.23	5.850	0.011	0.0	0.0	0.4	1.07	8.4	1.9

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Network Design Table for NEW FULL STORM NETWORK 1.SWS												
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	Auto Design	
1.002	12.163	0.100	121.6	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
3.000	5.000	0.050	100.0	0.012	5.00	0.0	0.600	o	100	Pipe/Conduit		
3.001	4.858	0.050	97.2	0.004	0.00	0.0	0.600	o	100	Pipe/Conduit		
3.002	4.559	0.350	13.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
1.003	6.294	0.075	83.9	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit		
4.000	5.000	0.050	100.0	0.003	5.00	0.0	0.600	o	100	Pipe/Conduit		
4.001	3.290	0.975	3.4	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
1.004	41.903	0.200	209.5	0.025	0.00	0.0	0.600	o	150	Pipe/Conduit		
5.000	20.323	0.250	81.3	0.010	5.00	0.0	0.600	o	100	Pipe/Conduit		
6.000	7.912	0.400	19.8	0.004	5.00	0.0	0.600	o	100	Pipe/Conduit		
5.001	15.640	0.200	78.2	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
7.000	5.000	0.050	100.0	0.008	5.00	0.0	0.600	o	100	Pipe/Conduit		
7.001	5.000	0.450	11.1	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
Network Results Table												
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)		
1.002	50.00	5.66	5.700	0.040	0.0	0.0	1.6	0.70	5.5«	7.0		
3.000	50.00	5.11	6.050	0.012	0.0	0.0	0.5	0.77	6.0	2.1		
3.001	50.00	5.21	6.000	0.016	0.0	0.0	0.6	0.78	6.1	2.8		
3.002	50.00	5.25	5.950	0.016	0.0	0.0	0.6	2.15	16.9	2.8		
1.003	50.00	5.75	5.550	0.056	0.0	0.0	2.3	1.10	19.4	9.9		
4.000	50.00	5.11	6.550	0.003	0.0	0.0	0.1	0.77	6.0	0.5		
4.001	50.00	5.12	6.500	0.003	0.0	0.0	0.1	4.24	33.3	0.5		
1.004	50.00	6.77	5.475	0.084	0.0	0.0	3.4	0.69	12.2«	14.8		
5.000	50.00	5.40	6.550	0.010	0.0	0.0	0.4	0.85	6.7	1.8		
6.000	50.00	5.08	6.700	0.004	0.0	0.0	0.2	1.74	13.7	0.7		
5.001	50.00	5.70	6.300	0.014	0.0	0.0	0.6	0.87	6.8	2.5		
7.000	50.00	5.11	6.600	0.008	0.0	0.0	0.3	0.77	6.0	1.4		
7.001	50.00	5.14	6.550	0.008	0.0	0.0	0.3	2.33	18.3	1.4		
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Network Design Table for NEW FULL STORM NETWORK 1.SWS												
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	Auto Design	
8.000	5.000	0.050	100.0	0.007	5.00	0.0	0.600	o	100	Pipe/Conduit		
8.001	5.000	0.450	11.1	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
5.002	18.443	0.187	98.6	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
9.000	5.000	0.050	100.0	0.010	5.00	0.0	0.600	o	100	Pipe/Conduit		
9.001	5.000	0.637	7.8	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
5.003	11.108	0.113	98.3	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
10.000	5.000	0.050	100.0	0.006	5.00	0.0	0.600	o	100	Pipe/Conduit		
10.001	5.000	0.750	6.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
11.000	12.026	0.750	16.0	0.002	5.00	0.0	0.600	o	100	Pipe/Conduit		
5.004	6.763	0.124	54.5	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
12.000	5.000	0.069	72.5	0.017	5.00	0.0	0.600	o	100	Pipe/Conduit		
12.001	8.533	0.132	64.6	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
13.000	5.000	0.050	100.0	0.013	5.00	0.0	0.600	o	100	Pipe/Conduit		
Network Results Table												
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)		
8.000	50.00	5.11	6.600	0.007	0.0	0.0	0.3	0.77	6.0	1.2		
8.001	50.00	5.14	6.550	0.007	0.0	0.0	0.3	2.33	18.3	1.2		
5.002	50.00	6.09	6.100	0.029	0.0	0.0	1.2	0.77	6.1	5.1		
9.000	50.00	5.11	6.600	0.010	0.0	0.0	0.4	0.77	6.0	1.8		
9.001	50.00	5.14	6.550	0.010	0.0	0.0	0.4	2.78	21.8	1.8		
5.003	50.00	6.33	5.913	0.039	0.0	0.0	1.6	0.78	6.1«	6.9		
10.000	50.00	5.11	6.600	0.006	0.0	0.0	0.2	0.77	6.0	1.1		
10.001	50.00	5.14	6.550	0.006	0.0	0.0	0.2	3.01	23.7	1.1		
11.000	50.00	5.10	6.550	0.002	0.0	0.0	0.1	1.94	15.2	0.4		
5.004	50.00	6.44	5.800	0.047	0.0	0.0	1.9	1.05	8.2«	8.3		
12.000	50.00	5.09	6.750	0.017	0.0	0.0	0.7	0.91	7.1	3.0		
12.001	50.00	5.24	6.681	0.017	0.0	0.0	0.7	0.96	7.5	3.0		
13.000	50.00	5.11	6.700	0.013	0.0	0.0	0.5	0.77	6.0	2.3		
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Network Design Table for NEW FULL STORM NETWORK 1.SWS											
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	Auto Design
13.001	5.000	0.101	49.3	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
12.002	8.835	0.123	72.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
14.000	5.000	0.050	100.0	0.013	5.00	0.0	0.600	o	100	Pipe/Conduit	
14.001	5.000	0.224	22.3	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
12.003	9.200	0.129	71.4	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
15.000	5.000	0.050	100.0	0.013	5.00	0.0	0.600	o	100	Pipe/Conduit	
15.001	5.000	0.053	94.3	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
12.004	5.780	0.047	123.0	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
12.005	5.590	0.925	6.0	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
1.005	64.849	0.575	112.8	0.047	0.00	0.0	0.600	o	225	Pipe/Conduit	
16.000	5.000	0.050	100.0	0.014	5.00	0.0	0.600	o	100	Pipe/Conduit	
16.001	9.205	0.197	46.8	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
17.000	5.000	0.050	100.0	0.012	5.00	0.0	0.600	o	100	Pipe/Conduit	
17.001	5.000	0.097	51.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
Network Results Table											
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	
13.001	50.00	5.18	6.650	0.013	0.0	0.0	0.5	1.10	8.6	2.3	
12.002	50.00	5.40	6.549	0.030	0.0	0.0	1.2	0.91	7.1	5.3	
14.000	50.00	5.11	6.700	0.013	0.0	0.0	0.5	0.77	6.0	2.3	
14.001	50.00	5.16	6.650	0.013	0.0	0.0	0.5	1.64	12.9	2.3	
12.003	50.00	5.57	6.426	0.043	0.0	0.0	1.7	0.91	7.2«	7.6	
15.000	50.00	5.11	6.400	0.013	0.0	0.0	0.5	0.77	6.0	2.3	
15.001	50.00	5.21	6.350	0.013	0.0	0.0	0.5	0.79	6.2	2.3	
12.004	50.00	5.68	6.247	0.056	0.0	0.0	2.3	0.90	16.0	9.9	
12.005	50.00	5.70	6.200	0.056	0.0	0.0	2.3	4.13	72.9	9.9	
1.005	50.00	7.64	5.200	0.234	0.0	0.0	9.5	1.23	48.9	41.2	
16.000	50.00	5.11	6.500	0.014	0.0	0.0	0.6	0.77	6.0	2.5	
16.001	50.00	5.24	6.450	0.014	0.0	0.0	0.6	1.13	8.9	2.5	
17.000	50.00	5.11	6.400	0.012	0.0	0.0	0.5	0.77	6.0	2.1	
17.001	50.00	5.19	6.350	0.012	0.0	0.0	0.5	1.07	8.4	2.1	
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Network Design Table for NEW FULL STORM NETWORK 1.SWS												
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	Auto Design	
16.002	8.839	0.189	46.8	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
18.000	5.000	0.050	100.0	0.012	5.00	0.0	0.600	o	100	Pipe/Conduit		
18.001	5.000	0.186	26.9	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
16.003	8.831	0.190	46.4	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
19.000	5.000	0.050	100.0	0.011	5.00	0.0	0.600	o	100	Pipe/Conduit		
19.001	5.000	0.126	39.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
16.004	11.513	0.319	36.1	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
20.000	5.000	0.050	100.0	0.015	5.00	0.0	0.600	o	100	Pipe/Conduit		
20.001	5.000	0.295	16.9	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
16.005	11.420	0.244	46.8	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
21.000	5.000	0.050	100.0	0.017	5.00	0.0	0.600	o	100	Pipe/Conduit		
21.001	5.000	0.339	14.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
16.006	5.326	0.061	87.3	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit		
Network Results Table												
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)		
16.002	50.00	5.37	6.253	0.026	0.0	0.0	1.1	1.13	8.9	4.6		
18.000	50.00	5.11	6.300	0.012	0.0	0.0	0.5	0.77	6.0	2.1		
18.001	50.00	5.16	6.250	0.012	0.0	0.0	0.5	1.49	11.7	2.1		
16.003	50.00	5.50	6.064	0.038	0.0	0.0	1.5	1.13	8.9	6.7		
19.000	50.00	5.11	6.050	0.011	0.0	0.0	0.4	0.77	6.0	1.9		
19.001	50.00	5.18	6.000	0.011	0.0	0.0	0.4	1.23	9.6	1.9		
16.004	50.00	5.65	5.874	0.049	0.0	0.0	2.0	1.29	10.1	8.6		
20.000	50.00	5.11	5.900	0.015	0.0	0.0	0.6	0.77	6.0	2.6		
20.001	50.00	5.15	5.850	0.015	0.0	0.0	0.6	1.89	14.8	2.6		
16.005	50.00	5.82	5.555	0.064	0.0	0.0	2.6	1.13	8.9«	11.3		
21.000	50.00	5.11	5.700	0.017	0.0	0.0	0.7	0.77	6.0	3.0		
21.001	50.00	5.15	5.650	0.017	0.0	0.0	0.7	2.02	15.9	3.0		
16.006	50.00	5.90	5.261	0.081	0.0	0.0	3.3	1.08	19.0	14.3		
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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	Auto Design
22.000	5.000	0.050	100.0	0.025	5.00	0.0	0.600	o	100	Pipe/Conduit		
22.001	9.508	0.100	95.1	0.001	0.00	0.0	0.600	o	100	Pipe/Conduit		
22.002	16.163	0.150	107.8	0.007	0.00	0.0	0.600	o	100	Pipe/Conduit		
23.000	5.000	0.050	100.0	0.034	5.00	0.0	0.600	o	100	Pipe/Conduit		
23.001	7.768	0.100	77.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
22.003	15.043	0.150	100.3	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit		
22.004	3.944	0.050	78.9	0.001	0.00	0.0	0.600	o	150	Pipe/Conduit		
22.005	13.472	0.150	89.8	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit		
16.007	3.474	0.046	75.5	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit		
24.000	5.000	0.050	100.0	0.012	5.00	0.0	0.600	o	100	Pipe/Conduit		
24.001	5.000	0.346	14.5	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
16.008	3.717	0.054	68.8	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit		
16.009	3.533	0.400	8.8	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit		
25.000	16.639	0.200	83.2	0.008	5.00	0.0	0.600	o	100	Pipe/Conduit		
Network Results Table												
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)		
22.000	50.00	5.11	5.900	0.025	0.0	0.0	1.0	0.77	6.0	4.4		
22.001	50.00	5.31	5.850	0.026	0.0	0.0	1.1	0.79	6.2	4.6		
22.002	50.00	5.67	5.750	0.033	0.0	0.0	1.3	0.74	5.8	5.8		
23.000	50.00	5.11	5.750	0.034	0.0	0.0	1.4	0.77	6.0	6.0		
23.001	50.00	5.26	5.700	0.034	0.0	0.0	1.4	0.87	6.9	6.0		
22.003	50.00	5.92	5.550	0.067	0.0	0.0	2.7	1.00	17.7	11.8		
22.004	50.00	5.98	5.400	0.068	0.0	0.0	2.8	1.13	20.0	12.0		
22.005	50.00	6.19	5.350	0.068	0.0	0.0	2.8	1.06	18.7	12.0		
16.007	50.00	6.24	5.200	0.149	0.0	0.0	6.1	1.16	20.5«	26.2		
24.000	50.00	5.11	5.600	0.012	0.0	0.0	0.5	0.77	6.0	2.1		
24.001	50.00	5.15	5.550	0.012	0.0	0.0	0.5	2.04	16.0	2.1		
16.008	50.00	6.28	5.079	0.161	0.0	0.0	6.5	1.58	62.8	28.3		
16.009	50.00	6.30	5.025	0.161	0.0	0.0	6.5	4.43	176.1	28.3		
25.000	50.00	5.33	5.600	0.008	0.0	0.0	0.3	0.84	6.6	1.4		
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Grange House Bearsted Green Business Centre Bearsted, ME14 4DZ					Littlehampton West Sussex 1 in 100 year +30% Climate							
Date 12/12/2017 09:24					Designed by Sean Young							
File FULL STORM NETWORK AK C...					Checked by							
XP Solutions					Network 2017.1.2							
Network Design Table for NEW FULL STORM NETWORK 1.SWS												
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	Auto Design	
26.000	9.836	0.200	49.2	0.007	5.00	0.0	0.600	o	100	Pipe/Conduit		
25.001	15.099	0.200	75.5	0.007	0.00	0.0	0.600	o	100	Pipe/Conduit		
27.000	5.000	0.050	100.0	0.014	5.00	0.0	0.600	o	100	Pipe/Conduit		
27.001	5.000	0.450	11.1	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
25.002	16.509	0.200	82.5	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
28.000	5.000	0.050	100.0	0.010	5.00	0.0	0.600	o	100	Pipe/Conduit		
28.001	5.000	0.300	16.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
29.000	5.000	0.050	100.0	0.004	5.00	0.0	0.600	o	100	Pipe/Conduit		
29.001	5.000	0.150	33.3	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
25.003	8.005	0.250	32.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
1.006	18.495	0.323	57.2	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit		
30.000	5.000	0.050	100.0	0.013	5.00	0.0	0.600	o	100	Pipe/Conduit		
30.001	9.056	0.140	64.9	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
Network Results Table												
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)		
26.000	50.00	5.15	5.600	0.007	0.0	0.0	0.3	1.10	8.7	1.2		
25.001	50.00	5.61	5.400	0.022	0.0	0.0	0.9	0.89	7.0	3.9		
27.000	50.00	5.11	5.700	0.014	0.0	0.0	0.6	0.77	6.0	2.5		
27.001	50.00	5.14	5.650	0.014	0.0	0.0	0.6	2.33	18.3	2.5		
25.002	50.00	5.94	5.200	0.036	0.0	0.0	1.5	0.85	6.7	6.3		
28.000	50.00	5.11	5.350	0.010	0.0	0.0	0.4	0.77	6.0	1.8		
28.001	50.00	5.15	5.300	0.010	0.0	0.0	0.4	1.90	14.9	1.8		
29.000	50.00	5.11	5.200	0.004	0.0	0.0	0.2	0.77	6.0	0.7		
29.001	50.00	5.17	5.150	0.004	0.0	0.0	0.2	1.34	10.5	0.7		
25.003	50.00	6.03	5.000	0.050	0.0	0.0	2.0	1.37	10.7	8.8		
1.006	50.00	7.82	4.625	0.445	0.0	0.0	18.1	1.73	68.9«	78.3		
30.000	50.00	5.11	5.500	0.013	0.0	0.0	0.5	0.77	6.0	2.3		
30.001	50.00	5.27	5.450	0.013	0.0	0.0	0.5	0.96	7.5	2.3		
