

Dixon Hurst Kemp		Page 1
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	
File COMBINED ATTENUATION ...	Checked by	
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

Dixon Hurst Kemp		Page 2
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

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	

Dixon Hurst Kemp	Page 3
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
File COMBINED ATTENUATION ...	Checked by
Elstree Computing Ltd	Network W.12.6



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 * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	720
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	6

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)	360
Ratio R	0.343		

Dixon Hurst Kemp		Page 4
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

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

Dixon Hurst Kemp		Page 5
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

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

Dixon Hurst Kemp		Page 6
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Summary of Results for 360 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	65.409	-0.101	0.000	0.02	0.0	0.4	OK
1.001	S1	63.682	0.078	0.000	0.13	0.0	0.9	SURCHARGED
2.000	RE2	65.411	-0.099	0.000	0.02	0.0	0.4	OK
2.001	S2	65.013	-0.097	0.000	0.03	0.0	0.9	OK
1.002	S3	63.682	0.128	0.000	0.25	0.0	1.8	SURCHARGED
1.003	S4	63.681	0.321	0.000	0.05	0.0	0.3	SURCHARGED
1.004	RAIN GARDEN	63.616	0.406	0.000	0.01	0.0	0.0	SURCHARGED

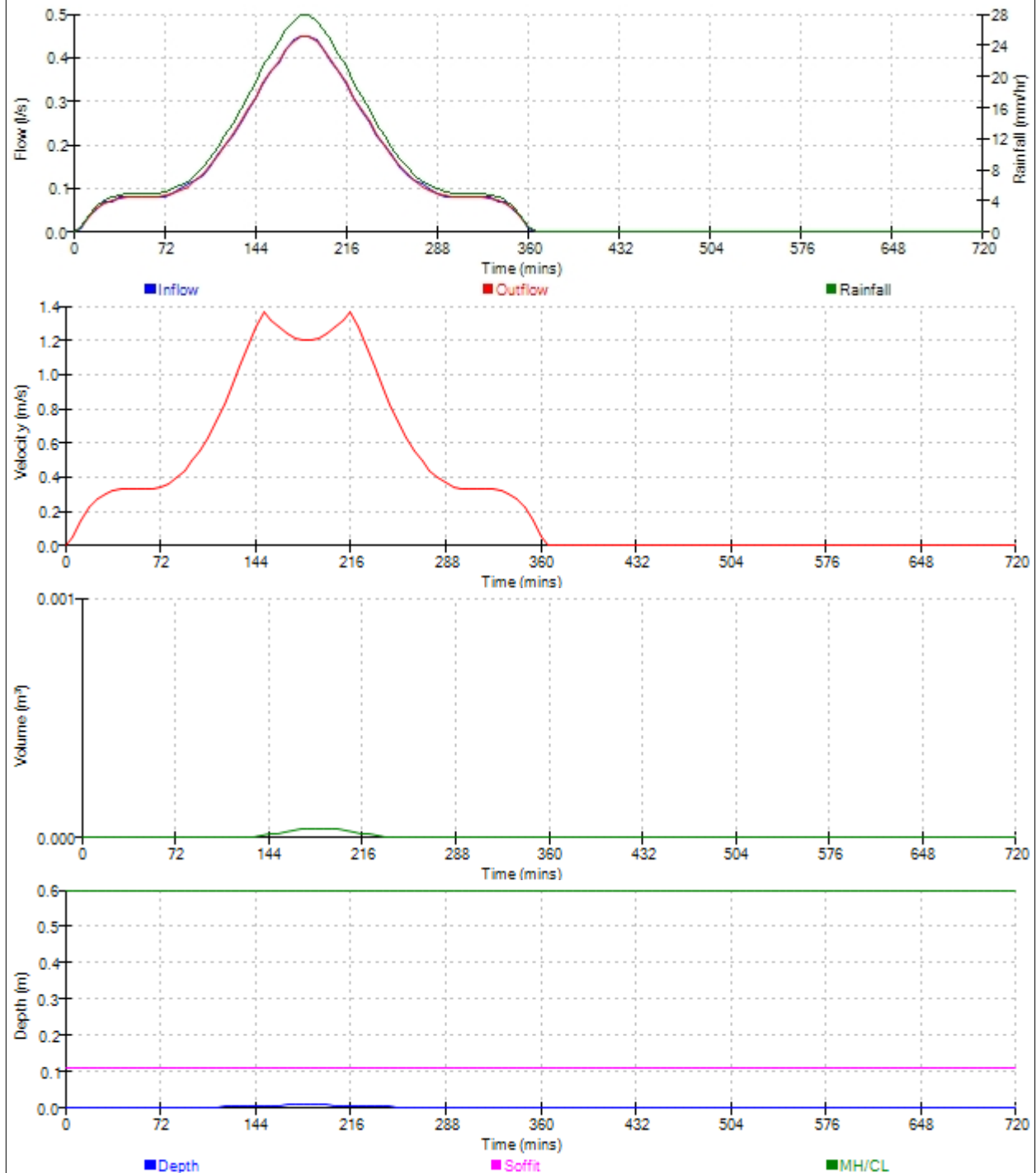
Dixon Hurst Kemp		Page 7
Victoria Court 22 St Pancras West Sussex PO19 7GD	34 Hurst Road. Hassocks Surface Water Drainage Design Simulation Rev03	
Date Nov 25	Designed by JS	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Rainfall Hyetograph for 360 minute 100 year winter (Storm)

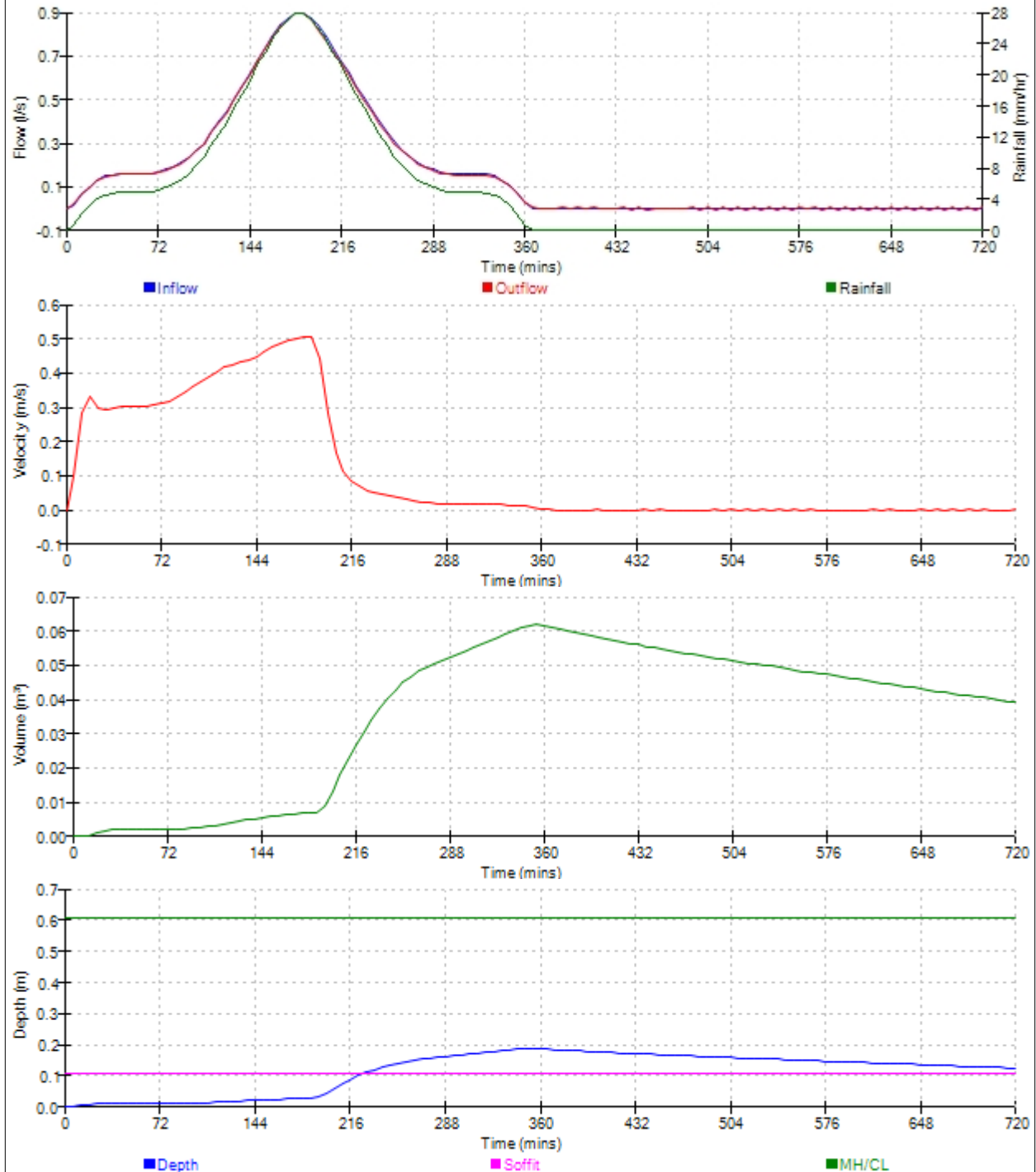
Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
6	0.786	78	5.492	150	21.205	222	19.245	294	5.166
12	2.261	84	5.936	156	22.874	228	17.487	300	5.005
18	3.343	90	6.525	162	24.430	234	15.755	306	4.930
24	4.143	96	7.391	168	25.958	240	13.886	312	4.919
30	4.568	102	8.344	174	27.042	246	12.332	318	4.930
36	4.809	108	9.453	180	27.824	252	10.894	324	4.916
42	4.916	114	10.894	186	27.824	258	9.453	330	4.809
48	4.929	120	12.332	192	27.042	264	8.344	336	4.568
54	4.919	126	13.886	198	25.958	270	7.391	342	4.143
60	4.930	132	15.755	204	24.430	276	6.525	348	3.344
66	5.005	138	17.487	210	22.874	282	5.936	354	2.261
72	5.166	144	19.245	216	21.205	288	5.492	360	0.786

