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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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Elstree Computing Ltd	Network W.12.6	

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	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)	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 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	65.406	-0.104	0.000	0.01	0.0	0.3	OK
1.001	S1	63.793	0.189	0.000	0.09	0.0	0.6	SURCHARGED
2.000	RE2	65.408	-0.102	0.000	0.02	0.0	0.3	OK
2.001	S2	65.011	-0.099	0.000	0.02	0.0	0.6	OK
1.002	S3	63.793	0.239	0.000	0.17	0.0	1.2	SURCHARGED
1.003	S4	63.792	0.432	0.000	0.04	0.0	0.2	SURCHARGED
1.004	RAIN GARDEN	63.700	0.490	0.356	0.01	0.0	0.0	FLOOD

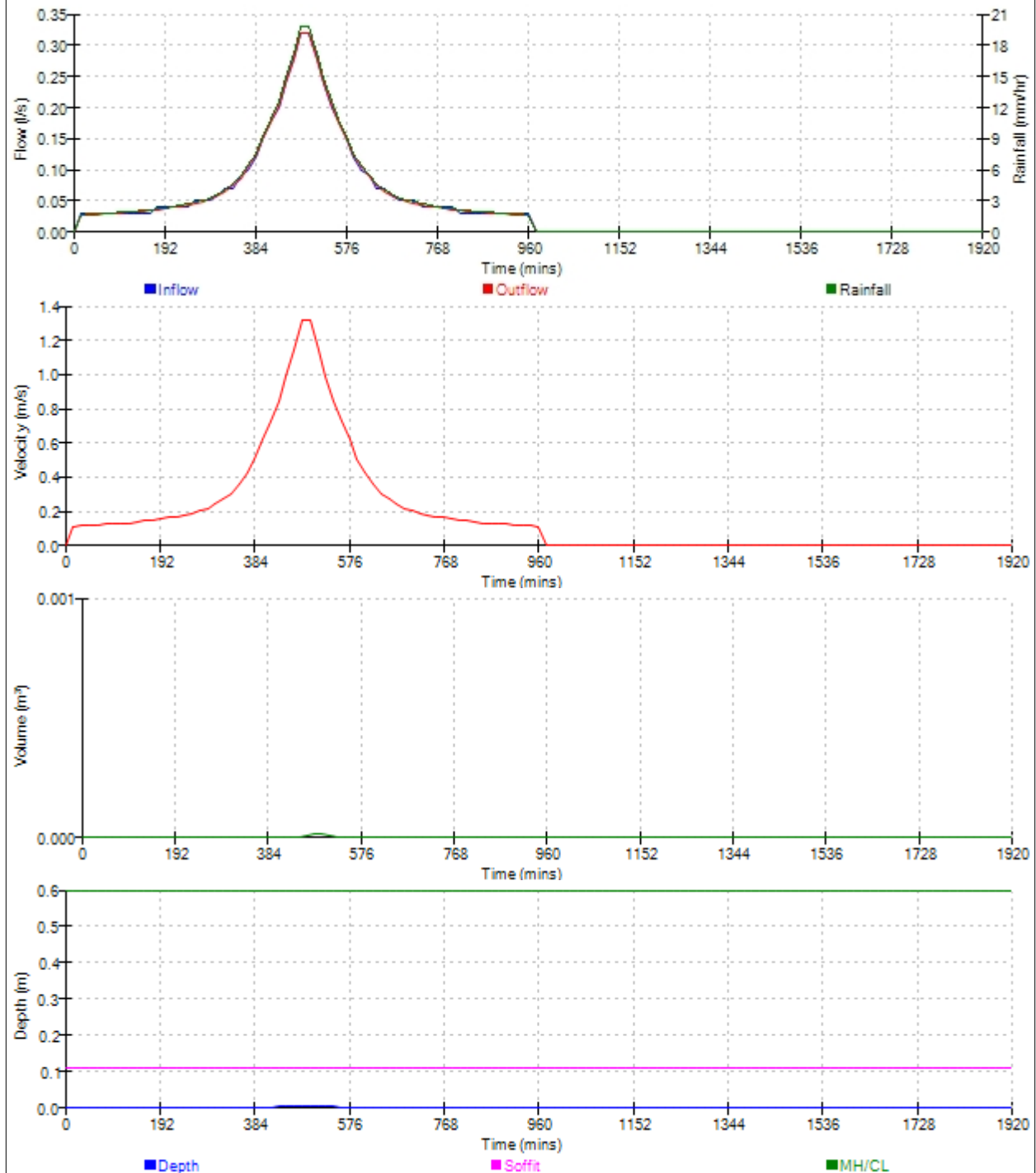
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Rainfall Hyetograph for 960 minute 100 year Summer (Storm)

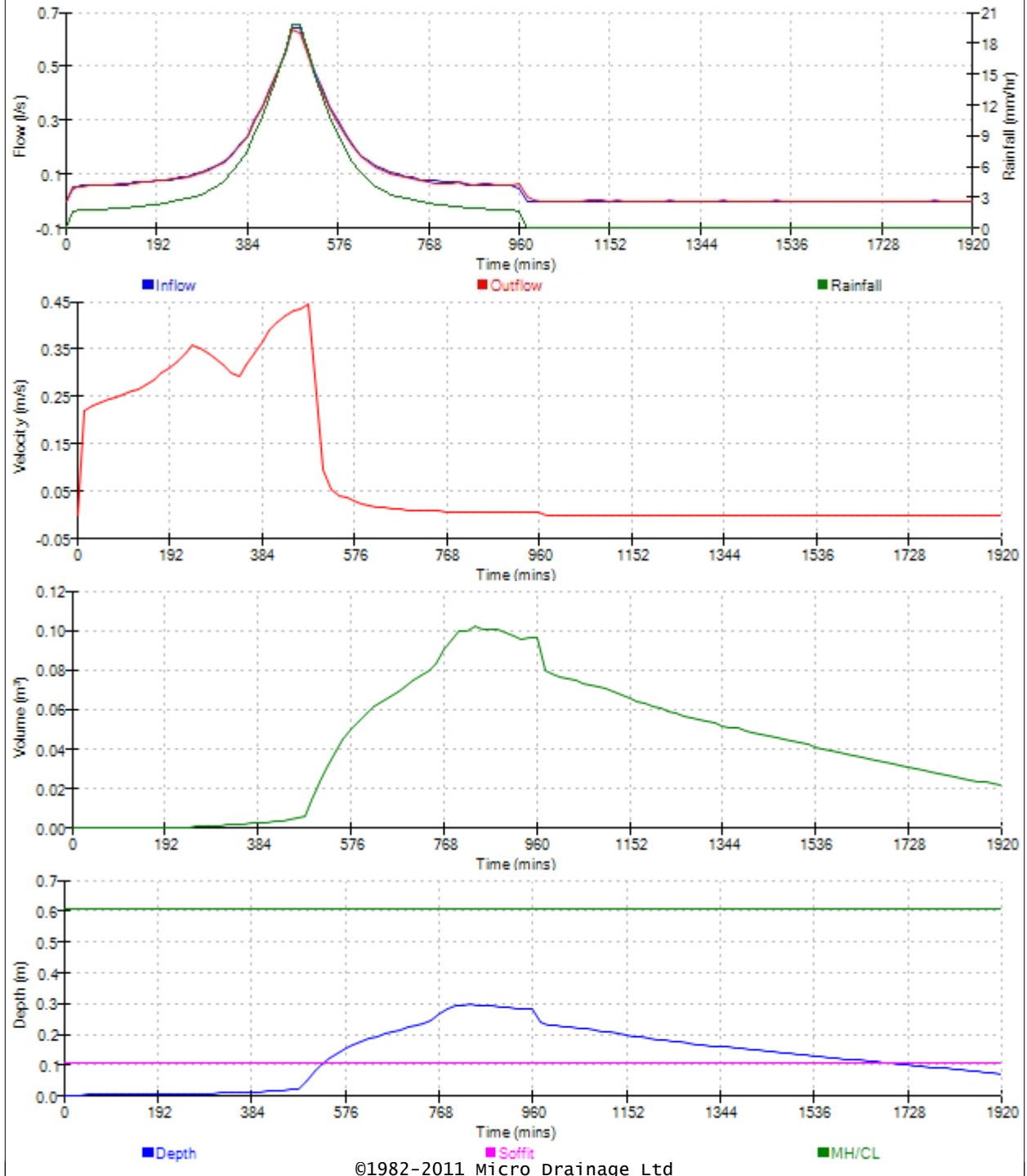
Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
16	1.695	208	2.449	400	9.272	592	7.619	784	2.334
32	1.737	224	2.575	416	10.884	608	6.436	800	2.250
48	1.779	240	2.700	432	12.621	624	5.411	816	2.166
64	1.831	256	2.868	448	14.882	640	4.615	832	2.072
80	1.873	272	3.045	464	17.184	656	4.082	848	1.999
96	1.915	288	3.286	480	19.801	672	3.642	864	1.957
112	1.957	304	3.642	496	19.801	688	3.286	880	1.915
128	1.999	320	4.082	512	17.184	704	3.046	896	1.873
144	2.072	336	4.615	528	14.882	720	2.868	912	1.831
160	2.166	352	5.411	544	12.621	736	2.700	928	1.779
176	2.250	368	6.436	560	10.884	752	2.575	944	1.737
192	2.334	384	7.619	576	9.273	768	2.449	960	1.695

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

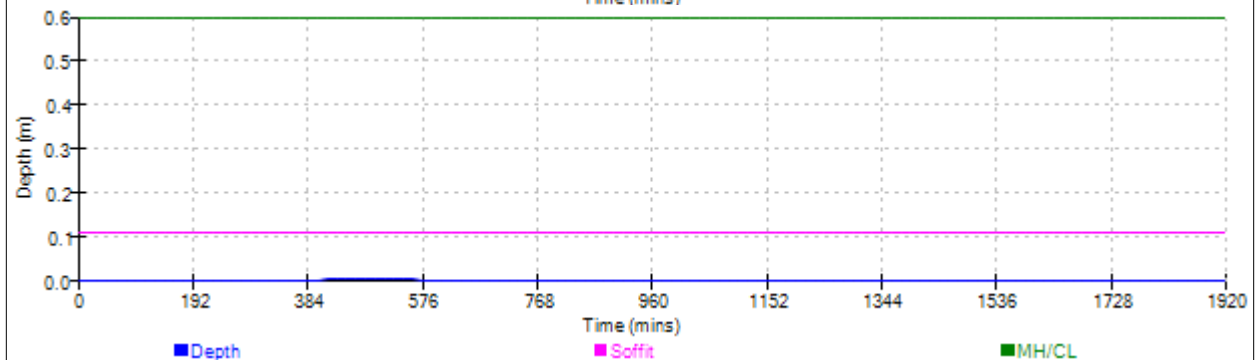
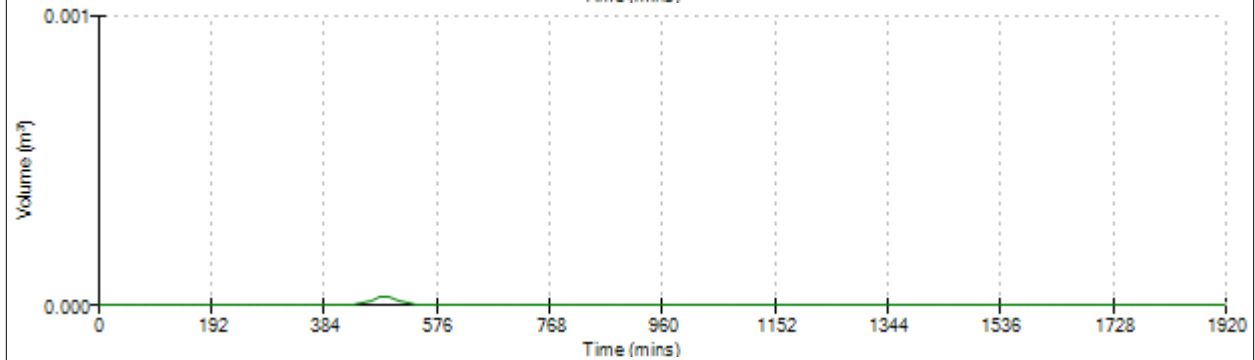
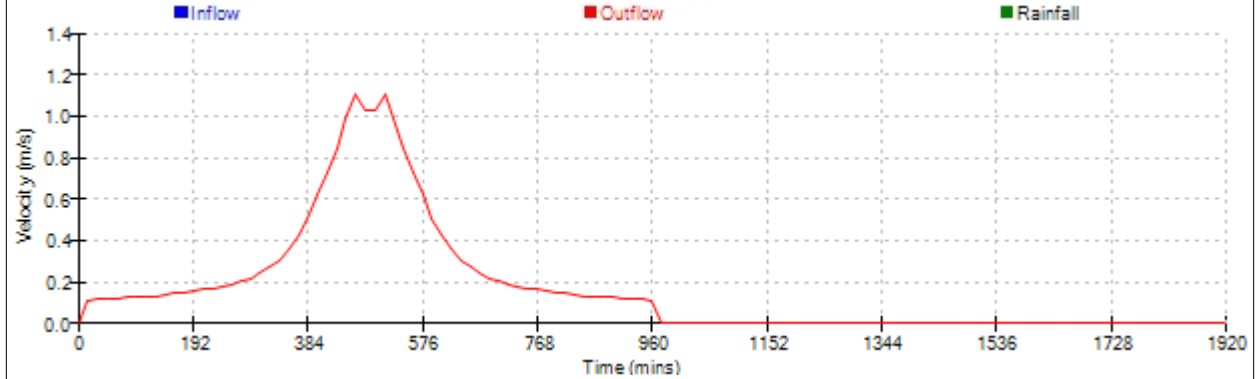
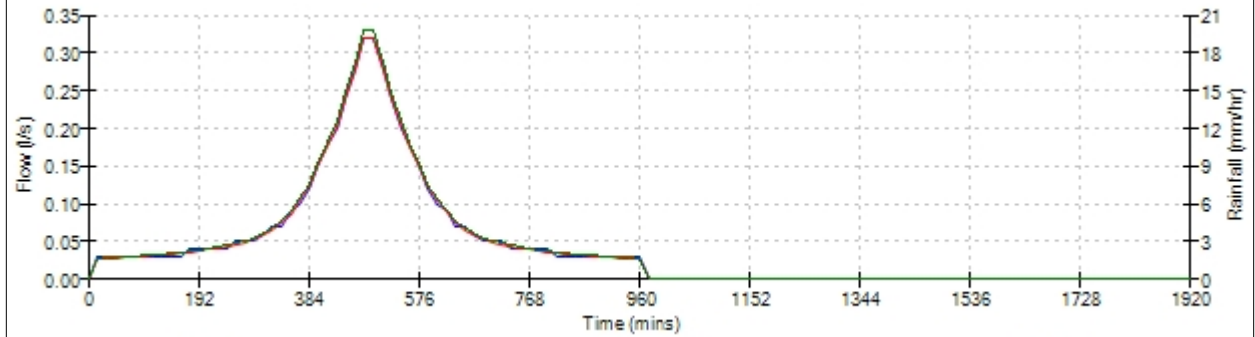


Graphs for Pipe 1.001 US/MH S1 (Storm)
960 minute 100 year Summer
Status: SURCHARGED



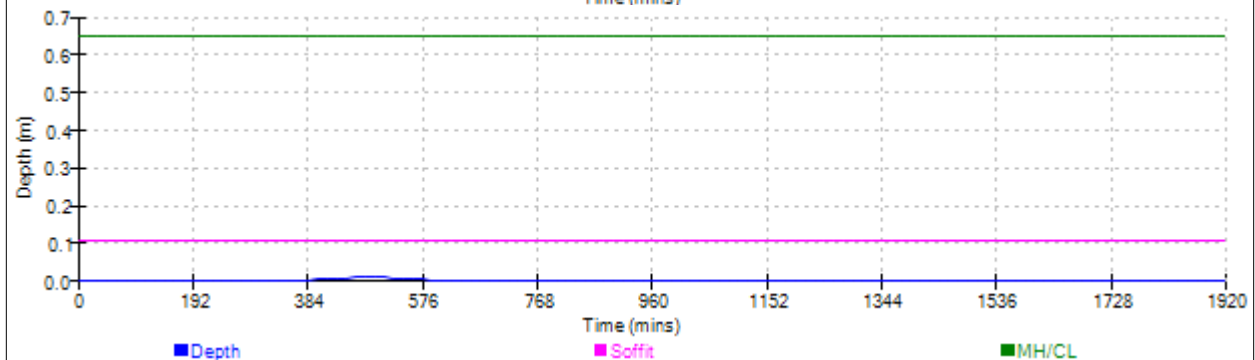
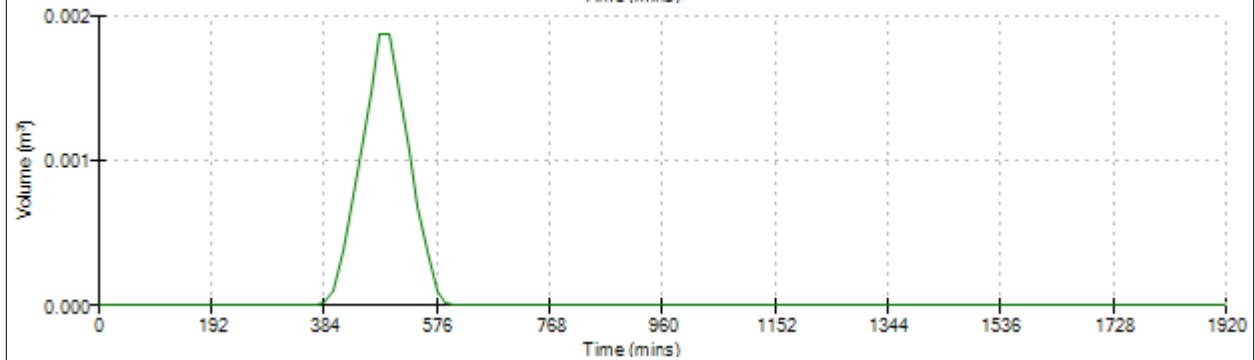
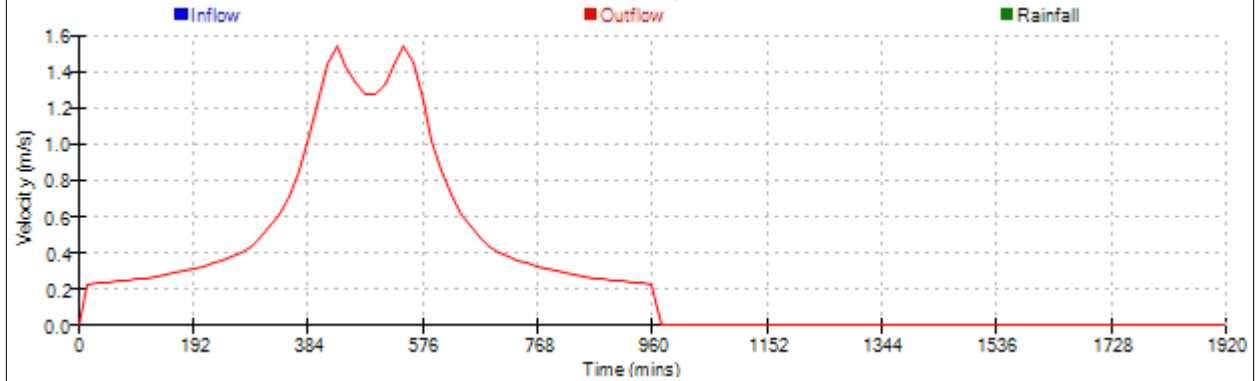
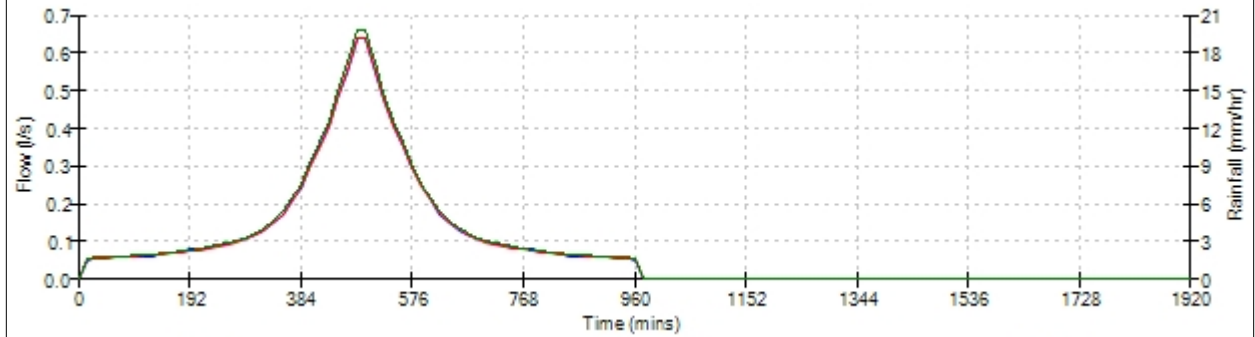
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
 960 minute 100 year Summer
 Status: OK

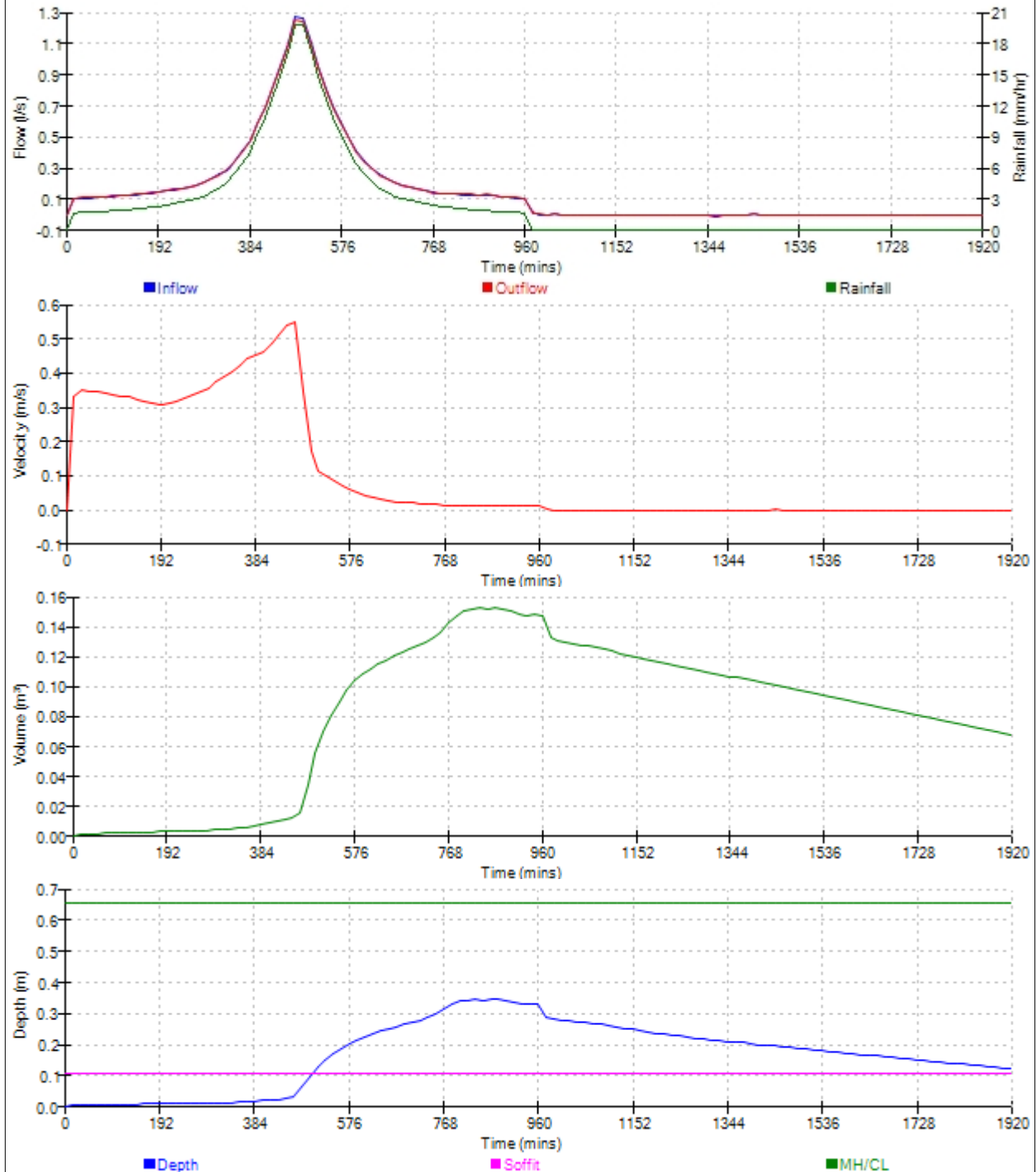


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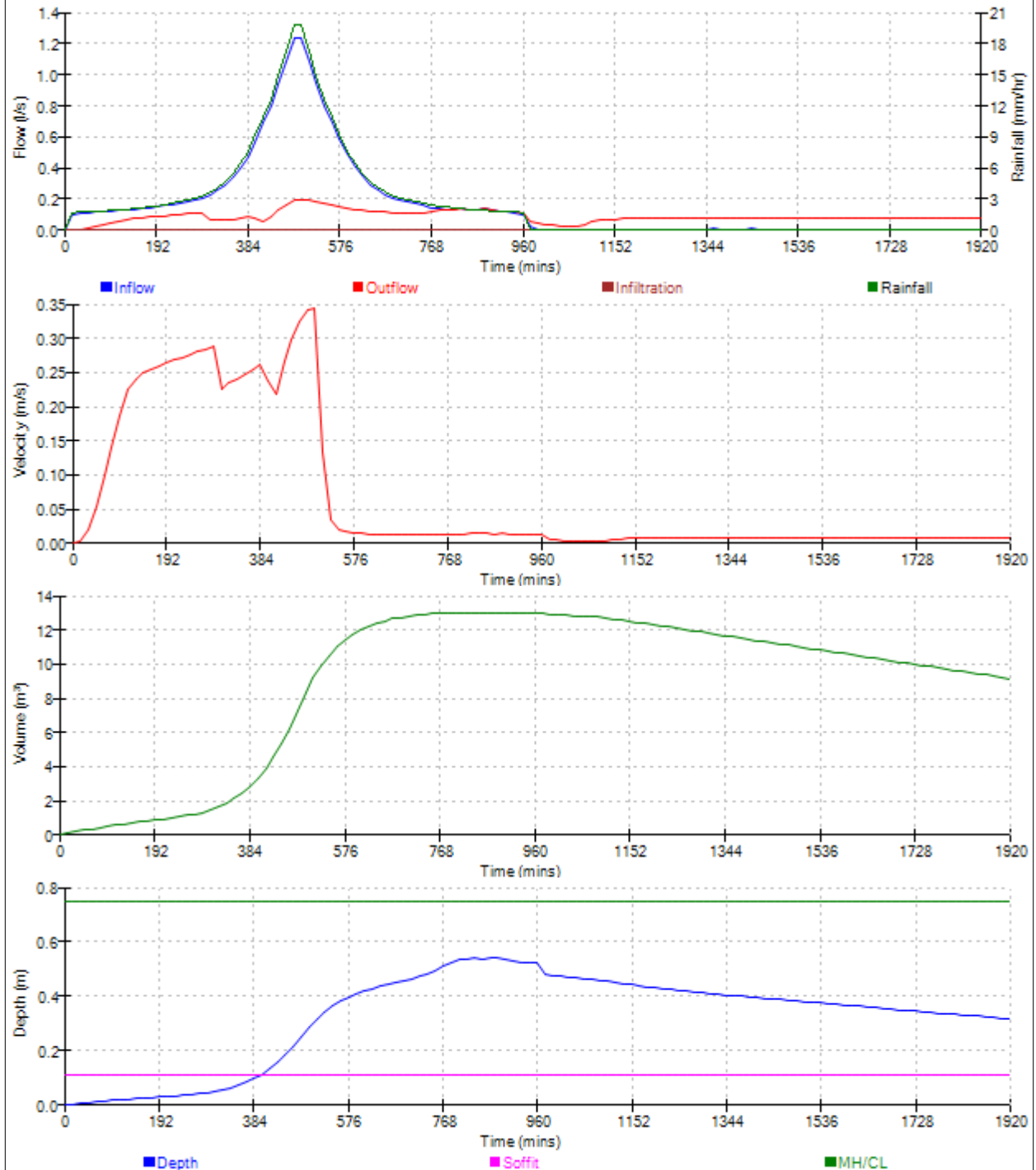
Graphs for Pipe 2.001 US/MH S2 (Storm)
 960 minute 100 year Summer
 Status: OK



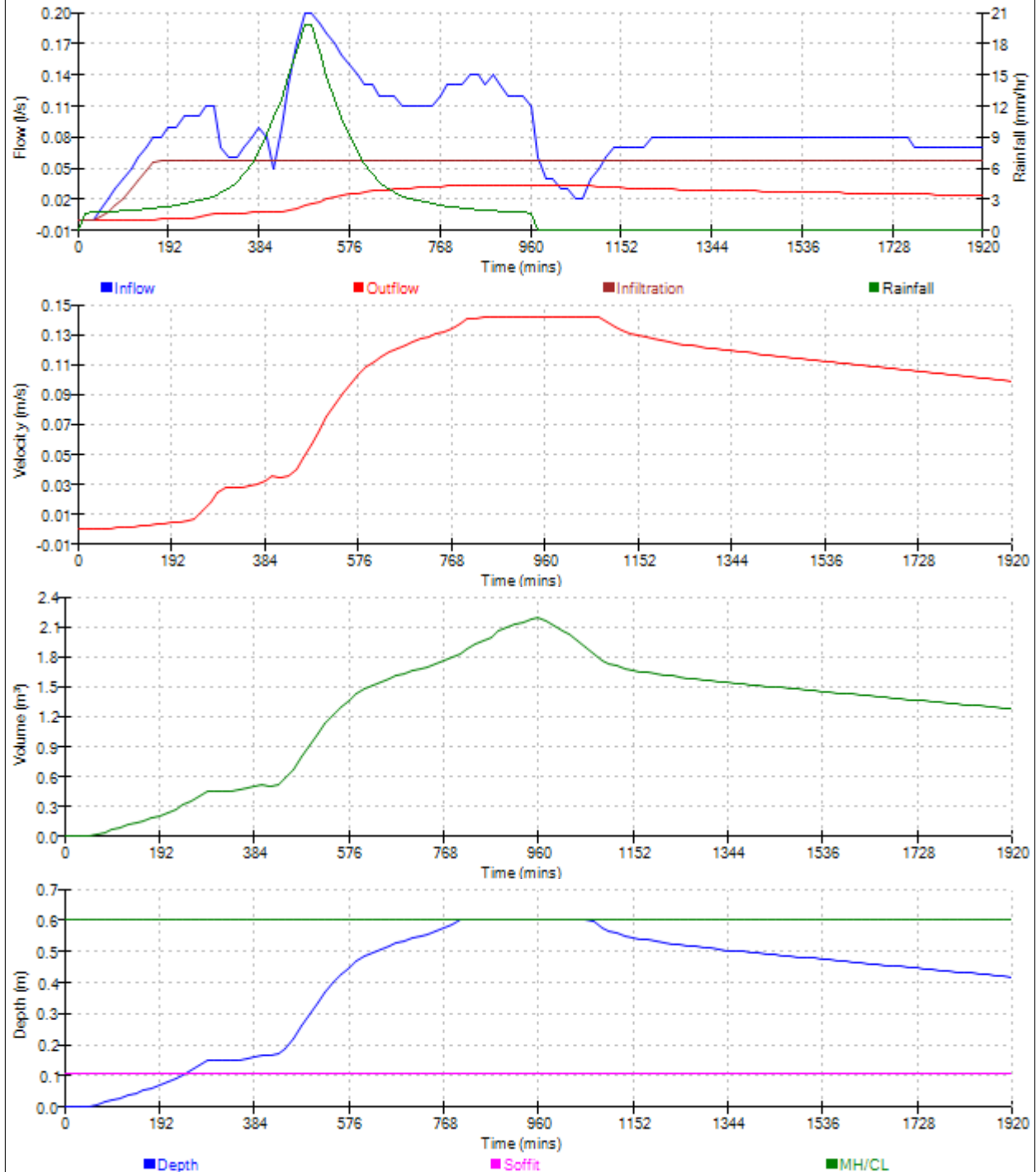
Graphs for Pipe 1.002 US/MH S3 (Storm)
960 minute 100 year Summer
Status: SURCHARGED



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



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