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Grange House Bearsted Green Business Centre Bearsted, ME14 4DZ						Littlehampton West Sussex 1 in 100 year +30% Climate						
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Network Design Table for NEW FULL STORM NETWORK 1.SWS												
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	Auto Design	
31.000	5.000	0.050	100.0	0.013	5.00	0.0	0.600	o	100	Pipe/Conduit		
31.001	5.000	0.040	125.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
30.002	3.916	0.060	65.3	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
30.003	3.179	0.823	3.9	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
1.007	5.742	0.077	74.6	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit		
32.000	4.128	0.050	82.6	0.019	5.00	0.0	0.600	o	100	Pipe/Conduit		
32.001	3.219	0.800	4.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
1.008	7.556	0.184	41.1	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit		
1.009	16.800	0.273	61.5	0.033	0.00	0.0	0.600	o	300	Pipe/Conduit		
33.000	5.000	0.050	100.0	0.017	5.00	0.0	0.600	o	100	Pipe/Conduit		
33.001	5.000	0.807	6.2	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
1.010	9.042	0.045	200.9	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit		
34.000	5.000	0.050	100.0	0.012	5.00	0.0	0.600	o	100	Pipe/Conduit		
34.001	5.000	0.802	6.2	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
Network Results Table												
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)		
31.000	50.00	5.11	5.400	0.013	0.0	0.0	0.5	0.77	6.0	2.3		
31.001	50.00	5.23	5.350	0.013	0.0	0.0	0.5	0.69	5.4	2.3		
30.002	50.00	5.33	5.310	0.026	0.0	0.0	1.1	0.95	7.5	4.6		
30.003	50.00	5.35	5.250	0.026	0.0	0.0	1.1	3.96	31.1	4.6		
1.007	50.00	7.87	4.227	0.471	0.0	0.0	19.1	1.82	128.8	82.9		
32.000	50.00	5.08	5.200	0.019	0.0	0.0	0.8	0.85	6.7	3.3		
32.001	50.00	5.10	5.150	0.019	0.0	0.0	0.8	3.88	30.5	3.3		
1.008	50.00	7.93	4.150	0.490	0.0	0.0	19.9	2.46	173.9	86.3		
1.009	50.00	8.06	3.966	0.523	0.0	0.0	21.2	2.01	141.9	92.1		
33.000	50.00	5.11	4.750	0.017	0.0	0.0	0.7	0.77	6.0	3.0		
33.001	50.00	5.14	4.700	0.017	0.0	0.0	0.7	3.13	24.6	3.0		
1.010	50.00	8.20	3.693	0.540	0.0	0.0	21.9	1.11	78.1	95.1		
34.000	50.00	5.11	4.700	0.012	0.0	0.0	0.5	0.77	6.0	2.1		
34.001	50.00	5.14	4.650	0.012	0.0	0.0	0.5	3.12	24.5	2.1		
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XP Solutions					Network 2017.1.2							
Network Design Table for NEW FULL STORM NETWORK 1.SWS												
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	Auto Design
1.011	14.113	0.070	201.6	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit		
35.000	5.000	0.050	100.0	0.021	5.00	0.0	0.600	o	100	Pipe/Conduit		
35.001	5.000	0.572	8.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
1.012	13.070	0.063	207.5	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit		
36.000	20.234	0.250	80.9	0.012	5.00	0.0	0.600	o	100	Pipe/Conduit		
36.001	17.896	0.200	89.5	0.006	0.00	0.0	0.600	o	100	Pipe/Conduit		
37.000	5.000	0.050	100.0	0.012	5.00	0.0	0.600	o	100	Pipe/Conduit		
37.001	5.000	0.250	20.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
38.000	5.000	0.050	100.0	0.006	5.00	0.0	0.600	o	100	Pipe/Conduit		
38.001	5.000	0.200	25.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
36.002	13.660	0.150	91.1	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
39.000	5.000	0.050	100.0	0.012	5.00	0.0	0.600	o	100	Pipe/Conduit		
39.001	5.000	0.450	11.1	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
36.003	4.743	0.100	47.4	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
Network Results Table												
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)		
1.011	50.00	8.41	3.648	0.552		0.0	0.0	22.4	1.10	78.0«	97.2	
35.000	50.00	5.11	4.400	0.021		0.0	0.0	0.9	0.77	6.0	3.7	
35.001	50.00	5.14	4.350	0.021		0.0	0.0	0.9	2.63	20.7	3.7	
1.012	50.00	8.61	3.578	0.573		0.0	0.0	23.3	1.09	76.9«	100.9	
36.000	50.00	5.39	4.600	0.012		0.0	0.0	0.5	0.86	6.7	2.1	
36.001	50.00	5.76	4.350	0.018		0.0	0.0	0.7	0.81	6.4	3.2	
37.000	50.00	5.11	4.450	0.012		0.0	0.0	0.5	0.77	6.0	2.1	
37.001	50.00	5.16	4.400	0.012		0.0	0.0	0.5	1.73	13.6	2.1	
38.000	50.00	5.11	4.400	0.006		0.0	0.0	0.2	0.77	6.0	1.1	
38.001	50.00	5.16	4.350	0.006		0.0	0.0	0.2	1.55	12.2	1.1	
36.002	50.00	6.04	4.150	0.036		0.0	0.0	1.5	0.81	6.3«	6.3	
39.000	50.00	5.11	4.500	0.012		0.0	0.0	0.5	0.77	6.0	2.1	
39.001	50.00	5.14	4.450	0.012		0.0	0.0	0.5	2.33	18.3	2.1	
36.003	50.00	6.11	4.000	0.048		0.0	0.0	1.9	1.12	8.8	8.4	
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XP Solutions					Network 2017.1.2							
Network Design Table for NEW FULL STORM NETWORK 1.SWS												
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	Auto Design	
36.004	16.483	0.055	299.7	0.043	0.00	0.0	0.600	o	150	Pipe/Conduit		
40.000	20.294	0.250	81.2	0.012	5.00	0.0	0.600	o	100	Pipe/Conduit		
40.001	17.803	0.200	89.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
41.000	5.000	0.050	100.0	0.025	5.00	0.0	0.600	o	100	Pipe/Conduit		
41.001	5.000	0.200	25.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
40.002	3.902	0.477	8.2	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
36.005	14.604	0.090	162.3	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit		
42.000	5.000	0.050	100.0	0.009	5.00	0.0	0.600	o	100	Pipe/Conduit		
42.001	5.000	0.417	12.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
36.006	11.027	0.068	162.2	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit		
1.013	25.204	0.082	307.4	0.037	0.00	0.0	0.600	o	375	Pipe/Conduit		
43.000	5.000	0.050	100.0	0.011	5.00	0.0	0.600	o	100	Pipe/Conduit		
43.001	5.000	0.267	18.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
Network Results Table												
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)		
36.004	50.00	6.59	3.850	0.091	0.0	0.0	3.7	0.58	10.2«	16.0		
40.000	50.00	5.40	4.800	0.012	0.0	0.0	0.5	0.85	6.7	2.1		
40.001	50.00	5.76	4.550	0.012	0.0	0.0	0.5	0.82	6.4	2.1		
41.000	50.00	5.11	4.600	0.025	0.0	0.0	1.0	0.77	6.0	4.4		
41.001	50.00	5.16	4.550	0.025	0.0	0.0	1.0	1.55	12.2	4.4		
40.002	50.00	5.78	4.350	0.037	0.0	0.0	1.5	2.72	21.4	6.5		
36.005	50.00	6.83	3.748	0.128	0.0	0.0	5.2	1.02	40.7	22.5		
42.000	50.00	5.11	4.250	0.009	0.0	0.0	0.4	0.77	6.0	1.6		
42.001	50.00	5.15	4.200	0.009	0.0	0.0	0.4	2.24	17.6	1.6		
36.006	50.00	7.01	3.658	0.137	0.0	0.0	5.6	1.02	40.7	24.1		
1.013	50.00	9.02	3.440	0.747	0.0	0.0	30.3	1.03	113.6«	131.5		
43.000	50.00	5.11	3.950	0.011	0.0	0.0	0.4	0.77	6.0	1.9		
43.001	50.00	5.15	3.900	0.011	0.0	0.0	0.4	1.79	14.1	1.9		
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Network Design Table for NEW FULL STORM NETWORK 1.SWS												
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	Auto Design	
1.014	9.087	0.029	313.3	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit		
44.000	5.000	0.110	45.5	0.012	5.00	0.0	0.600	o	100	Pipe/Conduit		
44.001	5.000	0.386	13.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
1.015	9.373	0.030	312.4	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit		
45.000	5.000	0.050	100.0	0.012	5.00	0.0	0.600	o	100	Pipe/Conduit		
45.001	5.000	0.176	28.4	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
1.016	4.977	0.016	311.1	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit		
46.000	5.000	0.050	100.0	0.025	5.00	0.0	0.600	o	100	Pipe/Conduit		
46.001	5.000	0.292	17.1	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
1.017	4.784	0.016	299.0	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit		
47.000	5.000	0.050	100.0	0.011	5.00	0.0	0.600	o	100	Pipe/Conduit		
47.001	5.000	0.258	19.4	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
1.018	8.306	0.027	307.6	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit		
Network Results Table												
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)		
1.014	50.00	9.17	3.358	0.758	0.0	0.0	30.8	1.02	112.5«	133.4		
44.000	50.00	5.07	4.100	0.012	0.0	0.0	0.5	1.15	9.0	2.1		
44.001	50.00	5.11	3.990	0.012	0.0	0.0	0.5	2.16	17.0	2.1		
1.015	50.00	9.32	3.329	0.770	0.0	0.0	31.3	1.02	112.6«	135.5		
45.000	50.00	5.11	3.800	0.012	0.0	0.0	0.5	0.77	6.0	2.1		
45.001	50.00	5.17	3.750	0.012	0.0	0.0	0.5	1.45	11.4	2.1		
1.016	50.00	9.41	3.299	0.782	0.0	0.0	31.8	1.02	112.9«	137.7		
46.000	50.00	5.11	3.900	0.025	0.0	0.0	1.0	0.77	6.0	4.4		
46.001	50.00	5.15	3.850	0.025	0.0	0.0	1.0	1.88	14.7	4.4		
1.017	50.00	9.48	3.283	0.807	0.0	0.0	32.8	1.04	115.2«	142.1		
47.000	50.00	5.11	3.850	0.011	0.0	0.0	0.4	0.77	6.0	1.9		
47.001	50.00	5.16	3.800	0.011	0.0	0.0	0.4	1.76	13.8	1.9		
1.018	50.00	9.62	3.267	0.818	0.0	0.0	33.2	1.03	113.5«	144.0		
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XP Solutions						Network 2017.1.2						
Network Design Table for NEW FULL STORM NETWORK 1.SWS												
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	Auto Design	
48.000	5.000	0.050	100.0	0.012	5.00	0.0	0.600	o	100	Pipe/Conduit		
48.001	8.853	0.300	29.5	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
49.000	5.000	0.050	100.0	0.012	5.00	0.0	0.600	o	100	Pipe/Conduit		
48.002	31.132	0.500	62.3	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
50.000	23.770	0.250	95.1	0.012	5.00	0.0	0.600	o	100	Pipe/Conduit		
50.001	15.717	0.200	78.6	0.002	0.00	0.0	0.600	o	100	Pipe/Conduit		
50.002	5.781	0.100	57.8	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
51.000	5.000	0.050	100.0	0.028	5.00	0.0	0.600	o	100	Pipe/Conduit		
51.001	5.000	0.250	20.0	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
48.003	17.992	0.200	90.0	0.001	0.00	0.0	0.600	o	150	Pipe/Conduit		
48.004	6.795	0.485	14.0	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit		
1.019	6.135	0.540	11.4	0.000	0.00	0.0	0.600	o	375	Pipe/Conduit		
Network Results Table												
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)		
48.000	50.00	5.11	5.050	0.012	0.0	0.0	0.5	0.77	6.0	2.1		
48.001	50.00	5.21	5.000	0.012	0.0	0.0	0.5	1.43	11.2	2.1		
49.000	50.00	5.11	4.750	0.012	0.0	0.0	0.5	0.77	6.0	2.1		
48.002	50.00	5.74	4.700	0.024	0.0	0.0	1.0	0.98	7.7	4.2		
50.000	50.00	5.50	4.750	0.012	0.0	0.0	0.5	0.79	6.2	2.1		
50.001	50.00	5.80	4.500	0.014	0.0	0.0	0.6	0.87	6.8	2.5		
50.002	50.00	5.90	4.300	0.014	0.0	0.0	0.6	1.02	8.0	2.5		
51.000	50.00	5.11	4.500	0.028	0.0	0.0	1.1	0.77	6.0	4.9		
51.001	50.00	5.16	4.450	0.028	0.0	0.0	1.1	1.73	13.6	4.9		
48.003	50.00	6.18	4.150	0.067	0.0	0.0	2.7	1.06	18.7	11.8		
48.004	50.00	6.22	3.950	0.067	0.0	0.0	2.7	2.71	47.8	11.8		
1.019	50.00	9.64	3.240	0.885	0.0	0.0	36.0	5.40	596.5	155.8		
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XP Solutions				Network 2017.1.2							
Manhole Schedules for NEW FULL STORM NETWORK 1.SWS											
MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backdrop (mm)
501	6.500	0.600	Open Manhole	1050	1.000	5.900	100				
502	6.500	0.650	Open Manhole	1050	1.001	5.850	100	1.000	5.850	100	
515	6.500	0.600	Open Manhole	1050	2.000	5.900	100				
516	6.950	1.100	Open Manhole	1050	2.001	5.850	100	2.000	5.850	100	
503	6.850	1.150	Open Manhole	1050	1.002	5.700	100	1.001	5.700	100	
								2.001	5.700	100	
518	6.650	0.600	Open Manhole	1050	3.000	6.050	100				
519	6.950	0.950	Open Manhole	1050	3.001	6.000	100	3.000	6.000	100	
520	6.950	1.000	Open Manhole	1050	3.002	5.950	100	3.001	5.950	100	
504	6.950	1.400	Open Manhole	1050	1.003	5.550	150	1.002	5.600	100	
								3.002	5.600	100	
522	7.150	0.600	Open Manhole	1050	4.000	6.550	100				
523	7.150	0.650	Open Manhole	1050	4.001	6.500	100	4.000	6.500	100	
1	7.215	1.740	Open Manhole	1200	1.004	5.475	150	1.003	5.475	150	
								4.001	5.525	100	
524	7.000	0.450	Open Manhole	1050	5.000	6.550	100				
529	7.250	0.550	Open Manhole	1050	6.000	6.700	100				
525	7.250	0.950	Open Manhole	1050	5.001	6.300	100	5.000	6.300	100	
								6.000	6.300	100	
530	7.200	0.600	Open Manhole	1050	7.000	6.600	100				
531	7.200	0.650	Open Manhole	1050	7.001	6.550	100	7.000	6.550	100	
532	7.200	0.600	Open Manhole	1050	8.000	6.600	100				
533	7.200	0.650	Open Manhole	1050	8.001	6.550	100	8.000	6.550	100	
526	7.200	1.100	Open Manhole	1050	5.002	6.100	100	5.001	6.100	100	
								7.001	6.100	100	
								8.001	6.100	100	
534	7.200	0.600	Open Manhole	1050	9.000	6.600	100				
535	7.200	0.650	Open Manhole	1050	9.001	6.550	100	9.000	6.550	100	
527	7.200	1.287	Open Manhole	1050	5.003	5.913	100	5.002	5.913	100	
								9.001	5.913	100	
536	7.200	0.600	Open Manhole	1050	10.000	6.600	100				
537	7.200	0.650	Open Manhole	1050	10.001	6.550	100	10.000	6.550	100	
538	7.000	0.450	Open Manhole	1050	11.000	6.550	100				
528	7.200	1.400	Open Manhole	1050	5.004	5.800	100	5.003	5.800	100	
