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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)	1920
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	16

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)	960
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 960 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

WARNING: The analysis maybe unstable. Please see the method of analysis help for more details.

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	65.404	-0.106	0.000	0.01	0.0	0.2	OK
1.001	S1	63.836	0.232	0.000	0.06	0.0	0.4	SURCHARGED
2.000	RE2	65.405	-0.105	0.000	0.01	0.0	0.2	OK
2.001	S2	65.007	-0.103	0.000	0.01	0.0	0.4	OK
1.002	S3	63.835	0.280	0.000	0.12	0.0	0.8	SURCHARGED
1.003	S4	63.833	0.473	0.002	0.04	0.0	0.2	FLOOD
1.004	RAIN GARDEN	63.701	0.491	0.533	0.01	0.0	0.0	FLOOD

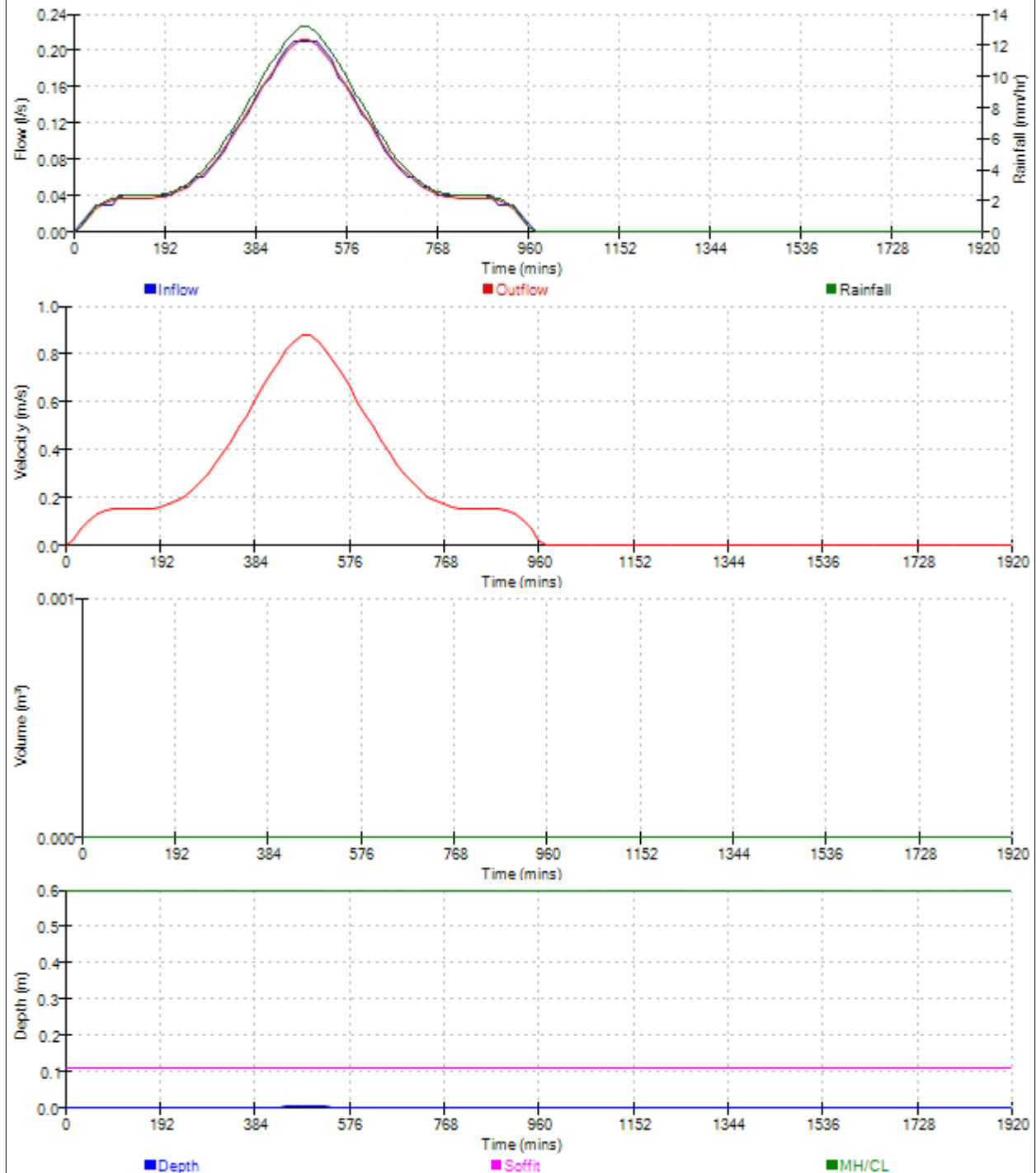
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Rainfall Hyetograph for 960 minute 100 year winter (Storm)

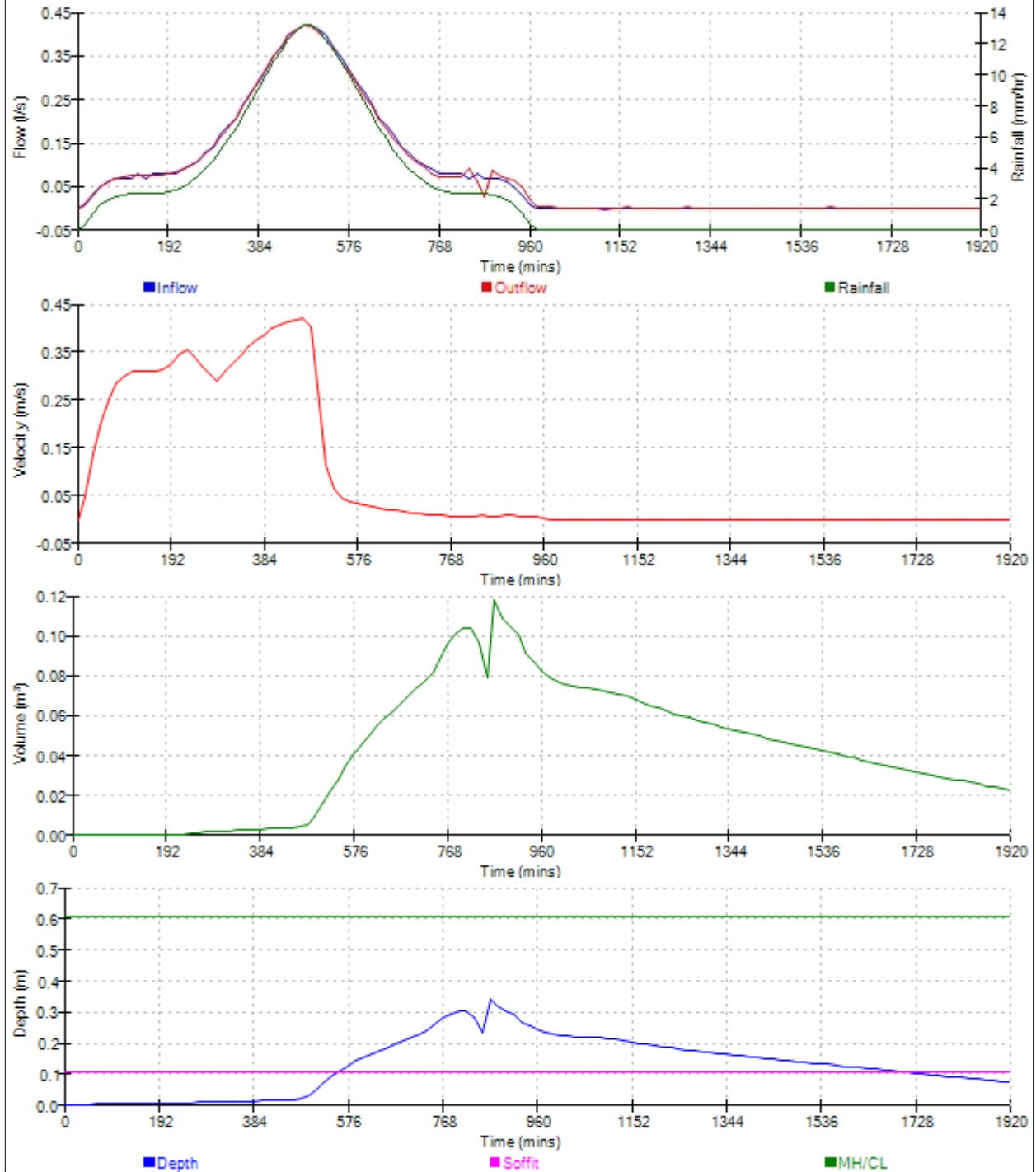
Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
16	0.372	208	2.598	400	10.031	592	9.104	784	2.444
32	1.070	224	2.808	416	10.821	608	8.272	800	2.368
48	1.582	240	3.087	432	11.557	624	7.453	816	2.332
64	1.960	256	3.496	448	12.280	640	6.569	832	2.327
80	2.161	272	3.947	464	12.792	656	5.834	848	2.332
96	2.275	288	4.472	480	13.162	672	5.154	864	2.326
112	2.326	304	5.154	496	13.162	688	4.472	880	2.275
128	2.332	320	5.834	512	12.792	704	3.947	896	2.161
144	2.327	336	6.569	528	12.280	720	3.496	912	1.960
160	2.332	352	7.453	544	11.557	736	3.087	928	1.582
176	2.368	368	8.272	560	10.821	752	2.808	944	1.070
192	2.444	384	9.104	576	10.031	768	2.598	960	0.372