Dixon Hurst Kemp	Page 8	
Victoria Court	34 Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Design Simulation Rev03	
Date Nov 25	Designed by JS	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

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

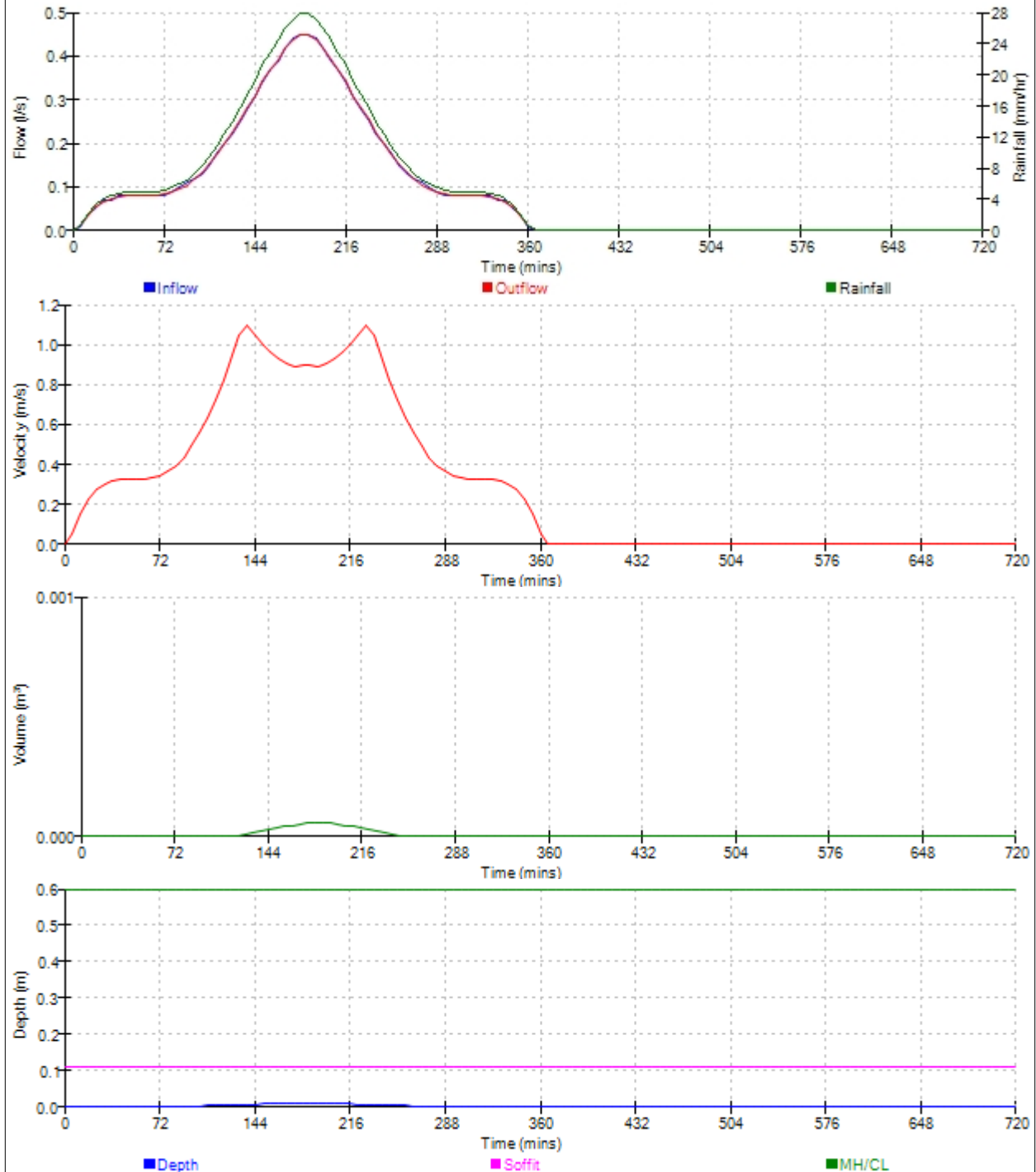


Graphs for Pipe 1.001 US/MH S1 (Storm)
360 minute 100 year winter
Status: SURCHARGED