								10.001	5.800	100	
								11.000	5.800	100	
540	7.350	0.600	Open Manhole	1050	12.000	6.750	100				
541	7.350	0.669	Open Manhole	1050	12.001	6.681	100	12.000	6.681	100	
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Manhole Schedules for NEW FULL STORM NETWORK 1.SWS

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)
546	7.300	0.600	Open Manhole	1050	13.000	6.700	100				
547	7.300	0.650	Open Manhole	1050	13.001	6.650	100	13.000	6.650	100	
542	7.450	0.901	Open Manhole	1050	12.002	6.549	100	12.001	6.549	100	
								13.001	6.549	100	
548	7.300	0.600	Open Manhole	1050	14.000	6.700	100				
549	7.300	0.650	Open Manhole	1050	14.001	6.650	100	14.000	6.650	100	
543	6.813	0.387	Open Manhole	1050	12.003	6.426	100	12.002	6.426	100	
								14.001	6.426	100	
550	7.000	0.600	Open Manhole	1050	15.000	6.400	100				
551	7.000	0.650	Open Manhole	1050	15.001	6.350	100	15.000	6.350	100	
544	7.250	1.003	Open Manhole	1050	12.004	6.247	150	12.003	6.297	100	
								15.001	6.297	100	
545	7.100	0.900	Open Manhole	1050	12.005	6.200	150	12.004	6.200	150	
2	6.962	1.762	Open Manhole	1200	1.005	5.200	225	1.004	5.275	150	
								5.004	5.676	100	
								12.005	5.275	150	
553	7.100	0.600	Open Manhole	1050	16.000	6.500	100				
554	7.100	0.650	Open Manhole	1050	16.001	6.450	100	16.000	6.450	100	
563	7.000	0.600	Open Manhole	1050	17.000	6.400	100				
564	7.000	0.650	Open Manhole	1050	17.001	6.350	100	17.000	6.350	100	
555	7.000	0.747	Open Manhole	1050	16.002	6.253	100	16.001	6.253	100	
								17.001	6.253	100	
565	6.900	0.600	Open Manhole	1050	18.000	6.300	100				
566	6.900	0.650	Open Manhole	1050	18.001	6.250	100	18.000	6.250	100	
556	6.900	0.836	Open Manhole	1050	16.003	6.064	100	16.002	6.064	100	
								18.001	6.064	100	
567	6.650	0.600	Open Manhole	1050	19.000	6.050	100				
568	6.650	0.650	Open Manhole	1050	19.001	6.000	100	19.000	6.000	100	
557	6.650	0.776	Open Manhole	1050	16.004	5.874	100	16.003	5.874	100	
								19.001	5.874	100	
569	6.500	0.600	Open Manhole	1050	20.000	5.900	100				
570	6.500	0.650	Open Manhole	1050	20.001	5.850	100	20.000	5.850	100	
558	6.500	0.945	Open Manhole	1050	16.005	5.555	100	16.004	5.555	100	
								20.001	5.555	100	
571	6.300	0.600	Open Manhole	1050	21.000	5.700	100				
572	6.300	0.650	Open Manhole	1050	21.001	5.650	100	21.000	5.650	100	
559	6.300	1.039	Open Manhole	1050	16.006	5.261	150	16.005	5.311	100	
								21.001	5.311	100	

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Manhole Schedules for NEW FULL STORM NETWORK 1.SWS										
MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)
574	6.500	0.600	Open Manhole	1050	22.000	5.900	100			
575	6.500	0.650	Open Manhole	1050	22.001	5.850	100	22.000	5.850	
576	6.350	0.600	Open Manhole	1050	22.002	5.750	100	22.001	5.750	
581	6.350	0.600	Open Manhole	1050	23.000	5.750	100			
582	6.350	0.650	Open Manhole	1050	23.001	5.700	100	23.000	5.700	
577	6.362	0.812	Open Manhole	1050	22.003	5.550	150	22.002	5.600	
								23.001	5.600	
578	6.221	0.821	Open Manhole	1050	22.004	5.400	150	22.003	5.400	
579	6.196	0.846	Open Manhole	1050	22.005	5.350	150	22.004	5.350	
560	6.200	1.000	Open Manhole	1050	16.007	5.200	150	16.006	5.200	
								22.005	5.200	
583	6.200	0.600	Open Manhole	1050	24.000	5.600	100			
584	6.200	0.650	Open Manhole	1050	24.001	5.550	100	24.000	5.550	
561	6.200	1.121	Open Manhole	1050	16.008	5.079	225	16.007	5.154	
								24.001	5.204	
562	6.150	1.125	Open Manhole	1050	16.009	5.025	225	16.008	5.025	
585	6.200	0.600	Open Manhole	1050	25.000	5.600	100			
589	6.200	0.600	Open Manhole	1050	26.000	5.600	100			
586	6.150	0.750	Open Manhole	1050	25.001	5.400	100	25.000	5.400	
								26.000	5.400	
590	6.300	0.600	Open Manhole	1050	27.000	5.700	100			
591	6.300	0.650	Open Manhole	1050	27.001	5.650	100	27.000	5.650	
587	6.064	0.864	Open Manhole	1050	25.002	5.200	100	25.001	5.200	
								27.001	5.200	
592	5.950	0.600	Open Manhole	1050	28.000	5.350	100			
593	5.950	0.650	Open Manhole	1050	28.001	5.300	100	28.000	5.300	
594	5.800	0.600	Open Manhole	1050	29.000	5.200	100			
595	5.800	0.650	Open Manhole	1050	29.001	5.150	100	29.000	5.150	
588	6.030	1.030	Open Manhole	1050	25.003	5.000	100	25.002	5.000	
								28.001	5.000	
								29.001	5.000	
3	6.035	1.410	Open Manhole	1050	1.006	4.625	225	1.005	4.625	
								16.009	4.625	
								25.003	4.750	
597	6.100	0.600	Open Manhole	1050	30.000	5.500	100			
598	6.100	0.650	Open Manhole	1050	30.001	5.450	100	30.000	5.450	
601	6.000	0.600	Open Manhole	1050	31.000	5.400	100			
602	6.000	0.650	Open Manhole	1050	31.001	5.350	100	31.000	5.350	
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Manhole Schedules for NEW FULL STORM NETWORK 1.SWS										
MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)
599	6.091	0.781	Open Manhole	1050	30.002	5.310	100	30.001	5.310	
								31.001	5.310	
600	6.090	0.840	Open Manhole	1050	30.003	5.250	100	30.002	5.250	
505	5.771	1.544	Open Manhole	1050	1.007	4.227	300	1.006	4.302	
								30.003	4.427	
604	5.800	0.600	Open Manhole	1050	32.000	5.200	100			
605	5.800	0.650	Open Manhole	1050	32.001	5.150	100	32.000	5.150	
4	5.771	1.621	Open Manhole	1050	1.008	4.150	300	1.007	4.150	
								32.001	4.350	
5	5.623	1.657	Open Manhole	1050	1.009	3.966	300	1.008	3.966	
606	5.350	0.600	Open Manhole	1050	33.000	4.750	100			
607	5.350	0.650	Open Manhole	1050	33.001	4.700	100	33.000	4.700	
506	5.383	1.690	Open Manhole	1050	1.010	3.693	300	1.009	3.693	
								33.001	3.893	
608	5.300	0.600	Open Manhole	1050	34.000	4.700	100			
609	5.300	0.650	Open Manhole	1050	34.001	4.650	100	34.000	4.650	
507	5.254	1.606	Open Manhole	1050	1.011	3.648	300	1.010	3.648	
								34.001	3.848	
610	5.000	0.600	Open Manhole	1050	35.000	4.400	100			
611	5.000	0.650	Open Manhole	1050	35.001	4.350	100	35.000	4.350	
508	5.052	1.474	Open Manhole	1050	1.012	3.578	300	1.011	3.578	
								35.001	3.778	
612	5.200	0.600	Open Manhole	1050	36.000	4.600	100			
613	5.050	0.700	Open Manhole	1050	36.001	4.350	100	36.000	4.350	
618	5.050	0.600	Open Manhole	1050	37.000	4.450	100			
619	5.050	0.650	Open Manhole	1050	37.001	4.400	100	37.000	4.400	
620	5.000	0.600	Open Manhole	1050	38.000	4.400	100			
621	5.000	0.650	Open Manhole	1050	38.001	4.350	100	38.000	4.350	
614	5.695	1.545	Open Manhole	1050	36.002	4.150	100	36.001	4.150	
								37.001	4.150	
								38.001	4.150	
622	5.100	0.600	Open Manhole	1050	39.000	4.500	100			
623	5.100	0.650	Open Manhole	1050	39.001	4.450	100	39.000	4.450	
615	5.734	1.734	Open Manhole	1200	36.003	4.000	100	36.002	4.000	
								39.001	4.000	
6	5.263	1.413	Open Manhole	1050	36.004	3.850	150	36.003	3.900	
624	5.650	0.850	Open Manhole	1050	40.000	4.800	100			
625	5.855	1.305	Open Manhole	1050	40.001	4.550	100	40.000	4.550	
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Manhole Schedules for NEW FULL STORM NETWORK 1.SWS										
MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)
627	5.200	0.600	Open Manhole	1050	41.000	4.600	100			
628	5.200	0.650	Open Manhole	1050	41.001	4.550	100	41.000	4.550	
626	5.751	1.401	Open Manhole	1050	40.002	4.350	100	40.001	4.350	
								41.001	4.350	
616	5.057	1.309	Open Manhole	1050	36.005	3.748	225	36.004	3.795	
								40.002	3.873	
629	4.850	0.600	Open Manhole	1050	42.000	4.250	100			
630	4.850	0.650	Open Manhole	1050	42.001	4.200	100	42.000	4.200	
617	4.875	1.217	Open Manhole	1050	36.006	3.658	225	36.005	3.658	
								42.001	3.783	
7	4.940	1.500	Open Manhole	1350	1.013	3.440	375	1.012	3.515	
								36.006	3.590	
631	4.550	0.600	Open Manhole	1050	43.000	3.950	100			
632	4.550	0.650	Open Manhole	1050	43.001	3.900	100	43.000	3.900	
509	4.508	1.150	Open Manhole	1350	1.014	3.358	375	1.013	3.358	
								43.001	3.633	
633	4.600	0.500	Open Manhole	1050	44.000	4.100	100			
634	4.600	0.610	Open Manhole	1050	44.001	3.990	100	44.000	3.990	
510	4.450	1.121	Open Manhole	1350	1.015	3.329	375	1.014	3.329	
								44.001	3.604	
635	4.600	0.800	Open Manhole	1050	45.000	3.800	100			
636	4.500	0.750	Open Manhole	1050	45.001	3.750	100	45.000	3.750	
511	4.450	1.151	Open Manhole	1350	1.016	3.299	375	1.015	3.299	
								45.001	3.574	
637	4.500	0.600	Open Manhole	1050	46.000	3.900	100			
638	4.500	0.650	Open Manhole	1050	46.001	3.850	100	46.000	3.850	
512	4.450	1.167	Open Manhole	1350	1.017	3.283	375	1.016	3.283	
								46.001	3.558	
639	4.600	0.750	Open Manhole	1050	47.000	3.850	100			
640	4.600	0.800	Open Manhole	1050	47.001	3.800	100	47.000	3.800	
513	4.502	1.235	Open Manhole	1350	1.018	3.267	375	1.017	3.267	
								47.001	3.542	
642	5.650	0.600	Open Manhole	1050	48.000	5.050	100			
643	5.650	0.650	Open Manhole	1050	48.001	5.000	100	48.000	5.000	
648	5.350	0.600	Open Manhole	1050	49.000	4.750	100			
644	5.350	0.650	Open Manhole	1050	48.002	4.700	100	48.001	4.700	
								49.000	4.700	
649	5.400	0.650	Open Manhole	1050	50.000	4.750	100			
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Manhole Schedules for NEW FULL STORM NETWORK 1.SWS

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backdrop (mm)
650	5.100	0.600	Open Manhole	1050	50.001	4.500	100	50.000	4.500	100	
651	5.300	1.000	Open Manhole	1050	50.002	4.300	100	50.001	4.300	100	
652	5.200	0.700	Open Manhole	1050	51.000	4.500	100				
653	5.200	0.750	Open Manhole	1050	51.001	4.450	100	51.000	4.450	100	
645	4.567	0.417	Open Manhole	1050	48.003	4.150	150	48.002	4.200	100	
								50.002	4.200	100	
								51.001	4.200	100	
646	4.479	0.529	Open Manhole	1050	48.004	3.950	150	48.003	3.950	150	
8	4.781	1.541	Open Manhole	1350	1.019	3.240	375	1.018	3.240	375	
								48.004	3.465	150	
9	4.875	2.175	Open Manhole	0		OUTFALL		1.019	2.700	375	

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PIPELINE SCHEDULES for NEW FULL STORM NETWORK 1.SWS									
Upstream Manhole									
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W
1.000	o	100	501	6.500	5.900	0.500	Open Manhole		1050
1.001	o	100	502	6.500	5.850	0.550	Open Manhole		1050
2.000	o	100	515	6.500	5.900	0.500	Open Manhole		1050
2.001	o	100	516	6.950	5.850	1.000	Open Manhole		1050
1.002	o	100	503	6.850	5.700	1.050	Open Manhole		1050
3.000	o	100	518	6.650	6.050	0.500	Open Manhole		1050
3.001	o	100	519	6.950	6.000	0.850	Open Manhole		1050
3.002	o	100	520	6.950	5.950	0.900	Open Manhole		1050
1.003	o	150	504	6.950	5.550	1.250	Open Manhole		1050
4.000	o	100	522	7.150	6.550	0.500	Open Manhole		1050
4.001	o	100	523	7.150	6.500	0.550	Open Manhole		1050
1.004	o	150	1	7.215	5.475	1.590	Open Manhole		1200
5.000	o	100	524	7.000	6.550	0.350	Open Manhole		1050
Downstream Manhole									
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W
1.000	5.000	100.0	502	6.500	5.850	0.550	Open Manhole		1050
1.001	12.879	85.9	503	6.850	5.700	1.050	Open Manhole		1050
2.000	5.000	100.0	516	6.950	5.850	1.000	Open Manhole		1050
2.001	7.828	52.2	503	6.850	5.700	1.050	Open Manhole		1050
1.002	12.163	121.6	504	6.950	5.600	1.250	Open Manhole		1050
3.000	5.000	100.0	519	6.950	6.000	0.850	Open Manhole		1050
3.001	4.858	97.2	520	6.950	5.950	0.900	Open Manhole		1050
3.002	4.559	13.0	504	6.950	5.600	1.250	Open Manhole		1050
1.003	6.294	83.9	1	7.215	5.475	1.590	Open Manhole		1200
4.000	5.000	100.0	523	7.150	6.500	0.550	Open Manhole		1050
4.001	3.290	3.4	1	7.215	5.525	1.590	Open Manhole		1200
1.004	41.903	209.5	2	6.962	5.275	1.537	Open Manhole		1200
5.000	20.323	81.3	525	7.250	6.300	0.850	Open Manhole		1050
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Upstream Manhole									
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W
6.000	o	100	529	7.250	6.700	0.450	Open Manhole		1050
5.001	o	100	525	7.250	6.300	0.850	Open Manhole		1050
7.000	o	100	530	7.200	6.600	0.500	Open Manhole		1050
7.001	o	100	531	7.200	6.550	0.550	Open Manhole		1050
8.000	o	100	532	7.200	6.600	0.500	Open Manhole		1050
8.001	o	100	533	7.200	6.550	0.550	Open Manhole		1050
5.002	o	100	526	7.200	6.100	1.000	Open Manhole		1050
9.000	o	100	534	7.200	6.600	0.500	Open Manhole		1050
9.001	o	100	535	7.200	6.550	0.550	Open Manhole		1050
5.003	o	100	527	7.200	5.913	1.187	Open Manhole		1050
10.000	o	100	536	7.200	6.600	0.500	Open Manhole		1050
10.001	o	100	537	7.200	6.550	0.550	Open Manhole		1050
11.000	o	100	538	7.000	6.550	0.350	Open Manhole		1050
Downstream Manhole									
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W
6.000	7.912	19.8	525	7.250	6.300	0.850	Open Manhole		1050
5.001	15.640	78.2	526	7.200	6.100	1.000	Open Manhole		1050
7.000	5.000	100.0	531	7.200	6.550	0.550	Open Manhole		1050