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

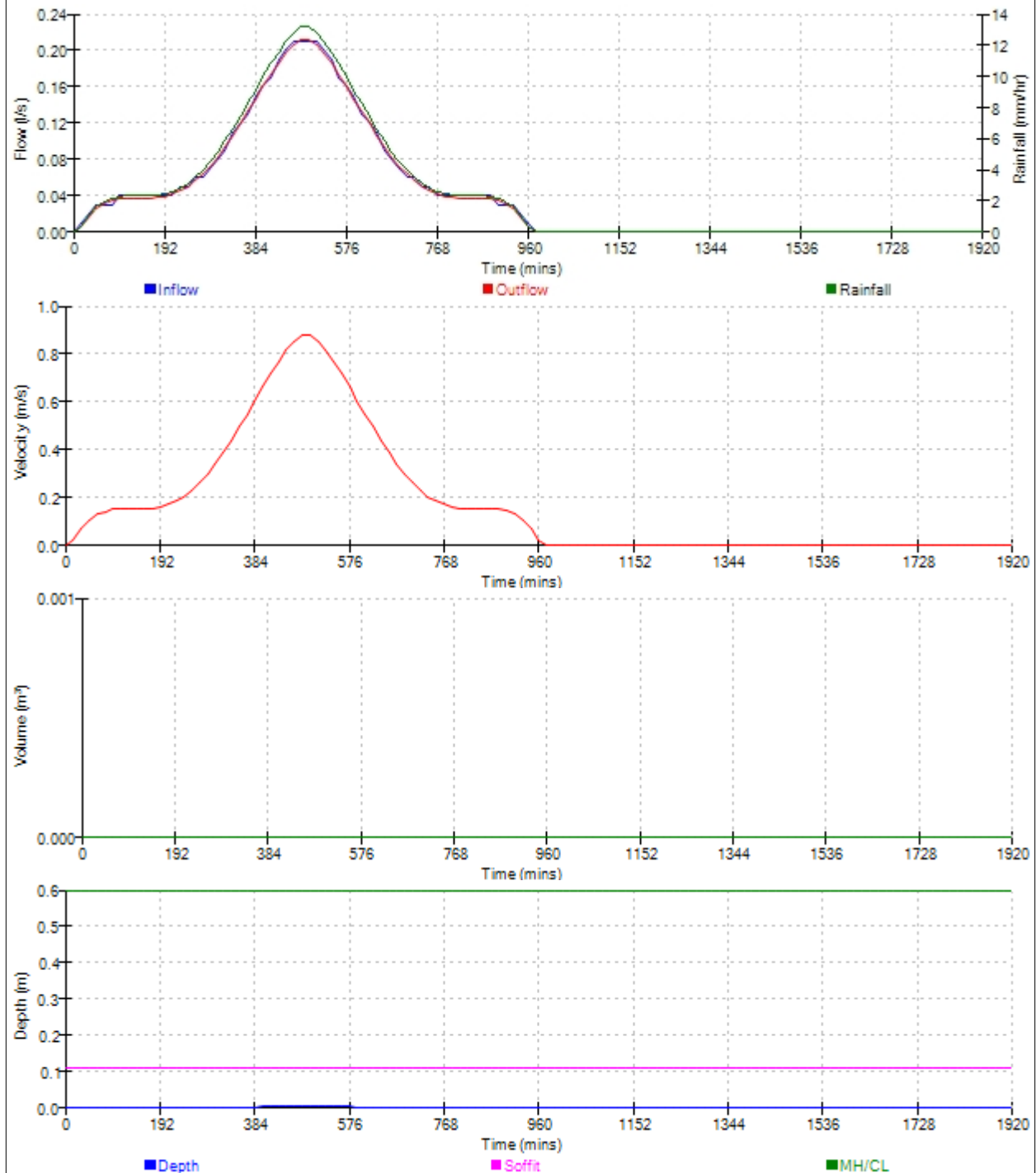


Graphs for Pipe 1.001 US/MH S1 (Storm)
960 minute 100 year winter
Status: SURCHARGED



