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Victoria Court 22 St Pancras West Sussex PO19 7GD	34 Hurst Road. Hassocks Surface Water Drainage Design Simulation Rev03	
Date Nov 25	Designed by JS	
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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

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)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm)
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.700	0.600	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

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)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.700	63.100	0.490	Open Manhole	600

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)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.700	63.240	0.350	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
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1.004	Dummy	63.800	63.085	63.100	600	0
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Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m ³ /ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	60
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	1

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	15
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m) Flow (l/s)

0.700 0.0400

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Storage Structures for Storm

cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	30.0	30.0	0.500	0.0	43.6
0.400	30.0	43.6			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 7.7
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 15 minute 100 year Winter (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

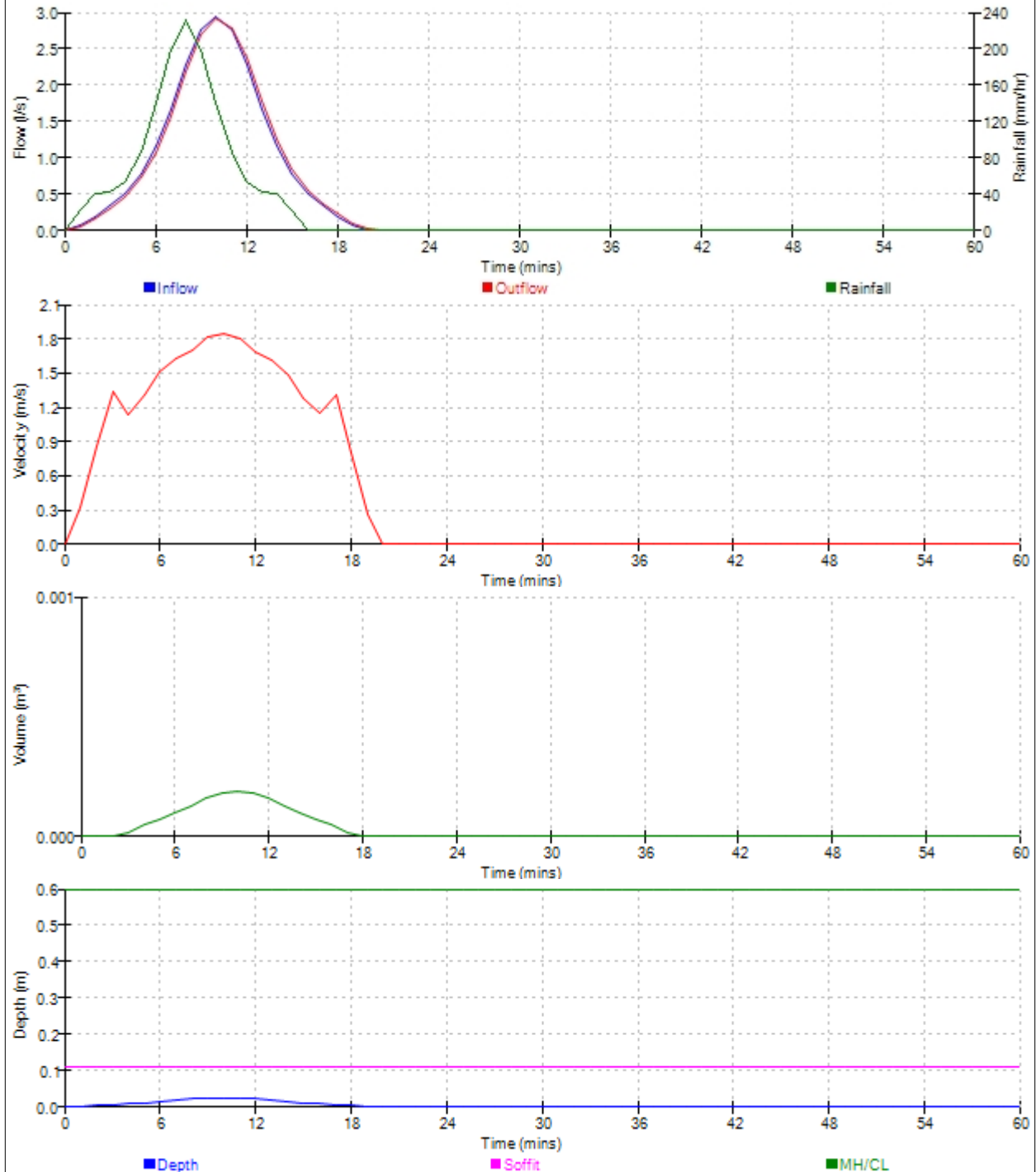
PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.425	-0.085	0.000	0.11	0.0	2.9	OK
1.001	S1	63.672	0.068	0.000	0.88	0.0	5.9	SURCHARGED
2.000	RE2	65.427	-0.083	0.000	0.14	0.0	2.9	OK
2.001	S2	65.034	-0.076	0.000	0.20	0.0	6.0	OK
1.002	S3	63.631	0.077	0.000	1.64	0.0	11.7	SURCHARGED
1.003	S4	63.433	0.073	0.000	0.05	0.0	0.3	SURCHARGED
1.004	RAIN GARDEN	63.263	0.053	0.000	0.00	0.0	0.0	SURCHARGED

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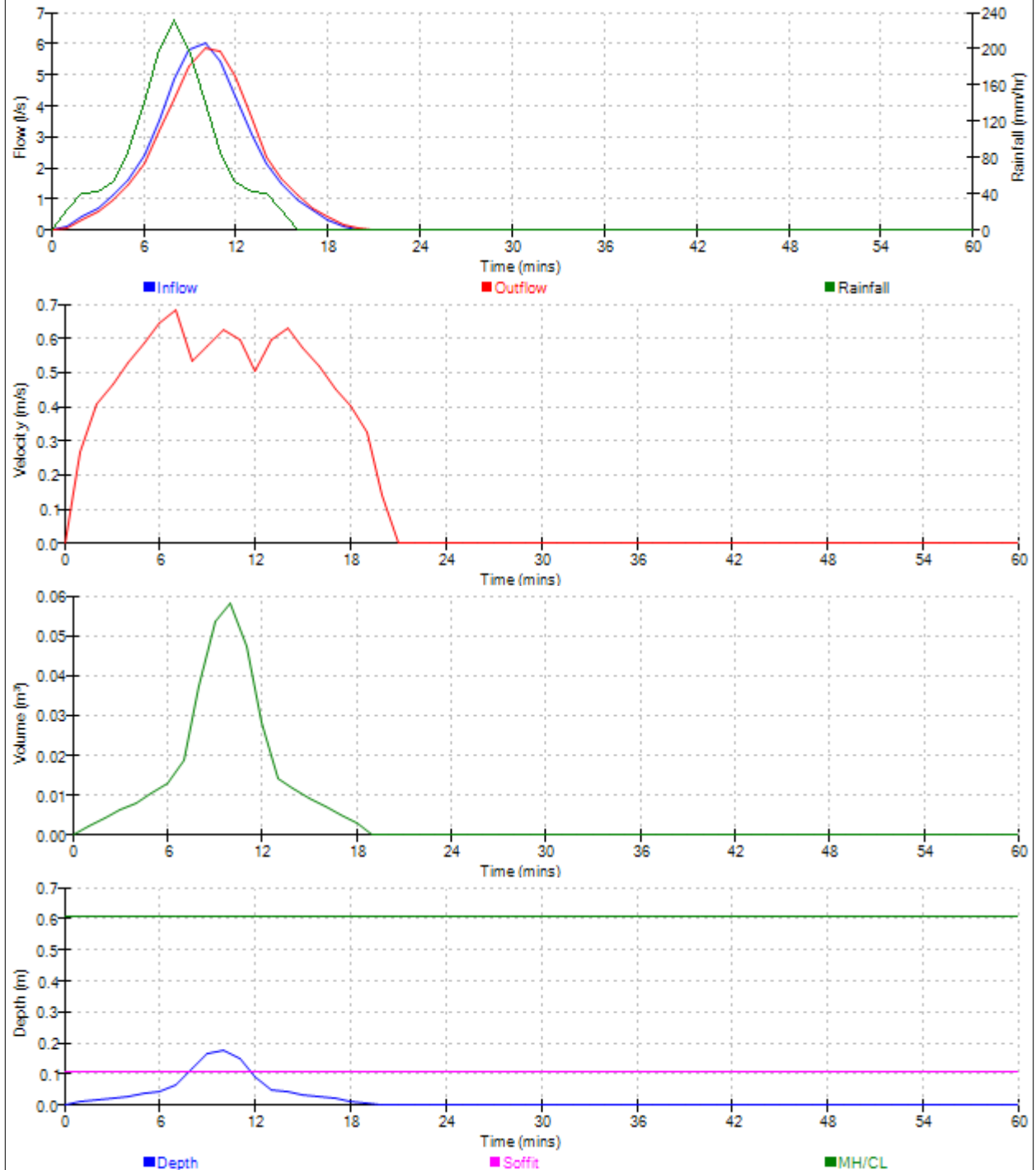
Rainfall Hyetograph for 15 minute 100 year Winter (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
1	22.264	4	53.565	7	199.657	10	140.280	13	42.314
2	40.627	5	86.703	8	231.917	11	86.703	14	40.627
3	42.314	6	140.280	9	199.657	12	53.565	15	22.263