7.001	5.000	11.1	526	7.200	6.100	1.000	Open Manhole		1050
8.000	5.000	100.0	533	7.200	6.550	0.550	Open Manhole		1050
8.001	5.000	11.1	526	7.200	6.100	1.000	Open Manhole		1050
5.002	18.443	98.6	527	7.200	5.913	1.187	Open Manhole		1050
9.000	5.000	100.0	535	7.200	6.550	0.550	Open Manhole		1050
9.001	5.000	7.8	527	7.200	5.913	1.187	Open Manhole		1050
5.003	11.108	98.3	528	7.200	5.800	1.300	Open Manhole		1050
10.000	5.000	100.0	537	7.200	6.550	0.550	Open Manhole		1050
10.001	5.000	6.7	528	7.200	5.800	1.300	Open Manhole		1050
11.000	12.026	16.0	528	7.200	5.800	1.300	Open Manhole		1050
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PIPELINE SCHEDULES for NEW FULL STORM NETWORK 1.SWS								
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)
5.004	o	100	528	7.200	5.800	1.300	Open Manhole	1050
12.000	o	100	540	7.350	6.750	0.500	Open Manhole	1050
12.001	o	100	541	7.350	6.681	0.569	Open Manhole	1050
13.000	o	100	546	7.300	6.700	0.500	Open Manhole	1050
13.001	o	100	547	7.300	6.650	0.550	Open Manhole	1050
12.002	o	100	542	7.450	6.549	0.801	Open Manhole	1050
14.000	o	100	548	7.300	6.700	0.500	Open Manhole	1050
14.001	o	100	549	7.300	6.650	0.550	Open Manhole	1050
12.003	o	100	543	6.813	6.426	0.287	Open Manhole	1050
15.000	o	100	550	7.000	6.400	0.500	Open Manhole	1050
15.001	o	100	551	7.000	6.350	0.550	Open Manhole	1050
12.004	o	150	544	7.250	6.247	0.853	Open Manhole	1050
12.005	o	150	545	7.100	6.200	0.750	Open Manhole	1050
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)
5.004	6.763	54.5	2	6.962	5.676	1.186	Open Manhole	1200
12.000	5.000	72.5	541	7.350	6.681	0.569	Open Manhole	1050
12.001	8.533	64.6	542	7.450	6.549	0.801	Open Manhole	1050
13.000	5.000	100.0	547	7.300	6.650	0.550	Open Manhole	1050
13.001	5.000	49.3	542	7.450	6.549	0.801	Open Manhole	1050
12.002	8.835	72.0	543	6.813	6.426	0.287	Open Manhole	1050
14.000	5.000	100.0	549	7.300	6.650	0.550	Open Manhole	1050
14.001	5.000	22.3	543	6.813	6.426	0.287	Open Manhole	1050
12.003	9.200	71.4	544	7.250	6.297	0.853	Open Manhole	1050
15.000	5.000	100.0	551	7.000	6.350	0.550	Open Manhole	1050
15.001	5.000	94.3	544	7.250	6.297	0.853	Open Manhole	1050
12.004	5.780	123.0	545	7.100	6.200	0.750	Open Manhole	1050
12.005	5.590	6.0	2	6.962	5.275	1.537	Open Manhole	1200
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PIPELINE SCHEDULES for NEW FULL STORM NETWORK 1.SWS									
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)	
1.005	o	225	2	6.962	5.200	1.537	Open Manhole		1200
16.000	o	100	553	7.100	6.500	0.500	Open Manhole		1050
16.001	o	100	554	7.100	6.450	0.550	Open Manhole		1050
17.000	o	100	563	7.000	6.400	0.500	Open Manhole		1050
17.001	o	100	564	7.000	6.350	0.550	Open Manhole		1050
16.002	o	100	555	7.000	6.253	0.647	Open Manhole		1050
18.000	o	100	565	6.900	6.300	0.500	Open Manhole		1050
18.001	o	100	566	6.900	6.250	0.550	Open Manhole		1050
16.003	o	100	556	6.900	6.064	0.736	Open Manhole		1050
19.000	o	100	567	6.650	6.050	0.500	Open Manhole		1050
19.001	o	100	568	6.650	6.000	0.550	Open Manhole		1050
16.004	o	100	557	6.650	5.874	0.676	Open Manhole		1050
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)	
1.005	64.849	112.8	3	6.035	4.625	1.185	Open Manhole		1050
16.000	5.000	100.0	554	7.100	6.450	0.550	Open Manhole		1050
16.001	9.205	46.8	555	7.000	6.253	0.647	Open Manhole		1050
17.000	5.000	100.0	564	7.000	6.350	0.550	Open Manhole		1050
17.001	5.000	51.7	555	7.000	6.253	0.647	Open Manhole		1050
16.002	8.839	46.8	556	6.900	6.064	0.736	Open Manhole		1050
18.000	5.000	100.0	566	6.900	6.250	0.550	Open Manhole		1050
18.001	5.000	26.9	556	6.900	6.064	0.736	Open Manhole		1050
16.003	8.831	46.4	557	6.650	5.874	0.676	Open Manhole		1050
19.000	5.000	100.0	568	6.650	6.000	0.550	Open Manhole		1050
19.001	5.000	39.7	557	6.650	5.874	0.676	Open Manhole		1050
16.004	11.513	36.1	558	6.500	5.555	0.845	Open Manhole		1050
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Upstream Manhole									
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W
20.000	o	100	569	6.500	5.900	0.500	Open Manhole		1050
20.001	o	100	570	6.500	5.850	0.550	Open Manhole		1050
16.005	o	100	558	6.500	5.555	0.845	Open Manhole		1050
21.000	o	100	571	6.300	5.700	0.500	Open Manhole		1050
21.001	o	100	572	6.300	5.650	0.550	Open Manhole		1050
16.006	o	150	559	6.300	5.261	0.889	Open Manhole		1050
22.000	o	100	574	6.500	5.900	0.500	Open Manhole		1050
22.001	o	100	575	6.500	5.850	0.550	Open Manhole		1050
22.002	o	100	576	6.350	5.750	0.500	Open Manhole		1050
23.000	o	100	581	6.350	5.750	0.500	Open Manhole		1050
23.001	o	100	582	6.350	5.700	0.550	Open Manhole		1050
22.003	o	150	577	6.362	5.550	0.662	Open Manhole		1050
22.004	o	150	578	6.221	5.400	0.671	Open Manhole		1050
22.005	o	150	579	6.196	5.350	0.696	Open Manhole		1050
Downstream Manhole									
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W
20.000	5.000	100.0	570	6.500	5.850	0.550	Open Manhole		1050
20.001	5.000	16.9	558	6.500	5.555	0.845	Open Manhole		1050
16.005	11.420	46.8	559	6.300	5.311	0.889	Open Manhole		1050
21.000	5.000	100.0	572	6.300	5.650	0.550	Open Manhole		1050
21.001	5.000	14.7	559	6.300	5.311	0.889	Open Manhole		1050
16.006	5.326	87.3	560	6.200	5.200	0.850	Open Manhole		1050
22.000	5.000	100.0	575	6.500	5.850	0.550	Open Manhole		1050
22.001	9.508	95.1	576	6.350	5.750	0.500	Open Manhole		1050
22.002	16.163	107.8	577	6.362	5.600	0.662	Open Manhole		1050
23.000	5.000	100.0	582	6.350	5.700	0.550	Open Manhole		1050
23.001	7.768	77.7	577	6.362	5.600	0.662	Open Manhole		1050
22.003	15.043	100.3	578	6.221	5.400	0.671	Open Manhole		1050
22.004	3.944	78.9	579	6.196	5.350	0.696	Open Manhole		1050
22.005	13.472	89.8	560	6.200	5.200	0.850	Open Manhole		1050
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Upstream Manhole									
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W
16.007	o	150	560	6.200	5.200	0.850	Open Manhole		1050
24.000	o	100	583	6.200	5.600	0.500	Open Manhole		1050
24.001	o	100	584	6.200	5.550	0.550	Open Manhole		1050
16.008	o	225	561	6.200	5.079	0.896	Open Manhole		1050
16.009	o	225	562	6.150	5.025	0.900	Open Manhole		1050
25.000	o	100	585	6.200	5.600	0.500	Open Manhole		1050
26.000	o	100	589	6.200	5.600	0.500	Open Manhole		1050
25.001	o	100	586	6.150	5.400	0.650	Open Manhole		1050
27.000	o	100	590	6.300	5.700	0.500	Open Manhole		1050
27.001	o	100	591	6.300	5.650	0.550	Open Manhole		1050
25.002	o	100	587	6.064	5.200	0.764	Open Manhole		1050
28.000	o	100	592	5.950	5.350	0.500	Open Manhole		1050
28.001	o	100	593	5.950	5.300	0.550	Open Manhole		1050
Downstream Manhole									
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W
16.007	3.474	75.5	561	6.200	5.154	0.896	Open Manhole		1050
24.000	5.000	100.0	584	6.200	5.550	0.550	Open Manhole		1050
24.001	5.000	14.5	561	6.200	5.204	0.896	Open Manhole		1050
16.008	3.717	68.8	562	6.150	5.025	0.900	Open Manhole		1050
16.009	3.533	8.8	3	6.035	4.625	1.185	Open Manhole		1050
25.000	16.639	83.2	586	6.150	5.400	0.650	Open Manhole		1050
26.000	9.836	49.2	586	6.150	5.400	0.650	Open Manhole		1050
25.001	15.099	75.5	587	6.064	5.200	0.764	Open Manhole		1050
27.000	5.000	100.0	591	6.300	5.650	0.550	Open Manhole		1050
27.001	5.000	11.1	587	6.064	5.200	0.764	Open Manhole		1050
25.002	16.509	82.5	588	6.030	5.000	0.930	Open Manhole		1050
28.000	5.000	100.0	593	5.950	5.300	0.550	Open Manhole		1050
28.001	5.000	16.7	588	6.030	5.000	0.930	Open Manhole		1050
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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)
29.000	o	100	594	5.800	5.200	0.500	Open Manhole	1050
29.001	o	100	595	5.800	5.150	0.550	Open Manhole	1050
25.003	o	100	588	6.030	5.000	0.930	Open Manhole	1050
1.006	o	225	3	6.035	4.625	1.185	Open Manhole	1050
30.000	o	100	597	6.100	5.500	0.500	Open Manhole	1050
30.001	o	100	598	6.100	5.450	0.550	Open Manhole	1050
31.000	o	100	601	6.000	5.400	0.500	Open Manhole	1050
31.001	o	100	602	6.000	5.350	0.550	Open Manhole	1050
30.002	o	100	599	6.091	5.310	0.681	Open Manhole	1050
30.003	o	100	600	6.090	5.250	0.740	Open Manhole	1050
1.007	o	300	505	5.771	4.227	1.244	Open Manhole	1050
32.000	o	100	604	5.800	5.200	0.500	Open Manhole	1050
32.001	o	100	605	5.800	5.150	0.550	Open Manhole	1050
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)
29.000	5.000	100.0	595	5.800	5.150	0.550	Open Manhole	1050
29.001	5.000	33.3	588	6.030	5.000	0.930	Open Manhole	1050
25.003	8.005	32.0	3	6.035	4.750	1.185	Open Manhole	1050
1.006	18.495	57.2	505	5.771	4.302	1.244	Open Manhole	1050
30.000	5.000	100.0	598	6.100	5.450	0.550	Open Manhole	1050
30.001	9.056	64.9	599	6.091	5.310	0.681	Open Manhole	1050
31.000	5.000	100.0	602	6.000	5.350	0.550	Open Manhole	1050
31.001	5.000	125.0	599	6.091	5.310	0.681	Open Manhole	1050
30.002	3.916	65.3	600	6.090	5.250	0.740	Open Manhole	1050
30.003	3.179	3.9	505	5.771	4.427	1.244	Open Manhole	1050
1.007	5.742	74.6	4	5.771	4.150	1.321	Open Manhole	1050
32.000	4.128	82.6	605	5.800	5.150	0.550	Open Manhole	1050
32.001	3.219	4.0	4	5.771	4.350	1.321	Open Manhole	1050
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PIPELINE SCHEDULES for NEW FULL STORM NETWORK 1.SWS									
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)	
1.008	o	300	4	5.771	4.150	1.321	Open Manhole	1050	
1.009	o	300	5	5.623	3.966	1.357	Open Manhole	1050	
33.000	o	100	606	5.350	4.750	0.500	Open Manhole	1050	
33.001	o	100	607	5.350	4.700	0.550	Open Manhole	1050	
1.010	o	300	506	5.383	3.693	1.390	Open Manhole	1050	
34.000	o	100	608	5.300	4.700	0.500	Open Manhole	1050	
34.001	o	100	609	5.300	4.650	0.550	Open Manhole	1050	
1.011	o	300	507	5.254	3.648	1.306	Open Manhole	1050	
35.000	o	100	610	5.000	4.400	0.500	Open Manhole	1050	
35.001	o	100	611	5.000	4.350	0.550	Open Manhole	1050	
1.012	o	300	508	5.052	3.578	1.174	Open Manhole	1050	
36.000	o	100	612	5.200	4.600	0.500	Open Manhole	1050	
36.001	o	100	613	5.050	4.350	0.600	Open Manhole	1050	
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)	
1.008	7.556	41.1	5	5.623	3.966	1.357	Open Manhole	1050	
1.009	16.800	61.5	506	5.383	3.693	1.390	Open Manhole	1050	
33.000	5.000	100.0	607	5.350	4.700	0.550	Open Manhole	1050	
33.001	5.000	6.2	506	5.383	3.893	1.390	Open Manhole	1050	
1.010	9.042	200.9	507	5.254	3.648	1.306	Open Manhole	1050	
34.000	5.000	100.0	609	5.300	4.650	0.550	Open Manhole	1050	
34.001	5.000	6.2	507	5.254	3.848	1.306	Open Manhole	1050	
1.011	14.113	201.6	508	5.052	3.578	1.174	Open Manhole	1050	
35.000	5.000	100.0	611	5.000	4.350	0.550	Open Manhole	1050	
35.001	5.000	8.7	508	5.052	3.778	1.174	Open Manhole	1050	
1.012	13.070	207.5	7	4.940	3.515	1.125	Open Manhole	1350	
36.000	20.234	80.9	613	5.050	4.350	0.600	Open Manhole	1050	
36.001	17.896	89.5	614	5.695	4.150	1.445	Open Manhole	1050	
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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)	
37.000	o	100	618	5.050	4.450	0.500	Open Manhole		1050
37.001	o	100	619	5.050	4.400	0.550	Open Manhole		1050
38.000	o	100	620	5.000	4.400	0.500	Open Manhole		1050
38.001	o	100	621	5.000	4.350	0.550	Open Manhole		1050
36.002	o	100	614	5.695	4.150	1.445	Open Manhole		1050
39.000	o	100	622	5.100	4.500	0.500	Open Manhole		1050
39.001	o	100	623	5.100	4.450	0.550	Open Manhole		1050
36.003	o	100	615	5.734	4.000	1.634	Open Manhole		1200
36.004	o	150	6	5.263	3.850	1.263	Open Manhole		1050
40.000	o	100	624	5.650	4.800	0.750	Open Manhole		1050
40.001	o	100	625	5.855	4.550	1.205	Open Manhole		1050
41.000	o	100	627	5.200	4.600	0.500	Open Manhole		1050
41.001	o	100	628	5.200	4.550	0.550	Open Manhole		1050
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)	
37.000	5.000	100.0	619	5.050	4.400	0.550	Open Manhole		1050
37.001	5.000	20.0	614	5.695	4.150	1.445	Open Manhole		1050
38.000	5.000	100.0	621	5.000	4.350	0.550	Open Manhole		1050
38.001	5.000	25.0	614	5.695	4.150	1.445	Open Manhole		1050
36.002	13.660	91.1	615	5.734	4.000	1.634	Open Manhole		1200
39.000	5.000	100.0	623	5.100	4.450	0.550	Open Manhole		1050
39.001	5.000	11.1	615	5.734	4.000	1.634	Open Manhole		1200
36.003	4.743	47.4	6	5.263	3.900	1.263	Open Manhole		1050
36.004	16.483	299.7	616	5.057	3.795	1.112	Open Manhole		1050
40.000	20.294	81.2	625	5.855	4.550	1.205	Open Manhole		1050
40.001	17.803	89.0	626	5.751	4.350	1.301	Open Manhole		1050
41.000	5.000	100.0	628	5.200	4.550	0.550	Open Manhole		1050
41.001	5.000	25.0	626	5.751	4.350	1.301	Open Manhole		1050
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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)	
40.002	o	100	626	5.751	4.350	1.301	Open Manhole	1050	
