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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	Summer
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 Summer (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	0.12	0.0	3.1	OK
1.001	S1	63.705	0.101	0.000	0.96	0.0	6.4	SURCHARGED
2.000	RE2	65.428	-0.082	0.000	0.15	0.0	3.1	OK
2.001	S2	65.035	-0.075	0.000	0.22	0.0	6.6	OK
1.002	S3	63.656	0.102	0.000	1.79	0.0	12.8	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

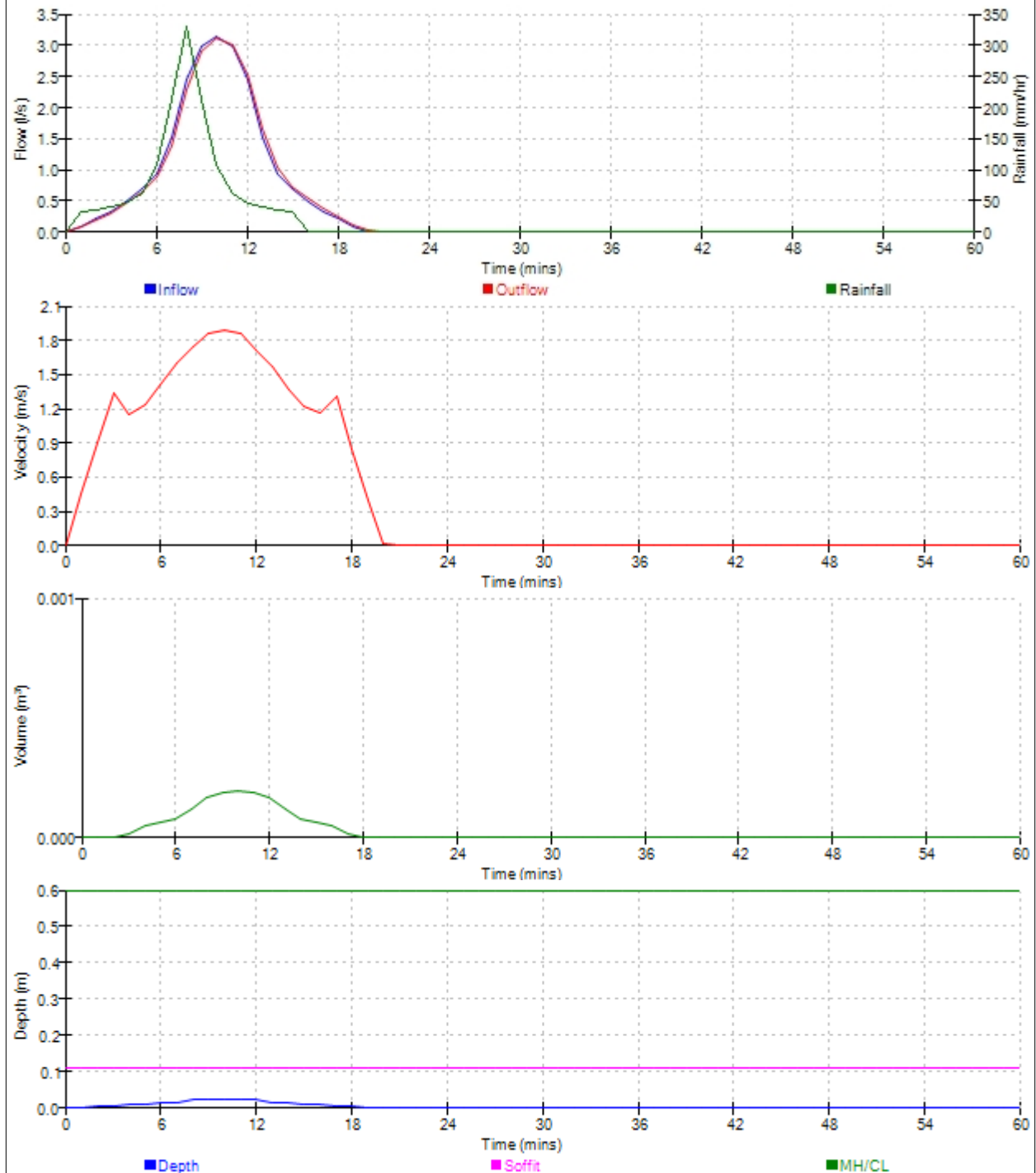
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Rainfall Hyetograph for 15 minute 100 year Summer (Storm)

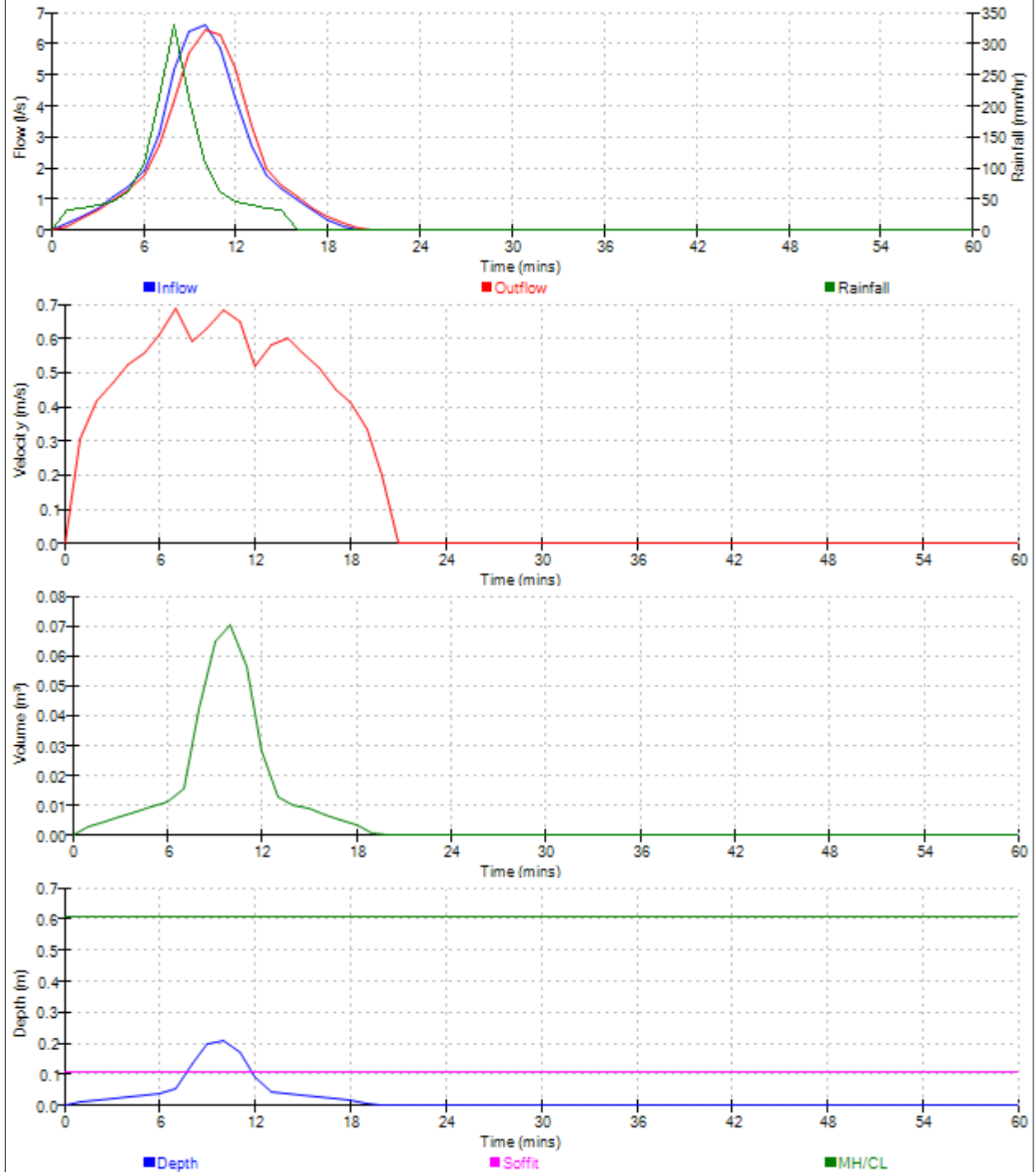
Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
1	31.468	4	47.319	7	212.935	10	107.590	13	39.417
2	34.601	5	62.796	8	330.485	11	62.796	14	34.601
3	39.417	6	107.590	9	212.936	12	47.319	15	31.468

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

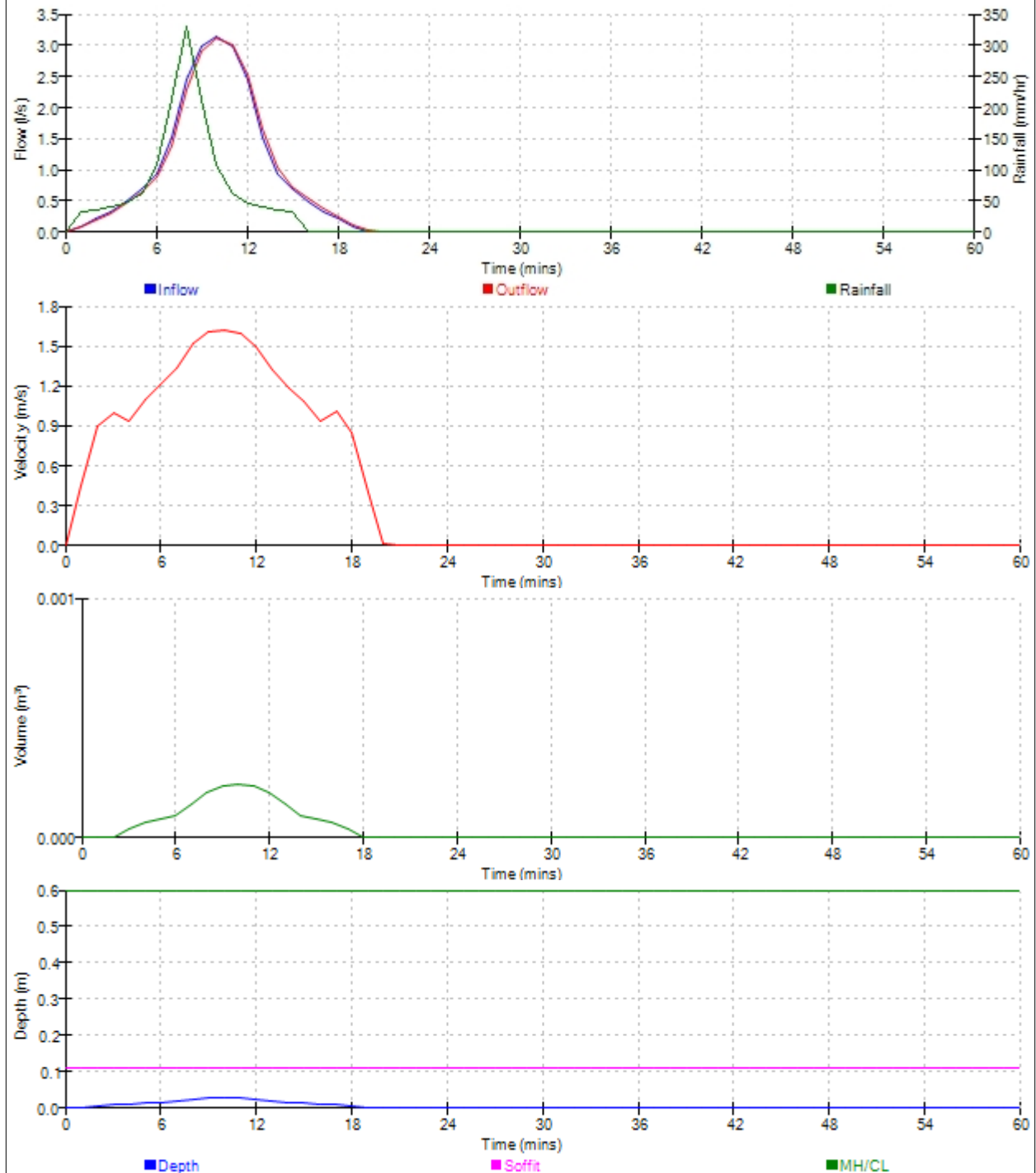


Graphs for Pipe 1.001 US/MH S1 (Storm)
15 minute 100 year Summer
Status: SURCHARGED

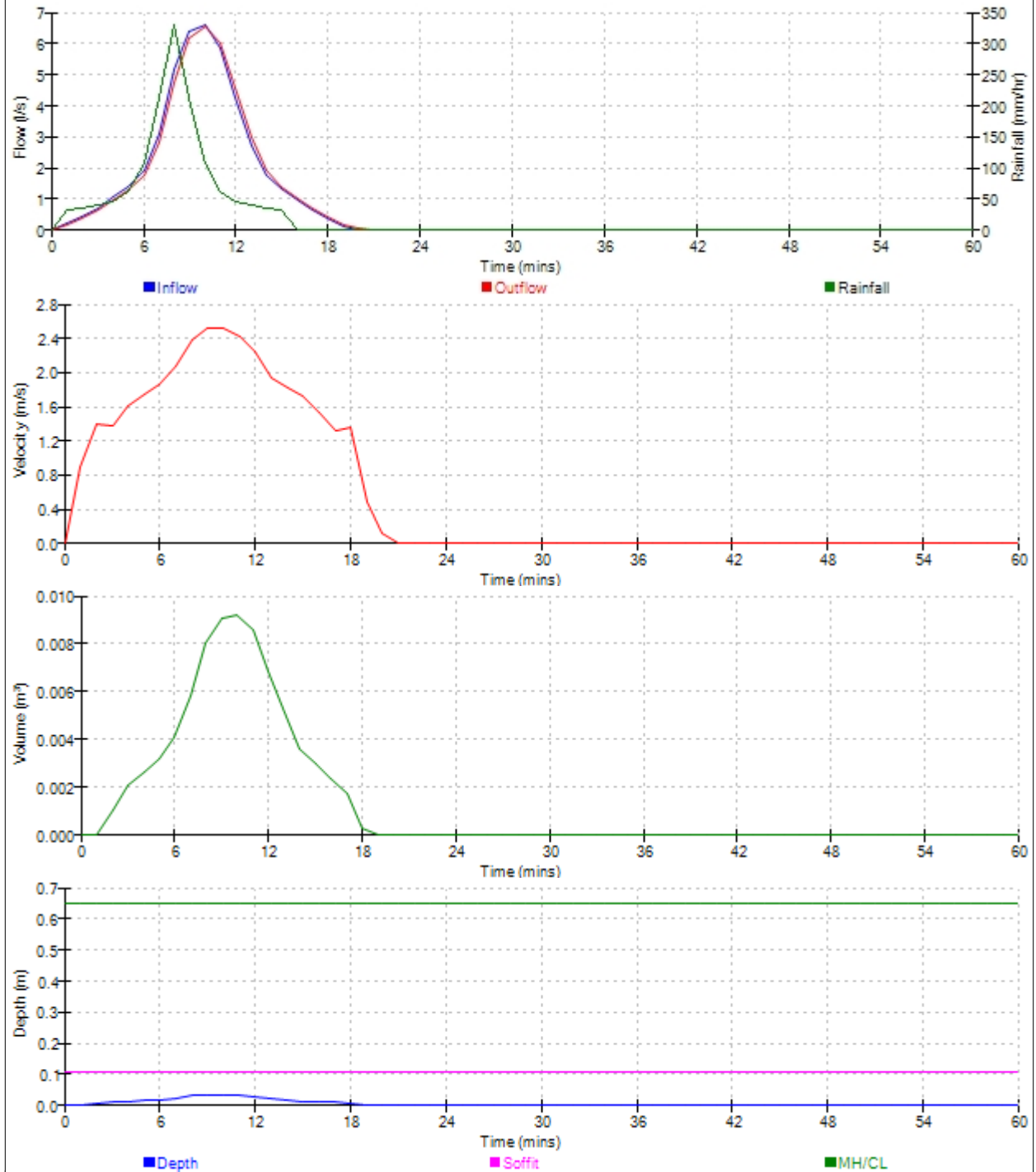