Graphs for Pipe 1.000 US/MH RE1 (Storm)
15 minute 100 year winter
Status: OK

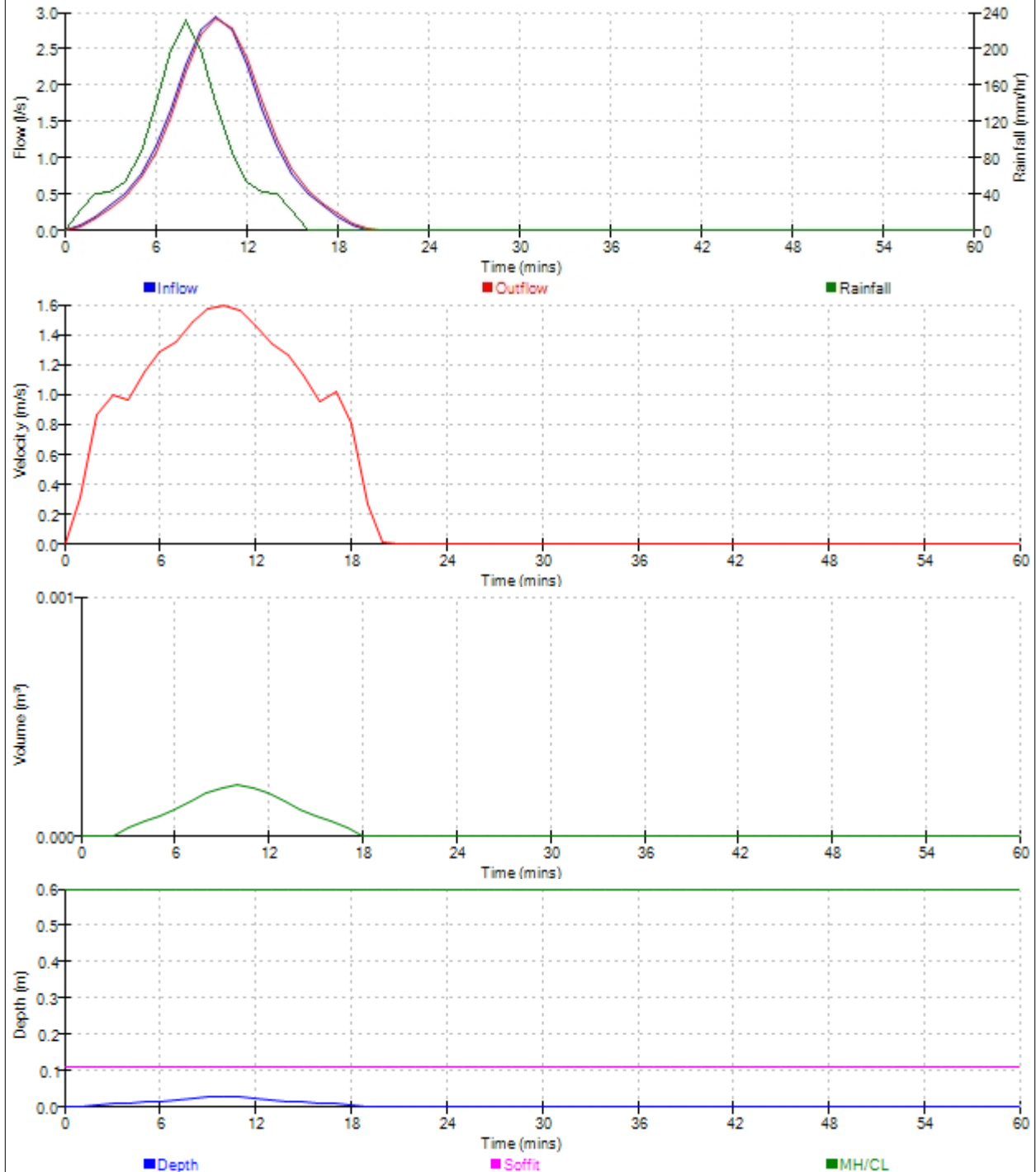


Graphs for Pipe 1.001 US/MH S1 (Storm)
15 minute 100 year winter
Status: SURCHARGED