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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
960 minute 100 year Summer
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	65.401	63.498	-0.109	0.0	0.1	0.0
32	65.401	63.498	-0.109	0.0	0.1	0.0
48	65.401	63.499	-0.109	0.0	0.1	0.0
64	65.401	63.499	-0.109	0.0	0.1	0.0
80	65.401	63.499	-0.109	0.0	0.1	0.0
96	65.401	63.499	-0.109	0.0	0.1	0.0
112	65.401	63.499	-0.109	0.0	0.1	0.0
128	65.401	63.499	-0.109	0.0	0.1	0.0
144	65.401	63.499	-0.109	0.0	0.1	0.0
160	65.401	63.500	-0.109	0.0	0.1	0.0
176	65.401	63.500	-0.109	0.0	0.1	0.0
192	65.401	63.500	-0.109	0.0	0.2	0.0
208	65.401	63.500	-0.109	0.0	0.2	0.0
224	65.401	63.501	-0.109	0.0	0.2	0.0
240	65.401	63.501	-0.109	0.0	0.2	0.0
256	65.401	63.501	-0.109	0.0	0.2	0.0
272	65.401	63.502	-0.109	0.0	0.2	0.0
288	65.401	63.502	-0.109	0.0	0.2	0.1
304	65.401	63.503	-0.109	0.0	0.2	0.1
320	65.401	63.504	-0.109	0.0	0.3	0.1
336	65.402	63.505	-0.108	0.0	0.3	0.1
352	65.402	63.506	-0.108	0.0	0.4	0.1
368	65.402	63.507	-0.108	0.0	0.4	0.1
384	65.402	63.508	-0.108	0.0	0.5	0.1
400	65.403	63.509	-0.107	0.0	0.6	0.1
416	65.404	63.510	-0.106	0.0	0.7	0.2
432	65.404	63.512	-0.106	0.0	0.8	0.2
448	65.405	63.513	-0.105	0.0	1.0	0.2
464	65.406	63.515	-0.104	0.0	1.1	0.3
480	65.406	63.519	-0.104	0.0	1.3	0.3
496	65.406	63.544	-0.104	0.0	1.3	0.3
512	65.406	63.573	-0.104	0.0	1.1	0.3
528	65.405	63.598	-0.105	0.0	1.0	0.2
544	65.404	63.618	-0.106	0.0	0.8	0.2
560	65.404	63.635	-0.106	0.0	0.7	0.2
576	65.403	63.649	-0.107	0.0	0.6	0.1
592	65.402	63.661	-0.108	0.0	0.5	0.1
608	65.402	63.671	-0.108	0.0	0.4	0.1
624	65.402	63.680	-0.108	0.0	0.4	0.1
640	65.402	63.688	-0.108	0.0	0.3	0.1
656	65.401	63.696	-0.109	0.0	0.3	0.1
672	65.401	63.703	-0.109	0.0	0.2	0.1
688	65.401	63.710	-0.109	0.0	0.2	0.1
704	65.401	63.717	-0.109	0.0	0.2	0.0
720	65.401	63.724	-0.109	0.0	0.2	0.0
736	65.401	63.732	-0.109	0.0	0.2	0.0
752	65.401	63.742	-0.109	0.0	0.2	0.0
768	65.401	63.762	-0.109	0.0	0.2	0.0
784	65.401	63.775	-0.109	0.0	0.2	0.0
800	65.401	63.787	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
960 minute 100 year Summer
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	63.613	-0.110	0.0	0.0	0.0
1632	65.400	63.610	-0.110	0.0	0.0	0.0
1648	65.400	63.608	-0.110	0.0	0.0	0.0
1664	65.400	63.606	-0.110	0.0	0.0	0.0
1680	65.400	63.603	-0.110	0.0	0.0	0.0
1696	65.400	63.601	-0.110	0.0	0.0	0.0
1712	65.400	63.598	-0.110	0.0	0.0	0.0
1728	65.400	63.596	-0.110	0.0	0.0	0.0
1744	65.400	63.593	-0.110	0.0	0.0	0.0
1760	65.400	63.591	-0.110	0.0	0.0	0.0
1776	65.400	63.588	-0.110	0.0	0.0	0.0
1792	65.400	63.586	-0.110	0.0	0.0	0.0
1808	65.400	63.584	-0.110	0.0	0.0	0.0