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Graphs for Pipe 2.000 US/MH RE2 (Storm)
15 minute 100 year Summer
Status: OK

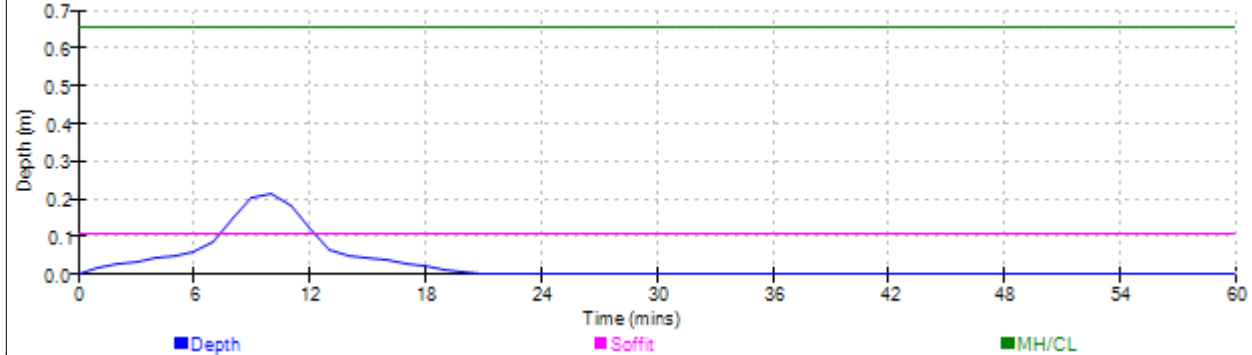
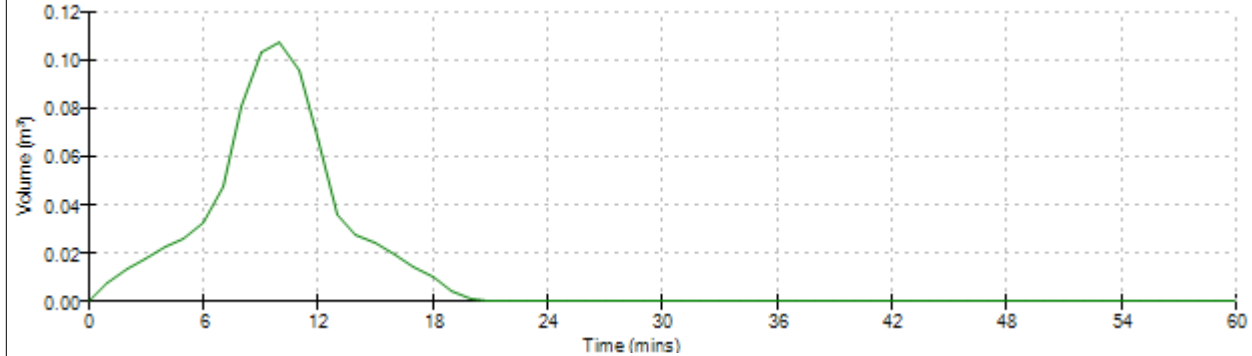
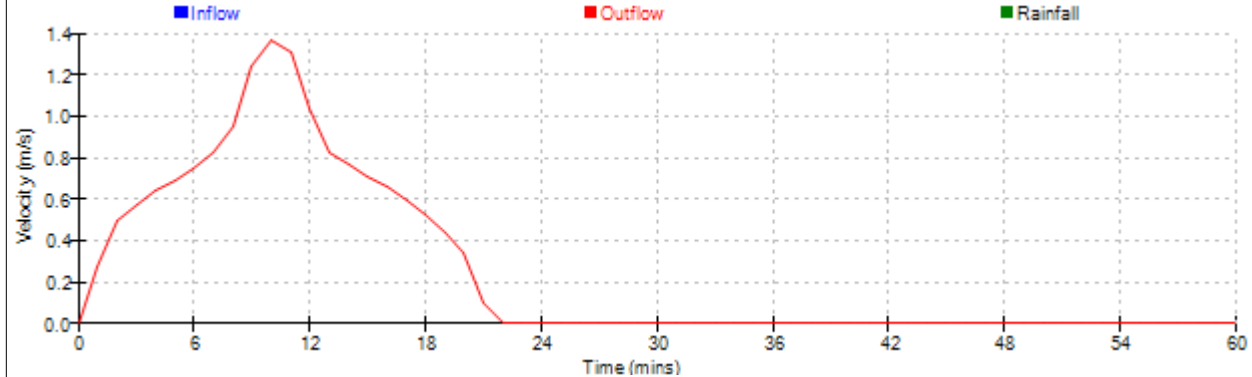
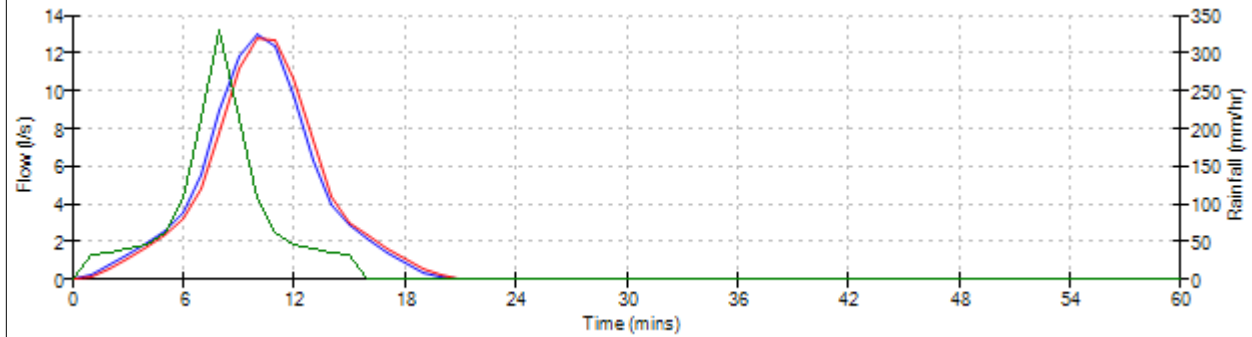


Graphs for Pipe 2.001 US/MH S2 (Storm)
 15 minute 100 year Summer
 Status: OK

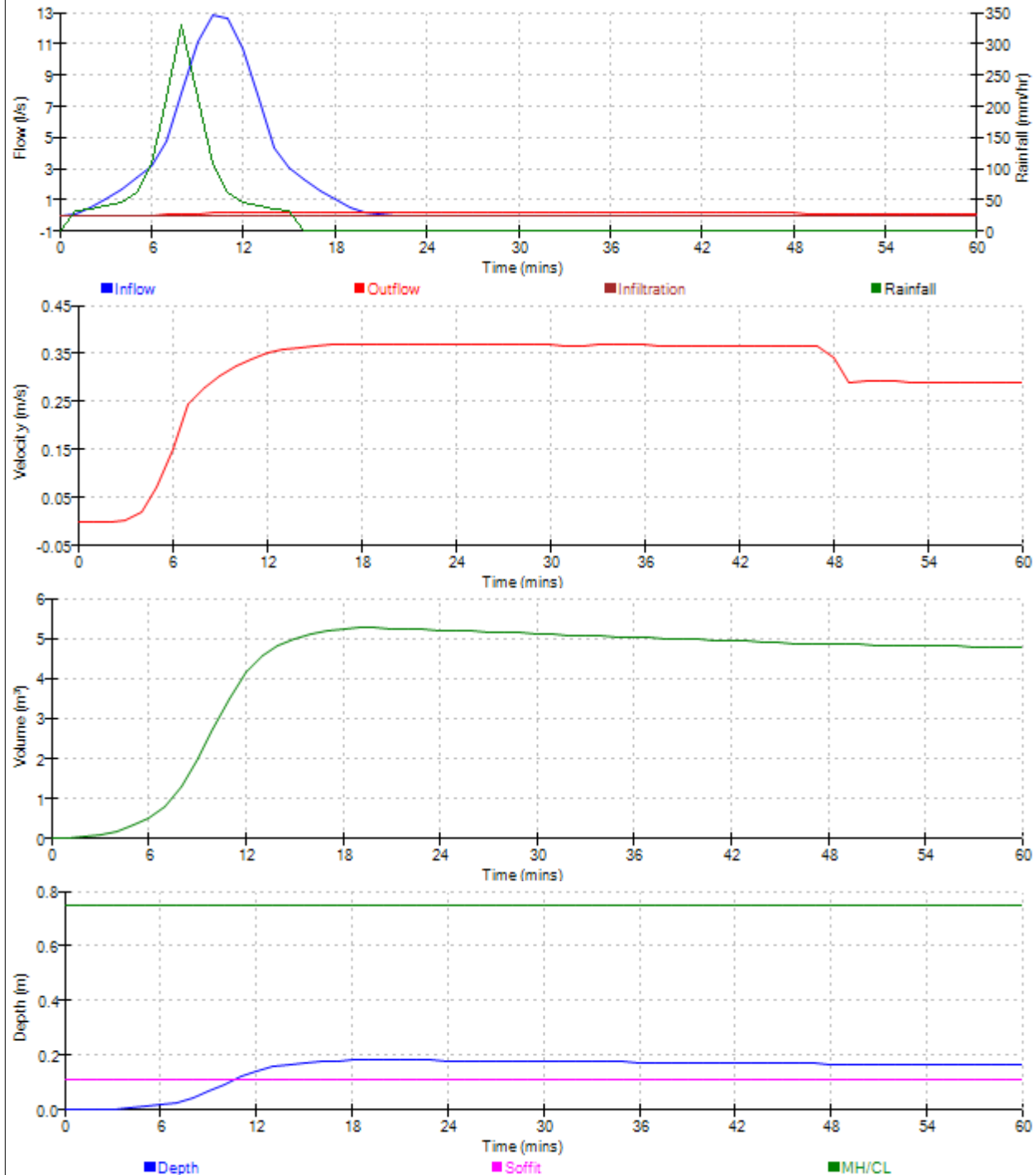


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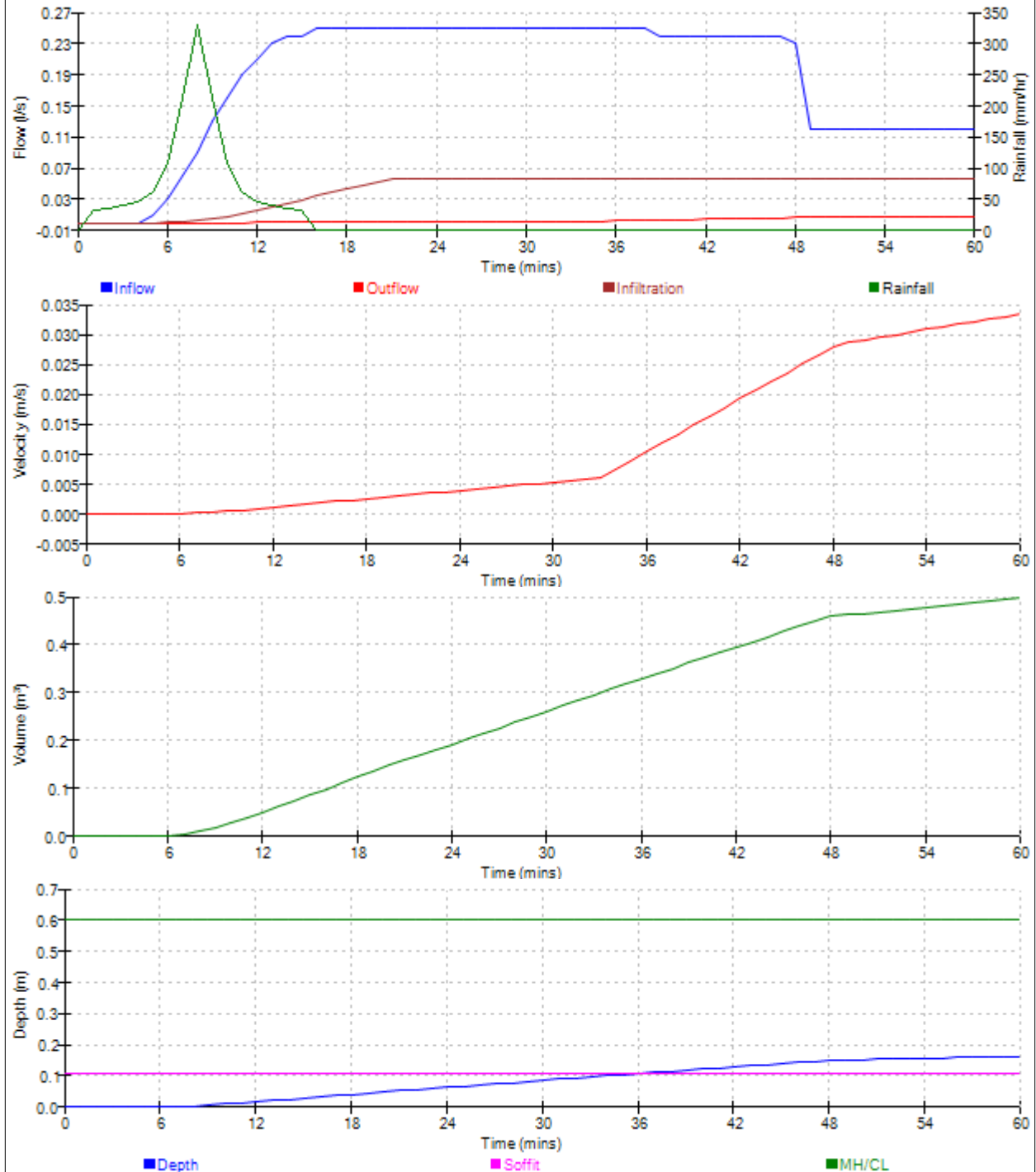
Graphs for Pipe 1.002 US/MH S3 (Storm)
15 minute 100 year Summer
Status: SURCHARGED



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



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



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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
15 minute 100 year Summer
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	63.508	-0.108	0.0	0.5	0.1
2	65.404	63.514	-0.106	0.0	0.9	0.2
3	65.407	63.519	-0.103	0.0	1.3	0.3
4	65.410	63.524	-0.100	0.0	1.1	0.5
5	65.412	63.529	-0.098	0.0	1.2	0.6
6	65.414	63.535	-0.096	0.0	1.4	0.9