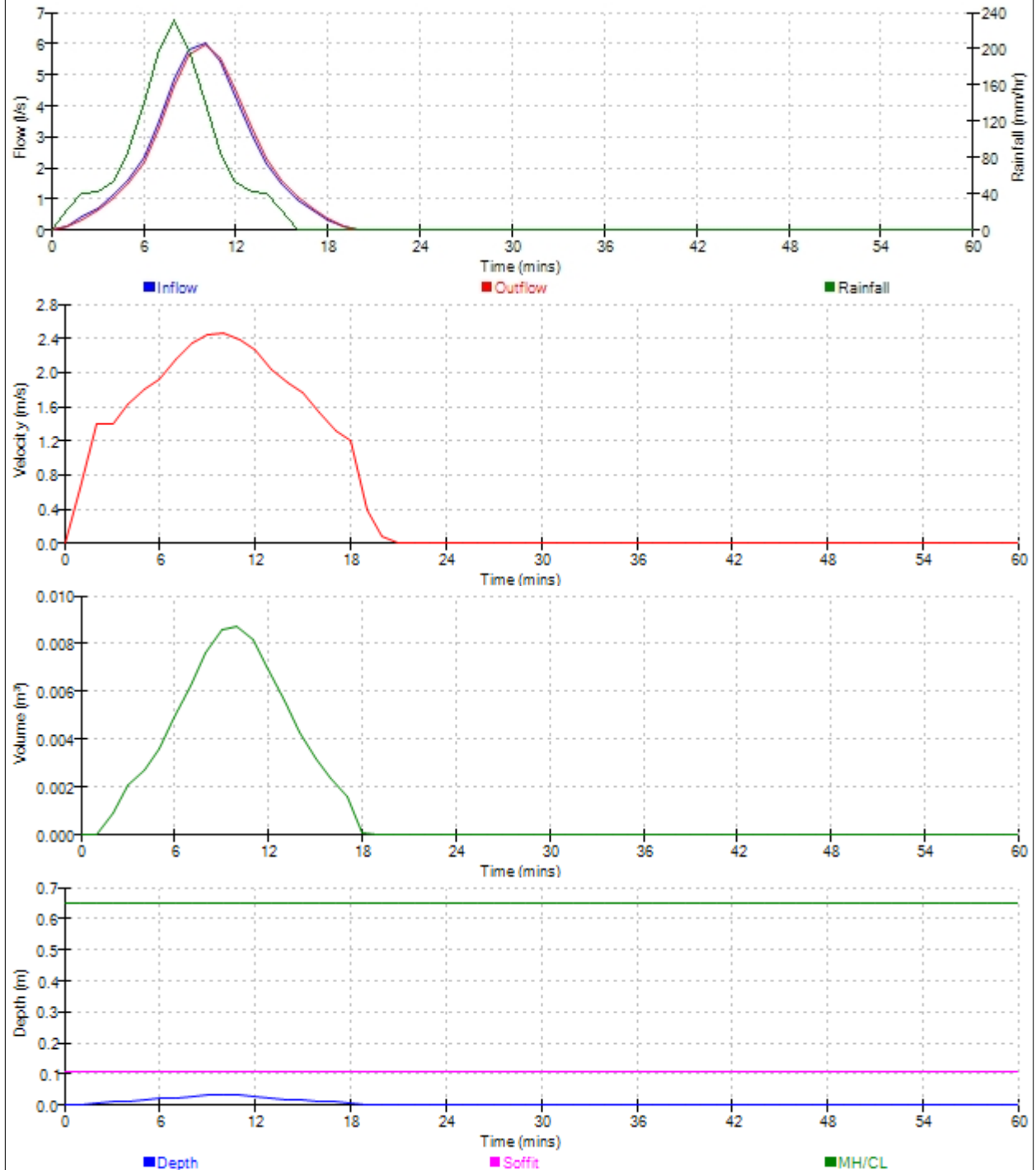


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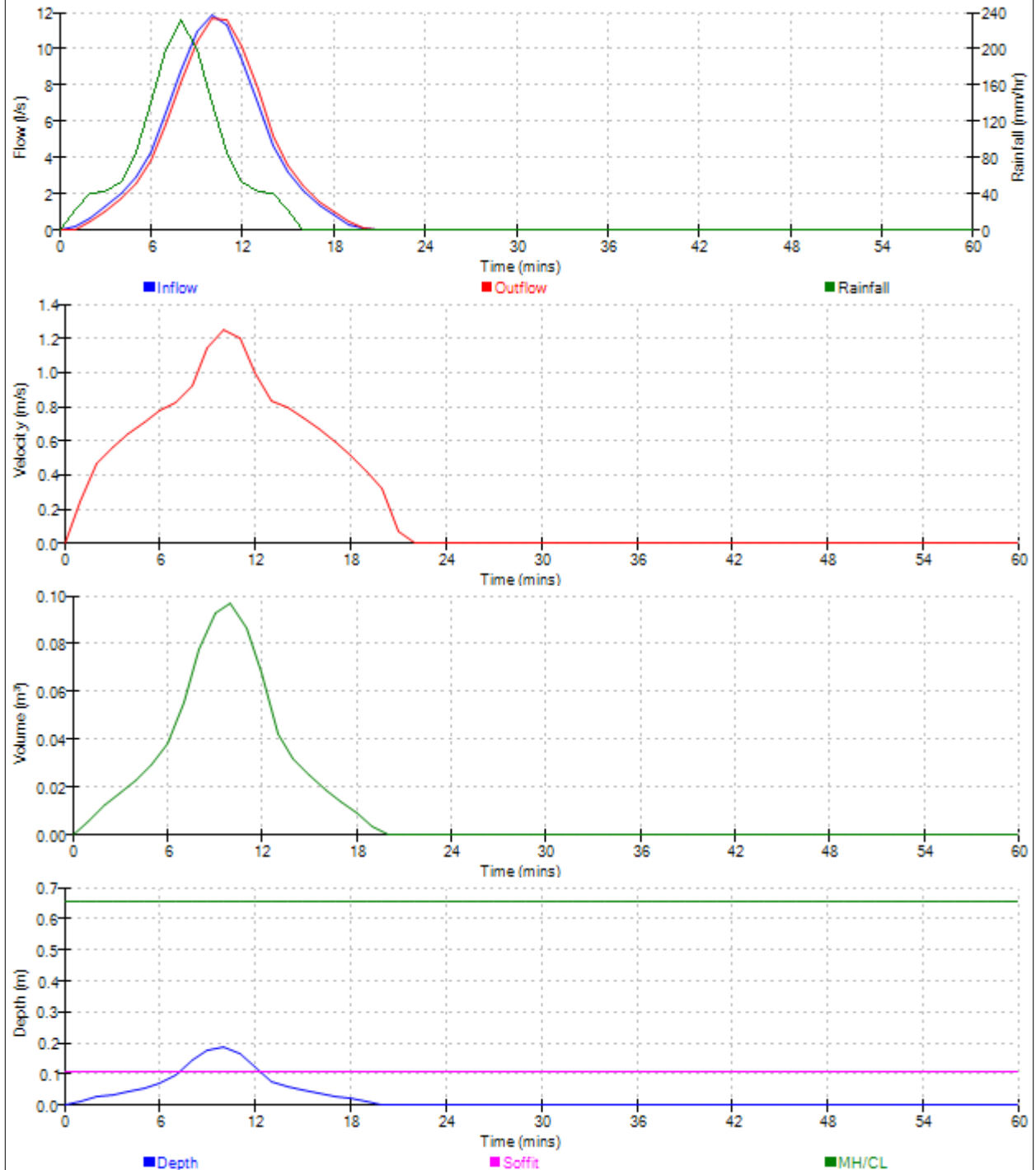
Graphs for Pipe 2.000 US/MH RE2 (Storm)
15 minute 100 year winter
Status: OK