1824	65.400	63.581	-0.110	0.0	0.0	0.0
1840	65.400	63.579	-0.110	0.0	0.0	0.0
1856	65.400	63.577	-0.110	0.0	0.0	0.0
1872	65.400	63.574	-0.110	0.0	0.0	0.0
1888	65.400	63.572	-0.110	0.0	0.0	0.0
1904	65.400	63.569	-0.110	0.0	0.0	0.0
1920	65.400	63.567	-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 Summer
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	63.787	63.788	0.183	0.0	0.0	0.1
832	63.793	63.793	0.189	0.0	0.0	0.1
848	63.788	63.788	0.184	0.0	0.0	0.1
864	63.789	63.791	0.184	0.0	0.0	0.1
880	63.790	63.790	0.186	0.0	0.0	0.1
896	63.784	63.784	0.180	0.0	0.0	0.1
912	63.780	63.780	0.176	0.0	0.0	0.1
928	63.775	63.775	0.171	0.0	0.0	0.1
944	63.777	63.777	0.173	0.0	0.0	0.1
960	63.778	63.776	0.174	0.0	0.0	0.1
976	63.732	63.732	0.128	0.0	0.0	0.0
992	63.726	63.727	0.122	0.0	0.0	0.0
1008	63.723	63.723	0.118	0.0	0.0	0.0
1024	63.720	63.720	0.115	0.0	0.0	0.0
1040	63.717	63.717	0.113	0.0	0.0	0.0
1056	63.714	63.715	0.110	0.0	0.0	0.0
1072	63.712	63.712	0.108	0.0	0.0	0.0
1088	63.709	63.710	0.105	0.0	0.0	0.0
1104	63.705	63.705	0.101	0.0	0.0	0.0
1120	63.701	63.701	0.097	0.0	0.0	0.0
1136	63.697	63.697	0.093	0.0	0.0	0.0
1152	63.693	63.693	0.089	0.0	0.0	0.0
1168	63.689	63.689	0.085	0.0	0.0	0.0
1184	63.685	63.685	0.081	0.0	0.0	0.0
1200	63.682	63.682	0.078	0.0	0.0	0.0
1216	63.678	63.678	0.074	0.0	0.0	0.0
1232	63.675	63.675	0.071	0.0	0.0	0.0
1248	63.672	63.672	0.068	0.0	0.0	0.0
1264	63.669	63.669	0.065	0.0	0.0	0.0
1280	63.666	63.666	0.061	0.0	0.0	0.0
1296	63.663	63.663	0.059	0.0	0.0	0.0
1312	63.660	63.660	0.056	0.0	0.0	0.0
1328	63.657	63.657	0.053	0.0	0.0	0.0
1344	63.655	63.655	0.051	0.0	0.0	0.0
1360	63.653	63.652	0.048	0.0	0.0	0.0
1376	63.651	63.651	0.047	0.0	0.0	0.0
1392	63.648	63.648	0.044	0.0	0.0	0.0
1408	63.645	63.645	0.041	0.0	0.0	0.0
1424	63.642	63.642	0.038	0.0	0.0	0.0
1440	63.640	63.640	0.036	0.0	0.0	0.0
1456	63.638	63.638	0.033	0.0	0.0	0.0
1472	63.635	63.635	0.031	0.0	0.0	0.0
1488	63.632	63.633	0.028	0.0	0.0	0.0
1504	63.630	63.630	0.026	0.0	0.0	0.0
1520	63.628	63.628	0.024	0.0	0.0	0.0
1536	63.625	63.625	0.021	0.0	0.0	0.0
1552	63.623	63.623	0.019	0.0	0.0	0.0
1568	63.620	63.620	0.016	0.0	0.0	0.0
1584	63.618	63.618	0.014	0.0	0.0	0.0
1600	63.615	63.615	0.011	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 Summer
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	63.613	63.613	0.009	0.0	0.0	0.0
1632	63.610	63.611	0.006	0.0	0.0	0.0
1648	63.608	63.608	0.004	0.0	0.0	0.0
1664	63.606	63.606	0.001	0.0	0.0	0.0
1680	63.603	63.603	-0.001	0.0	0.0	0.0
1696	63.601	63.601	-0.004	0.0	0.0	0.0
1712	63.598	63.598	-0.006	0.0	0.0	0.0
1728	63.596	63.596	-0.009	0.0	0.0	0.0