7	65.417	63.548	-0.093	0.0	1.6	1.4
8	65.423	63.627	-0.087	0.0	1.7	2.3
9	65.425	63.691	-0.085	0.0	1.9	2.9
10	65.425	63.705	-0.085	0.0	1.9	3.1
11	65.425	63.667	-0.085	0.0	1.9	3.0
12	65.423	63.587	-0.087	0.0	1.7	2.5
13	65.417	63.540	-0.093	0.0	1.6	1.7
14	65.414	63.531	-0.096	0.0	1.4	1.0
15	65.412	63.527	-0.098	0.0	1.2	0.7
16	65.410	63.521	-0.100	0.0	1.2	0.5
17	65.407	63.516	-0.103	0.0	1.3	0.4
18	65.404	63.510	-0.106	0.0	0.9	0.2
19	65.402	63.502	-0.108	0.0	0.4	0.1
20	65.400	63.495	-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 Summer
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 Summer
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	63.508	63.462	-0.097	0.0	0.3	0.1
2	63.514	63.471	-0.090	0.0	0.4	0.4
3	63.519	63.479	-0.085	0.0	0.5	0.6
4	63.524	63.486	-0.080	0.0	0.5	1.0
5	63.529	63.493	-0.076	0.0	0.6	1.3
6	63.535	63.503	-0.069	0.0	0.6	1.8
7	63.548	63.528	-0.056	0.0	0.7	2.7
8	63.627	63.596	0.023	0.0	0.6	4.2
9	63.691	63.645	0.086	0.0	0.6	5.7
10	63.705	63.656	0.101	0.0	0.7	6.4
11	63.667	63.628	0.063	0.0	0.6	6.3
12	63.587	63.568	-0.017	0.0	0.5	5.2
13	63.540	63.510	-0.064	0.0	0.6	3.4