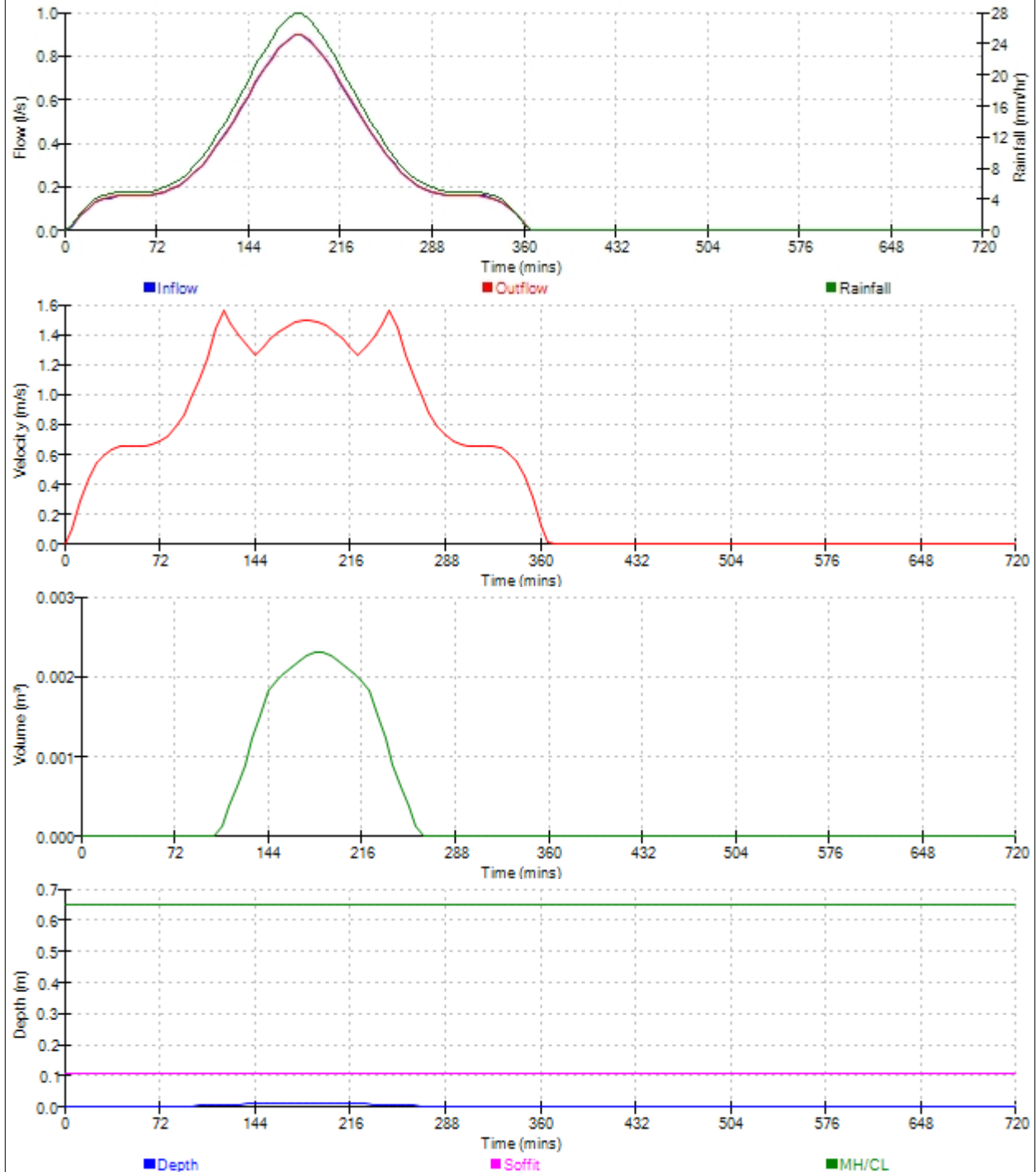
Dixon Hurst Kemp		Page 10
Victoria Court 22 St Pancras West Sussex PO19 7GD	34 Hurst Road, Hassocks Surface Water Drainage Design Simulation Rev03	
Date Nov 25	Designed by JS	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

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

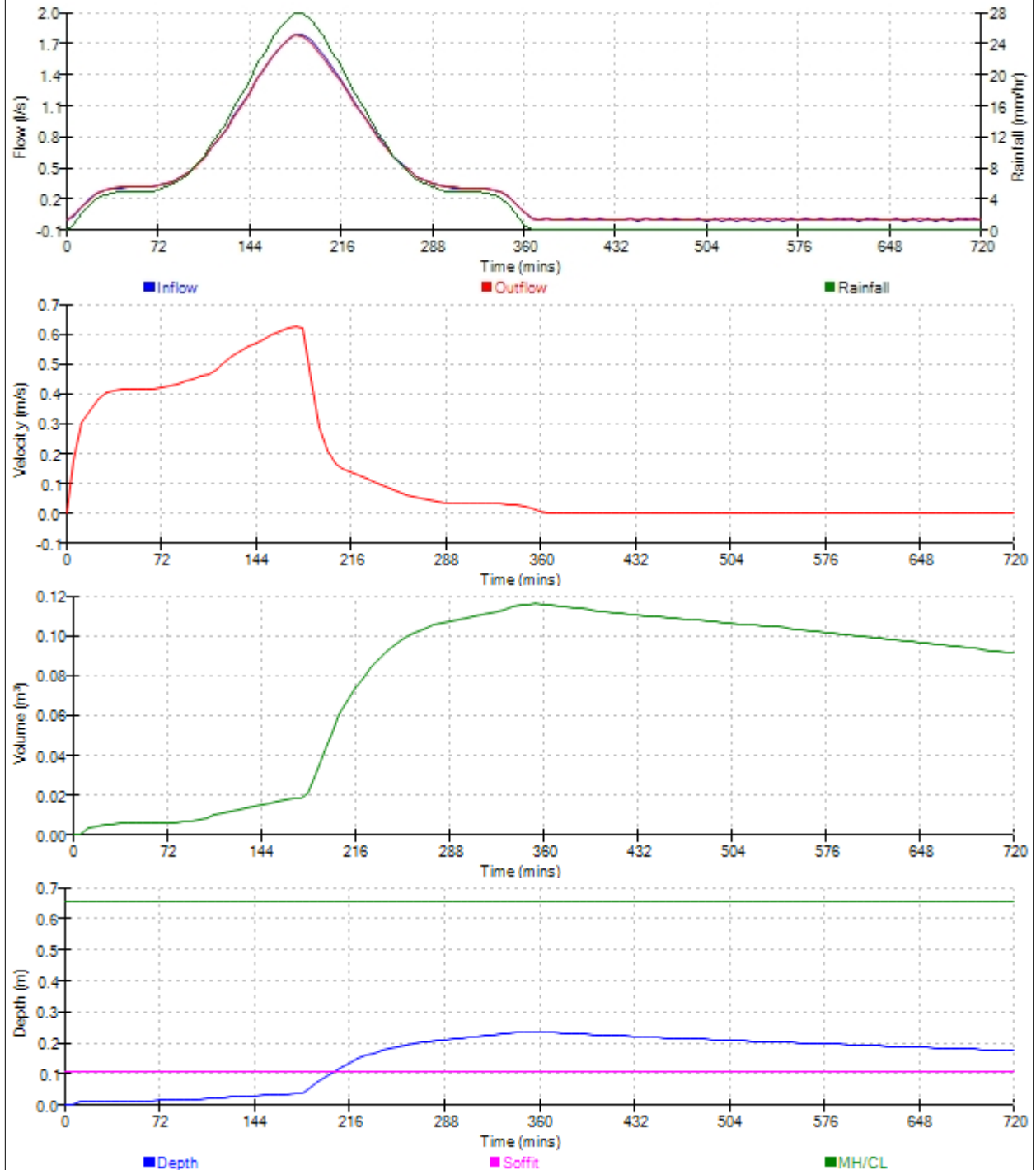


Dixon Hurst Kemp	Page 11	
Victoria Court	34 Hurst Road, Hassocks	
22 St Pancras	Surface Water Drainage	
West Sussex PO19 7GD	Design Simulation Rev03	
Date Nov 25	Designed by JS	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