36.005	o	225	616	5.057	3.748	1.084	Open Manhole	1050	
42.000	o	100	629	4.850	4.250	0.500	Open Manhole	1050	
42.001	o	100	630	4.850	4.200	0.550	Open Manhole	1050	
36.006	o	225	617	4.875	3.658	0.992	Open Manhole	1050	
1.013	o	375	7	4.940	3.440	1.125	Open Manhole	1350	
43.000	o	100	631	4.550	3.950	0.500	Open Manhole	1050	
43.001	o	100	632	4.550	3.900	0.550	Open Manhole	1050	
1.014	o	375	509	4.508	3.358	0.775	Open Manhole	1350	
44.000	o	100	633	4.600	4.100	0.400	Open Manhole	1050	
44.001	o	100	634	4.600	3.990	0.510	Open Manhole	1050	
1.015	o	375	510	4.450	3.329	0.746	Open Manhole	1350	
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)	
40.002	3.902	8.2	616	5.057	3.873	1.084	Open Manhole	1050	
36.005	14.604	162.3	617	4.875	3.658	0.992	Open Manhole	1050	
42.000	5.000	100.0	630	4.850	4.200	0.550	Open Manhole	1050	
42.001	5.000	12.0	617	4.875	3.783	0.992	Open Manhole	1050	
36.006	11.027	162.2	7	4.940	3.590	1.125	Open Manhole	1350	
1.013	25.204	307.4	509	4.508	3.358	0.775	Open Manhole	1350	
43.000	5.000	100.0	632	4.550	3.900	0.550	Open Manhole	1050	
43.001	5.000	18.7	509	4.508	3.633	0.775	Open Manhole	1350	
1.014	9.087	313.3	510	4.450	3.329	0.746	Open Manhole	1350	
44.000	5.000	45.5	634	4.600	3.990	0.510	Open Manhole	1050	
44.001	5.000	13.0	510	4.450	3.604	0.746	Open Manhole	1350	
1.015	9.373	312.4	511	4.450	3.299	0.776	Open Manhole	1350	
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Upstream Manhole									
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W
45.000	o	100	635	4.600	3.800	0.700	Open Manhole		1050
45.001	o	100	636	4.500	3.750	0.650	Open Manhole		1050
1.016	o	375	511	4.450	3.299	0.776	Open Manhole		1350
46.000	o	100	637	4.500	3.900	0.500	Open Manhole		1050
46.001	o	100	638	4.500	3.850	0.550	Open Manhole		1050
1.017	o	375	512	4.450	3.283	0.792	Open Manhole		1350
47.000	o	100	639	4.600	3.850	0.650	Open Manhole		1050
47.001	o	100	640	4.600	3.800	0.700	Open Manhole		1050
1.018	o	375	513	4.502	3.267	0.860	Open Manhole		1350
48.000	o	100	642	5.650	5.050	0.500	Open Manhole		1050
48.001	o	100	643	5.650	5.000	0.550	Open Manhole		1050
49.000	o	100	648	5.350	4.750	0.500	Open Manhole		1050
48.002	o	100	644	5.350	4.700	0.550	Open Manhole		1050
Downstream Manhole									
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W
45.000	5.000	100.0	636	4.500	3.750	0.650	Open Manhole		1050
45.001	5.000	28.4	511	4.450	3.574	0.776	Open Manhole		1350
1.016	4.977	311.1	512	4.450	3.283	0.792	Open Manhole		1350
46.000	5.000	100.0	638	4.500	3.850	0.550	Open Manhole		1050
46.001	5.000	17.1	512	4.450	3.558	0.792	Open Manhole		1350
1.017	4.784	299.0	513	4.502	3.267	0.860	Open Manhole		1350
47.000	5.000	100.0	640	4.600	3.800	0.700	Open Manhole		1050
47.001	5.000	19.4	513	4.502	3.542	0.860	Open Manhole		1350
1.018	8.306	307.6	8	4.781	3.240	1.166	Open Manhole		1350
48.000	5.000	100.0	643	5.650	5.000	0.550	Open Manhole		1050
48.001	8.853	29.5	644	5.350	4.700	0.550	Open Manhole		1050
49.000	5.000	100.0	644	5.350	4.700	0.550	Open Manhole		1050
48.002	31.132	62.3	645	4.567	4.200	0.267	Open Manhole		1050
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PIPELINE SCHEDULES for NEW FULL STORM NETWORK 1.SWS

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)
50.000	o	100	649	5.400	4.750	0.550	Open Manhole	1050
50.001	o	100	650	5.100	4.500	0.500	Open Manhole	1050
50.002	o	100	651	5.300	4.300	0.900	Open Manhole	1050
51.000	o	100	652	5.200	4.500	0.600	Open Manhole	1050
51.001	o	100	653	5.200	4.450	0.650	Open Manhole	1050
48.003	o	150	645	4.567	4.150	0.267	Open Manhole	1050
48.004	o	150	646	4.479	3.950	0.379	Open Manhole	1050
1.019	o	375	8	4.781	3.240	1.166	Open Manhole	1350

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)
50.000	23.770	95.1	650	5.100	4.500	0.500	Open Manhole	1050
50.001	15.717	78.6	651	5.300	4.300	0.900	Open Manhole	1050
50.002	5.781	57.8	645	4.567	4.200	0.267	Open Manhole	1050
51.000	5.000	100.0	653	5.200	4.450	0.650	Open Manhole	1050
51.001	5.000	20.0	645	4.567	4.200	0.267	Open Manhole	1050
48.003	17.992	90.0	646	4.479	3.950	0.379	Open Manhole	1050
48.004	6.795	14.0	8	4.781	3.465	1.166	Open Manhole	1350
1.019	6.135	11.4	9	4.875	2.700	1.800	Open Manhole	0

Free Flowing Outfall Details for NEW FULL STORM NETWORK 1.SWS

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.019	9	4.875	2.700	2.700	0	0

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Simulation Criteria for NEW FULL STORM NETWORK 1.SWS

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m³/ha Storage	2.000
Hot Start (mins)	0	Inlet Coeffiecient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1
Number of Input Hydrographs	0	Number of Storage Structures	43
Number of Online Controls	44	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.000	Storm Duration (mins)	30
Ratio R	0.350		

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<u>Online Controls for NEW FULL STORM NETWORK 1.SWS</u> <u>Orifice Manhole: 502, DS/PN: 1.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 5.850 <u>Orifice Manhole: 516, DS/PN: 2.001, Volume (m³): 1.0</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 5.850 <u>Orifice Manhole: 519, DS/PN: 3.001, Volume (m³): 0.9</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 6.000 <u>Orifice Manhole: 523, DS/PN: 4.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 6.500 <u>Orifice Manhole: 531, DS/PN: 7.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 6.550 <u>Orifice Manhole: 533, DS/PN: 8.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 6.550 <u>Orifice Manhole: 535, DS/PN: 9.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 6.550 <u>Orifice Manhole: 537, DS/PN: 10.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 6.550 <u>Orifice Manhole: 541, DS/PN: 12.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 6.681 <u>Orifice Manhole: 547, DS/PN: 13.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 6.650 <u>Orifice Manhole: 549, DS/PN: 14.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 6.650		
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<u>Orifice Manhole: 551, DS/PN: 15.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 6.350 <u>Orifice Manhole: 554, DS/PN: 16.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 6.450 <u>Orifice Manhole: 564, DS/PN: 17.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 6.350 <u>Orifice Manhole: 566, DS/PN: 18.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 6.250 <u>Orifice Manhole: 568, DS/PN: 19.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 6.000 <u>Orifice Manhole: 570, DS/PN: 20.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 5.850 <u>Orifice Manhole: 572, DS/PN: 21.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 5.650 <u>Orifice Manhole: 575, DS/PN: 22.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 5.850 <u>Orifice Manhole: 582, DS/PN: 23.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 5.700 <u>Orifice Manhole: 584, DS/PN: 24.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 5.550 <u>Orifice Manhole: 591, DS/PN: 27.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 5.650 <u>Orifice Manhole: 593, DS/PN: 28.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 5.300		
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<u>Orifice Manhole: 595, DS/PN: 29.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 5.150 <u>Orifice Manhole: 598, DS/PN: 30.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 5.450 <u>Orifice Manhole: 602, DS/PN: 31.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 5.350 <u>Orifice Manhole: 605, DS/PN: 32.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 5.150 <u>Orifice Manhole: 607, DS/PN: 33.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 4.700 <u>Orifice Manhole: 609, DS/PN: 34.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 4.650 <u>Orifice Manhole: 611, DS/PN: 35.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 4.350 <u>Orifice Manhole: 619, DS/PN: 37.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 4.400 <u>Orifice Manhole: 621, DS/PN: 38.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 4.350 <u>Orifice Manhole: 623, DS/PN: 39.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 4.450 <u>Orifice Manhole: 628, DS/PN: 41.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 4.550 <u>Orifice Manhole: 630, DS/PN: 42.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 4.200		
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<u>Orifice Manhole: 632, DS/PN: 43.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 3.900 <u>Orifice Manhole: 634, DS/PN: 44.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 3.990 <u>Orifice Manhole: 636, DS/PN: 45.001, Volume (m³): 0.7</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 3.750 <u>Orifice Manhole: 638, DS/PN: 46.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 3.850 <u>Orifice Manhole: 640, DS/PN: 47.001, Volume (m³): 0.7</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 3.800 <u>Orifice Manhole: 643, DS/PN: 48.001, Volume (m³): 0.6</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 5.000 <u>Orifice Manhole: 644, DS/PN: 48.002, Volume (m³): 0.7</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 4.700 <u>Orifice Manhole: 653, DS/PN: 51.001, Volume (m³): 0.7</u> Diameter (m) 0.050 Discharge Coefficient 0.600 Invert Level (m) 4.450 <u>Hydro-Brake® Optimum Manhole: 8, DS/PN: 1.019, Volume (m³): 3.1</u> <table><tr><td>Unit Reference</td><td>MD-SHE-0371-8500-0850-8500</td></tr><tr><td>Design Head (m)</td><td>0.850</td></tr><tr><td>Design Flow (l/s)</td><td>85.0</td></tr><tr><td>Flush-Flo™</td><td>Calculated</td></tr><tr><td>Objective</td><td>Minimise upstream storage</td></tr><tr><td>Application</td><td>Surface</td></tr><tr><td>Sump Available</td><td>Yes</td></tr><tr><td>Diameter (mm)</td><td>371</td></tr><tr><td>Invert Level (m)</td><td>3.240</td></tr><tr><td>Minimum Outlet Pipe Diameter (mm)</td><td>450</td></tr><tr><td>Suggested Manhole Diameter (mm)</td><td>2100</td></tr></table> <table><tr><td>Control Points</td><td>Head (m)</td><td>Flow (l/s)</td></tr><tr><td>Design Point (Calculated)</td><td>0.850</td><td>85.0</td></tr><tr><td>Flush-Flo™</td><td>0.504</td><td>85.0</td></tr><tr><td>Kick-Flo®</td><td>0.742</td><td>79.6</td></tr></table>			Unit Reference	MD-SHE-0371-8500-0850-8500	Design Head (m)	0.850	Design Flow (l/s)	85.0	Flush-Flo™	Calculated	Objective	Minimise upstream storage	Application	Surface	Sump Available	Yes	Diameter (mm)	371	Invert Level (m)	3.240	Minimum Outlet Pipe Diameter (mm)	450	Suggested Manhole Diameter (mm)	2100	Control Points	Head (m)	Flow (l/s)	Design Point (Calculated)	0.850	85.0	Flush-Flo™	0.504	85.0	Kick-Flo®	0.742	79.6
Unit Reference	MD-SHE-0371-8500-0850-8500																																			
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Grange House	Littlehampton	
Bearsted Green Business Centre	West Sussex	
Bearsted, ME14 4DZ	1 in 100 year +30% Climate	
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XP Solutions	Network 2017.1.2	
<u>Storage Structures for NEW FULL STORM NETWORK 1.SWS</u>		
<u>Porous Car Park Manhole: 501, DS/PN: 1.000</u>		
Infiltration Coefficient Base (m/hr)	0.00000	Width (m) 3.0
Membrane Percolation (mm/hr)	1000	Length (m) 47.3
Max Percolation (l/s)	39.4	Slope (1:X) 50.0
Safety Factor	1.0	Depression Storage (mm) 5
Porosity	0.30	Evaporation (mm/day) 3
Invert Level (m)	5.900	Cap Volume Depth (m) 0.400
<u>Porous Car Park Manhole: 515, DS/PN: 2.000</u>		
Infiltration Coefficient Base (m/hr)	0.00000	Width (m) 3.0
Membrane Percolation (mm/hr)	1000	Length (m) 12.6
Max Percolation (l/s)	10.5	Slope (1:X) 100.0
Safety Factor	1.0	Depression Storage (mm) 5
Porosity	0.30	Evaporation (mm/day) 3
Invert Level (m)	5.900	Cap Volume Depth (m) 0.400
<u>Porous Car Park Manhole: 518, DS/PN: 3.000</u>		
Infiltration Coefficient Base (m/hr)	0.00000	Width (m) 3.0
Membrane Percolation (mm/hr)	1000	Length (m) 13.0
Max Percolation (l/s)	10.8	Slope (1:X) 100.0
Safety Factor	1.0	Depression Storage (mm) 5
Porosity	0.30	Evaporation (mm/day) 3
Invert Level (m)	6.050	Cap Volume Depth (m) 0.400
<u>Porous Car Park Manhole: 522, DS/PN: 4.000</u>		
Infiltration Coefficient Base (m/hr)	0.00000	Width (m) 3.0
Membrane Percolation (mm/hr)	1000	Length (m) 6.8
Max Percolation (l/s)	5.7	Slope (1:X) 100.0
Safety Factor	1.0	Depression Storage (mm) 5
Porosity	0.30	Evaporation (mm/day) 3
Invert Level (m)	6.550	Cap Volume Depth (m) 0.400