14	63.531	63.496	-0.073	0.0	0.6	2.0
15	63.527	63.489	-0.077	0.0	0.6	1.4
16	63.521	63.481	-0.083	0.0	0.5	1.1
17	63.516	63.474	-0.088	0.0	0.5	0.7
18	63.510	63.466	-0.094	0.0	0.4	0.5
19	63.502	63.457	-0.102	0.0	0.3	0.2
20	63.495	63.450	-0.109	0.0	0.2	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 Summer
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 Summer
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	65.403	65.004	-0.107	0.0	0.4	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	65.411	65.014	-0.099	0.0	0.9	0.5
5	65.413	65.015	-0.097	0.0	1.1	0.6
6	65.415	65.018	-0.095	0.0	1.2	0.9
7	65.419	65.024	-0.091	0.0	1.3	1.4
8	65.425	65.031	-0.085	0.0	1.5	2.3
9	65.428	65.035	-0.082	0.0	1.6	2.9
10	65.428	65.035	-0.082	0.0	1.6	3.1
11	65.428	65.033	-0.082	0.0	1.6	3.0
12	65.425	65.027	-0.085	0.0	1.5	2.5
13	65.419	65.022	-0.091	0.0	1.3	1.7
14	65.415	65.017	-0.095	0.0	1.2	1.0
15	65.413	65.015	-0.097	0.0	1.1	0.7
16	65.411	65.013	-0.099	0.0	0.9	0.5
17	65.409	65.011	-0.101	0.0	1.0	0.4
18	65.405	65.006	-0.105	0.0	0.9	0.2
19	65.403	65.002	-0.107	0.0	0.4	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 Summer