1744	63.593	63.593	-0.011	0.0	0.0	0.0
1760	63.591	63.591	-0.013	0.0	0.0	0.0
1776	63.588	63.589	-0.016	0.0	0.0	0.0
1792	63.586	63.586	-0.018	0.0	0.0	0.0
1808	63.584	63.584	-0.020	0.0	0.0	0.0
1824	63.581	63.581	-0.023	0.0	0.0	0.0
1840	63.579	63.579	-0.025	0.0	0.0	0.0
1856	63.577	63.577	-0.027	0.0	0.0	0.0
1872	63.574	63.574	-0.030	0.0	0.0	0.0
1888	63.572	63.572	-0.033	0.0	0.0	0.0
1904	63.569	63.569	-0.035	0.0	0.0	0.0
1920	63.567	63.567	-0.037	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 Summer
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	65.401	65.001	-0.109	0.0	0.1	0.0
32	65.401	65.001	-0.109	0.0	0.1	0.0
48	65.401	65.001	-0.109	0.0	0.1	0.0
64	65.401	65.001	-0.109	0.0	0.1	0.0
80	65.401	65.001	-0.109	0.0	0.1	0.0
96	65.401	65.001	-0.109	0.0	0.1	0.0
112	65.401	65.001	-0.109	0.0	0.1	0.0
128	65.401	65.001	-0.109	0.0	0.1	0.0
144	65.401	65.001	-0.109	0.0	0.1	0.0
160	65.401	65.001	-0.109	0.0	0.1	0.0
176	65.401	65.001	-0.109	0.0	0.1	0.0
192	65.401	65.001	-0.109	0.0	0.2	0.0
208	65.401	65.001	-0.109	0.0	0.2	0.0
224	65.401	65.001	-0.109	0.0	0.2	0.0
240	65.401	65.002	-0.109	0.0	0.2	0.0
256	65.401	65.002	-0.109	0.0	0.2	0.0
272	65.401	65.002	-0.109	0.0	0.2	0.0
288	65.401	65.002	-0.109	0.0	0.2	0.1
304	65.401	65.002	-0.109	0.0	0.2	0.1
320	65.402	65.002	-0.108	0.0	0.3	0.1
336	65.402	65.003	-0.108	0.0	0.3	0.1
352	65.402	65.003	-0.108	0.0	0.4	0.1
368	65.403	65.004	-0.107	0.0	0.4	0.1
384	65.403	65.004	-0.107	0.0	0.5	0.1
400	65.404	65.005	-0.106	0.0	0.6	0.1
416	65.404	65.006	-0.106	0.0	0.7	0.2
432	65.405	65.007	-0.105	0.0	0.8	0.2
448	65.406	65.008	-0.104	0.0	1.0	0.2
464	65.407	65.010	-0.103	0.0	1.1	0.3
480	65.408	65.011	-0.102	0.0	1.0	0.3
496	65.408	65.011	-0.102	0.0	1.0	0.3
512	65.407	65.010	-0.103	0.0	1.1	0.3
528	65.406	65.008	-0.104	0.0	1.0	0.2
544	65.405	65.007	-0.105	0.0	0.8	0.2
560	65.404	65.006	-0.106	0.0	0.7	0.2
576	65.404	65.005	-0.106	0.0	0.6	0.1
592	65.403	65.004	-0.107	0.0	0.5	0.1
608	65.403	65.004	-0.107	0.0	0.4	0.1
624	65.402	65.003	-0.108	0.0	0.4	0.1
640	65.402	65.003	-0.108	0.0	0.3	0.1
656	65.402	65.002	-0.108	0.0	0.3	0.1
672	65.401	65.002	-0.109	0.0	0.2	0.1
688	65.401	65.002	-0.109	0.0	0.2	0.1
704	65.401	65.002	-0.109	0.0	0.2	0.0
720	65.401	65.002	-0.109	0.0	0.2	0.0
736	65.401	65.002	-0.109	0.0	0.2	0.0
752	65.401	65.001	-0.109	0.0	0.2	0.0
768	65.401	65.001	-0.109	0.0	0.2	0.0
784	65.401	65.001	-0.109	0.0	0.2	0.0
800	65.401	65.001	-0.109	0.0	0.1	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
960 minute 100 year Summer
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 Summer
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	63.613	-0.110	0.0	0.0	0.0