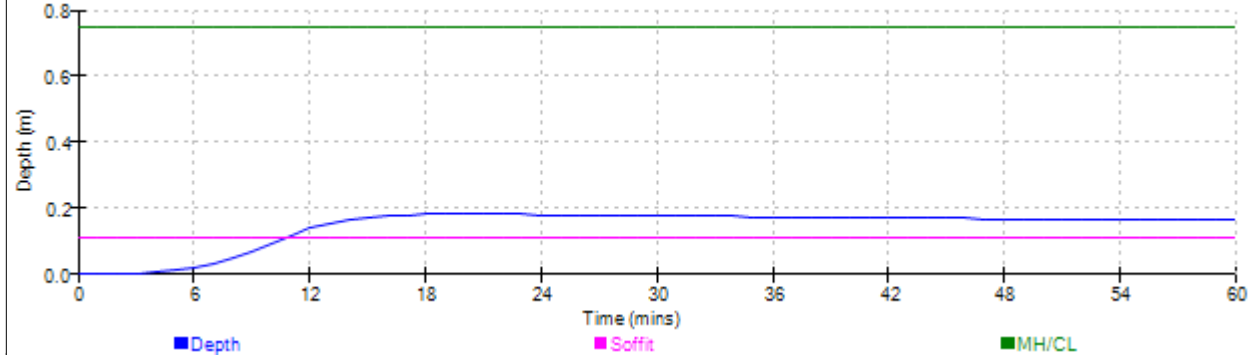
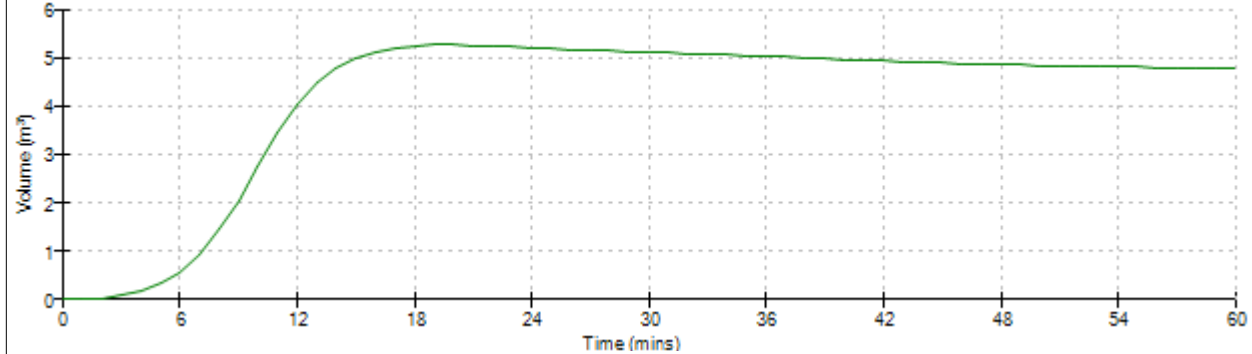
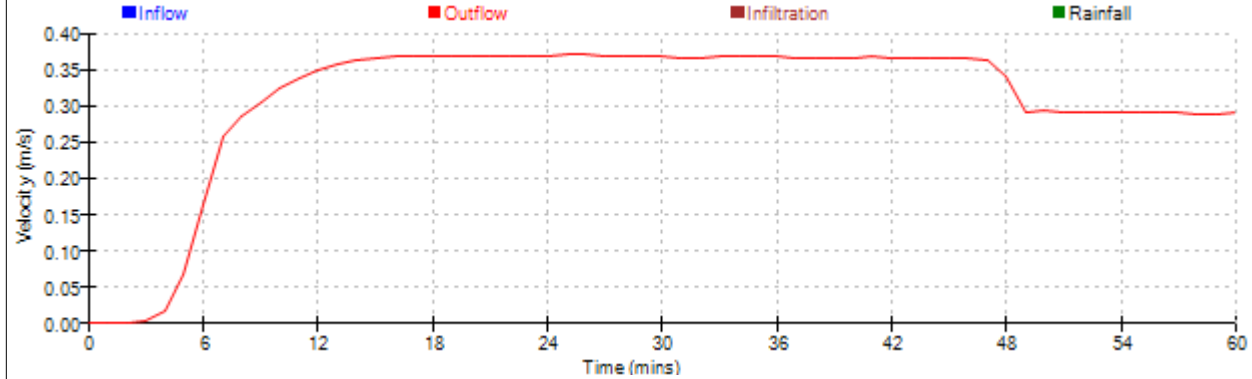
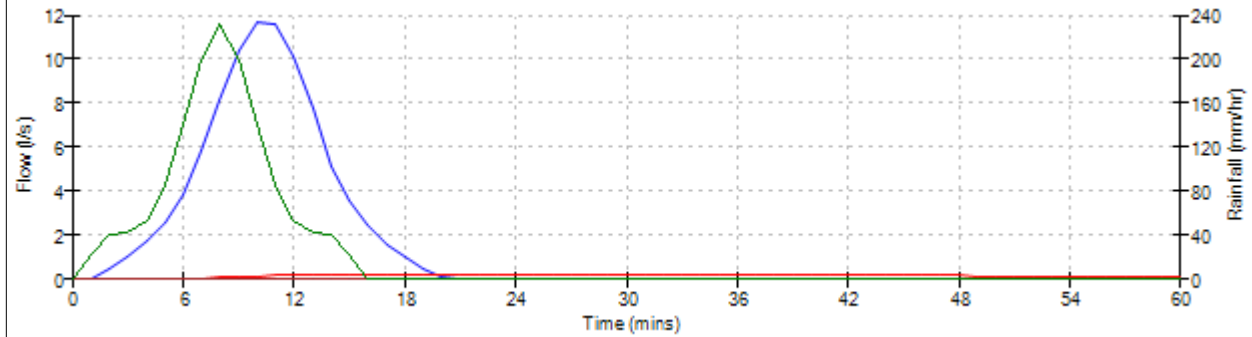
Graphs for Pipe 2.001 US/MH S2 (Storm)
 15 minute 100 year winter
 Status: OK



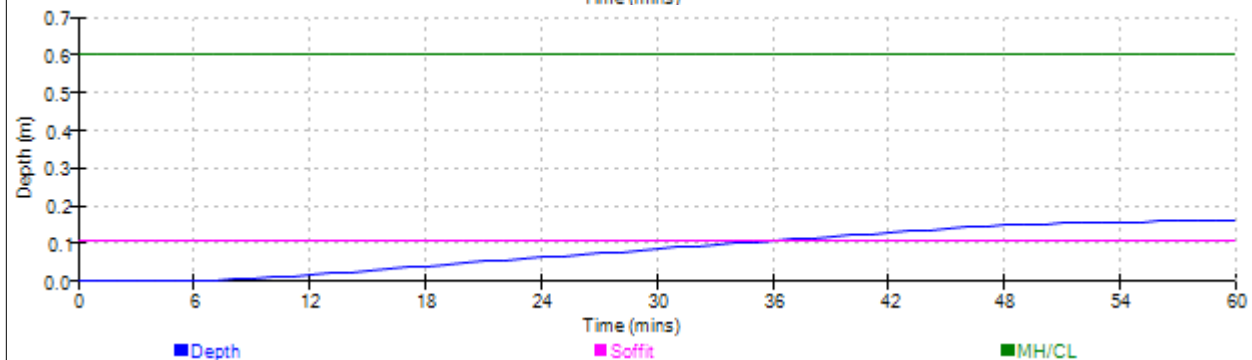
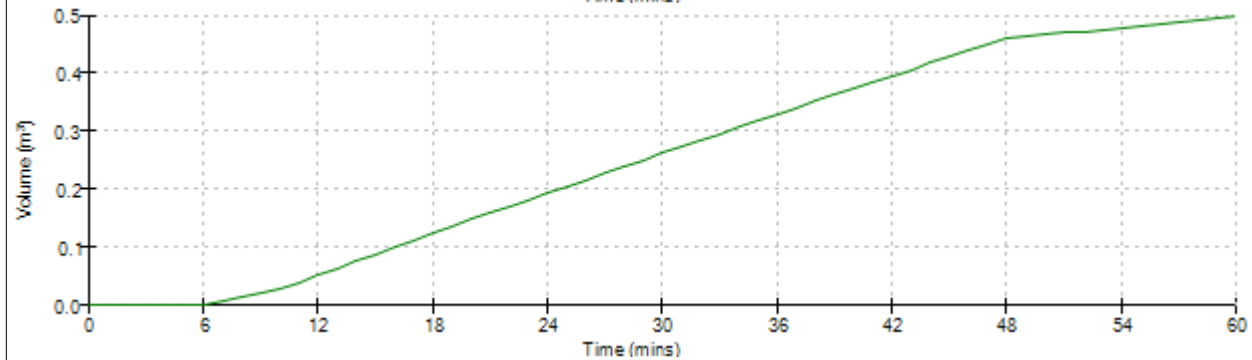
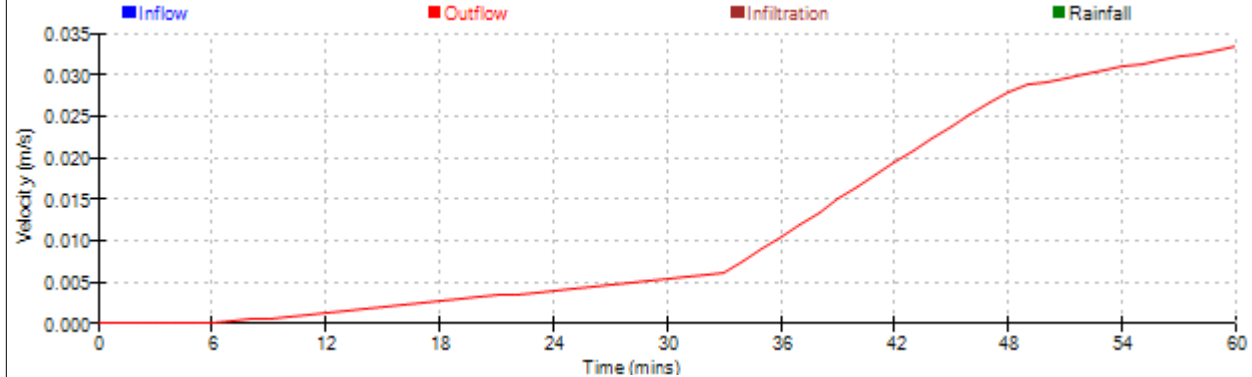
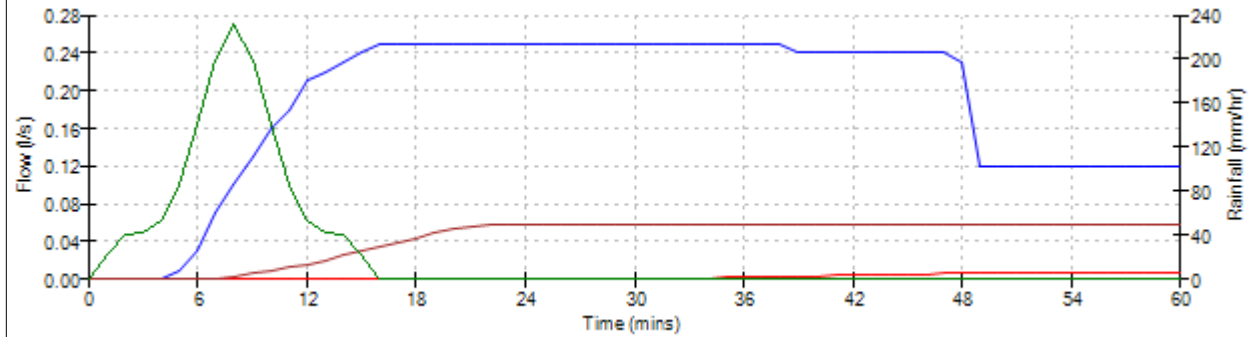
Graphs for Pipe 1.002 US/MH S3 (Storm)
15 minute 100 year winter
Status: SURCHARGED