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 Summer
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	65.004	63.462	-0.106	0.0	0.9	0.2
2	65.008	63.471	-0.102	0.0	1.4	0.4
3	65.012	63.479	-0.098	0.0	1.4	0.7
4	65.014	63.486	-0.096	0.0	1.6	1.0
5	65.015	63.493	-0.095	0.0	1.7	1.3
6	65.018	63.503	-0.092	0.0	1.9	1.8
7	65.024	63.528	-0.086	0.0	2.1	2.8
8	65.031	63.596	-0.079	0.0	2.4	4.8
9	65.035	63.645	-0.075	0.0	2.5	6.2
10	65.035	63.656	-0.075	0.0	2.5	6.6
11	65.033	63.628	-0.077	0.0	2.4	6.0
12	65.027	63.568	-0.083	0.0	2.3	4.6
13	65.022	63.510	-0.088	0.0	1.9	3.0
14	65.017	63.496	-0.093	0.0	1.8	1.9
15	65.015	63.489	-0.095	0.0	1.7	1.4
16	65.013	63.481	-0.097	0.0	1.5	1.0
17	65.011	63.474	-0.099	0.0	1.3	0.7
18	65.006	63.466	-0.104	0.0	1.4	0.4
19	65.002	63.457	-0.108	0.0	0.5	0.2
20	65.000	63.450	-0.110	0.0	0.1	0.1
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 Summer
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 Summer
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	63.462	63.250	-0.092	0.0	0.3	0.1
2	63.471	63.251	-0.083	0.0	0.5	0.6