1632	65.000	63.611	-0.110	0.0	0.0	0.0
1648	65.000	63.608	-0.110	0.0	0.0	0.0
1664	65.000	63.606	-0.110	0.0	0.0	0.0
1680	65.000	63.603	-0.110	0.0	0.0	0.0
1696	65.000	63.601	-0.110	0.0	0.0	0.0
1712	65.000	63.598	-0.110	0.0	0.0	0.0
1728	65.000	63.596	-0.110	0.0	0.0	0.0
1744	65.000	63.593	-0.110	0.0	0.0	0.0
1760	65.000	63.591	-0.110	0.0	0.0	0.0
1776	65.000	63.589	-0.110	0.0	0.0	0.0
1792	65.000	63.586	-0.110	0.0	0.0	0.0
1808	65.000	63.584	-0.110	0.0	0.0	0.0
1824	65.000	63.581	-0.110	0.0	0.0	0.0
1840	65.000	63.579	-0.110	0.0	0.0	0.0
1856	65.000	63.577	-0.110	0.0	0.0	0.0
1872	65.000	63.574	-0.110	0.0	0.0	0.0
1888	65.000	63.572	-0.110	0.0	0.0	0.0
1904	65.000	63.569	-0.110	0.0	0.0	0.0
1920	65.000	63.567	-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 Summer
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	63.613	63.613	0.059	0.0	0.0	0.0
1632	63.611	63.611	0.056	0.0	0.0	0.0
1648	63.608	63.608	0.054	0.0	0.0	0.0
1664	63.606	63.606	0.051	0.0	0.0	0.0
1680	63.603	63.603	0.049	0.0	0.0	0.0
1696	63.601	63.601	0.047	0.0	0.0	0.0
1712	63.598	63.598	0.044	0.0	0.0	0.0
1728	63.596	63.596	0.042	0.0	0.0	0.0
1744	63.593	63.594	0.039	0.0	0.0	0.0
1760	63.591	63.591	0.037	0.0	0.0	0.0
1776	63.589	63.589	0.034	0.0	0.0	0.0
1792	63.586	63.586	0.032	0.0	0.0	0.0
1808	63.584	63.584	0.030	0.0	0.0	0.0
1824	63.581	63.582	0.027	0.0	0.0	0.0
1840	63.579	63.579	0.025	0.0	0.0	0.0
1856	63.577	63.577	0.022	0.0	0.0	0.0
1872	63.574	63.574	0.020	0.0	0.0	0.0
1888	63.572	63.572	0.018	0.0	0.0	0.0
1904	63.569	63.570	0.015	0.0	0.0	0.0
1920	63.567	63.567	0.013	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 Summer
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)
16	63.253	63.100	-0.107	0.0	0.0	0.0
32	63.257	63.101	-0.103	0.0	0.0	0.0
48	63.260	63.104	-0.100	0.0	0.1	0.0
64	63.263	63.109	-0.097	0.0	0.1	0.0
80	63.266	63.115	-0.094	0.0	0.1	0.0
96	63.268	63.122	-0.092	0.0	0.2	0.0
112	63.271	63.130	-0.089	0.0	0.2	0.1
128	63.273	63.138	-0.087	0.0	0.2	0.1
144	63.275	63.145	-0.085	0.0	0.2	0.1
160	63.277	63.152	-0.083	0.0	0.3	0.1
176	63.279	63.160	-0.081	0.0	0.3	0.1
192	63.281	63.169	-0.079	0.0	0.3	0.1
208	63.283	63.180	-0.077	0.0	0.3	0.1
224	63.285	63.192	-0.075	0.0	0.3	0.1
240	63.287	63.205	-0.073	0.0	0.3	0.1
256	63.290	63.218	-0.070	0.0	0.3	0.1
272	63.293	63.233	-0.067	0.0	0.3	0.1
288	63.296	63.249	-0.064	0.0	0.3	0.1
304	63.301	63.251	-0.059	0.0	0.2	0.1
320	63.308	63.250	-0.052	0.0	0.2	0.1
336	63.315	63.250	-0.045	0.0	0.2	0.1
352	63.324	63.253	-0.036	0.0	0.2	0.1
368	63.335	63.257	-0.025	0.0	0.3	0.1
384	63.347	63.263	-0.013	0.0	0.3	0.1
400	63.364	63.269	0.004	0.0	0.2	0.1
416	63.386	63.264	0.026	0.0	0.2	0.1
432	63.410	63.271	0.050	0.0	0.3	0.1