Graphs for Pipe 1.003 US/MH S4 (Storm)
15 minute 100 year winter
Status: SURCHARGED



Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
15 minute 100 year winter
Status: SURCHARGED



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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
15 minute 100 year winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total (l/s)	O/F Velocity (m/s)	Pipe Flow (l/s)
1	65.401	63.506	-0.109	0.0	0.3	0.1
2	65.404	63.513	-0.106	0.0	0.9	0.2
3	65.407	63.519	-0.103	0.0	1.3	0.3
4	65.410	63.525	-0.100	0.0	1.1	0.5
5	65.413	63.531	-0.097	0.0	1.3	0.7
6	65.415	63.540	-0.095	0.0	1.5	1.1
7	65.418	63.558	-0.092	0.0	1.6	1.6
8	65.422	63.615	-0.088	0.0	1.7	2.2
9	65.424	63.659	-0.086	0.0	1.8	2.7
10	65.425	63.672	-0.085	0.0	1.8	2.9
11	65.424	63.642	-0.086	0.0	1.8	2.8
12	65.422	63.588	-0.088	0.0	1.7	2.4
13	65.418	63.544	-0.092	0.0	1.6	1.8
14	65.415	63.536	-0.095	0.0	1.5	1.3
15	65.413	63.528	-0.097	0.0	1.3	0.9
16	65.410	63.521	-0.100	0.0	1.2	0.6
17	65.407	63.516	-0.103	0.0	1.3	0.4
18	65.404	63.508	-0.106	0.0	0.8	0.2
19	65.401	63.500	-0.109	0.0	0.3	0.1
20	65.400	63.494	-0.110	0.0	0.0	0.0
21	65.400	63.494	-0.110	0.0	0.0	0.0
22	65.400	63.494	-0.110	0.0	0.0	0.0
23	65.400	63.494	-0.110	0.0	0.0	0.0
24	65.400	63.494	-0.110	0.0	0.0	0.0
25	65.400	63.494	-0.110	0.0	0.0	0.0
26	65.400	63.494	-0.110	0.0	0.0	0.0
27	65.400	63.494	-0.110	0.0	0.0	0.0
28	65.400	63.494	-0.110	0.0	0.0	0.0
29	65.400	63.494	-0.110	0.0	0.0	0.0
30	65.400	63.494	-0.110	0.0	0.0	0.0
31	65.400	63.494	-0.110	0.0	0.0	0.0
32	65.400	63.494	-0.110	0.0	0.0	0.0
33	65.400	63.494	-0.110	0.0	0.0	0.0
34	65.400	63.494	-0.110	0.0	0.0	0.0
35	65.400	63.494	-0.110	0.0	0.0	0.0
36	65.400	63.494	-0.110	0.0	0.0	0.0
37	65.400	63.494	-0.110	0.0	0.0	0.0
38	65.400	63.494	-0.110	0.0	0.0	0.0
39	65.400	63.494	-0.110	0.0	0.0	0.0
40	65.400	63.494	-0.110	0.0	0.0	0.0
41	65.400	63.494	-0.110	0.0	0.0	0.0
42	65.400	63.494	-0.110	0.0	0.0	0.0
43	65.400	63.494	-0.110	0.0	0.0	0.0
44	65.400	63.494	-0.110	0.0	0.0	0.0
45	65.400	63.494	-0.110	0.0	0.0	0.0
46	65.400	63.494	-0.110	0.0	0.0	0.0
47	65.400	63.494	-0.110	0.0	0.0	0.0
48	65.400	63.494	-0.110	0.0	0.0	0.0
49	65.400	63.494	-0.110	0.0	0.0	0.0
50	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
15 minute 100 year winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total (l/s)	O/F Velocity (m/s)	Pipe Flow (l/s)
51	65.400	63.494	-0.110	0.0	0.0	0.0
52	65.400	63.494	-0.110	0.0	0.0	0.0
53	65.400	63.494	-0.110	0.0	0.0	0.0
54	65.400	63.494	-0.110	0.0	0.0	0.0
55	65.400	63.494	-0.110	0.0	0.0	0.0
56	65.400	63.494	-0.110	0.0	0.0	0.0
57	65.400	63.494	-0.110	0.0	0.0	0.0
58	65.400	63.494	-0.110	0.0	0.0	0.0
59	65.400	63.494	-0.110	0.0	0.0	0.0
60	65.400	63.494	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
15 minute 100 year winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total (l/s)	O/F Velocity (m/s)	Pipe Flow (l/s)
1	63.506	63.458	-0.098	0.0	0.3	0.1
2	63.513	63.471	-0.091	0.0	0.4	0.3
3	63.519	63.479	-0.085	0.0	0.5	0.6
4	63.525	63.487	-0.079	0.0	0.5	1.0
5	63.531	63.498	-0.073	0.0	0.6	1.5
6	63.540	63.513	-0.064	0.0	0.6	2.2
7	63.558	63.542	-0.046	0.0	0.7	3.2
8	63.615	63.588	0.011	0.0	0.5	4.2
9	63.659	63.622	0.055	0.0	0.6	5.3
10	63.672	63.631	0.068	0.0	0.6	5.9
11	63.642	63.609	0.038	0.0	0.6	5.8
12	63.588	63.568	-0.016	0.0	0.5	4.9
13	63.544	63.520	-0.060	0.0	0.6	3.6
14	63.536	63.503	-0.068	0.0	0.6	2.4
15	63.528	63.491	-0.076	0.0	0.6	1.6
16	63.521	63.481	-0.083	0.0	0.5	1.1
17	63.516	63.473	-0.088	0.0	0.5	0.7
18	63.508	63.465	-0.096	0.0	0.4	0.4
19	63.500	63.456	-0.105	0.0	0.3	0.2
20	63.494	63.448	-0.110	0.0	0.1	0.1
21	63.494	63.444	-0.110	0.0	0.0	0.0
22	63.494	63.444	-0.110	0.0	0.0	0.0
23	63.494	63.444	-0.110	0.0	0.0	0.0
24	63.494	63.444	-0.110	0.0	0.0	0.0
25	63.494	63.444	-0.110	0.0	0.0	0.0
26	63.494	63.444	-0.110	0.0	0.0	0.0
27	63.494	63.444	-0.110	0.0	0.0	0.0
28	63.494	63.444	-0.110	0.0	0.0	0.0
29	63.494	63.444	-0.110	0.0	0.0	0.0
30	63.494	63.444	-0.110	0.0	0.0	0.0
31	63.494	63.444	-0.110	0.0	0.0	0.0
32	63.494	63.444	-0.110	0.0	0.0	0.0
33	63.494	63.444	-0.110	0.0	0.0	0.0
34	63.494	63.444	-0.110	0.0	0.0	0.0
35	63.494	63.444	-0.110	0.0	0.0	0.0
36	63.494	63.444	-0.110	0.0	0.0	0.0
37	63.494	63.444	-0.110	0.0	0.0	0.0
38	63.494	63.444	-0.110	0.0	0.0	0.0
39	63.494	63.444	-0.110	0.0	0.0	0.0
40	63.494	63.444	-0.110	0.0	0.0	0.0
41	63.494	63.444	-0.110	0.0	0.0	0.0
42	63.494	63.444	-0.110	0.0	0.0	0.0
43	63.494	63.444	-0.110	0.0	0.0	0.0
44	63.494	63.444	-0.110	0.0	0.0	0.0
45	63.494	63.444	-0.110	0.0	0.0	0.0
46	63.494	63.444	-0.110	0.0	0.0	0.0
47	63.494	63.444	-0.110	0.0	0.0	0.0
48	63.494	63.444	-0.110	0.0	0.0	0.0
49	63.494	63.444	-0.110	0.0	0.0	0.0
50	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
15 minute 100 year winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total (l/s)	O/F Velocity (m/s)	Pipe Flow (l/s)
51	63.494	63.444	-0.110	0.0	0.0	0.0
52	63.494	63.444	-0.110	0.0	0.0	0.0
53	63.494	63.444	-0.110	0.0	0.0	0.0
54	63.494	63.444	-0.110	0.0	0.0	0.0