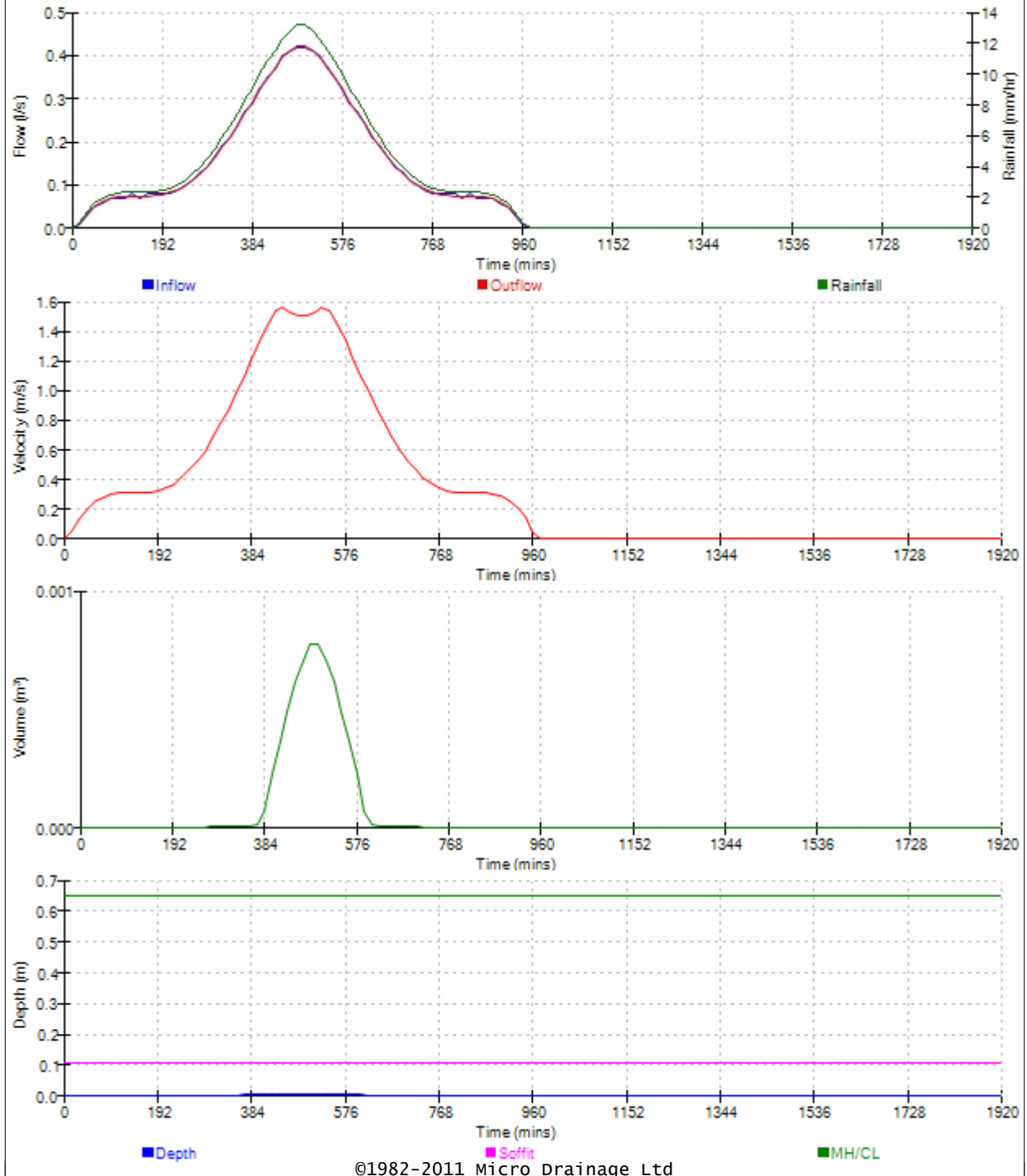
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
 960 minute 100 year winter
 Status: OK

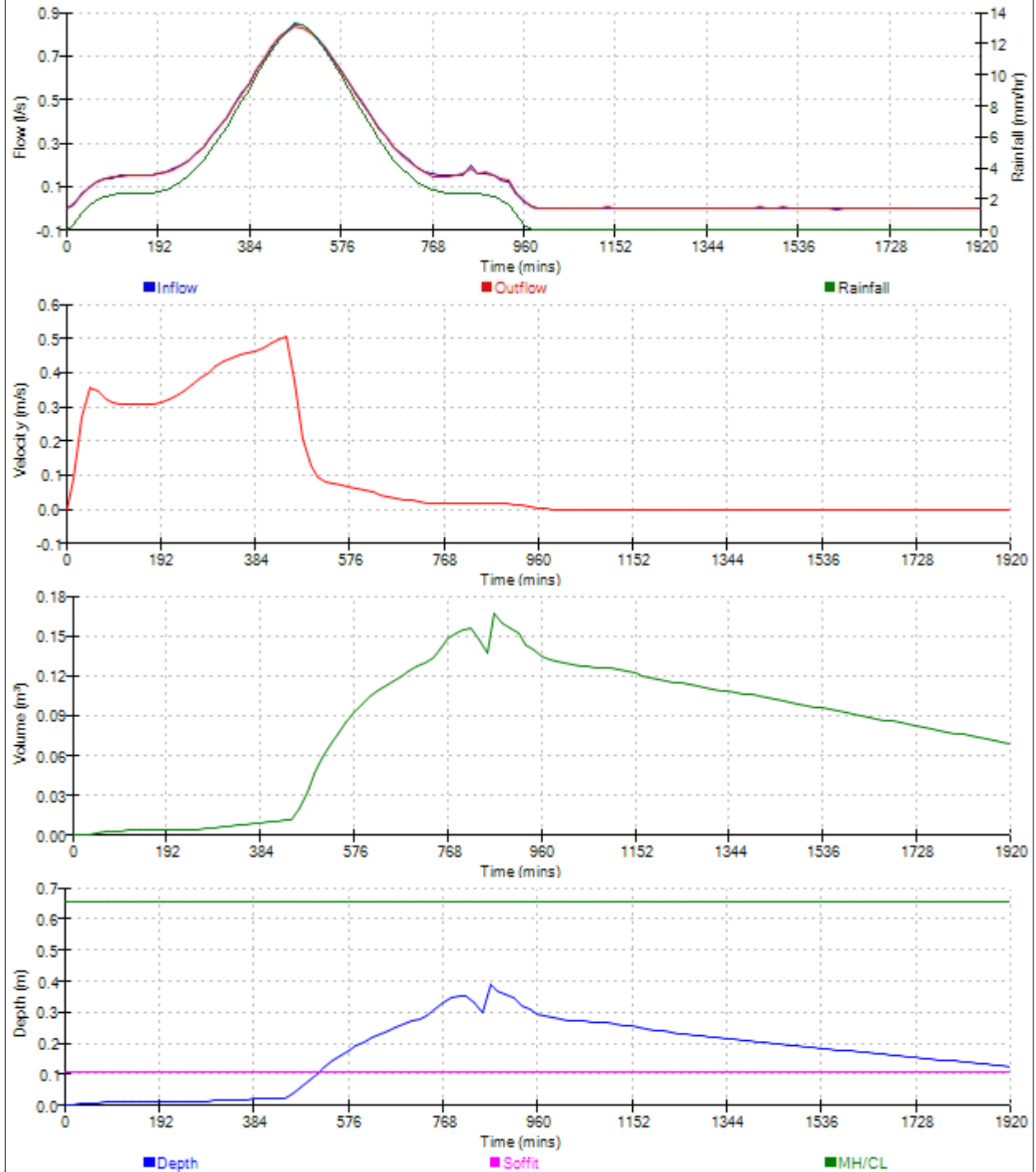


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Graphs for Pipe 2.001 US/MH S2 (Storm)
 960 minute 100 year winter
 Status: OK