448	63.437	63.289	0.077	0.0	0.3	0.1
464	63.467	63.319	0.107	0.0	0.3	0.2
480	63.503	63.360	0.143	0.0	0.3	0.2
496	63.538	63.399	0.178	0.0	0.3	0.2
512	63.568	63.436	0.208	0.0	0.1	0.2
528	63.593	63.470	0.233	0.0	0.0	0.2
544	63.614	63.499	0.254	0.0	0.0	0.2
560	63.632	63.525	0.272	0.0	0.0	0.2
576	63.646	63.548	0.286	0.0	0.0	0.2
592	63.658	63.567	0.298	0.0	0.0	0.1
608	63.669	63.582	0.309	0.0	0.0	0.1
624	63.678	63.596	0.318	0.0	0.0	0.1
640	63.687	63.607	0.327	0.0	0.0	0.1
656	63.694	63.617	0.334	0.0	0.0	0.1
672	63.702	63.626	0.342	0.0	0.0	0.1
688	63.709	63.634	0.349	0.0	0.0	0.1
704	63.716	63.642	0.356	0.0	0.0	0.1
720	63.723	63.649	0.363	0.0	0.0	0.1
736	63.731	63.656	0.371	0.0	0.0	0.1
752	63.741	63.664	0.381	0.0	0.0	0.1
768	63.761	63.674	0.401	0.0	0.0	0.1
784	63.775	63.687	0.415	0.0	0.0	0.1
800	63.786	63.700	0.426	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 Summer
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	63.787	63.700	0.427	0.0	0.0	0.1
832	63.792	63.700	0.432	0.0	0.0	0.1
848	63.787	63.700	0.427	0.0	0.0	0.1
864	63.791	63.700	0.431	0.0	0.0	0.1
880	63.789	63.700	0.429	0.0	0.0	0.1
896	63.783	63.700	0.423	0.0	0.0	0.1
912	63.780	63.700	0.420	0.0	0.0	0.1
928	63.775	63.700	0.415	0.0	0.0	0.1
944	63.777	63.700	0.417	0.0	0.0	0.1
960	63.775	63.700	0.415	0.0	0.0	0.1
976	63.732	63.700	0.372	0.0	0.0	0.1
992	63.727	63.700	0.367	0.0	0.0	0.0
1008	63.723	63.700	0.363	0.0	0.0	0.0
1024	63.720	63.700	0.360	0.0	0.0	0.0
1040	63.717	63.700	0.357	0.0	0.0	0.0
1056	63.715	63.700	0.355	0.0	0.0	0.0
1072	63.713	63.698	0.353	0.0	0.0	0.0
1088	63.710	63.677	0.350	0.0	0.0	0.0
1104	63.706	63.666	0.346	0.0	0.0	0.1
1120	63.701	63.657	0.341	0.0	0.0	0.1
1136	63.697	63.651	0.337	0.0	0.0	0.1
1152	63.693	63.645	0.333	0.0	0.0	0.1
1168	63.689	63.640	0.329	0.0	0.0	0.1
1184	63.685	63.636	0.325	0.0	0.0	0.1
1200	63.682	63.632	0.322	0.0	0.0	0.1
1216	63.678	63.628	0.318	0.0	0.0	0.1
1232	63.675	63.625	0.315	0.0	0.0	0.1
1248	63.672	63.621	0.312	0.0	0.0	0.1
1264	63.669	63.618	0.309	0.0	0.0	0.1
1280	63.666	63.615	0.306	0.0	0.0	0.1
1296	63.663	63.612	0.303	0.0	0.0	0.1
1312	63.660	63.609	0.300	0.0	0.0	0.1
1328	63.657	63.606	0.297	0.0	0.0	0.1
1344	63.655	63.603	0.295	0.0	0.0	0.1
1360	63.653	63.601	0.293	0.0	0.0	0.1
1376	63.650	63.599	0.290	0.0	0.0	0.1
1392	63.648	63.596	0.288	0.0	0.0	0.1
1408	63.645	63.593	0.285	0.0	0.0	0.1
1424	63.642	63.591	0.282	0.0	0.0	0.1
1440	63.640	63.589	0.280	0.0	0.0	0.1
1456	63.638	63.587	0.278	0.0	0.0	0.1
1472	63.635	63.584	0.275	0.0	0.0	0.1
1488	63.633	63.582	0.273	0.0	0.0	0.1
1504	63.630	63.579	0.270	0.0	0.0	0.1
1520	63.628	63.577	0.268	0.0	0.0	0.1
1536	63.625	63.575	0.265	0.0	0.0	0.1