3	63.479	63.253	-0.075	0.0	0.6	1.1
4	63.486	63.257	-0.068	0.0	0.6	1.7
5	63.493	63.261	-0.061	0.0	0.7	2.4
6	63.503	63.268	-0.051	0.0	0.7	3.2
7	63.528	63.277	-0.026	0.0	0.8	4.8
8	63.596	63.295	0.042	0.0	1.0	7.8
9	63.645	63.320	0.091	0.0	1.2	11.2
10	63.656	63.346	0.102	0.0	1.4	12.8
11	63.628	63.372	0.074	0.0	1.3	12.7
12	63.568	63.394	0.014	0.0	1.0	10.7
13	63.510	63.409	-0.044	0.0	0.8	7.4
14	63.496	63.418	-0.059	0.0	0.8	4.3
15	63.489	63.423	-0.065	0.0	0.7	3.0
16	63.481	63.427	-0.073	0.0	0.7	2.3
17	63.474	63.430	-0.081	0.0	0.6	1.6
18	63.466	63.432	-0.088	0.0	0.5	1.0
19	63.457	63.433	-0.097	0.0	0.4	0.6
20	63.450	63.433	-0.104	0.0	0.3	0.2
21	63.444	63.432	-0.110	0.0	0.1	0.1
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	63.428	-0.110	0.0	0.0	0.0
31	63.444	63.427	-0.110	0.0	0.0	0.0
32	63.444	63.427	-0.110	0.0	0.0	0.0
33	63.444	63.426	-0.110	0.0	0.0	0.0
34	63.444	63.426	-0.110	0.0	0.0	0.0
35	63.444	63.425	-0.110	0.0	0.0	0.0
36	63.444	63.425	-0.110	0.0	0.0	0.0
37	63.444	63.424	-0.110	0.0	0.0	0.0
38	63.444	63.424	-0.110	0.0	0.0	0.0
39	63.444	63.423	-0.110	0.0	0.0	0.0
40	63.444	63.423	-0.110	0.0	0.0	0.0