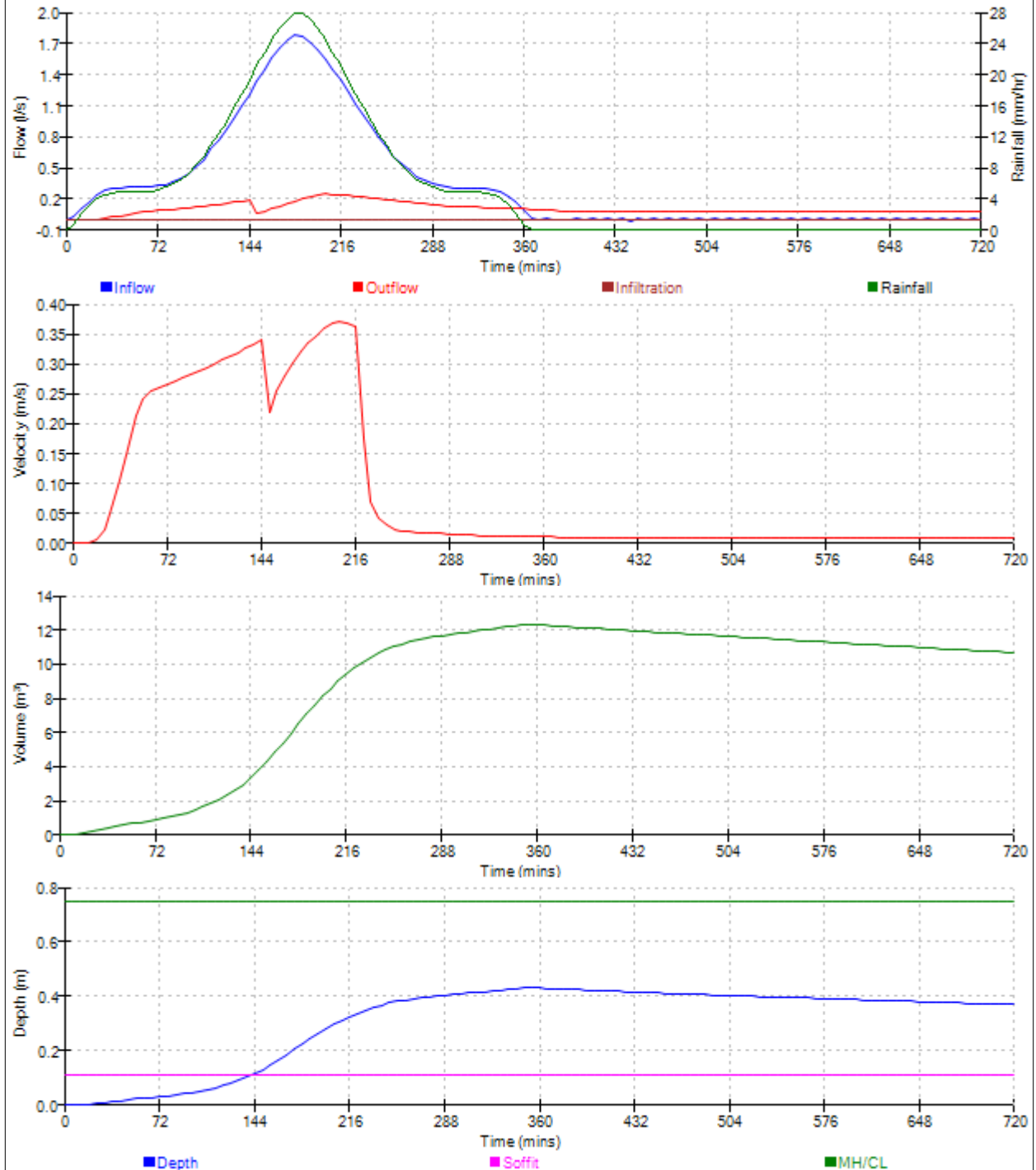
Graphs for Pipe 2.001 US/MH S2 (Storm)
 360 minute 100 year winter
 Status: OK



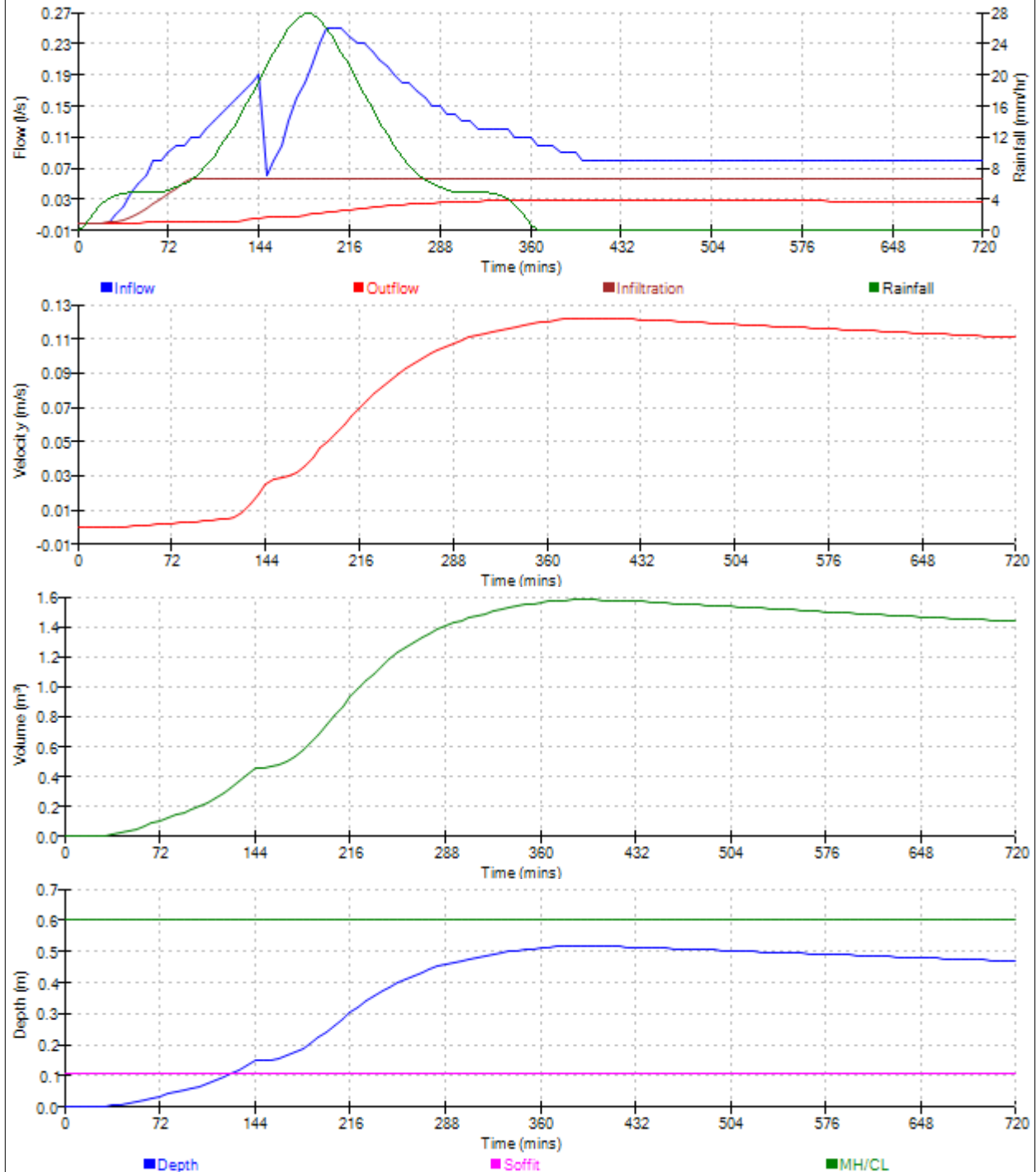
Graphs for Pipe 1.002 US/MH S3 (Storm)
360 minute 100 year winter
Status: SURCHARGED



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



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



Dixon Hurst Kemp		Page 17
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
360 minute 100 year winter
Average Rainfall Intensity 11.062 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)
606	65.400	63.637	-0.110	0.0	0.0	0.0
612	65.400	63.636	-0.110	0.0	0.0	0.0
618	65.400	63.635	-0.110	0.0	0.0	0.0
624	65.400	63.634	-0.110	0.0	0.0	0.0
630	65.400	63.633	-0.110	0.0	0.0	0.0
636	65.400	63.632	-0.110	0.0	0.0	0.0
642	65.400	63.632	-0.110	0.0	0.0	0.0
648	65.400	63.630	-0.110	0.0	0.0	0.0
654	65.400	63.629	-0.110	0.0	0.0	0.0
660	65.400	63.628	-0.110	0.0	0.0	0.0
666	65.400	63.627	-0.110	0.0	0.0	0.0
672	65.400	63.626	-0.110	0.0	0.0	0.0
678	65.400	63.626	-0.110	0.0	0.0	0.0
684	65.400	63.625	-0.110	0.0	0.0	0.0
690	65.400	63.624	-0.110	0.0	0.0	0.0
696	65.400	63.623	-0.110	0.0	0.0	0.0
702	65.400	63.622	-0.110	0.0	0.0	0.0
708	65.400	63.621	-0.110	0.0	0.0	0.0
714	65.400	63.620	-0.110	0.0	0.0	0.0
720	65.400	63.619	-0.110	0.0	0.0	0.0