1552	63.623	63.572	0.263	0.0	0.0	0.1
1568	63.621	63.570	0.261	0.0	0.0	0.1
1584	63.618	63.567	0.258	0.0	0.0	0.1
1600	63.616	63.565	0.256	0.0	0.0	0.1

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Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
960 minute 100 year Summer
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	63.613	63.563	0.253	0.0	0.0	0.1
1632	63.611	63.560	0.251	0.0	0.0	0.1
1648	63.608	63.558	0.248	0.0	0.0	0.1
1664	63.606	63.556	0.246	0.0	0.0	0.1
1680	63.603	63.553	0.243	0.0	0.0	0.1
1696	63.601	63.551	0.241	0.0	0.0	0.1
1712	63.598	63.549	0.238	0.0	0.0	0.1
1728	63.596	63.546	0.236	0.0	0.0	0.1
1744	63.594	63.544	0.234	0.0	0.0	0.1
1760	63.591	63.542	0.231	0.0	0.0	0.1
1776	63.589	63.539	0.229	0.0	0.0	0.1
1792	63.586	63.537	0.226	0.0	0.0	0.1
1808	63.584	63.534	0.224	0.0	0.0	0.1
1824	63.582	63.532	0.222	0.0	0.0	0.1
1840	63.579	63.530	0.219	0.0	0.0	0.1
1856	63.577	63.528	0.217	0.0	0.0	0.1
1872	63.574	63.525	0.214	0.0	0.0	0.1
1888	63.572	63.523	0.212	0.0	0.0	0.1
1904	63.570	63.521	0.210	0.0	0.0	0.1
1920	63.567	63.518	0.207	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 Summer
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	63.101	63.096	-0.109	0.0	0.0	0.0
48	63.104	63.096	-0.106	0.0	0.0	0.0
64	63.109	63.096	-0.101	0.0	0.0	0.0
80	63.115	63.096	-0.095	0.0	0.0	0.0
96	63.122	63.096	-0.088	0.0	0.0	0.0
112	63.130	63.096	-0.080	0.0	0.0	0.0
128	63.138	63.096	-0.072	0.0	0.0	0.0
144	63.145	63.096	-0.065	0.0	0.0	0.0
160	63.152	63.096	-0.058	0.0	0.0	0.0
176	63.160	63.096	-0.050	0.0	0.0	0.0
192	63.169	63.096	-0.041	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	63.205	63.096	-0.005	0.0	0.0	0.0
256	63.218	63.096	0.008	0.0	0.0	0.0
272	63.233	63.096	0.023	0.0	0.0	0.0
288	63.249	63.096	0.039	0.0	0.0	0.0
304	63.251	63.096	0.041	0.0	0.0	0.0
320	63.250	63.096	0.040	0.0	0.0	0.0
336	63.250	63.096	0.040	0.0	0.0	0.0
352	63.253	63.096	0.043	0.0	0.0	0.0
368	63.257	63.096	0.047	0.0	0.0	0.0
384	63.263	63.096	0.053	0.0	0.0	0.0
400	63.269	63.096	0.059	0.0	0.0	0.0
416	63.264	63.096	0.054	0.0	0.0	0.0
432	63.271	63.096	0.061	0.0	0.0	0.0
448	63.289	63.096	0.079	0.0	0.0	0.0
464	63.319	63.096	0.109	0.0	0.0	0.0
480	63.360	63.096	0.150	0.0	0.1	0.0
496	63.399	63.096	0.189	0.0	0.1	0.0
512	63.436	63.096	0.226	0.0	0.1	0.0
528	63.470	63.096	0.260	0.0	0.1	0.0
544	63.499	63.096	0.289	0.0	0.1	0.0
560	63.525	63.096	0.315	0.0	0.1	0.0
576	63.548	63.096	0.338	0.0	0.1	0.0
592	63.567	63.096	0.357	0.0	0.1	0.0
608	63.582	63.096	0.372	0.0	0.1	0.0
624	63.596	63.096	0.386	0.0	0.1	0.0
640	63.607	63.096	0.397	0.0	0.1	0.0
656	63.617	63.096	0.407	0.0	0.1	0.0
672	63.626	63.096	0.416	0.0	0.1	0.0