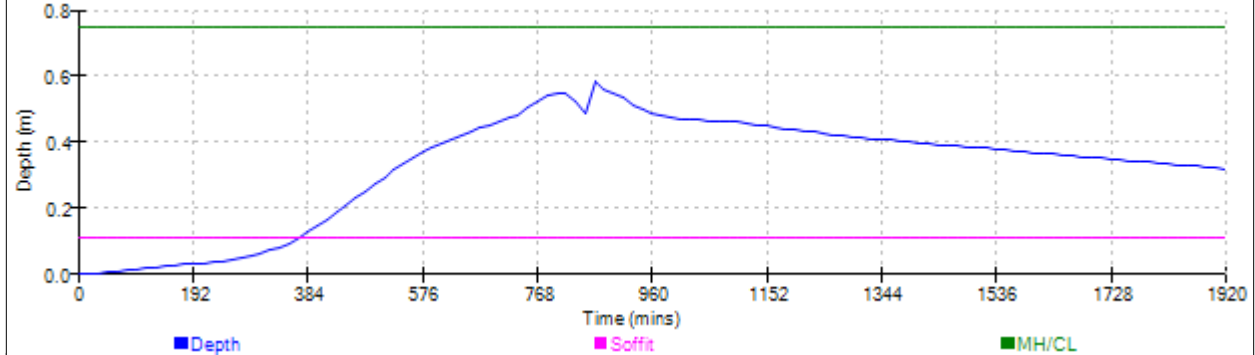
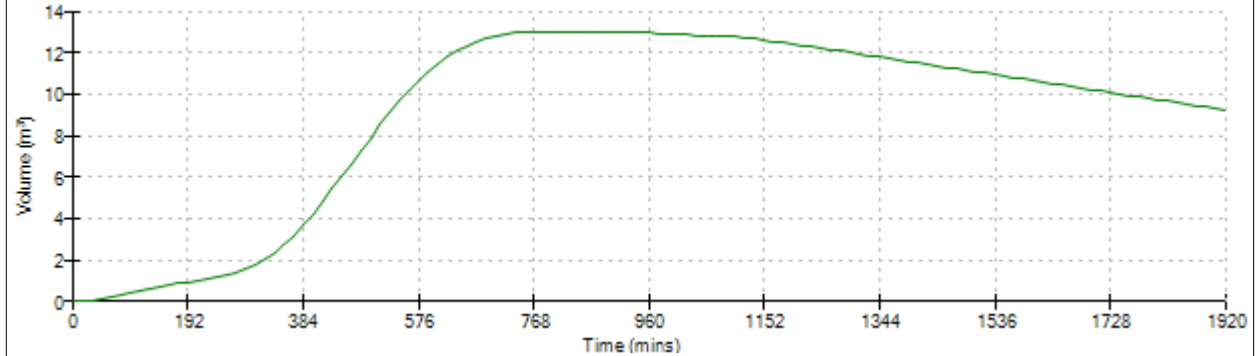
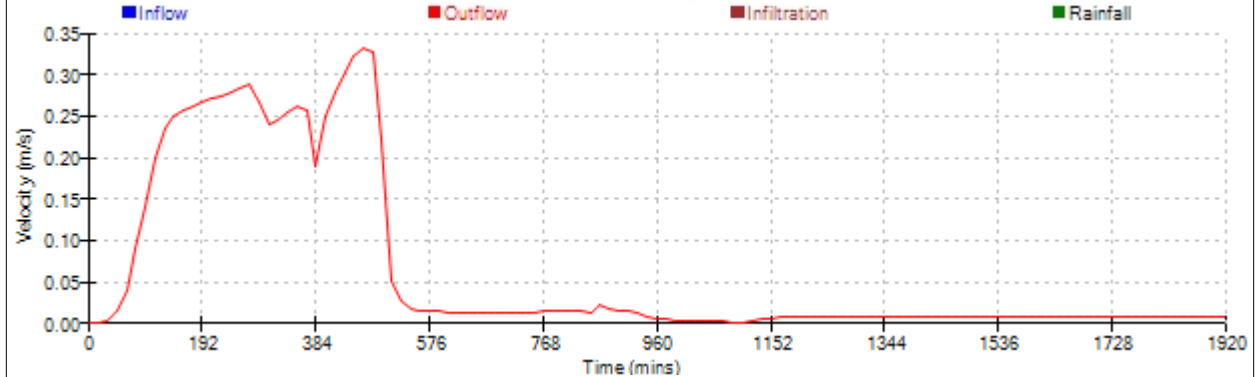
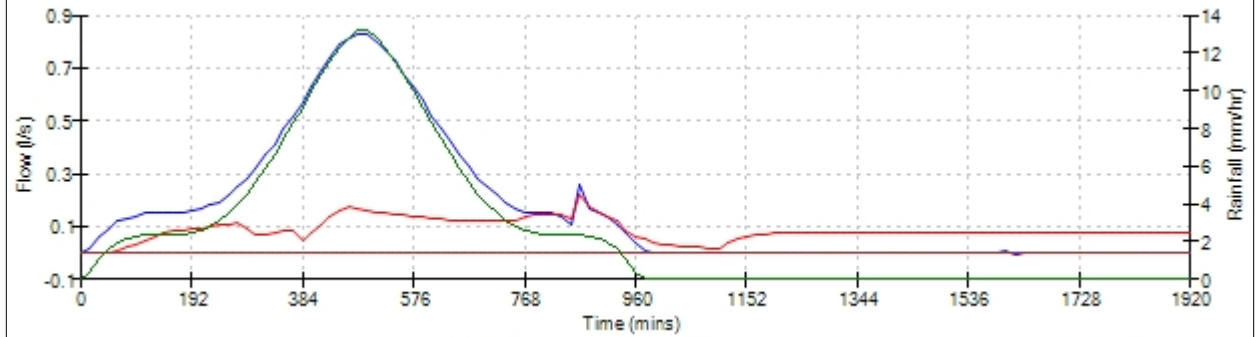


Graphs for Pipe 1.002 US/MH S3 (Storm)
960 minute 100 year winter
Status: SURCHARGED

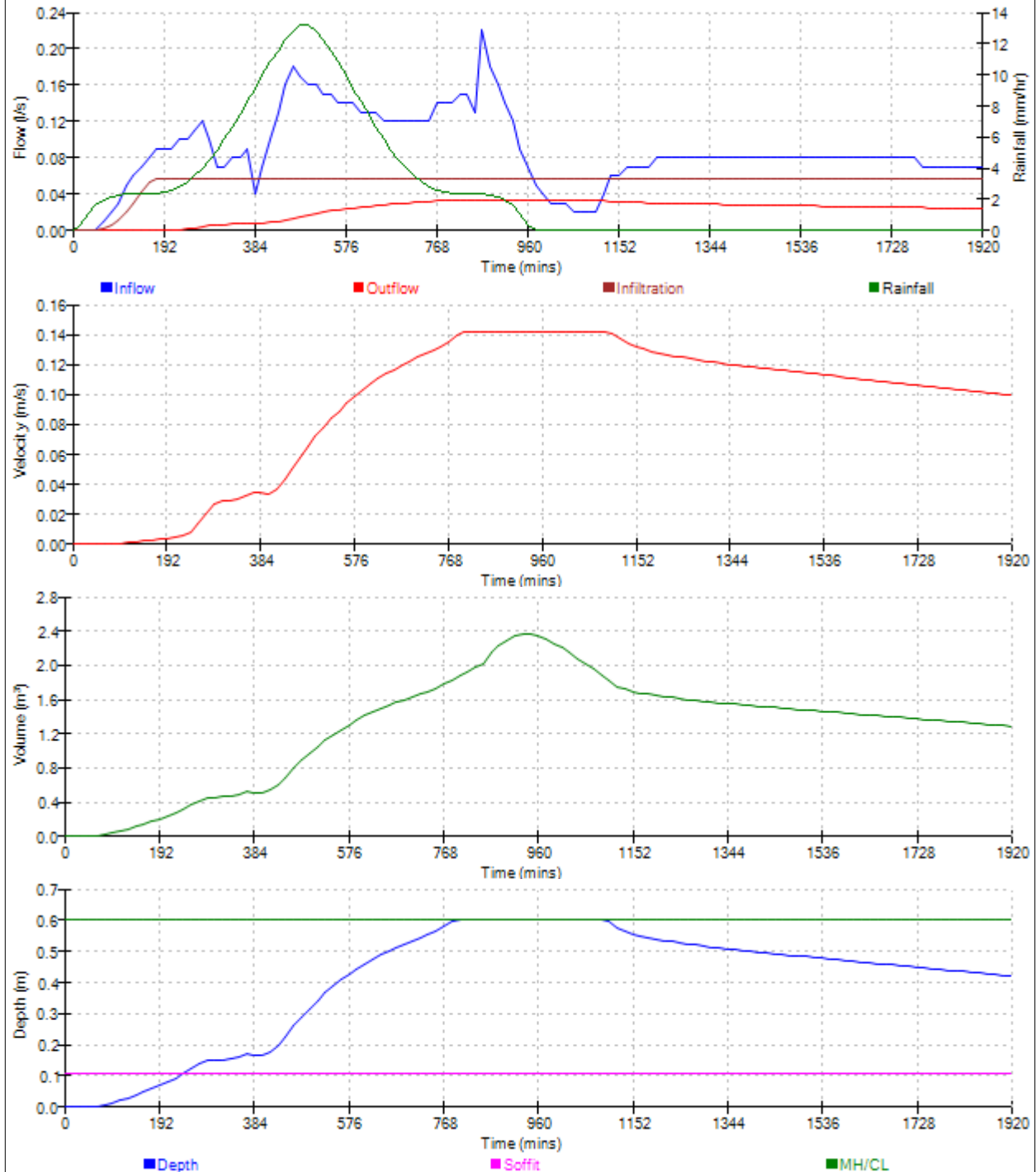


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Graphs for Pipe 1.003 US/MH S4 (Storm)
 960 minute 100 year winter
 Status: FLOOD