Dixon Hurst Kemp		Page 18
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
360 minute 100 year winter
Average Rainfall Intensity 11.062 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)
6	63.496	63.448	-0.108	0.0	0.1	0.0
12	63.500	63.455	-0.104	0.0	0.3	0.1
18	63.502	63.457	-0.102	0.0	0.3	0.1
24	63.504	63.458	-0.100	0.0	0.3	0.1
30	63.505	63.458	-0.099	0.0	0.3	0.1
36	63.505	63.459	-0.099	0.0	0.3	0.2
42	63.506	63.459	-0.099	0.0	0.3	0.2
48	63.506	63.459	-0.099	0.0	0.3	0.2
54	63.506	63.459	-0.099	0.0	0.3	0.2
60	63.506	63.459	-0.099	0.0	0.3	0.2
66	63.506	63.459	-0.099	0.0	0.3	0.2
72	63.506	63.459	-0.098	0.0	0.3	0.2
78	63.506	63.460	-0.098	0.0	0.3	0.2
84	63.506	63.460	-0.098	0.0	0.3	0.2
90	63.507	63.461	-0.097	0.0	0.3	0.2
96	63.507	63.463	-0.097	0.0	0.4	0.2
102	63.508	63.464	-0.096	0.0	0.4	0.3
108	63.509	63.466	-0.095	0.0	0.4	0.3
114	63.510	63.467	-0.094	0.0	0.4	0.3
120	63.511	63.468	-0.093	0.0	0.4	0.4
126	63.513	63.470	-0.092	0.0	0.4	0.4
132	63.514	63.472	-0.090	0.0	0.4	0.5
138	63.515	63.473	-0.089	0.0	0.4	0.6
144	63.517	63.475	-0.088	0.0	0.4	0.6
150	63.517	63.477	-0.087	0.0	0.5	0.7
156	63.518	63.478	-0.086	0.0	0.5	0.7
162	63.519	63.479	-0.085	0.0	0.5	0.8
168	63.520	63.480	-0.084	0.0	0.5	0.8
174	63.520	63.481	-0.084	0.0	0.5	0.9
180	63.521	63.485	-0.083	0.0	0.5	0.9
186	63.521	63.501	-0.083	0.0	0.5	0.9
192	63.527	63.519	-0.077	0.0	0.4	0.9
198	63.540	63.536	-0.064	0.0	0.3	0.8
204	63.555	63.552	-0.049	0.0	0.2	0.8
210	63.570	63.567	-0.034	0.0	0.1	0.7
216	63.583	63.580	-0.021	0.0	0.1	0.7
222	63.595	63.592	-0.009	0.0	0.1	0.6
228	63.606	63.603	0.001	0.0	0.1	0.6
234	63.615	63.613	0.011	0.0	0.1	0.5
240	63.623	63.621	0.019	0.0	0.0	0.4
246	63.630	63.628	0.026	0.0	0.0	0.4
252	63.636	63.634	0.031	0.0	0.0	0.3
258	63.640	63.639	0.036	0.0	0.0	0.3
264	63.645	63.643	0.040	0.0	0.0	0.3
270	63.648	63.647	0.044	0.0	0.0	0.2
276	63.651	63.650	0.047	0.0	0.0	0.2
282	63.654	63.653	0.050	0.0	0.0	0.2
288	63.656	63.655	0.052	0.0	0.0	0.2
294	63.658	63.658	0.054	0.0	0.0	0.2
300	63.661	63.660	0.057	0.0	0.0	0.2

Dixon Hurst Kemp		Page 19
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

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Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
306	63.663	63.663	0.059	0.0	0.0	0.2
312	63.666	63.665	0.062	0.0	0.0	0.2
318	63.669	63.668	0.065	0.0	0.0	0.2
324	63.672	63.671	0.068	0.0	0.0	0.2
330	63.675	63.674	0.071	0.0	0.0	0.2
336	63.677	63.677	0.073	0.0	0.0	0.1
342	63.680	63.679	0.076	0.0	0.0	0.1
348	63.682	63.681	0.077	0.0	0.0	0.1
354	63.682	63.682	0.078	0.0	0.0	0.1
360	63.681	63.681	0.077	0.0	0.0	0.0
366	63.679	63.679	0.075	0.0	0.0	0.0
372	63.678	63.678	0.074	0.0	0.0	0.0
378	63.677	63.677	0.073	0.0	0.0	0.0
384	63.676	63.676	0.072	0.0	0.0	0.0
390	63.675	63.675	0.071	0.0	0.0	0.0
396	63.673	63.673	0.068	0.0	0.0	0.0
402	63.671	63.672	0.067	0.0	0.0	0.0
408	63.670	63.670	0.066	0.0	0.0	0.0
414	63.669	63.669	0.065	0.0	0.0	0.0
420	63.668	63.668	0.064	0.0	0.0	0.0
426	63.667	63.667	0.062	0.0	0.0	0.0
432	63.666	63.666	0.062	0.0	0.0	0.0
438	63.664	63.664	0.060	0.0	0.0	0.0
444	63.663	63.663	0.059	0.0	0.0	0.0
450	63.662	63.662	0.058	0.0	0.0	0.0
456	63.661	63.661	0.057	0.0	0.0	0.0
462	63.660	63.660	0.056	0.0	0.0	0.0
468	63.659	63.659	0.055	0.0	0.0	0.0
474	63.658	63.658	0.054	0.0	0.0	0.0
480	63.657	63.657	0.053	0.0	0.0	0.0
486	63.656	63.656	0.052	0.0	0.0	0.0
492	63.654	63.655	0.050	0.0	0.0	0.0
498	63.654	63.654	0.050	0.0	0.0	0.0
504	63.653	63.653	0.048	0.0	0.0	0.0
510	63.652	63.652	0.048	0.0	0.0	0.0
516	63.651	63.651	0.047	0.0	0.0	0.0
522	63.650	63.650	0.046	0.0	0.0	0.0
528	63.649	63.649	0.045	0.0	0.0	0.0
534	63.649	63.649	0.044	0.0	0.0	0.0
540	63.648	63.648	0.043	0.0	0.0	0.0
546	63.646	63.647	0.042	0.0	0.0	0.0
552	63.645	63.646	0.041	0.0	0.0	0.0
558	63.644	63.644	0.040	0.0	0.0	0.0
564	63.643	63.643	0.039	0.0	0.0	0.0
570	63.642	63.643	0.038	0.0	0.0	0.0
576	63.642	63.642	0.038	0.0	0.0	0.0
582	63.641	63.641	0.036	0.0	0.0	0.0
588	63.640	63.640	0.035	0.0	0.0	0.0
594	63.639	63.639	0.035	0.0	0.0	0.0
600	63.638	63.638	0.034	0.0	0.0	0.0

Dixon Hurst Kemp		Page 20
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
360 minute 100 year winter
Average Rainfall Intensity 11.062 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)
606	63.637	63.637	0.033	0.0	0.0	0.0
612	63.636	63.636	0.032	0.0	0.0	0.0
618	63.635	63.635	0.031	0.0	0.0	0.0
624	63.634	63.634	0.030	0.0	0.0	0.0
630	63.633	63.633	0.029	0.0	0.0	0.0
636	63.632	63.632	0.028	0.0	0.0	0.0
642	63.632	63.631	0.028	0.0	0.0	0.0
648	63.630	63.631	0.026	0.0	0.0	0.0
654	63.629	63.630	0.025	0.0	0.0	0.0
660	63.628	63.628	0.024	0.0	0.0	0.0
666	63.627	63.628	0.023	0.0	0.0	0.0
672	63.626	63.626	0.022	0.0	0.0	0.0
678	63.626	63.626	0.021	0.0	0.0	0.0
684	63.625	63.625	0.021	0.0	0.0	0.0
690	63.624	63.624	0.020	0.0	0.0	0.0
696	63.623	63.623	0.019	0.0	0.0	0.0
702	63.622	63.622	0.018	0.0	0.0	0.0
708	63.621	63.621	0.017	0.0	0.0	0.0
714	63.620	63.620	0.016	0.0	0.0	0.0
720	63.619	63.619	0.015	0.0	0.0	0.0