688	63.634	63.096	0.424	0.0	0.1	0.0
704	63.642	63.096	0.432	0.0	0.1	0.0
720	63.649	63.096	0.439	0.0	0.1	0.0
736	63.656	63.096	0.446	0.0	0.1	0.0
752	63.664	63.096	0.454	0.0	0.1	0.0
768	63.674	63.096	0.464	0.0	0.1	0.0
784	63.687	63.096	0.477	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 Summer
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	63.700	63.096	0.490	0.0	0.1	0.0
928	63.700	63.096	0.490	0.0	0.1	0.0
944	63.700	63.096	0.490	0.0	0.1	0.0
960	63.700	63.096	0.490	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	63.698	63.096	0.488	0.0	0.1	0.0
1088	63.677	63.096	0.467	0.0	0.1	0.0
1104	63.666	63.096	0.456	0.0	0.1	0.0
1120	63.657	63.096	0.447	0.0	0.1	0.0
1136	63.651	63.096	0.441	0.0	0.1	0.0
1152	63.645	63.096	0.435	0.0	0.1	0.0
1168	63.640	63.096	0.430	0.0	0.1	0.0
1184	63.636	63.096	0.426	0.0	0.1	0.0
1200	63.632	63.096	0.422	0.0	0.1	0.0
1216	63.628	63.096	0.418	0.0	0.1	0.0
1232	63.625	63.096	0.415	0.0	0.1	0.0
1248	63.621	63.096	0.411	0.0	0.1	0.0
1264	63.618	63.096	0.408	0.0	0.1	0.0
1280	63.615	63.096	0.405	0.0	0.1	0.0
1296	63.612	63.096	0.402	0.0	0.1	0.0
1312	63.609	63.096	0.399	0.0	0.1	0.0
1328	63.606	63.096	0.396	0.0	0.1	0.0
1344	63.603	63.096	0.393	0.0	0.1	0.0
1360	63.601	63.096	0.391	0.0	0.1	0.0
1376	63.599	63.096	0.389	0.0	0.1	0.0
1392	63.596	63.096	0.386	0.0	0.1	0.0
1408	63.593	63.096	0.383	0.0	0.1	0.0
1424	63.591	63.096	0.381	0.0	0.1	0.0
1440	63.589	63.096	0.379	0.0	0.1	0.0
1456	63.587	63.096	0.377	0.0	0.1	0.0
1472	63.584	63.096	0.374	0.0	0.1	0.0
1488	63.582	63.096	0.372	0.0	0.1	0.0
1504	63.579	63.096	0.369	0.0	0.1	0.0
1520	63.577	63.096	0.367	0.0	0.1	0.0
1536	63.575	63.096	0.365	0.0	0.1	0.0
1552	63.572	63.096	0.362	0.0	0.1	0.0
1568	63.570	63.096	0.360	0.0	0.1	0.0
1584	63.567	63.096	0.357	0.0	0.1	0.0
1600	63.565	63.096	0.355	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 Summer
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	63.563	63.096	0.353	0.0	0.1	0.0
1632	63.560	63.096	0.350	0.0	0.1	0.0
1648	63.558	63.096	0.348	0.0	0.1	0.0
1664	63.556	63.096	0.346	0.0	0.1	0.0
1680	63.553	63.096	0.343	0.0	0.1	0.0
1696	63.551	63.096	0.341	0.0	0.1	0.0
1712	63.549	63.096	0.339	0.0	0.1	0.0
1728	63.546	63.096	0.336	0.0	0.1	0.0
1744	63.544	63.096	0.334	0.0	0.1	0.0
1760	63.542	63.096	0.332	0.0	0.1	0.0
1776	63.539	63.096	0.329	0.0	0.1	0.0
1792	63.537	63.096	0.327	0.0	0.1	0.0
1808	63.534	63.096	0.324	0.0	0.1	0.0
1824	63.532	63.096	0.322	0.0	0.1	0.0
1840	63.530	63.096	0.320	0.0	0.1	0.0
1856	63.528	63.096	0.318	0.0	0.1	0.0
1872	63.525	63.096	0.315	0.0	0.1	0.0
1888	63.523	63.096	0.313	0.0	0.1	0.0
1904	63.521	63.096	0.311	0.0	0.1	0.0
1920	63.518	63.096	0.308	0.0	0.1	0.0