41	63.444	63.422	-0.110	0.0	0.0	0.0
42	63.444	63.422	-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	63.419	-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 Summer
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	63.444	63.418	-0.110	0.0	0.0	0.0
52	63.444	63.418	-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	63.417	-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 Summer
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	63.257	63.100	-0.103	0.0	0.0	0.0
5	63.261	63.100	-0.099	0.0	0.1	0.0
6	63.268	63.101	-0.092	0.0	0.2	0.0
7	63.277	63.102	-0.083	0.0	0.2	0.1
8	63.295	63.104	-0.065	0.0	0.3	0.1
9	63.320	63.107	-0.040	0.0	0.3	0.1
10	63.346	63.110	-0.014	0.0	0.3	0.2
11	63.372	63.113	0.012	0.0	0.3	0.2
12	63.394	63.117	0.034	0.0	0.4	0.2
13	63.409	63.121	0.049	0.0	0.4	0.2
14	63.418	63.125	0.058	0.0	0.4	0.2
15	63.423	63.129	0.063	0.0	0.4	0.2
16	63.427	63.133	0.067	0.0	0.4	0.2
17	63.430	63.137	0.070	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	63.428	63.186	0.068	0.0	0.4	0.2
31	63.427	63.190	0.067	0.0	0.4	0.2
32	63.427	63.193	0.067	0.0	0.4	0.2
33	63.426	63.197	0.066	0.0	0.4	0.2
34	63.426	63.201	0.066	0.0	0.4	0.2
35	63.425	63.205	0.065	0.0	0.4	0.2
36	63.425	63.208	0.065	0.0	0.4	0.2
37	63.424	63.212	0.064	0.0	0.4	0.2
38	63.424	63.215	0.064	0.0	0.4	0.2
39	63.423	63.219	0.063	0.0	0.4	0.2
40	63.423	63.223	0.063	0.0	0.4	0.2
41	63.422	63.226	0.062	0.0	0.4	0.2
42	63.422	63.230	0.062	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	63.419	63.251	0.059	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 Summer
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	63.418	63.255	0.058	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	63.417	63.259	0.057	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 Summer
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	63.102	63.096	-0.108	0.0	0.0	0.0
8	63.104	63.096	-0.106	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	63.113	63.096	-0.097	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	63.193	63.096	-0.017	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	63.215	63.096	0.005	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 Summer
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