Dixon Hurst Kemp		Page 23
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
360 minute 100 year winter
Average Rainfall Intensity 11.062 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)
606	65.400	65.000	-0.110	0.0	0.0	0.0
612	65.400	65.000	-0.110	0.0	0.0	0.0
618	65.400	65.000	-0.110	0.0	0.0	0.0
624	65.400	65.000	-0.110	0.0	0.0	0.0
630	65.400	65.000	-0.110	0.0	0.0	0.0
636	65.400	65.000	-0.110	0.0	0.0	0.0
642	65.400	65.000	-0.110	0.0	0.0	0.0
648	65.400	65.000	-0.110	0.0	0.0	0.0
654	65.400	65.000	-0.110	0.0	0.0	0.0
660	65.400	65.000	-0.110	0.0	0.0	0.0
666	65.400	65.000	-0.110	0.0	0.0	0.0
672	65.400	65.000	-0.110	0.0	0.0	0.0
678	65.400	65.000	-0.110	0.0	0.0	0.0
684	65.400	65.000	-0.110	0.0	0.0	0.0
690	65.400	65.000	-0.110	0.0	0.0	0.0
696	65.400	65.000	-0.110	0.0	0.0	0.0
702	65.400	65.000	-0.110	0.0	0.0	0.0
708	65.400	65.000	-0.110	0.0	0.0	0.0
714	65.400	65.000	-0.110	0.0	0.0	0.0
720	65.400	65.000	-0.110	0.0	0.0	0.0

Dixon Hurst Kemp		Page 26
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
360 minute 100 year winter
Average Rainfall Intensity 11.062 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)
606	65.000	63.637	-0.110	0.0	0.0	0.0
612	65.000	63.636	-0.110	0.0	0.0	0.0
618	65.000	63.635	-0.110	0.0	0.0	0.0
624	65.000	63.634	-0.110	0.0	0.0	0.0
630	65.000	63.633	-0.110	0.0	0.0	0.0
636	65.000	63.632	-0.110	0.0	0.0	0.0
642	65.000	63.631	-0.110	0.0	0.0	0.0
648	65.000	63.631	-0.110	0.0	0.0	0.0
654	65.000	63.630	-0.110	0.0	0.0	0.0
660	65.000	63.628	-0.110	0.0	0.0	0.0
666	65.000	63.628	-0.110	0.0	0.0	0.0
672	65.000	63.626	-0.110	0.0	0.0	0.0
678	65.000	63.626	-0.110	0.0	0.0	0.0
684	65.000	63.625	-0.110	0.0	0.0	0.0
690	65.000	63.624	-0.110	0.0	0.0	0.0
696	65.000	63.623	-0.110	0.0	0.0	0.0
702	65.000	63.622	-0.110	0.0	0.0	0.0
708	65.000	63.621	-0.110	0.0	0.0	0.0
714	65.000	63.620	-0.110	0.0	0.0	0.0
720	65.000	63.619	-0.110	0.0	0.0	0.0

Dixon Hurst Kemp		Page 28
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
360 minute 100 year winter
Average Rainfall Intensity 11.062 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)
306	63.663	63.662	0.109	0.0	0.0	0.3
312	63.665	63.664	0.111	0.0	0.0	0.3
318	63.668	63.667	0.114	0.0	0.0	0.3
324	63.671	63.670	0.117	0.0	0.0	0.3
330	63.674	63.673	0.120	0.0	0.0	0.3
336	63.677	63.676	0.123	0.0	0.0	0.3
342	63.679	63.678	0.125	0.0	0.0	0.3
348	63.681	63.680	0.127	0.0	0.0	0.2
354	63.682	63.681	0.128	0.0	0.0	0.2
360	63.681	63.681	0.127	0.0	0.0	0.1
366	63.679	63.680	0.125	0.0	0.0	0.0
372	63.678	63.678	0.124	0.0	0.0	0.0
378	63.677	63.677	0.123	0.0	0.0	0.0
384	63.676	63.676	0.122	0.0	0.0	0.0
390	63.675	63.674	0.121	0.0	0.0	0.0
396	63.673	63.673	0.119	0.0	0.0	0.0
402	63.672	63.672	0.117	0.0	0.0	0.0
408	63.670	63.670	0.116	0.0	0.0	0.0
414	63.669	63.669	0.115	0.0	0.0	0.0
420	63.668	63.668	0.114	0.0	0.0	0.0
426	63.667	63.667	0.112	0.0	0.0	0.0
432	63.666	63.666	0.111	0.0	0.0	0.0
438	63.664	63.665	0.110	0.0	0.0	0.0
444	63.663	63.663	0.109	0.0	0.0	0.0
450	63.662	63.662	0.108	0.0	0.0	0.0
456	63.661	63.661	0.107	0.0	0.0	0.0
462	63.660	63.660	0.106	0.0	0.0	0.0
468	63.659	63.659	0.105	0.0	0.0	0.0
474	63.658	63.658	0.104	0.0	0.0	0.0
480	63.657	63.657	0.103	0.0	0.0	0.0
486	63.656	63.656	0.102	0.0	0.0	0.0
492	63.655	63.655	0.101	0.0	0.0	0.0
498	63.654	63.654	0.100	0.0	0.0	0.0
504	63.653	63.653	0.099	0.0	0.0	0.0
510	63.652	63.652	0.098	0.0	0.0	0.0
516	63.651	63.651	0.097	0.0	0.0	0.0
522	63.650	63.650	0.096	0.0	0.0	0.0
528	63.649	63.649	0.095	0.0	0.0	0.0
534	63.649	63.648	0.095	0.0	0.0	0.0
540	63.648	63.647	0.094	0.0	0.0	0.0
546	63.647	63.646	0.092	0.0	0.0	0.0
552	63.646	63.646	0.091	0.0	0.0	0.0
558	63.644	63.645	0.090	0.0	0.0	0.0
564	63.643	63.644	0.089	0.0	0.0	0.0
570	63.643	63.643	0.088	0.0	0.0	0.0
576	63.642	63.642	0.088	0.0	0.0	0.0
582	63.641	63.641	0.087	0.0	0.0	0.0
588	63.640	63.640	0.086	0.0	0.0	0.0
594	63.639	63.639	0.085	0.0	0.0	0.0
600	63.638	63.638	0.084	0.0	0.0	0.0

Dixon Hurst Kemp		Page 29
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
360 minute 100 year winter
Average Rainfall Intensity 11.062 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)
606	63.637	63.637	0.083	0.0	0.0	0.0
612	63.636	63.636	0.081	0.0	0.0	0.0
618	63.635	63.635	0.081	0.0	0.0	0.0
624	63.634	63.634	0.080	0.0	0.0	0.0
630	63.633	63.633	0.079	0.0	0.0	0.0
636	63.632	63.632	0.078	0.0	0.0	0.0
642	63.631	63.631	0.077	0.0	0.0	0.0
648	63.631	63.631	0.076	0.0	0.0	0.0
654	63.630	63.630	0.075	0.0	0.0	0.0
660	63.628	63.629	0.074	0.0	0.0	0.0
666	63.628	63.628	0.073	0.0	0.0	0.0
672	63.626	63.627	0.072	0.0	0.0	0.0
678	63.626	63.626	0.072	0.0	0.0	0.0
684	63.625	63.625	0.071	0.0	0.0	0.0
690	63.624	63.624	0.070	0.0	0.0	0.0
696	63.623	63.623	0.069	0.0	0.0	0.0
702	63.622	63.622	0.068	0.0	0.0	0.0
708	63.621	63.621	0.067	0.0	0.0	0.0
714	63.620	63.620	0.066	0.0	0.0	0.0
720	63.619	63.619	0.065	0.0	0.0	0.0