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



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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
960 minute 100 year winter
Average Rainfall Intensity 5.233 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)
1616	65.400	63.616	-0.110	0.0	0.0	0.0
1632	65.400	63.613	-0.110	0.0	0.0	0.0
1648	65.400	63.611	-0.110	0.0	0.0	0.0
1664	65.400	63.609	-0.110	0.0	0.0	0.0
1680	65.400	63.606	-0.110	0.0	0.0	0.0
1696	65.400	63.604	-0.110	0.0	0.0	0.0
1712	65.400	63.602	-0.110	0.0	0.0	0.0
1728	65.400	63.599	-0.110	0.0	0.0	0.0
1744	65.400	63.596	-0.110	0.0	0.0	0.0
1760	65.400	63.594	-0.110	0.0	0.0	0.0
1776	65.400	63.591	-0.110	0.0	0.0	0.0
1792	65.400	63.588	-0.110	0.0	0.0	0.0
1808	65.400	63.587	-0.110	0.0	0.0	0.0
1824	65.400	63.585	-0.110	0.0	0.0	0.0
1840	65.400	63.582	-0.110	0.0	0.0	0.0
1856	65.400	63.579	-0.110	0.0	0.0	0.0
1872	65.400	63.577	-0.110	0.0	0.0	0.0
1888	65.400	63.575	-0.110	0.0	0.0	0.0
1904	65.400	63.572	-0.110	0.0	0.0	0.0
1920	65.400	63.570	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
960 minute 100 year winter
Average Rainfall Intensity 5.233 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)
816	63.799	63.799	0.195	0.0	0.0	0.1
832	63.777	63.776	0.173	0.0	0.0	0.1
848	63.730	63.745	0.126	0.0	0.0	0.1
864	63.836	63.835	0.232	0.0	0.0	0.0
880	63.813	63.813	0.209	0.0	0.0	0.1
896	63.800	63.799	0.195	0.0	0.0	0.1
912	63.789	63.789	0.185	0.0	0.0	0.1
928	63.763	63.763	0.159	0.0	0.0	0.1
944	63.752	63.752	0.148	0.0	0.0	0.0
960	63.738	63.738	0.134	0.0	0.0	0.0
976	63.730	63.730	0.126	0.0	0.0	0.0
992	63.725	63.725	0.121	0.0	0.0	0.0
1008	63.721	63.721	0.117	0.0	0.0	0.0
1024	63.718	63.719	0.114	0.0	0.0	0.0
1040	63.716	63.716	0.112	0.0	0.0	0.0
1056	63.715	63.715	0.111	0.0	0.0	0.0
1072	63.713	63.713	0.109	0.0	0.0	0.0
1088	63.711	63.711	0.107	0.0	0.0	0.0
1104	63.709	63.710	0.105	0.0	0.0	0.0
1120	63.707	63.707	0.103	0.0	0.0	0.0
1136	63.703	63.703	0.099	0.0	0.0	0.0
1152	63.699	63.699	0.095	0.0	0.0	0.0
1168	63.695	63.695	0.091	0.0	0.0	0.0
1184	63.691	63.691	0.087	0.0	0.0	0.0
1200	63.688	63.687	0.083	0.0	0.0	0.0
1216	63.683	63.684	0.079	0.0	0.0	0.0
1232	63.680	63.680	0.076	0.0	0.0	0.0
1248	63.677	63.677	0.072	0.0	0.0	0.0
1264	63.673	63.674	0.069	0.0	0.0	0.0
1280	63.670	63.670	0.066	0.0	0.0	0.0
1296	63.667	63.667	0.063	0.0	0.0	0.0
1312	63.664	63.664	0.060	0.0	0.0	0.0
1328	63.661	63.661	0.057	0.0	0.0	0.0
1344	63.659	63.659	0.055	0.0	0.0	0.0
1360	63.656	63.656	0.052	0.0	0.0	0.0
1376	63.653	63.654	0.049	0.0	0.0	0.0
1392	63.651	63.651	0.047	0.0	0.0	0.0
1408	63.648	63.648	0.044	0.0	0.0	0.0
1424	63.646	63.646	0.042	0.0	0.0	0.0
1440	63.643	63.643	0.039	0.0	0.0	0.0
1456	63.641	63.641	0.037	0.0	0.0	0.0
1472	63.638	63.638	0.034	0.0	0.0	0.0
1488	63.636	63.636	0.032	0.0	0.0	0.0
1504	63.634	63.634	0.030	0.0	0.0	0.0
1520	63.631	63.631	0.027	0.0	0.0	0.0
1536	63.629	63.629	0.025	0.0	0.0	0.0
1552	63.626	63.626	0.022	0.0	0.0	0.0
1568	63.623	63.623	0.019	0.0	0.0	0.0
1584	63.621	63.621	0.016	0.0	0.0	0.0
1600	63.618	63.619	0.014	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
960 minute 100 year winter
Average Rainfall Intensity 5.233 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)
1616	63.616	63.616	0.012	0.0	0.0	0.0
1632	63.613	63.613	0.009	0.0	0.0	0.0
1648	63.611	63.611	0.007	0.0	0.0	0.0
1664	63.609	63.609	0.005	0.0	0.0	0.0
1680	63.606	63.607	0.002	0.0	0.0	0.0
1696	63.604	63.604	0.000	0.0	0.0	0.0
1712	63.602	63.602	-0.002	0.0	0.0	0.0
1728	63.599	63.599	-0.005	0.0	0.0	0.0
1744	63.596	63.596	-0.008	0.0	0.0	0.0
1760	63.594	63.594	-0.010	0.0	0.0	0.0
1776	63.591	63.592	-0.013	0.0	0.0	0.0
1792	63.588	63.589	-0.016	0.0	0.0	0.0
1808	63.587	63.587	-0.017	0.0	0.0	0.0
1824	63.585	63.584	-0.020	0.0	0.0	0.0
1840	63.582	63.582	-0.022	0.0	0.0	0.0
1856	63.579	63.579	-0.025	0.0	0.0	0.0
1872	63.577	63.577	-0.028	0.0	0.0	0.0
1888	63.575	63.575	-0.029	0.0	0.0	0.0
1904	63.572	63.573	-0.032	0.0	0.0	0.0
1920	63.570	63.570	-0.034	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
960 minute 100 year winter
Average Rainfall Intensity 5.233 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)
816	65.401	65.001	-0.109	0.0	0.2	0.0
832	65.401	65.001	-0.109	0.0	0.2	0.0
848	65.401	65.001	-0.109	0.0	0.2	0.0
864	65.401	65.001	-0.109	0.0	0.2	0.0
880	65.401	65.001	-0.109	0.0	0.2	0.0
896	65.401	65.001	-0.109	0.0	0.1	0.0
912	65.401	65.001	-0.109	0.0	0.1	0.0
928	65.401	65.001	-0.109	0.0	0.1	0.0
944	65.400	65.001	-0.110	0.0	0.1	0.0
960	65.400	65.000	-0.110	0.0	0.0	0.0
976	65.400	65.000	-0.110	0.0	0.0	0.0