55	63.494	63.444	-0.110	0.0	0.0	0.0
56	63.494	63.444	-0.110	0.0	0.0	0.0
57	63.494	63.444	-0.110	0.0	0.0	0.0
58	63.494	63.444	-0.110	0.0	0.0	0.0
59	63.494	63.444	-0.110	0.0	0.0	0.0
60	63.494	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
15 minute 100 year winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total (l/s)	O/F Velocity (m/s)	Pipe Flow (l/s)
1	65.402	65.003	-0.108	0.0	0.3	0.1
2	65.405	65.008	-0.105	0.0	0.9	0.2
3	65.409	65.012	-0.101	0.0	1.0	0.3
4	65.412	65.014	-0.098	0.0	1.0	0.5
5	65.414	65.017	-0.096	0.0	1.2	0.7
6	65.417	65.021	-0.093	0.0	1.3	1.1
7	65.421	65.025	-0.089	0.0	1.4	1.6
8	65.424	65.030	-0.086	0.0	1.5	2.2
9	65.427	65.033	-0.083	0.0	1.6	2.7
10	65.427	65.034	-0.083	0.0	1.6	2.9
11	65.427	65.032	-0.083	0.0	1.6	2.8
12	65.424	65.028	-0.086	0.0	1.5	2.4
13	65.421	65.023	-0.089	0.0	1.3	1.8
14	65.417	65.019	-0.093	0.0	1.3	1.3
15	65.414	65.015	-0.096	0.0	1.1	0.9
16	65.412	65.013	-0.098	0.0	0.9	0.6
17	65.409	65.010	-0.101	0.0	1.0	0.4
18	65.405	65.005	-0.105	0.0	0.8	0.2
19	65.402	65.001	-0.108	0.0	0.3	0.1
20	65.400	65.000	-0.110	0.0	0.0	0.0
21	65.400	65.000	-0.110	0.0	0.0	0.0
22	65.400	65.000	-0.110	0.0	0.0	0.0
23	65.400	65.000	-0.110	0.0	0.0	0.0
24	65.400	65.000	-0.110	0.0	0.0	0.0
25	65.400	65.000	-0.110	0.0	0.0	0.0
26	65.400	65.000	-0.110	0.0	0.0	0.0
27	65.400	65.000	-0.110	0.0	0.0	0.0
28	65.400	65.000	-0.110	0.0	0.0	0.0
29	65.400	65.000	-0.110	0.0	0.0	0.0
30	65.400	65.000	-0.110	0.0	0.0	0.0
31	65.400	65.000	-0.110	0.0	0.0	0.0
32	65.400	65.000	-0.110	0.0	0.0	0.0
33	65.400	65.000	-0.110	0.0	0.0	0.0
34	65.400	65.000	-0.110	0.0	0.0	0.0
35	65.400	65.000	-0.110	0.0	0.0	0.0
36	65.400	65.000	-0.110	0.0	0.0	0.0
37	65.400	65.000	-0.110	0.0	0.0	0.0
38	65.400	65.000	-0.110	0.0	0.0	0.0
39	65.400	65.000	-0.110	0.0	0.0	0.0
40	65.400	65.000	-0.110	0.0	0.0	0.0
41	65.400	65.000	-0.110	0.0	0.0	0.0
42	65.400	65.000	-0.110	0.0	0.0	0.0
43	65.400	65.000	-0.110	0.0	0.0	0.0
44	65.400	65.000	-0.110	0.0	0.0	0.0
45	65.400	65.000	-0.110	0.0	0.0	0.0
46	65.400	65.000	-0.110	0.0	0.0	0.0
47	65.400	65.000	-0.110	0.0	0.0	0.0
48	65.400	65.000	-0.110	0.0	0.0	0.0
49	65.400	65.000	-0.110	0.0	0.0	0.0
50	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
15 minute 100 year winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total (l/s)	O/F Velocity (m/s)	Pipe Flow (l/s)
51	65.400	65.000	-0.110	0.0	0.0	0.0
52	65.400	65.000	-0.110	0.0	0.0	0.0
53	65.400	65.000	-0.110	0.0	0.0	0.0
54	65.400	65.000	-0.110	0.0	0.0	0.0
55	65.400	65.000	-0.110	0.0	0.0	0.0
56	65.400	65.000	-0.110	0.0	0.0	0.0
57	65.400	65.000	-0.110	0.0	0.0	0.0
58	65.400	65.000	-0.110	0.0	0.0	0.0
59	65.400	65.000	-0.110	0.0	0.0	0.0
60	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
15 minute 100 year winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	65.003	63.458	-0.107	0.0	0.6	0.1
2	65.008	63.471	-0.102	0.0	1.4	0.4
3	65.012	63.479	-0.098	0.0	1.4	0.6
4	65.014	63.487	-0.096	0.0	1.6	1.0
5	65.017	63.498	-0.093	0.0	1.8	1.5
6	65.021	63.513	-0.089	0.0	1.9	2.2
7	65.025	63.542	-0.085	0.0	2.2	3.3
8	65.030	63.588	-0.080	0.0	2.3	4.6
9	65.033	63.622	-0.077	0.0	2.4	5.6
10	65.034	63.631	-0.076	0.0	2.5	6.0
11	65.032	63.609	-0.078	0.0	2.4	5.6
12	65.028	63.568	-0.082	0.0	2.3	4.5
13	65.023	63.520	-0.087	0.0	2.0	3.3
14	65.019	63.503	-0.091	0.0	1.9	2.3
15	65.015	63.491	-0.095	0.0	1.8	1.6
16	65.013	63.481	-0.097	0.0	1.5	1.1
17	65.010	63.473	-0.100	0.0	1.3	0.7
18	65.005	63.465	-0.105	0.0	1.2	0.4
19	65.001	63.456	-0.109	0.0	0.4	0.2
20	65.000	63.448	-0.110	0.0	0.1	0.0
21	65.000	63.444	-0.110	0.0	0.0	0.0
22	65.000	63.444	-0.110	0.0	0.0	0.0
23	65.000	63.444	-0.110	0.0	0.0	0.0
24	65.000	63.444	-0.110	0.0	0.0	0.0
25	65.000	63.444	-0.110	0.0	0.0	0.0
26	65.000	63.444	-0.110	0.0	0.0	0.0
27	65.000	63.444	-0.110	0.0	0.0	0.0
28	65.000	63.444	-0.110	0.0	0.0	0.0
29	65.000	63.444	-0.110	0.0	0.0	0.0
30	65.000	63.444	-0.110	0.0	0.0	0.0
31	65.000	63.444	-0.110	0.0	0.0	0.0
32	65.000	63.444	-0.110	0.0	0.0	0.0
33	65.000	63.444	-0.110	0.0	0.0	0.0
34	65.000	63.444	-0.110	0.0	0.0	0.0
35	65.000	63.444	-0.110	0.0	0.0	0.0
36	65.000	63.444	-0.110	0.0	0.0	0.0
37	65.000	63.444	-0.110	0.0	0.0	0.0
38	65.000	63.444	-0.110	0.0	0.0	0.0
39	65.000	63.444	-0.110	0.0	0.0	0.0
40	65.000	63.444	-0.110	0.0	0.0	0.0
41	65.000	63.444	-0.110	0.0	0.0	0.0
42	65.000	63.444	-0.110	0.0	0.0	0.0
43	65.000	63.444	-0.110	0.0	0.0	0.0
44	65.000	63.444	-0.110	0.0	0.0	0.0
45	65.000	63.444	-0.110	0.0	0.0	0.0
46	65.000	63.444	-0.110	0.0	0.0	0.0
47	65.000	63.444	-0.110	0.0	0.0	0.0
48	65.000	63.444	-0.110	0.0	0.0	0.0
49	65.000	63.444	-0.110	0.0	0.0	0.0
50	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
15 minute 100 year winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total (l/s)	0/F Velocity (m/s)	Pipe Flow (l/s)
51	65.000	63.444	-0.110	0.0	0.0	0.0
52	65.000	63.444	-0.110	0.0	0.0	0.0
53	65.000	63.444	-0.110	0.0	0.0	0.0
54	65.000	63.444	-0.110	0.0	0.0	0.0
55	65.000	63.444	-0.110	0.0	0.0	0.0
56	65.000	63.444	-0.110	0.0	0.0	0.0
57	65.000	63.444	-0.110	0.0	0.0	0.0