Dixon Hurst Kemp		Page 30
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
360 minute 100 year winter
Average Rainfall Intensity 11.062 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)
6	63.250	63.100	-0.110	0.0	0.0	0.0
12	63.252	63.100	-0.108	0.0	0.0	0.0
18	63.254	63.100	-0.106	0.0	0.0	0.0
24	63.257	63.101	-0.103	0.0	0.0	0.0
30	63.260	63.102	-0.100	0.0	0.1	0.0
36	63.263	63.104	-0.097	0.0	0.1	0.0
42	63.267	63.108	-0.093	0.0	0.2	0.0
48	63.270	63.112	-0.090	0.0	0.2	0.1
54	63.273	63.118	-0.087	0.0	0.2	0.1
60	63.276	63.124	-0.084	0.0	0.3	0.1
66	63.279	63.130	-0.081	0.0	0.3	0.1
72	63.282	63.136	-0.078	0.0	0.3	0.1
78	63.285	63.142	-0.075	0.0	0.3	0.1
84	63.289	63.147	-0.071	0.0	0.3	0.1
90	63.292	63.153	-0.068	0.0	0.3	0.1
96	63.296	63.160	-0.064	0.0	0.3	0.1
102	63.301	63.167	-0.059	0.0	0.3	0.1
108	63.307	63.175	-0.053	0.0	0.3	0.1
114	63.314	63.186	-0.046	0.0	0.3	0.1
120	63.322	63.196	-0.038	0.0	0.3	0.1
126	63.331	63.208	-0.029	0.0	0.3	0.2
132	63.341	63.220	-0.019	0.0	0.3	0.2
138	63.353	63.234	-0.007	0.0	0.3	0.2
144	63.365	63.249	0.005	0.0	0.3	0.2
150	63.382	63.250	0.022	0.0	0.2	0.1
156	63.399	63.252	0.039	0.0	0.3	0.1
162	63.418	63.256	0.058	0.0	0.3	0.1
168	63.437	63.264	0.077	0.0	0.3	0.1
174	63.456	63.275	0.096	0.0	0.3	0.2
180	63.476	63.288	0.116	0.0	0.3	0.2
186	63.495	63.304	0.135	0.0	0.3	0.2
192	63.514	63.322	0.154	0.0	0.4	0.2
198	63.531	63.343	0.171	0.0	0.4	0.2
204	63.547	63.364	0.187	0.0	0.4	0.3
210	63.562	63.384	0.202	0.0	0.4	0.2
216	63.576	63.404	0.216	0.0	0.4	0.2
222	63.588	63.422	0.228	0.0	0.2	0.2
228	63.600	63.440	0.240	0.0	0.1	0.2
234	63.610	63.457	0.250	0.0	0.0	0.2
240	63.618	63.472	0.258	0.0	0.0	0.2
246	63.625	63.487	0.265	0.0	0.0	0.2
252	63.632	63.500	0.272	0.0	0.0	0.2
258	63.637	63.512	0.277	0.0	0.0	0.2
264	63.642	63.524	0.282	0.0	0.0	0.2
270	63.646	63.534	0.286	0.0	0.0	0.2
276	63.649	63.543	0.289	0.0	0.0	0.2
282	63.652	63.552	0.292	0.0	0.0	0.2
288	63.654	63.559	0.294	0.0	0.0	0.1
294	63.657	63.566	0.297	0.0	0.0	0.1
300	63.659	63.572	0.299	0.0	0.0	0.1

Dixon Hurst Kemp		Page 31
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
360 minute 100 year winter
Average Rainfall Intensity 11.062 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)
306	63.662	63.577	0.302	0.0	0.0	0.1
312	63.664	63.582	0.304	0.0	0.0	0.1
318	63.667	63.586	0.307	0.0	0.0	0.1
324	63.670	63.591	0.310	0.0	0.0	0.1
330	63.673	63.595	0.313	0.0	0.0	0.1
336	63.676	63.598	0.316	0.0	0.0	0.1
342	63.678	63.602	0.318	0.0	0.0	0.1
348	63.680	63.605	0.320	0.0	0.0	0.1
354	63.681	63.608	0.321	0.0	0.0	0.1
360	63.681	63.611	0.321	0.0	0.0	0.1
366	63.680	63.613	0.320	0.0	0.0	0.1
372	63.678	63.614	0.318	0.0	0.0	0.1
378	63.677	63.615	0.317	0.0	0.0	0.1
384	63.676	63.616	0.316	0.0	0.0	0.1
390	63.674	63.616	0.314	0.0	0.0	0.1
396	63.673	63.616	0.313	0.0	0.0	0.1
402	63.672	63.616	0.312	0.0	0.0	0.1
408	63.670	63.616	0.310	0.0	0.0	0.1
414	63.669	63.615	0.309	0.0	0.0	0.1
420	63.668	63.615	0.308	0.0	0.0	0.1
426	63.667	63.614	0.307	0.0	0.0	0.1
432	63.666	63.613	0.306	0.0	0.0	0.1
438	63.665	63.612	0.305	0.0	0.0	0.1
444	63.663	63.611	0.303	0.0	0.0	0.1
450	63.662	63.610	0.302	0.0	0.0	0.1
456	63.661	63.609	0.301	0.0	0.0	0.1
462	63.660	63.608	0.300	0.0	0.0	0.1
468	63.659	63.607	0.299	0.0	0.0	0.1
474	63.658	63.607	0.298	0.0	0.0	0.1
480	63.657	63.606	0.297	0.0	0.0	0.1
486	63.656	63.605	0.296	0.0	0.0	0.1
492	63.655	63.604	0.295	0.0	0.0	0.1
498	63.654	63.603	0.294	0.0	0.0	0.1
504	63.653	63.602	0.293	0.0	0.0	0.1
510	63.652	63.601	0.292	0.0	0.0	0.1
516	63.651	63.600	0.291	0.0	0.0	0.1
522	63.650	63.599	0.290	0.0	0.0	0.1
528	63.649	63.598	0.289	0.0	0.0	0.1
534	63.648	63.597	0.288	0.0	0.0	0.1
540	63.647	63.596	0.287	0.0	0.0	0.1
546	63.646	63.595	0.286	0.0	0.0	0.1
552	63.646	63.594	0.286	0.0	0.0	0.1
558	63.645	63.593	0.285	0.0	0.0	0.1
564	63.644	63.592	0.284	0.0	0.0	0.1
570	63.643	63.591	0.283	0.0	0.0	0.1
576	63.642	63.590	0.282	0.0	0.0	0.1
582	63.641	63.590	0.281	0.0	0.0	0.1
588	63.640	63.589	0.280	0.0	0.0	0.1
594	63.639	63.588	0.279	0.0	0.0	0.1
600	63.638	63.587	0.278	0.0	0.0	0.1

Dixon Hurst Kemp		Page 32
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
360 minute 100 year winter
Average Rainfall Intensity 11.062 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)
606	63.637	63.586	0.277	0.0	0.0	0.1
612	63.636	63.585	0.276	0.0	0.0	0.1
618	63.635	63.584	0.275	0.0	0.0	0.1
624	63.634	63.583	0.274	0.0	0.0	0.1
630	63.633	63.582	0.273	0.0	0.0	0.1
636	63.632	63.581	0.272	0.0	0.0	0.1
642	63.631	63.580	0.271	0.0	0.0	0.1
648	63.631	63.580	0.271	0.0	0.0	0.1
654	63.630	63.579	0.270	0.0	0.0	0.1
660	63.629	63.578	0.269	0.0	0.0	0.1
666	63.628	63.577	0.268	0.0	0.0	0.1
672	63.627	63.576	0.267	0.0	0.0	0.1
678	63.626	63.575	0.266	0.0	0.0	0.1
684	63.625	63.574	0.265	0.0	0.0	0.1
690	63.624	63.573	0.264	0.0	0.0	0.1
696	63.623	63.572	0.263	0.0	0.0	0.1
702	63.622	63.571	0.262	0.0	0.0	0.1
708	63.621	63.571	0.261	0.0	0.0	0.1
714	63.620	63.570	0.260	0.0	0.0	0.1
720	63.619	63.569	0.259	0.0	0.0	0.1