992	65.400	65.000	-0.110	0.0	0.0	0.0
1008	65.400	65.000	-0.110	0.0	0.0	0.0
1024	65.400	65.000	-0.110	0.0	0.0	0.0
1040	65.400	65.000	-0.110	0.0	0.0	0.0
1056	65.400	65.000	-0.110	0.0	0.0	0.0
1072	65.400	65.000	-0.110	0.0	0.0	0.0
1088	65.400	65.000	-0.110	0.0	0.0	0.0
1104	65.400	65.000	-0.110	0.0	0.0	0.0
1120	65.400	65.000	-0.110	0.0	0.0	0.0
1136	65.400	65.000	-0.110	0.0	0.0	0.0
1152	65.400	65.000	-0.110	0.0	0.0	0.0
1168	65.400	65.000	-0.110	0.0	0.0	0.0
1184	65.400	65.000	-0.110	0.0	0.0	0.0
1200	65.400	65.000	-0.110	0.0	0.0	0.0
1216	65.400	65.000	-0.110	0.0	0.0	0.0
1232	65.400	65.000	-0.110	0.0	0.0	0.0
1248	65.400	65.000	-0.110	0.0	0.0	0.0
1264	65.400	65.000	-0.110	0.0	0.0	0.0
1280	65.400	65.000	-0.110	0.0	0.0	0.0
1296	65.400	65.000	-0.110	0.0	0.0	0.0
1312	65.400	65.000	-0.110	0.0	0.0	0.0
1328	65.400	65.000	-0.110	0.0	0.0	0.0
1344	65.400	65.000	-0.110	0.0	0.0	0.0
1360	65.400	65.000	-0.110	0.0	0.0	0.0
1376	65.400	65.000	-0.110	0.0	0.0	0.0
1392	65.400	65.000	-0.110	0.0	0.0	0.0
1408	65.400	65.000	-0.110	0.0	0.0	0.0
1424	65.400	65.000	-0.110	0.0	0.0	0.0
1440	65.400	65.000	-0.110	0.0	0.0	0.0
1456	65.400	65.000	-0.110	0.0	0.0	0.0
1472	65.400	65.000	-0.110	0.0	0.0	0.0
1488	65.400	65.000	-0.110	0.0	0.0	0.0
1504	65.400	65.000	-0.110	0.0	0.0	0.0
1520	65.400	65.000	-0.110	0.0	0.0	0.0
1536	65.400	65.000	-0.110	0.0	0.0	0.0
1552	65.400	65.000	-0.110	0.0	0.0	0.0
1568	65.400	65.000	-0.110	0.0	0.0	0.0
1584	65.400	65.000	-0.110	0.0	0.0	0.0
1600	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)
960 minute 100 year winter
Average Rainfall Intensity 5.233 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)
1616	65.400	65.000	-0.110	0.0	0.0	0.0
1632	65.400	65.000	-0.110	0.0	0.0	0.0
1648	65.400	65.000	-0.110	0.0	0.0	0.0
1664	65.400	65.000	-0.110	0.0	0.0	0.0
1680	65.400	65.000	-0.110	0.0	0.0	0.0
1696	65.400	65.000	-0.110	0.0	0.0	0.0
1712	65.400	65.000	-0.110	0.0	0.0	0.0
1728	65.400	65.000	-0.110	0.0	0.0	0.0
1744	65.400	65.000	-0.110	0.0	0.0	0.0
1760	65.400	65.000	-0.110	0.0	0.0	0.0
1776	65.400	65.000	-0.110	0.0	0.0	0.0
1792	65.400	65.000	-0.110	0.0	0.0	0.0
1808	65.400	65.000	-0.110	0.0	0.0	0.0
1824	65.400	65.000	-0.110	0.0	0.0	0.0
1840	65.400	65.000	-0.110	0.0	0.0	0.0
1856	65.400	65.000	-0.110	0.0	0.0	0.0
1872	65.400	65.000	-0.110	0.0	0.0	0.0
1888	65.400	65.000	-0.110	0.0	0.0	0.0
1904	65.400	65.000	-0.110	0.0	0.0	0.0
1920	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)
960 minute 100 year winter
Average Rainfall Intensity 5.233 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)
1616	65.000	63.616	-0.110	0.0	0.0	0.0
1632	65.000	63.613	-0.110	0.0	0.0	0.0
1648	65.000	63.611	-0.110	0.0	0.0	0.0
1664	65.000	63.609	-0.110	0.0	0.0	0.0
1680	65.000	63.607	-0.110	0.0	0.0	0.0
1696	65.000	63.604	-0.110	0.0	0.0	0.0
1712	65.000	63.602	-0.110	0.0	0.0	0.0
1728	65.000	63.599	-0.110	0.0	0.0	0.0
1744	65.000	63.596	-0.110	0.0	0.0	0.0
1760	65.000	63.594	-0.110	0.0	0.0	0.0
1776	65.000	63.592	-0.110	0.0	0.0	0.0
1792	65.000	63.589	-0.110	0.0	0.0	0.0
1808	65.000	63.587	-0.110	0.0	0.0	0.0
1824	65.000	63.584	-0.110	0.0	0.0	0.0
1840	65.000	63.582	-0.110	0.0	0.0	0.0
1856	65.000	63.579	-0.110	0.0	0.0	0.0
1872	65.000	63.577	-0.110	0.0	0.0	0.0
1888	65.000	63.575	-0.110	0.0	0.0	0.0
1904	65.000	63.573	-0.110	0.0	0.0	0.0
1920	65.000	63.570	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
960 minute 100 year winter
Average Rainfall Intensity 5.233 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)
816	63.799	63.798	0.245	0.0	0.0	0.1
832	63.776	63.774	0.222	0.0	0.0	0.2
848	63.745	63.738	0.191	0.0	0.0	0.2
864	63.835	63.833	0.280	0.0	0.0	0.2
880	63.813	63.813	0.259	0.0	0.0	0.2
896	63.799	63.799	0.245	0.0	0.0	0.2
912	63.789	63.789	0.235	0.0	0.0	0.1
928	63.763	63.761	0.208	0.0	0.0	0.1
944	63.752	63.752	0.198	0.0	0.0	0.1
960	63.738	63.738	0.184	0.0	0.0	0.0
976	63.730	63.730	0.176	0.0	0.0	0.0
992	63.725	63.725	0.171	0.0	0.0	0.0
1008	63.721	63.722	0.167	0.0	0.0	0.0
1024	63.719	63.719	0.164	0.0	0.0	0.0
1040	63.716	63.716	0.162	0.0	0.0	0.0
1056	63.715	63.715	0.161	0.0	0.0	0.0
1072	63.713	63.713	0.159	0.0	0.0	0.0
1088	63.711	63.712	0.157	0.0	0.0	0.0
1104	63.710	63.710	0.156	0.0	0.0	0.0
1120	63.707	63.707	0.153	0.0	0.0	0.0
1136	63.703	63.703	0.149	0.0	0.0	0.0
1152	63.699	63.699	0.145	0.0	0.0	0.0
1168	63.695	63.695	0.141	0.0	0.0	0.0
1184	63.691	63.691	0.137	0.0	0.0	0.0
1200	63.687	63.687	0.133	0.0	0.0	0.0
1216	63.684	63.684	0.130	0.0	0.0	0.0
1232	63.680	63.680	0.126	0.0	0.0	0.0
1248	63.677	63.677	0.123	0.0	0.0	0.0
1264	63.674	63.673	0.119	0.0	0.0	0.0
1280	63.670	63.670	0.116	0.0	0.0	0.0