<u>Porous Car Park Manhole: 530, DS/PN: 7.000</u>		
Infiltration Coefficient Base (m/hr)	0.00000	Width (m) 5.0
Membrane Percolation (mm/hr)	1000	Length (m) 7.5
Max Percolation (l/s)	10.4	Slope (1:X) 100.0
Safety Factor	1.0	Depression Storage (mm) 5
Porosity	0.30	Evaporation (mm/day) 3
Invert Level (m)	6.600	Cap Volume Depth (m) 0.400
<u>Porous Car Park Manhole: 532, DS/PN: 8.000</u>		
Infiltration Coefficient Base (m/hr)	0.00000	Max Percolation (l/s) 10.4
Membrane Percolation (mm/hr)	1000	Safety Factor 1.0
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<u>Porous Car Park Manhole: 532, DS/PN: 8.000</u> <table><tr><td>Porosity</td><td>0.30</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Invert Level (m)</td><td>6.600</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Width (m)</td><td>5.0</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Length (m)</td><td>7.5</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 534, DS/PN: 9.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>5.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>7.5</td></tr><tr><td>Max Percolation (l/s)</td><td>10.4</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>6.600</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 536, DS/PN: 10.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>5.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>10.0</td></tr><tr><td>Max Percolation (l/s)</td><td>13.9</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>6.600</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 540, DS/PN: 12.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>6.2</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>15.8</td></tr><tr><td>Max Percolation (l/s)</td><td>27.2</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>6.750</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 546, DS/PN: 13.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>3.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>16.2</td></tr><tr><td>Max Percolation (l/s)</td><td>13.5</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>6.700</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 548, DS/PN: 14.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>3.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>16.2</td></tr><tr><td>Max Percolation (l/s)</td><td>13.5</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>6.700</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table>			Porosity	0.30	Slope (1:X)	100.0	Invert Level (m)	6.600	Depression Storage (mm)	5	Width (m)	5.0	Evaporation (mm/day)	3	Length (m)	7.5	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.0	Membrane Percolation (mm/hr)	1000	Length (m)	7.5	Max Percolation (l/s)	10.4	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.600	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.0	Membrane Percolation (mm/hr)	1000	Length (m)	10.0	Max Percolation (l/s)	13.9	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.600	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	6.2	Membrane Percolation (mm/hr)	1000	Length (m)	15.8	Max Percolation (l/s)	27.2	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.750	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	16.2	Max Percolation (l/s)	13.5	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.700	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	16.2	Max Percolation (l/s)	13.5	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.700	Cap Volume Depth (m)	0.400
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(mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>6.500</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 563, DS/PN: 17.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>3.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>14.9</td></tr><tr><td>Max Percolation (l/s)</td><td>12.4</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>6.400</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 565, DS/PN: 18.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>3.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>14.9</td></tr><tr><td>Max Percolation (l/s)</td><td>12.4</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>6.300</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 567, DS/PN: 19.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>3.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>16.2</td></tr><tr><td>Max Percolation (l/s)</td><td>13.5</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>6.050</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 569, DS/PN: 20.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Invert Level (m)</td><td>5.900</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Width (m)</td><td>3.0</td></tr><tr><td>Max Percolation (l/s)</td><td>13.5</td><td>Length (m)</td><td>16.2</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Porosity</td><td>0.30</td><td>Depression Storage (mm)</td><td>5</td></tr></table>			Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	16.2	Max Percolation (l/s)	13.5	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.400	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	14.9	Max Percolation (l/s)	12.4	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.500	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	14.9	Max Percolation (l/s)	12.4	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.400	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	14.9	Max Percolation (l/s)	12.4	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.300	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	16.2	Max Percolation (l/s)	13.5	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	6.050	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Invert Level (m)	5.900	Membrane Percolation (mm/hr)	1000	Width (m)	3.0	Max Percolation (l/s)	13.5	Length (m)	16.2	Safety Factor	1.0	Slope (1:X)	100.0	Porosity	0.30	Depression Storage (mm)	5
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<u>Porous Car Park Manhole: 569, DS/PN: 20.000</u> Evaporation (mm/day) 3 Cap Volume Depth (m) 0.400 <u>Porous Car Park Manhole: 571, DS/PN: 21.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>3.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>17.3</td></tr><tr><td>Max Percolation (l/s)</td><td>14.4</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.700</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 574, DS/PN: 22.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>3.1</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>41.9</td></tr><tr><td>Max Percolation (l/s)</td><td>36.1</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.900</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 581, DS/PN: 23.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>6.1</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>33.3</td></tr><tr><td>Max Percolation (l/s)</td><td>56.4</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.750</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 583, DS/PN: 24.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>3.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>18.3</td></tr><tr><td>Max Percolation (l/s)</td><td>15.3</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.600</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 590, DS/PN: 27.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>5.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>17.5</td></tr><tr><td>Max Percolation (l/s)</td><td>24.3</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.700</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table>			Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	17.3	Max Percolation (l/s)	14.4	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.700	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	3.1	Membrane Percolation (mm/hr)	1000	Length (m)	41.9	Max Percolation (l/s)	36.1	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.900	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	6.1	Membrane Percolation (mm/hr)	1000	Length (m)	33.3	Max Percolation (l/s)	56.4	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.750	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	18.3	Max Percolation (l/s)	15.3	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.600	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.0	Membrane Percolation (mm/hr)	1000	Length (m)	17.5	Max Percolation (l/s)	24.3	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.700	Cap Volume Depth (m)	0.400
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<u>Porous Car Park Manhole: 592, DS/PN: 28.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>5.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>15.0</td></tr><tr><td>Max Percolation (l/s)</td><td>20.8</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.350</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 594, DS/PN: 29.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>3.2</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>9.9</td></tr><tr><td>Max Percolation (l/s)</td><td>8.8</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.200</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 597, DS/PN: 30.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>3.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>17.3</td></tr><tr><td>Max Percolation (l/s)</td><td>14.4</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.500</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 601, DS/PN: 31.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>3.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>17.3</td></tr><tr><td>Max Percolation (l/s)</td><td>14.4</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.400</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 604, DS/PN: 32.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>3.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>16.2</td></tr><tr><td>Max Percolation (l/s)</td><td>13.5</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.200</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 606, DS/PN: 33.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Invert Level (m)</td><td>4.750</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Width (m)</td><td>6.1</td></tr><tr><td>Max Percolation (l/s)</td><td>22.7</td><td>Length (m)</td><td>13.4</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Porosity</td><td>0.30</td><td>Depression Storage (mm)</td><td>5</td></tr></table>			Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.0	Membrane Percolation (mm/hr)	1000	Length (m)	15.0	Max Percolation (l/s)	20.8	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.350	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	3.2	Membrane Percolation (mm/hr)	1000	Length (m)	9.9	Max Percolation (l/s)	8.8	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.200	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	17.3	Max Percolation (l/s)	14.4	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.500	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	17.3	Max Percolation (l/s)	14.4	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.400	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	16.2	Max Percolation (l/s)	13.5	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.200	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Invert Level (m)	4.750	Membrane Percolation (mm/hr)	1000	Width (m)	6.1	Max Percolation (l/s)	22.7	Length (m)	13.4	Safety Factor	1.0	Slope (1:X)	100.0	Porosity	0.30	Depression Storage (mm)	5
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Infiltration Coefficient Base (m/hr)	0.00000	Invert Level (m)	4.750																																																																																																																																											
Membrane Percolation (mm/hr)	1000	Width (m)	6.1																																																																																																																																											
Max Percolation (l/s)	22.7	Length (m)	13.4																																																																																																																																											
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Bellamy Wallace Partnership		Page 41
Grange House	Littlehampton	
Bearsted Green Business Centre	West Sussex	
Bearsted, ME14 4DZ	1 in 100 year +30% Climate	
Date 12/12/2017 09:24	Designed by Sean Young	
File FULL STORM NETWORK AK C...	Checked by	