58	65.000	63.444	-0.110	0.0	0.0	0.0
59	65.000	63.444	-0.110	0.0	0.0	0.0
60	65.000	63.444	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
15 minute 100 year winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1	63.458	63.250	-0.096	0.0	0.2	0.1
2	63.471	63.251	-0.083	0.0	0.5	0.4
3	63.479	63.253	-0.075	0.0	0.6	1.0
4	63.487	63.256	-0.067	0.0	0.6	1.7
5	63.498	63.262	-0.056	0.0	0.7	2.6
6	63.513	63.269	-0.041	0.0	0.8	3.9
7	63.542	63.283	-0.012	0.0	0.8	5.9
8	63.588	63.300	0.034	0.0	0.9	8.1
9	63.622	63.322	0.068	0.0	1.1	10.4
10	63.631	63.346	0.077	0.0	1.2	11.7
11	63.609	63.370	0.055	0.0	1.2	11.6
12	63.568	63.390	0.014	0.0	1.0	10.1
13	63.520	63.406	-0.034	0.0	0.8	7.7
14	63.503	63.416	-0.051	0.0	0.8	5.2
15	63.491	63.423	-0.063	0.0	0.7	3.6
16	63.481	63.428	-0.073	0.0	0.7	2.5
17	63.473	63.431	-0.081	0.0	0.6	1.6
18	63.465	63.432	-0.089	0.0	0.5	1.0
19	63.456	63.433	-0.098	0.0	0.4	0.5
20	63.448	63.433	-0.106	0.0	0.3	0.2
21	63.444	63.432	-0.110	0.0	0.1	0.0
22	63.444	63.432	-0.110	0.0	0.0	0.0
23	63.444	63.431	-0.110	0.0	0.0	0.0
24	63.444	63.431	-0.110	0.0	0.0	0.0
25	63.444	63.430	-0.110	0.0	0.0	0.0
26	63.444	63.430	-0.110	0.0	0.0	0.0
27	63.444	63.429	-0.110	0.0	0.0	0.0
28	63.444	63.429	-0.110	0.0	0.0	0.0
29	63.444	63.428	-0.110	0.0	0.0	0.0
30	63.444	63.427	-0.110	0.0	0.0	0.0
31	63.444	63.427	-0.110	0.0	0.0	0.0
32	63.444	63.426	-0.110	0.0	0.0	0.0
33	63.444	63.426	-0.110	0.0	0.0	0.0
34	63.444	63.425	-0.110	0.0	0.0	0.0
35	63.444	63.425	-0.110	0.0	0.0	0.0
36	63.444	63.424	-0.110	0.0	0.0	0.0
37	63.444	63.424	-0.110	0.0	0.0	0.0
38	63.444	63.423	-0.110	0.0	0.0	0.0
39	63.444	63.423	-0.110	0.0	0.0	0.0
40	63.444	63.422	-0.110	0.0	0.0	0.0
41	63.444	63.422	-0.110	0.0	0.0	0.0
42	63.444	63.421	-0.110	0.0	0.0	0.0
43	63.444	63.421	-0.110	0.0	0.0	0.0
44	63.444	63.420	-0.110	0.0	0.0	0.0
45	63.444	63.420	-0.110	0.0	0.0	0.0
46	63.444	63.419	-0.110	0.0	0.0	0.0
47	63.444	63.419	-0.110	0.0	0.0	0.0
48	63.444	63.418	-0.110	0.0	0.0	0.0
49	63.444	63.418	-0.110	0.0	0.0	0.0
50	63.444	63.418	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
15 minute 100 year winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total (l/s)	0/F Velocity (m/s)	Pipe Flow (l/s)
51	63.444	63.418	-0.110	0.0	0.0	0.0
52	63.444	63.417	-0.110	0.0	0.0	0.0
53	63.444	63.417	-0.110	0.0	0.0	0.0
54	63.444	63.417	-0.110	0.0	0.0	0.0
55	63.444	63.417	-0.110	0.0	0.0	0.0
56	63.444	63.416	-0.110	0.0	0.0	0.0
57	63.444	63.416	-0.110	0.0	0.0	0.0
58	63.444	63.416	-0.110	0.0	0.0	0.0
59	63.444	63.416	-0.110	0.0	0.0	0.0
60	63.444	63.416	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
15 minute 100 year winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total (l/s)	O/F Velocity (m/s)	Pipe Flow (l/s)
1	63.250	63.100	-0.110	0.0	0.0	0.0
2	63.251	63.100	-0.109	0.0	0.0	0.0
3	63.253	63.100	-0.107	0.0	0.0	0.0
4	63.256	63.100	-0.104	0.0	0.0	0.0
5	63.262	63.100	-0.098	0.0	0.1	0.0
6	63.269	63.101	-0.091	0.0	0.2	0.0
7	63.283	63.103	-0.077	0.0	0.3	0.1
8	63.300	63.105	-0.060	0.0	0.3	0.1
9	63.322	63.107	-0.038	0.0	0.3	0.1
10	63.346	63.110	-0.014	0.0	0.3	0.2
11	63.370	63.114	0.010	0.0	0.3	0.2
12	63.390	63.117	0.030	0.0	0.3	0.2
13	63.406	63.121	0.046	0.0	0.4	0.2
14	63.416	63.125	0.056	0.0	0.4	0.2
15	63.423	63.129	0.063	0.0	0.4	0.2
16	63.428	63.133	0.068	0.0	0.4	0.2
17	63.431	63.137	0.071	0.0	0.4	0.2
18	63.432	63.141	0.072	0.0	0.4	0.3
19	63.433	63.145	0.073	0.0	0.4	0.3
20	63.433	63.149	0.073	0.0	0.4	0.3
21	63.432	63.153	0.072	0.0	0.4	0.3
22	63.432	63.156	0.072	0.0	0.4	0.3
23	63.431	63.160	0.071	0.0	0.4	0.3
24	63.431	63.164	0.071	0.0	0.4	0.3
25	63.430	63.167	0.070	0.0	0.4	0.3
26	63.430	63.171	0.070	0.0	0.4	0.2
27	63.429	63.175	0.069	0.0	0.4	0.2
28	63.429	63.179	0.069	0.0	0.4	0.2
29	63.428	63.182	0.068	0.0	0.4	0.2
30	63.427	63.186	0.067	0.0	0.4	0.2
31	63.427	63.190	0.067	0.0	0.4	0.2
32	63.426	63.194	0.066	0.0	0.4	0.2
33	63.426	63.197	0.066	0.0	0.4	0.2
34	63.425	63.201	0.065	0.0	0.4	0.2
35	63.425	63.205	0.065	0.0	0.4	0.2
36	63.424	63.208	0.064	0.0	0.4	0.2
37	63.424	63.212	0.064	0.0	0.4	0.2
38	63.423	63.216	0.063	0.0	0.4	0.2
39	63.423	63.219	0.063	0.0	0.4	0.2
40	63.422	63.223	0.062	0.0	0.4	0.2
41	63.422	63.226	0.062	0.0	0.4	0.2
42	63.421	63.230	0.061	0.0	0.4	0.2
43	63.421	63.233	0.061	0.0	0.4	0.2
44	63.420	63.237	0.060	0.0	0.4	0.2
45	63.420	63.240	0.060	0.0	0.4	0.2
46	63.419	63.244	0.059	0.0	0.4	0.2
47	63.419	63.247	0.059	0.0	0.4	0.2
48	63.418	63.251	0.058	0.0	0.3	0.2
49	63.418	63.252	0.058	0.0	0.3	0.1
50	63.418	63.253	0.058	0.0	0.3	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
15 minute 100 year winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total (l/s)	O/F Velocity (m/s)	Pipe Flow (l/s)
51	63.418	63.254	0.058	0.0	0.3	0.1
52	63.417	63.255	0.057	0.0	0.3	0.1
53	63.417	63.256	0.057	0.0	0.3	0.1
54	63.417	63.257	0.057	0.0	0.3	0.1
55	63.417	63.258	0.057	0.0	0.3	0.1
56	63.416	63.259	0.056	0.0	0.3	0.1
57	63.416	63.260	0.056	0.0	0.3	0.1
58	63.416	63.261	0.056	0.0	0.3	0.1
59	63.416	63.262	0.056	0.0	0.3	0.1
60	63.416	63.263	0.056	0.0	0.3	0.1