Dixon Hurst Kemp		Page 33
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
360 minute 100 year winter
Average Rainfall Intensity 11.062 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)
6	63.100	63.096	-0.110	0.0	0.0	0.0
12	63.100	63.096	-0.110	0.0	0.0	0.0
18	63.100	63.096	-0.110	0.0	0.0	0.0
24	63.101	63.096	-0.109	0.0	0.0	0.0
30	63.102	63.096	-0.108	0.0	0.0	0.0
36	63.104	63.096	-0.106	0.0	0.0	0.0
42	63.108	63.096	-0.102	0.0	0.0	0.0
48	63.112	63.096	-0.098	0.0	0.0	0.0
54	63.118	63.096	-0.092	0.0	0.0	0.0
60	63.124	63.096	-0.086	0.0	0.0	0.0
66	63.130	63.096	-0.080	0.0	0.0	0.0
72	63.136	63.096	-0.074	0.0	0.0	0.0
78	63.142	63.096	-0.068	0.0	0.0	0.0
84	63.147	63.096	-0.063	0.0	0.0	0.0
90	63.153	63.096	-0.057	0.0	0.0	0.0
96	63.160	63.096	-0.050	0.0	0.0	0.0
102	63.167	63.096	-0.043	0.0	0.0	0.0
108	63.175	63.096	-0.035	0.0	0.0	0.0
114	63.186	63.096	-0.024	0.0	0.0	0.0
120	63.196	63.096	-0.014	0.0	0.0	0.0
126	63.208	63.096	-0.002	0.0	0.0	0.0
132	63.220	63.096	0.010	0.0	0.0	0.0
138	63.234	63.096	0.024	0.0	0.0	0.0
144	63.249	63.096	0.039	0.0	0.0	0.0
150	63.250	63.096	0.040	0.0	0.0	0.0
156	63.252	63.096	0.042	0.0	0.0	0.0
162	63.256	63.096	0.046	0.0	0.0	0.0
168	63.264	63.096	0.054	0.0	0.0	0.0
174	63.275	63.096	0.065	0.0	0.0	0.0
180	63.288	63.096	0.078	0.0	0.0	0.0
186	63.304	63.096	0.094	0.0	0.0	0.0
192	63.322	63.096	0.112	0.0	0.1	0.0
198	63.343	63.096	0.133	0.0	0.1	0.0
204	63.364	63.096	0.154	0.0	0.1	0.0
210	63.384	63.096	0.174	0.0	0.1	0.0
216	63.404	63.096	0.194	0.0	0.1	0.0
222	63.422	63.096	0.212	0.0	0.1	0.0
228	63.440	63.096	0.230	0.0	0.1	0.0
234	63.457	63.096	0.247	0.0	0.1	0.0
240	63.472	63.096	0.262	0.0	0.1	0.0
246	63.487	63.096	0.277	0.0	0.1	0.0
252	63.500	63.096	0.290	0.0	0.1	0.0
258	63.512	63.096	0.302	0.0	0.1	0.0
264	63.524	63.096	0.314	0.0	0.1	0.0
270	63.534	63.096	0.324	0.0	0.1	0.0
276	63.543	63.096	0.333	0.0	0.1	0.0
282	63.552	63.096	0.342	0.0	0.1	0.0
288	63.559	63.096	0.349	0.0	0.1	0.0
294	63.566	63.096	0.356	0.0	0.1	0.0
300	63.572	63.096	0.362	0.0	0.1	0.0

Dixon Hurst Kemp		Page 34
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
360 minute 100 year winter
Average Rainfall Intensity 11.062 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)
306	63.577	63.096	0.367	0.0	0.1	0.0
312	63.582	63.096	0.372	0.0	0.1	0.0
318	63.586	63.096	0.376	0.0	0.1	0.0
324	63.591	63.096	0.381	0.0	0.1	0.0
330	63.595	63.096	0.385	0.0	0.1	0.0
336	63.598	63.096	0.388	0.0	0.1	0.0
342	63.602	63.096	0.392	0.0	0.1	0.0
348	63.605	63.096	0.395	0.0	0.1	0.0
354	63.608	63.096	0.398	0.0	0.1	0.0
360	63.611	63.096	0.401	0.0	0.1	0.0
366	63.613	63.096	0.403	0.0	0.1	0.0
372	63.614	63.096	0.404	0.0	0.1	0.0
378	63.615	63.096	0.405	0.0	0.1	0.0
384	63.616	63.096	0.406	0.0	0.1	0.0
390	63.616	63.096	0.406	0.0	0.1	0.0
396	63.616	63.096	0.406	0.0	0.1	0.0
402	63.616	63.096	0.406	0.0	0.1	0.0
408	63.616	63.096	0.406	0.0	0.1	0.0
414	63.615	63.096	0.405	0.0	0.1	0.0
420	63.615	63.096	0.405	0.0	0.1	0.0
426	63.614	63.096	0.404	0.0	0.1	0.0
432	63.613	63.096	0.403	0.0	0.1	0.0
438	63.612	63.096	0.402	0.0	0.1	0.0
444	63.611	63.096	0.401	0.0	0.1	0.0
450	63.610	63.096	0.400	0.0	0.1	0.0
456	63.609	63.096	0.399	0.0	0.1	0.0
462	63.608	63.096	0.398	0.0	0.1	0.0
468	63.607	63.096	0.397	0.0	0.1	0.0
474	63.607	63.096	0.397	0.0	0.1	0.0
480	63.606	63.096	0.396	0.0	0.1	0.0
486	63.605	63.096	0.395	0.0	0.1	0.0
492	63.604	63.096	0.394	0.0	0.1	0.0
498	63.603	63.096	0.393	0.0	0.1	0.0
504	63.602	63.096	0.392	0.0	0.1	0.0
510	63.601	63.096	0.391	0.0	0.1	0.0
516	63.600	63.096	0.390	0.0	0.1	0.0
522	63.599	63.096	0.389	0.0	0.1	0.0
528	63.598	63.096	0.388	0.0	0.1	0.0
534	63.597	63.096	0.387	0.0	0.1	0.0
540	63.596	63.096	0.386	0.0	0.1	0.0
546	63.595	63.096	0.385	0.0	0.1	0.0
552	63.594	63.096	0.384	0.0	0.1	0.0
558	63.593	63.096	0.383	0.0	0.1	0.0
564	63.592	63.096	0.382	0.0	0.1	0.0
570	63.591	63.096	0.381	0.0	0.1	0.0
576	63.590	63.096	0.380	0.0	0.1	0.0
582	63.590	63.096	0.380	0.0	0.1	0.0
588	63.589	63.096	0.379	0.0	0.1	0.0
594	63.588	63.096	0.378	0.0	0.1	0.0
600	63.587	63.096	0.377	0.0	0.1	0.0

Dixon Hurst Kemp		Page 35
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
360 minute 100 year winter
Average Rainfall Intensity 11.062 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)
606	63.586	63.096	0.376	0.0	0.1	0.0
612	63.585	63.096	0.375	0.0	0.1	0.0
618	63.584	63.096	0.374	0.0	0.1	0.0
624	63.583	63.096	0.373	0.0	0.1	0.0
630	63.582	63.096	0.372	0.0	0.1	0.0
636	63.581	63.096	0.371	0.0	0.1	0.0
642	63.580	63.096	0.370	0.0	0.1	0.0
648	63.580	63.096	0.370	0.0	0.1	0.0
654	63.579	63.096	0.369	0.0	0.1	0.0
660	63.578	63.096	0.368	0.0	0.1	0.0
666	63.577	63.096	0.367	0.0	0.1	0.0
672	63.576	63.096	0.366	0.0	0.1	0.0
678	63.575	63.096	0.365	0.0	0.1	0.0
684	63.574	63.096	0.364	0.0	0.1	0.0
690	63.573	63.096	0.363	0.0	0.1	0.0
696	63.572	63.096	0.362	0.0	0.1	0.0
702	63.571	63.096	0.361	0.0	0.1	0.0
708	63.571	63.096	0.361	0.0	0.1	0.0
714	63.570	63.096	0.360	0.0	0.1	0.0
720	63.569	63.096	0.359	0.0	0.1	0.0