XP Solutions	Network 2017.1.2	
 <u>Porous Car Park Manhole: 606, DS/PN: 33.000</u> Evaporation (mm/day) 3 Cap Volume Depth (m) 0.400 <u>Porous Car Park Manhole: 608, DS/PN: 34.000</u> Infiltration Coefficient Base (m/hr) 0.00000 Width (m) 3.0 Membrane Percolation (mm/hr) 1000 Length (m) 12.8 Max Percolation (l/s) 10.7 Slope (1:X) 100.0 Safety Factor 1.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 4.700 Cap Volume Depth (m) 0.400 <u>Porous Car Park Manhole: 610, DS/PN: 35.000</u> Infiltration Coefficient Base (m/hr) 0.00000 Width (m) 6.1 Membrane Percolation (mm/hr) 1000 Length (m) 13.4 Max Percolation (l/s) 22.7 Slope (1:X) 100.0 Safety Factor 1.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 4.400 Cap Volume Depth (m) 0.400 <u>Porous Car Park Manhole: 618, DS/PN: 37.000</u> Infiltration Coefficient Base (m/hr) 0.00000 Width (m) 3.1 Membrane Percolation (mm/hr) 1000 Length (m) 10.0 Max Percolation (l/s) 8.6 Slope (1:X) 100.0 Safety Factor 1.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 4.450 Cap Volume Depth (m) 0.400 <u>Porous Car Park Manhole: 620, DS/PN: 38.000</u> Infiltration Coefficient Base (m/hr) 0.00000 Width (m) 5.0 Membrane Percolation (mm/hr) 1000 Length (m) 12.5 Max Percolation (l/s) 17.4 Slope (1:X) 125.0 Safety Factor 1.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 4.400 Cap Volume Depth (m) 0.400 <u>Porous Car Park Manhole: 622, DS/PN: 39.000</u> Infiltration Coefficient Base (m/hr) 0.00000 Width (m) 5.0 Membrane Percolation (mm/hr) 1000 Length (m) 12.5 Max Percolation (l/s) 17.4 Slope (1:X) 125.0 Safety Factor 1.0 Depression Storage (mm) 5 Porosity 0.30 Evaporation (mm/day) 3 Invert Level (m) 4.500 Cap Volume Depth (m) 0.400		
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Grange House	Littlehampton																																																																																																																																													
Bearsted Green Business Centre	West Sussex																																																																																																																																													
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Date 12/12/2017 09:24	Designed by Sean Young																																																																																																																																													
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XP Solutions	Network 2017.1.2																																																																																																																																													
<u>Porous Car Park Manhole: 627, DS/PN: 41.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>5.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>26.1</td></tr><tr><td>Max Percolation (l/s)</td><td>36.3</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>4.600</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 629, DS/PN: 42.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>3.1</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>13.3</td></tr><tr><td>Max Percolation (l/s)</td><td>11.5</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>4.250</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 631, DS/PN: 43.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>3.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>12.8</td></tr><tr><td>Max Percolation (l/s)</td><td>10.7</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>3.750</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 633, DS/PN: 44.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>3.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>12.8</td></tr><tr><td>Max Percolation (l/s)</td><td>10.7</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>3.700</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 635, DS/PN: 45.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>3.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>12.6</td></tr><tr><td>Max Percolation (l/s)</td><td>10.5</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>3.800</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 637, DS/PN: 46.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Invert Level (m)</td><td>3.900</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Width (m)</td><td>6.2</td></tr><tr><td>Max Percolation (l/s)</td><td>20.3</td><td>Length (m)</td><td>11.8</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Porosity</td><td>0.30</td><td>Depression Storage (mm)</td><td>5</td></tr></table>			Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.0	Membrane Percolation (mm/hr)	1000	Length (m)	26.1	Max Percolation (l/s)	36.3	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	4.600	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	3.1	Membrane Percolation (mm/hr)	1000	Length (m)	13.3	Max Percolation (l/s)	11.5	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	4.250	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	12.8	Max Percolation (l/s)	10.7	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	3.750	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	12.8	Max Percolation (l/s)	10.7	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	3.700	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	12.6	Max Percolation (l/s)	10.5	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	3.800	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Invert Level (m)	3.900	Membrane Percolation (mm/hr)	1000	Width (m)	6.2	Max Percolation (l/s)	20.3	Length (m)	11.8	Safety Factor	1.0	Slope (1:X)	100.0	Porosity	0.30	Depression Storage (mm)	5
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<u>Porous Car Park Manhole: 637, DS/PN: 46.000</u> Evaporation (mm/day) 3 Cap Volume Depth (m) 0.400 <u>Porous Car Park Manhole: 639, DS/PN: 47.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>3.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>14.2</td></tr><tr><td>Max Percolation (l/s)</td><td>11.8</td><td>Slope (1:X)</td><td>50.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>3.850</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 642, DS/PN: 48.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>3.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>13.1</td></tr><tr><td>Max Percolation (l/s)</td><td>10.9</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>5.050</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 648, DS/PN: 49.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>3.1</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>13.2</td></tr><tr><td>Max Percolation (l/s)</td><td>11.4</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>4.750</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table> <u>Porous Car Park Manhole: 652, DS/PN: 51.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>5.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>30.0</td></tr><tr><td>Max Percolation (l/s)</td><td>41.7</td><td>Slope (1:X)</td><td>100.0</td></tr><tr><td>Safety Factor</td><td>1.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>4.500</td><td>Cap Volume Depth (m)</td><td>0.400</td></tr></table>			Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	14.2	Max Percolation (l/s)	11.8	Slope (1:X)	50.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	3.850	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	3.0	Membrane Percolation (mm/hr)	1000	Length (m)	13.1	Max Percolation (l/s)	10.9	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	5.050	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	3.1	Membrane Percolation (mm/hr)	1000	Length (m)	13.2	Max Percolation (l/s)	11.4	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	4.750	Cap Volume Depth (m)	0.400	Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	5.0	Membrane Percolation (mm/hr)	1000	Length (m)	30.0	Max Percolation (l/s)	41.7	Slope (1:X)	100.0	Safety Factor	1.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	4.500	Cap Volume Depth (m)	0.400
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<u>Summary of Critical Results by Maximum Level (Rank 1) for NEW FULL STORM NETWORK 1.SWS</u> <u>Simulation Criteria</u> Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000 Hot Start Level (mm) 0 Inlet Coefficient 0.800 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000 Foul Sewage per hectare (l/s) 0.000 Number of Input Hydrographs 0 Number of Storage Structures 43 Number of Online Controls 44 Number of Time/Area Diagrams 0 Number of Offline Controls 0 Number of Real Time Controls 0 <u>Synthetic Rainfall Details</u> Rainfall Model FSR Ratio R 0.350 Region England and Wales Cv (Summer) 0.750 M5-60 (mm) 19.700 Cv (Winter) 0.840 Margin for Flood Risk Warning (mm) 300.0 Analysis Timestep 2.5 Second Increment (Extended) DTS Status ON DVD Status ON Inertia Status ON Profile(s) Summer and Winter Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440 Return Period(s) (years) 1, 30, 100 Climate Change (%) 0, 0, 30																																																																																																																																																																																																									
<table><tr><th colspan="2">US/MH</th><th rowspan="2">Storm</th><th rowspan="2">Return Period</th><th rowspan="2">Climate Change</th><th rowspan="2">First (X) Surcharge</th><th rowspan="2">First (Y) Flood</th><th rowspan="2">First (Z) Overflow</th><th rowspan="2">Overflow Act.</th><th>Water Level</th></tr><tr><th>PN</th><th>Name</th><th>(m)</th></tr><tr><td>1.000</td><td>501</td><td>30 Winter</td><td>100</td><td>+30%</td><td>30/15 Summer</td><td></td><td></td><td></td><td>6.354</td></tr><tr><td>1.001</td><td>502</td><td>30 Winter</td><td>100</td><td>+30%</td><td>1/15 Summer</td><td></td><td></td><td></td><td>6.339</td></tr><tr><td>2.000</td><td>515</td><td>30 Winter</td><td>100</td><td>+30%</td><td>100/15 Summer</td><td></td><td></td><td></td><td>6.113</td></tr><tr><td>2.001</td><td>516</td><td>30 Winter</td><td>100</td><td>+30%</td><td>30/15 Summer</td><td></td><td></td><td></td><td>6.107</td></tr><tr><td>1.002</td><td>503</td><td>30 Winter</td><td>100</td><td>+30%</td><td>100/15 Summer</td><td></td><td></td><td></td><td>6.094</td></tr><tr><td>3.000</td><td>518</td><td>30 Winter</td><td>100</td><td>+30%</td><td>30/15 Summer</td><td></td><td></td><td></td><td>6.289</td></tr><tr><td>3.001</td><td>519</td><td>30 Winter</td><td>100</td><td>+30%</td><td>30/15 Summer</td><td></td><td></td><td></td><td>6.279</td></tr><tr><td>3.002</td><td>520</td><td>30 Winter</td><td>100</td><td>+30%</td><td>100/30 Winter</td><td></td><td></td><td></td><td>6.085</td></tr><tr><td>1.003</td><td>504</td><td>30 Winter</td><td>100</td><td>+30%</td><td>100/15 Summer</td><td></td><td></td><td></td><td>6.075</td></tr><tr><td>4.000</td><td>522</td><td>15 Winter</td><td>100</td><td>+30%</td><td></td><td></td><td></td><td></td><td>6.592</td></tr><tr><td>4.001</td><td>523</td><td>15 Winter</td><td>100</td><td>+30%</td><td></td><td></td><td></td><td></td><td>6.585</td></tr><tr><td>1.004</td><td>1</td><td>30 Winter</td><td>100</td><td>+30%</td><td>30/15 Summer</td><td></td><td></td><td></td><td>6.066</td></tr><tr><td>5.000</td><td>524</td><td>15 Winter</td><td>100</td><td>+30%</td><td>100/15 Winter</td><td></td><td></td><td></td><td>6.678</td></tr><tr><td>6.000</td><td>529</td><td>15 Winter</td><td>100</td><td>+30%</td><td></td><td></td><td></td><td></td><td>6.728</td></tr><tr><td>5.001</td><td>525</td><td>30 Winter</td><td>100</td><td>+30%</td><td>100/15 Summer</td><td></td><td></td><td></td><td>6.632</td></tr><tr><td>7.000</td><td>530</td><td>30 Winter</td><td>100</td><td>+30%</td><td>100/15 Winter</td><td></td><td></td><td></td><td>6.702</td></tr><tr><td>7.001</td><td>531</td><td>30 Winter</td><td>100</td><td>+30%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>6.693</td></tr><tr><td>8.000</td><td>532</td><td>15 Winter</td><td>100</td><td>+30%</td><td></td><td></td><td></td><td></td><td>6.689</td></tr></table>									US/MH		Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level	PN	Name	(m)	1.000	501	30 Winter	100	+30%	30/15 Summer				6.354	1.001	502	30 Winter	100	+30%	1/15 Summer				6.339	2.000	515	30 Winter	100	+30%	100/15 Summer				6.113	2.001	516	30 Winter	100	+30%	30/15 Summer				6.107	1.002	503	30 Winter	100	+30%	100/15 Summer				6.094	3.000	518	30 Winter	100	+30%	30/15 Summer				6.289	3.001	519	30 Winter	100	+30%	30/15 Summer				6.279	3.002	520	30 Winter	100	+30%	100/30 Winter				6.085	1.003	504	30 Winter	100	+30%	100/15 Summer				6.075	4.000	522	15 Winter	100	+30%					6.592	4.001	523	15 Winter	100	+30%					6.585	1.004	1	30 Winter	100	+30%	30/15 Summer				6.066	5.000	524	15 Winter	100	+30%	100/15 Winter				6.678	6.000	529	15 Winter	100	+30%					6.728	5.001	525	30 Winter	100	+30%	100/15 Summer				6.632	7.000	530	30 Winter	100	+30%	100/15 Winter				6.702	7.001	531	30 Winter	100	+30%	30/15 Winter				6.693	8.000	532	15 Winter	100	+30%					6.689