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
15 minute 100 year winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total (l/s)	O/F Velocity (m/s)	Pipe Flow (l/s)
1	63.100	63.096	-0.110	0.0	0.0	0.0
2	63.100	63.096	-0.110	0.0	0.0	0.0
3	63.100	63.096	-0.110	0.0	0.0	0.0
4	63.100	63.096	-0.110	0.0	0.0	0.0
5	63.100	63.096	-0.110	0.0	0.0	0.0
6	63.101	63.096	-0.109	0.0	0.0	0.0
7	63.103	63.096	-0.107	0.0	0.0	0.0
8	63.105	63.096	-0.105	0.0	0.0	0.0
9	63.107	63.096	-0.103	0.0	0.0	0.0
10	63.110	63.096	-0.100	0.0	0.0	0.0
11	63.114	63.096	-0.096	0.0	0.0	0.0
12	63.117	63.096	-0.093	0.0	0.0	0.0
13	63.121	63.096	-0.089	0.0	0.0	0.0
14	63.125	63.096	-0.085	0.0	0.0	0.0
15	63.129	63.096	-0.081	0.0	0.0	0.0
16	63.133	63.096	-0.077	0.0	0.0	0.0
17	63.137	63.096	-0.073	0.0	0.0	0.0
18	63.141	63.096	-0.069	0.0	0.0	0.0
19	63.145	63.096	-0.065	0.0	0.0	0.0
20	63.149	63.096	-0.061	0.0	0.0	0.0
21	63.153	63.096	-0.057	0.0	0.0	0.0
22	63.156	63.096	-0.054	0.0	0.0	0.0
23	63.160	63.096	-0.050	0.0	0.0	0.0
24	63.164	63.096	-0.046	0.0	0.0	0.0
25	63.167	63.096	-0.043	0.0	0.0	0.0
26	63.171	63.096	-0.039	0.0	0.0	0.0
27	63.175	63.096	-0.035	0.0	0.0	0.0
28	63.179	63.096	-0.031	0.0	0.0	0.0
29	63.182	63.096	-0.028	0.0	0.0	0.0
30	63.186	63.096	-0.024	0.0	0.0	0.0
31	63.190	63.096	-0.020	0.0	0.0	0.0
32	63.194	63.096	-0.016	0.0	0.0	0.0
33	63.197	63.096	-0.013	0.0	0.0	0.0
34	63.201	63.096	-0.009	0.0	0.0	0.0
35	63.205	63.096	-0.005	0.0	0.0	0.0
36	63.208	63.096	-0.002	0.0	0.0	0.0
37	63.212	63.096	0.002	0.0	0.0	0.0
38	63.216	63.096	0.006	0.0	0.0	0.0
39	63.219	63.096	0.009	0.0	0.0	0.0
40	63.223	63.096	0.013	0.0	0.0	0.0
41	63.226	63.096	0.016	0.0	0.0	0.0
42	63.230	63.096	0.020	0.0	0.0	0.0
43	63.233	63.096	0.023	0.0	0.0	0.0
44	63.237	63.096	0.027	0.0	0.0	0.0
45	63.240	63.096	0.030	0.0	0.0	0.0
46	63.244	63.096	0.034	0.0	0.0	0.0
47	63.247	63.096	0.037	0.0	0.0	0.0
48	63.251	63.096	0.041	0.0	0.0	0.0
49	63.252	63.096	0.042	0.0	0.0	0.0
50	63.253	63.096	0.043	0.0	0.0	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
15 minute 100 year winter
Average Rainfall Intensity 93.516 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total (l/s)	O/F Velocity (m/s)	Pipe Flow (l/s)
51	63.254	63.096	0.044	0.0	0.0	0.0
52	63.255	63.096	0.045	0.0	0.0	0.0
53	63.256	63.096	0.046	0.0	0.0	0.0
54	63.257	63.096	0.047	0.0	0.0	0.0
55	63.258	63.096	0.048	0.0	0.0	0.0
56	63.259	63.096	0.049	0.0	0.0	0.0
57	63.260	63.096	0.050	0.0	0.0	0.0
58	63.261	63.096	0.051	0.0	0.0	0.0
59	63.262	63.096	0.052	0.0	0.0	0.0
60	63.263	63.096	0.053	0.0	0.0	0.0