1296	63.667	63.667	0.113	0.0	0.0	0.0
1312	63.664	63.664	0.110	0.0	0.0	0.0
1328	63.661	63.662	0.107	0.0	0.0	0.0
1344	63.659	63.659	0.105	0.0	0.0	0.0
1360	63.656	63.656	0.102	0.0	0.0	0.0
1376	63.654	63.653	0.099	0.0	0.0	0.0
1392	63.651	63.651	0.097	0.0	0.0	0.0
1408	63.648	63.648	0.094	0.0	0.0	0.0
1424	63.646	63.646	0.092	0.0	0.0	0.0
1440	63.643	63.643	0.089	0.0	0.0	0.0
1456	63.641	63.641	0.087	0.0	0.0	0.0
1472	63.638	63.638	0.084	0.0	0.0	0.0
1488	63.636	63.636	0.082	0.0	0.0	0.0
1504	63.634	63.634	0.080	0.0	0.0	0.0
1520	63.631	63.631	0.077	0.0	0.0	0.0
1536	63.629	63.629	0.075	0.0	0.0	0.0
1552	63.626	63.626	0.072	0.0	0.0	0.0
1568	63.623	63.624	0.069	0.0	0.0	0.0
1584	63.621	63.621	0.067	0.0	0.0	0.0
1600	63.619	63.619	0.065	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
960 minute 100 year winter
Average Rainfall Intensity 5.233 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)
1616	63.616	63.616	0.062	0.0	0.0	0.0
1632	63.613	63.614	0.059	0.0	0.0	0.0
1648	63.611	63.611	0.057	0.0	0.0	0.0
1664	63.609	63.609	0.055	0.0	0.0	0.0
1680	63.607	63.606	0.052	0.0	0.0	0.0
1696	63.604	63.604	0.050	0.0	0.0	0.0
1712	63.602	63.602	0.048	0.0	0.0	0.0
1728	63.599	63.599	0.045	0.0	0.0	0.0
1744	63.596	63.597	0.042	0.0	0.0	0.0
1760	63.594	63.594	0.040	0.0	0.0	0.0
1776	63.592	63.592	0.038	0.0	0.0	0.0
1792	63.589	63.589	0.035	0.0	0.0	0.0
1808	63.587	63.587	0.033	0.0	0.0	0.0
1824	63.584	63.585	0.030	0.0	0.0	0.0
1840	63.582	63.582	0.028	0.0	0.0	0.0
1856	63.579	63.580	0.025	0.0	0.0	0.0
1872	63.577	63.577	0.023	0.0	0.0	0.0
1888	63.575	63.575	0.021	0.0	0.0	0.0
1904	63.573	63.573	0.019	0.0	0.0	0.0
1920	63.570	63.570	0.016	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
960 minute 100 year winter
Average Rainfall Intensity 5.233 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)
816	63.798	63.700	0.438	0.0	0.0	0.1
832	63.774	63.700	0.414	0.0	0.0	0.1
848	63.738	63.700	0.378	0.0	0.0	0.1
864	63.833	63.700	0.473	0.0	0.0	0.2
880	63.813	63.700	0.453	0.0	0.0	0.2
896	63.799	63.700	0.439	0.0	0.0	0.2
912	63.789	63.701	0.429	0.0	0.0	0.1
928	63.761	63.701	0.401	0.0	0.0	0.1
944	63.752	63.701	0.392	0.0	0.0	0.1
960	63.738	63.701	0.378	0.0	0.0	0.1
976	63.730	63.700	0.370	0.0	0.0	0.1
992	63.725	63.700	0.365	0.0	0.0	0.0
1008	63.722	63.700	0.362	0.0	0.0	0.0
1024	63.719	63.700	0.359	0.0	0.0	0.0
1040	63.716	63.700	0.356	0.0	0.0	0.0
1056	63.715	63.700	0.355	0.0	0.0	0.0
1072	63.713	63.700	0.353	0.0	0.0	0.0
1088	63.712	63.700	0.352	0.0	0.0	0.0
1104	63.710	63.694	0.350	0.0	0.0	0.0
1120	63.707	63.674	0.347	0.0	0.0	0.0
1136	63.703	63.663	0.343	0.0	0.0	0.1
1152	63.699	63.655	0.339	0.0	0.0	0.1
1168	63.695	63.648	0.335	0.0	0.0	0.1
1184	63.691	63.643	0.331	0.0	0.0	0.1
1200	63.687	63.638	0.327	0.0	0.0	0.1
1216	63.684	63.634	0.324	0.0	0.0	0.1
1232	63.680	63.630	0.320	0.0	0.0	0.1
1248	63.677	63.626	0.317	0.0	0.0	0.1
1264	63.673	63.623	0.313	0.0	0.0	0.1
1280	63.670	63.620	0.310	0.0	0.0	0.1
1296	63.667	63.616	0.307	0.0	0.0	0.1
1312	63.664	63.613	0.304	0.0	0.0	0.1
1328	63.662	63.610	0.302	0.0	0.0	0.1
1344	63.659	63.608	0.299	0.0	0.0	0.1
1360	63.656	63.605	0.296	0.0	0.0	0.1
1376	63.653	63.602	0.293	0.0	0.0	0.1
1392	63.651	63.599	0.291	0.0	0.0	0.1
1408	63.648	63.597	0.288	0.0	0.0	0.1
1424	63.646	63.594	0.286	0.0	0.0	0.1
1440	63.643	63.592	0.283	0.0	0.0	0.1
1456	63.641	63.590	0.281	0.0	0.0	0.1
1472	63.638	63.587	0.278	0.0	0.0	0.1
1488	63.636	63.585	0.276	0.0	0.0	0.1
1504	63.634	63.583	0.274	0.0	0.0	0.1
1520	63.631	63.580	0.271	0.0	0.0	0.1
1536	63.629	63.578	0.269	0.0	0.0	0.1
1552	63.626	63.576	0.266	0.0	0.0	0.1
1568	63.624	63.573	0.264	0.0	0.0	0.1
1584	63.621	63.571	0.261	0.0	0.0	0.1
1600	63.619	63.568	0.259	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
960 minute 100 year winter
Average Rainfall Intensity 5.233 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)
1616	63.616	63.566	0.256	0.0	0.0	0.1
1632	63.614	63.563	0.254	0.0	0.0	0.1
1648	63.611	63.561	0.251	0.0	0.0	0.1
1664	63.609	63.559	0.249	0.0	0.0	0.1
1680	63.606	63.556	0.246	0.0	0.0	0.1
1696	63.604	63.554	0.244	0.0	0.0	0.1
1712	63.602	63.552	0.242	0.0	0.0	0.1
1728	63.599	63.549	0.239	0.0	0.0	0.1
1744	63.597	63.547	0.237	0.0	0.0	0.1
1760	63.594	63.544	0.234	0.0	0.0	0.1
1776	63.592	63.542	0.232	0.0	0.0	0.1
1792	63.589	63.540	0.229	0.0	0.0	0.1
1808	63.587	63.537	0.227	0.0	0.0	0.1
1824	63.585	63.535	0.225	0.0	0.0	0.1
1840	63.582	63.533	0.222	0.0	0.0	0.1
1856	63.580	63.530	0.220	0.0	0.0	0.1
1872	63.577	63.528	0.217	0.0	0.0	0.1
1888	63.575	63.526	0.215	0.0	0.0	0.1
1904	63.573	63.524	0.213	0.0	0.0	0.1
1920	63.570	63.521	0.210	0.0	0.0	0.1