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PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
8.001	533 30	Winter	100	+30%	100/15 Summer				6.679
5.002	526 30	Winter	100	+30%	30/15 Summer				6.588
9.000	534 30	Winter	100	+30%	100/15 Summer				6.731
9.001	535 30	Winter	100	+30%	30/15 Summer				6.720
5.003	527 30	Winter	100	+30%	30/15 Summer				6.368
10.000	536 15	Winter	100	+30%					6.675
10.001	537 15	Winter	100	+30%	100/15 Summer				6.666
11.000	538 15	Winter	100	+30%					6.568
5.004	528 30	Winter	100	+30%	30/15 Summer				6.126
12.000	540 30	Winter	100	+30%	30/30 Winter				6.914
12.001	541 30	Winter	100	+30%	30/15 Summer				6.901
13.000	546 30	Winter	100	+30%	30/15 Summer				6.883
13.001	547 30	Winter	100	+30%	30/15 Summer				6.870
12.002	542 30	Winter	100	+30%					6.610
14.000	548 30	Winter	100	+30%	30/15 Summer				6.883
14.001	549 30	Winter	100	+30%	30/15 Summer				6.870
12.003	543 30	Winter	100	+30%	100/30 Winter				6.532
15.000	550 30	Winter	100	+30%	30/15 Summer				6.583
15.001	551 30	Winter	100	+30%	30/15 Summer				6.570
12.004	544 30	Winter	100	+30%					6.339
12.005	545 30	Winter	100	+30%					6.239
1.005	2 30	Winter	100	+30%	100/15 Summer				5.902
16.000	553 30	Winter	100	+30%	30/15 Summer				6.699
16.001	554 30	Winter	100	+30%	30/15 Summer				6.685
17.000	563 30	Winter	100	+30%	30/15 Winter				6.571
17.001	564 30	Winter	100	+30%	30/15 Summer				6.559
16.002	555 30	Winter	100	+30%					6.337
18.000	565 30	Winter	100	+30%	30/15 Winter				6.471
18.001	566 30	Winter	100	+30%	30/15 Summer				6.459
16.003	556 30	Winter	100	+30%	100/15 Winter				6.281
19.000	567 30	Winter	100	+30%	100/15 Summer				6.215
19.001	568 30	Winter	100	+30%	30/15 Summer				6.210
16.004	557 30	Winter	100	+30%	100/15 Summer				6.160
20.000	569 30	Winter	100	+30%	30/15 Summer				6.111
20.001	570 30	Winter	100	+30%	30/15 Summer				6.101
16.005	558 30	Winter	100	+30%	30/15 Summer				5.971
21.000	571 30	Winter	100	+30%	30/15 Summer				5.932
21.001	572 30	Winter	100	+30%	30/15 Summer				5.918
16.006	559 30	Winter	100	+30%	100/15 Summer				5.681
22.000	574 30	Winter	100	+30%	30/15 Summer				6.200
22.001	575 30	Winter	100	+30%	1/15 Winter				6.185
22.002	576 15	Winter	100	+30%	100/15 Summer				5.871
23.000	581 60	Winter	100	+30%	30/15 Summer				6.028
23.001	582 60	Winter	100	+30%	1/15 Winter				6.013
22.003	577 30	Winter	100	+30%	100/30 Winter				5.710
22.004	578 30	Winter	100	+30%	100/15 Winter				5.683
22.005	579 30	Winter	100	+30%	100/15 Winter				5.672
16.007	560 30	Winter	100	+30%	30/15 Summer				5.646
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Summary of Critical Results by Maximum Level (Rank 1) for NEW FULL STORM NETWORK 1.SWS								
PN	US/MH Name	Depth (m)	Surcharged Volume (m³)	Flooded Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
8.001	533	0.029	0.000	0.11		1.7	SURCHARGED	
5.002	526	0.388	0.000	1.18		6.9	SURCHARGED	
9.000	534	0.031	0.000	0.38		2.0	SURCHARGED	
9.001	535	0.070	0.000	0.10		2.0	SURCHARGED	
5.003	527	0.355	0.000	1.51		8.6	SURCHARGED	
10.000	536	-0.025	0.000	0.34		1.8	OK	
10.001	537	0.016	0.000	0.08		1.6	SURCHARGED	
11.000	538	-0.082	0.000	0.08		1.1	OK	
5.004	528	0.226	0.000	1.44		10.7	SURCHARGED	
12.000	540	0.064	0.000	0.37		2.3	SURCHARGED	
12.001	541	0.120	0.000	0.33		2.3	SURCHARGED	
13.000	546	0.083	0.000	0.44		2.3	SURCHARGED	
13.001	547	0.120	0.000	0.31		2.3	SURCHARGED	
12.002	542	-0.038	0.000	0.70		4.6	OK	
14.000	548	0.083	0.000	0.44		2.3	SURCHARGED	
14.001	549	0.120	0.000	0.20		2.3	SURCHARGED	
12.003	543	0.006	0.000	1.04		6.9	FLOOD RISK	
15.000	550	0.083	0.000	0.44		2.3	SURCHARGED	
15.001	551	0.120	0.000	0.42		2.3	SURCHARGED	
12.004	544	-0.058	0.000	0.69		9.2	OK	
12.005	545	-0.111	0.000	0.15		9.2	OK	
1.005	2	0.477	0.000	0.95		45.1	SURCHARGED	
16.000	553	0.099	0.000	0.46		2.4	SURCHARGED	
16.001	554	0.135	0.000	0.29		2.4	SURCHARGED	
17.000	563	0.071	0.000	0.43		2.3	SURCHARGED	
17.001	564	0.109	0.000	0.30		2.2	SURCHARGED	
16.002	555	-0.017	0.000	0.57		4.6	OK	
18.000	565	0.071	0.000	0.43		2.3	SURCHARGED	
18.001	566	0.109	0.000	0.22		2.3	SURCHARGED	
16.003	556	0.116	0.000	0.80		6.5	SURCHARGED	
19.000	567	0.065	0.000	0.42		2.2	SURCHARGED	
19.001	568	0.110	0.000	0.25		2.1	SURCHARGED	
16.004	557	0.186	0.000	0.82		7.8	SURCHARGED	
20.000	569	0.111	0.000	0.47		2.5	SURCHARGED	
20.001	570	0.151	0.000	0.19		2.4	SURCHARGED	
16.005	558	0.316	0.000	1.23		10.3	SURCHARGED	
21.000	571	0.132	0.000	0.50		2.6	SURCHARGED	
21.001	572	0.168	0.000	0.19		2.6	SURCHARGED	
16.006	559	0.270	0.000	0.83		12.9	SURCHARGED	
22.000	574	0.200	0.000	0.53		2.8	FLOOD RISK	
22.001	575	0.235	0.000	0.51		2.9	SURCHARGED	
22.002	576	0.021	0.000	1.07		6.0	SURCHARGED	
23.000	581	0.178	0.000	0.54		2.8	SURCHARGED	
23.001	582	0.213	0.000	0.45		2.8	SURCHARGED	
22.003	577	0.010	0.000	0.49		8.0	SURCHARGED	
22.004	578	0.133	0.000	0.60		8.4	SURCHARGED	
22.005	579	0.172	0.000	0.48		8.2	SURCHARGED	
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Summary of Critical Results by Maximum Level (Rank 1) for NEW FULL STORM NETWORK 1.SWS

PN	US/MH Name	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Pipe	Status	Level
		Depth (m)	Volume (m³)			Flow (l/s)		Exceeded
16.007	560	0.296	0.000	1.47		19.8	SURCHARGED	

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<u>Summary of Critical Results by Maximum Level (Rank 1) for NEW FULL STORM NETWORK 1.SWS</u>									
	US/MH		Return	Climate	First (X)	First (Y)	First (Z)	Overflow	Water
PN	Name	Storm	Period	Change	Surcharge	Flood	Overflow	Act.	Level
									(m)
24.000	583 30	Winter	100	+30%	30/15 Winter				5.770
24.001	584 30	Winter	100	+30%	30/15 Summer				5.757
16.008	561 30	Winter	100	+30%	100/15 Summer				5.568
16.009	562 30	Winter	100	+30%	100/15 Summer				5.521
25.000	585 15	Winter	100	+30%	100/15 Summer				5.861
26.000	589 30	Winter	100	+30%	100/15 Summer				5.851
25.001	586 30	Winter	100	+30%	30/15 Summer				5.838
27.000	590 30	Winter	100	+30%	100/15 Summer				5.861
27.001	591 30	Winter	100	+30%	30/15 Summer				5.851
25.002	587 30	Winter	100	+30%	30/15 Summer				5.739
28.000	592 60	Winter	100	+30%	100/15 Summer				5.515
28.001	593 30	Winter	100	+30%	30/15 Summer				5.513
29.000	594 60	Winter	100	+30%	100/15 Summer				5.457
29.001	595 60	Winter	100	+30%	100/15 Summer				5.457
25.003	588 30	Winter	100	+30%	30/15 Winter				5.542
1.006	3 30	Winter	100	+30%	30/15 Winter				5.511
30.000	597 30	Winter	100	+30%	30/15 Summer				5.682
30.001	598 30	Winter	100	+30%	30/15 Summer				5.669
31.000	601 30	Winter	100	+30%	30/15 Summer				5.592
31.001	602 30	Winter	100	+30%	30/15 Summer				5.579
30.002	599 30	Winter	100	+30%					5.372
30.003	600 30	Winter	100	+30%					5.278
1.007	505 30	Winter	100	+30%	30/15 Summer				5.209
32.000	604 30	Winter	100	+30%	30/15 Summer				5.463
32.001	605 30	Winter	100	+30%	1/15 Summer				5.450
1.008	4 30	Winter	100	+30%	30/15 Summer				5.114
1.009	5 30	Winter	100	+30%	30/15 Summer				4.968
33.000	606 30	Winter	100	+30%	30/15 Winter				4.927
33.001	607 30	Winter	100	+30%	30/15 Summer				4.917
1.010	506 30	Winter	100	+30%	30/15 Summer				4.803
34.000	608 30	Winter	100	+30%	30/15 Winter				4.877
34.001	609 30	Winter	100	+30%	30/15 Summer				4.866
1.011	507 30	Winter	100	+30%	30/15 Summer				4.716
35.000	610 60	Winter	100	+30%	30/15 Summer				4.658
35.001	611 60	Winter	100	+30%	30/15 Summer				4.652
1.012	508 30	Winter	100	+30%	30/15 Summer				4.621
36.000	612 15	Winter	100	+30%	100/15 Summer				4.942
36.001	613 30	Winter	100	+30%	30/15 Summer				4.837
37.000	618 30	Winter	100	+30%	30/15 Winter				4.728
37.001	619 30	Winter	100	+30%	30/15 Summer				4.722
38.000	620 60	Winter	100	+30%	100/15 Summer				4.595
38.001	621 60	Winter	100	+30%	100/15 Summer				4.593
36.002	614 30	Winter	100	+30%	30/15 Summer				4.703
39.000	622 30	Winter	100	+30%	100/15 Summer				4.675
39.001	623 30	Winter	100	+30%	30/15 Summer				4.670
36.003	615 30	Winter	100	+30%	30/15 Summer				4.679
36.004	6 30	Winter	100	+30%	30/15 Summer				4.672
40.000	624 15	Winter	100	+30%					4.884
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Summary of Critical Results by Maximum Level (Rank 1) for NEW FULL STORM NETWORK 1.SWS								
PN	US/MH Name	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
24.000	583	0.070	0.000	0.43		2.3	SURCHARGED	
24.001	584	0.107	0.000	0.16		2.3	SURCHARGED	
16.008	561	0.264	0.000	0.67		22.1	SURCHARGED	
16.009	562	0.271	0.000	0.26		22.7	SURCHARGED	
25.000	585	0.161	0.000	0.54		3.4	SURCHARGED	
26.000	589	0.151	0.000	0.35		2.8	SURCHARGED	
25.001	586	0.338	0.000	1.06		7.0	SURCHARGED	
27.000	590	0.061	0.000	0.41		2.2	SURCHARGED	
27.001	591	0.101	0.000	0.14		2.2	SURCHARGED	
25.002	587	0.439	0.000	1.20		7.6	SURCHARGED	
28.000	592	0.065	0.000	0.37		2.0	SURCHARGED	
28.001	593	0.113	0.000	0.16		2.1	SURCHARGED	
29.000	594	0.157	0.000	0.40		2.1	SURCHARGED	
29.001	595	0.207	0.000	0.25		2.3	SURCHARGED	
25.003	588	0.442	0.000	0.96		9.4	SURCHARGED	
1.006	3	0.661	0.000	1.08		67.0	SURCHARGED	
30.000	597	0.082	0.000	0.44		2.3	SURCHARGED	
30.001	598	0.119	0.000	0.33		2.3	SURCHARGED	
31.000	601	0.092	0.000	0.42		2.2	SURCHARGED	
31.001	602	0.129	0.000	0.46		2.2	SURCHARGED	
30.002	599	-0.038	0.000	0.70		4.5	OK	
30.003	600	-0.072	0.000	0.18		4.5	OK	
1.007	505	0.682	0.000	0.94		65.5	SURCHARGED	
32.000	604	0.163	0.000	0.49		2.8	SURCHARGED	
32.001	605	0.200	0.000	0.11		2.7	SURCHARGED	
1.008	4	0.665	0.000	0.63		67.7	SURCHARGED	
1.009	5	0.702	0.000	0.63		75.9	SURCHARGED	
33.000	606	0.077	0.000	0.43		2.3	SURCHARGED	
33.001	607	0.117	0.000	0.11		2.3	SURCHARGED	
1.010	506	0.810	0.000	1.25		74.8	SURCHARGED	
34.000	608	0.077	0.000	0.44		2.3	SURCHARGED	
34.001	609	0.116	0.000	0.10		2.2	SURCHARGED	
1.011	507	0.768	0.000	1.18		76.4	SURCHARGED	
35.000	610	0.158	0.000	0.46		2.4	SURCHARGED	
35.001	611	0.202	0.000	0.14		2.5	SURCHARGED	
1.012	508	0.743	0.000	1.21		76.1	SURCHARGED	
36.000	612	0.242	0.000	0.77		5.0	FLOOD RISK	
36.001	613	0.387	0.000	0.82		5.0	FLOOD RISK	
37.000	618	0.178	0.000	0.38		2.0	SURCHARGED	
37.001	619	0.222	0.000	0.16		1.9	SURCHARGED	
38.000	620	0.095	0.000	0.38		2.0	SURCHARGED	
38.001	621	0.143	0.000	0.20		2.1	SURCHARGED	
36.002	614	0.453	0.000	0.89		5.3	SURCHARGED	
39.000	622	0.075	0.000	0.37		1.9	SURCHARGED	
39.001	623	0.120	0.000	0.13		2.0	SURCHARGED	
36.003	615	0.579	0.000	1.02		7.8	SURCHARGED	
36.004	6	0.672	0.000	2.31		21.9	SURCHARGED	
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Summary of Critical Results by Maximum Level (Rank 1) for NEW FULL STORM NETWORK 1.SWS								
PN	US/MH Name	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
42.001	630	0.214	0.000	0.15		2.4	SURCHARGED	
36.006	617	0.667	0.000	0.71		24.6	SURCHARGED	
1.013	7	0.715	0.000	1.06		104.3	SURCHARGED	
43.000	631	0.416	0.000	0.44		2.3	FLOOD RISK	
43.001	632	0.462	0.000	0.20		2.5	FLOOD RISK	
1.014	509	0.712	0.000	1.25		99.1	FLOOD RISK	
44.000	633	0.235	0.000	0.21		1.7	FLOOD RISK	
44.001	634	0.341	0.000	0.13		1.9	FLOOD RISK	
1.015	510	0.703	0.000	1.18		94.2	FLOOD RISK	
45.000	635	0.462	0.000	0.56		3.0	FLOOD RISK	
45.001	636	0.508	0.000	0.32		3.2	FLOOD RISK	
1.016	511	0.696	0.000	1.18		90.3	FLOOD RISK	
46.000	637	0.332	0.000	0.58		3.0	FLOOD RISK	
46.001	638	0.377	0.000	0.25		3.2	FLOOD RISK	
1.017	512	0.686	0.000	1.14		88.0	FLOOD RISK	
47.000	639	0.332	0.000	0.54		2.9	SURCHARGED	
47.001	640	0.380	0.000	0.25		3.0	SURCHARGED	
1.018	513	0.677	0.000	1.09		85.7	FLOOD RISK	
48.000	642	0.075	0.000	0.44		2.3	SURCHARGED	
48.001	643	0.112	0.000	0.22		2.3	SURCHARGED	
49.000	648	0.181	0.000	0.41		2.2	SURCHARGED	
48.002	644	0.226	0.000	0.38		2.9	SURCHARGED	
50.000	649	0.018	0.000	1.00		6.0	SURCHARGED	
50.001	650	0.016	0.000	1.05		6.8	SURCHARGED	
50.002	651	-0.022	0.000	0.96		6.8	OK	
51.000	652	0.164	0.000	0.52		2.7	SURCHARGED	
51.001	653	0.199	0.000	0.23		2.7	SURCHARGED	
48.003	645	0.056	0.000	0.64		11.2	FLOOD RISK	
48.004	646	0.210	0.000	0.25		10.3	FLOOD RISK	
1.019	8	0.673	0.000	0.33		94.0	SURCHARGED	
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