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Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
960 minute 100 year Winter
Average Rainfall Intensity 5.233 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)
16	63.100	63.096	-0.110	0.0	0.0	0.0
32	63.100	63.096	-0.110	0.0	0.0	0.0
48	63.101	63.096	-0.109	0.0	0.0	0.0
64	63.103	63.096	-0.107	0.0	0.0	0.0
80	63.107	63.096	-0.103	0.0	0.0	0.0
96	63.113	63.096	-0.097	0.0	0.0	0.0
112	63.121	63.096	-0.089	0.0	0.0	0.0
128	63.130	63.096	-0.080	0.0	0.0	0.0
144	63.141	63.096	-0.069	0.0	0.0	0.0
160	63.150	63.096	-0.060	0.0	0.0	0.0
176	63.158	63.096	-0.052	0.0	0.0	0.0
192	63.168	63.096	-0.042	0.0	0.0	0.0
208	63.180	63.096	-0.030	0.0	0.0	0.0
224	63.192	63.096	-0.018	0.0	0.0	0.0
240	63.206	63.096	-0.004	0.0	0.0	0.0
256	63.221	63.096	0.011	0.0	0.0	0.0
272	63.238	63.096	0.028	0.0	0.0	0.0
288	63.250	63.096	0.040	0.0	0.0	0.0
304	63.251	63.096	0.041	0.0	0.0	0.0
320	63.252	63.096	0.042	0.0	0.0	0.0
336	63.256	63.096	0.046	0.0	0.0	0.0
352	63.262	63.096	0.052	0.0	0.0	0.0
368	63.270	63.096	0.060	0.0	0.0	0.0
384	63.264	63.096	0.054	0.0	0.0	0.0
400	63.265	63.096	0.055	0.0	0.0	0.0
416	63.277	63.096	0.067	0.0	0.0	0.0
432	63.297	63.096	0.087	0.0	0.0	0.0
448	63.326	63.096	0.116	0.0	0.0	0.0
464	63.360	63.096	0.150	0.0	0.1	0.0
480	63.390	63.096	0.180	0.0	0.1	0.0
496	63.418	63.096	0.208	0.0	0.1	0.0
512	63.443	63.096	0.233	0.0	0.1	0.0
528	63.466	63.096	0.256	0.0	0.1	0.0
544	63.488	63.096	0.278	0.0	0.1	0.0
560	63.509	63.096	0.299	0.0	0.1	0.0
576	63.528	63.096	0.318	0.0	0.1	0.0
592	63.545	63.096	0.335	0.0	0.1	0.0
608	63.561	63.096	0.351	0.0	0.1	0.0
624	63.575	63.096	0.365	0.0	0.1	0.0
640	63.588	63.096	0.378	0.0	0.1	0.0
656	63.600	63.096	0.390	0.0	0.1	0.0
672	63.612	63.096	0.402	0.0	0.1	0.0
688	63.623	63.096	0.413	0.0	0.1	0.0
704	63.633	63.096	0.423	0.0	0.1	0.0
720	63.644	63.096	0.434	0.0	0.1	0.0
736	63.654	63.096	0.444	0.0	0.1	0.0
752	63.665	63.096	0.455	0.0	0.1	0.0
768	63.680	63.096	0.470	0.0	0.1	0.0
784	63.697	63.096	0.487	0.0	0.1	0.0
800	63.700	63.096	0.490	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
960 minute 100 year winter
Average Rainfall Intensity 5.233 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)
816	63.700	63.096	0.490	0.0	0.1	0.0
832	63.700	63.096	0.490	0.0	0.1	0.0
848	63.700	63.096	0.490	0.0	0.1	0.0
864	63.700	63.096	0.490	0.0	0.1	0.0
880	63.700	63.096	0.490	0.0	0.1	0.0
896	63.700	63.096	0.490	0.0	0.1	0.0
912	63.701	63.096	0.491	0.0	0.1	0.0
928	63.701	63.096	0.491	0.0	0.1	0.0
944	63.701	63.096	0.491	0.0	0.1	0.0
960	63.701	63.096	0.491	0.0	0.1	0.0
976	63.700	63.096	0.490	0.0	0.1	0.0
992	63.700	63.096	0.490	0.0	0.1	0.0
1008	63.700	63.096	0.490	0.0	0.1	0.0
1024	63.700	63.096	0.490	0.0	0.1	0.0
1040	63.700	63.096	0.490	0.0	0.1	0.0
1056	63.700	63.096	0.490	0.0	0.1	0.0
1072	63.700	63.096	0.490	0.0	0.1	0.0
1088	63.700	63.096	0.490	0.0	0.1	0.0
1104	63.694	63.096	0.484	0.0	0.1	0.0
1120	63.674	63.096	0.464	0.0	0.1	0.0
1136	63.663	63.096	0.453	0.0	0.1	0.0
1152	63.655	63.096	0.445	0.0	0.1	0.0
1168	63.648	63.096	0.438	0.0	0.1	0.0
1184	63.643	63.096	0.433	0.0	0.1	0.0
1200	63.638	63.096	0.428	0.0	0.1	0.0
1216	63.634	63.096	0.424	0.0	0.1	0.0
1232	63.630	63.096	0.420	0.0	0.1	0.0
1248	63.626	63.096	0.416	0.0	0.1	0.0
1264	63.623	63.096	0.413	0.0	0.1	0.0
1280	63.620	63.096	0.410	0.0	0.1	0.0
1296	63.616	63.096	0.406	0.0	0.1	0.0
1312	63.613	63.096	0.403	0.0	0.1	0.0
1328	63.610	63.096	0.400	0.0	0.1	0.0
1344	63.608	63.096	0.398	0.0	0.1	0.0
1360	63.605	63.096	0.395	0.0	0.1	0.0
1376	63.602	63.096	0.392	0.0	0.1	0.0
1392	63.599	63.096	0.389	0.0	0.1	0.0
1408	63.597	63.096	0.387	0.0	0.1	0.0
1424	63.594	63.096	0.384	0.0	0.1	0.0
1440	63.592	63.096	0.382	0.0	0.1	0.0
1456	63.590	63.096	0.380	0.0	0.1	0.0
1472	63.587	63.096	0.377	0.0	0.1	0.0
1488	63.585	63.096	0.375	0.0	0.1	0.0
1504	63.583	63.096	0.373	0.0	0.1	0.0
1520	63.580	63.096	0.370	0.0	0.1	0.0
1536	63.578	63.096	0.368	0.0	0.1	0.0
1552	63.576	63.096	0.366	0.0	0.1	0.0
1568	63.573	63.096	0.363	0.0	0.1	0.0
1584	63.571	63.096	0.361	0.0	0.1	0.0
1600	63.568	63.096	0.358	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
960 minute 100 year winter
Average Rainfall Intensity 5.233 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)
1616	63.566	63.096	0.356	0.0	0.1	0.0
1632	63.563	63.096	0.353	0.0	0.1	0.0
1648	63.561	63.096	0.351	0.0	0.1	0.0
1664	63.559	63.096	0.349	0.0	0.1	0.0
1680	63.556	63.096	0.346	0.0	0.1	0.0
1696	63.554	63.096	0.344	0.0	0.1	0.0
1712	63.552	63.096	0.342	0.0	0.1	0.0
1728	63.549	63.096	0.339	0.0	0.1	0.0
1744	63.547	63.096	0.337	0.0	0.1	0.0
1760	63.544	63.096	0.334	0.0	0.1	0.0
1776	63.542	63.096	0.332	0.0	0.1	0.0
1792	63.540	63.096	0.330	0.0	0.1	0.0
1808	63.537	63.096	0.327	0.0	0.1	0.0
1824	63.535	63.096	0.325	0.0	0.1	0.0
1840	63.533	63.096	0.323	0.0	0.1	0.0
1856	63.530	63.096	0.320	0.0	0.1	0.0
1872	63.528	63.096	0.318	0.0	0.1	0.0
1888	63.526	63.096	0.316	0.0	0.1	0.0
1904	63.524	63.096	0.314	0.0	0.1	0.0
1920	63.521	63.096	0.311	0.0	0.1	0.0