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Gloucester House 66a Church Walk Burgess Hill, BN43 6LB	10768-Sefter Road Simulation Network 2 Revision E	
Date 03/01/2023 File 10768_Network 2_revE - 03.01.23.MDX	Designed by DT Checked by MR	
XP Solutions		Network 2020.1

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Surface Network 2

Pipe Sizes STANDARD Manhole Sizes STANDARD

FEH Rainfall Model

Return Period (years)	2	Volumetric Runoff Coeff.	0.750
		PIMP (%)	100
FEH Rainfall Version	2013	Add Flow / Climate Change (%)	0
Site Location	GB 490175 99535 SZ 90175 99535	Minimum Backdrop Height (m)	0.200
Data Type	Point	Maximum Backdrop Height (m)	1.500
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	1.200
Maximum Time of Concentration (mins)	30	Min Vel for Auto Design only (m/s)	1.00
Foul Sewage (l/s/ha)	0.000	Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Network Design Table for Surface Network 2

« - Indicates pipe capacity < flow

PN	Length	Fall	Slope	I.Area	T.E.	Base	k	HYD	DIA	Section Type	Auto
	(m)	(m)	(1:X)	(ha)	(mins)	Flow (l/s)	(mm)	SECT	(mm)		Design

Network Results Table

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Network Design Table for Surface Network 2 <table><thead><tr><th>PN</th><th>Rain (mm/hr)</th><th>T.C. (mins)</th><th>US/IL (m)</th><th>Σ I (ha)</th><th>Area Flow</th><th>Σ Base (l/s)</th><th>Foul (l/s)</th><th>Add Flow (l/s)</th><th>Vel (m/s)</th><th>Cap (l/s)</th><th>Flow (l/s)</th></tr></thead></table>			PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I (ha)	Area Flow	Σ Base (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I (ha)	Area Flow	Σ Base (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)			
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Network Design Table for Surface Network 2

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	56.721	0.110	515.6	0.216	5.00	0.0	0.600	o	600	Pipe/Conduit	
1.001	17.615	0.040	440.4	0.016	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.002	22.812	0.050	456.2	0.032	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.003	30.540	0.060	509.0	0.024	0.00	0.0	0.600	o	600	Pipe/Conduit	
2.000	6.105	0.020	305.3	0.236	5.00	0.0	0.600	o	600	Pipe/Conduit	
1.004	18.275	0.035	522.1	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	
3.000	16.402	0.045	364.5	0.000	5.00	0.0	0.600	ooo	225	Triple Pipe	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	I.Area (ha)	Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.89	4.550	0.216	0.0	0.0	0.0	1.07	301.3	29.3
1.001	50.00	6.14	4.440	0.233	0.0	0.0	0.0	1.15	326.3	31.5
1.002	50.00	6.48	4.400	0.265	0.0	0.0	0.0	1.13	320.5	35.8
1.003	50.00	6.95	4.350	0.289	0.0	0.0	0.0	1.07	303.2	39.1
2.000	50.00	5.07	4.310	0.236	0.0	0.0	0.0	1.39	392.6	31.9
1.004	50.00	7.24	4.290	0.525	0.0	0.0	0.0	1.06	299.4	71.0
3.000	50.00	5.40	4.325	0.000	0.0	0.0	0.0	0.68	81.0	0.0

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Network Design Table for Surface Network 2

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
6.004	9.363	0.025	374.5	0.071	0.00	0.0	0.600	o	450	Pipe/Conduit	
6.005	7.401	0.020	370.1	0.000	0.00	0.0	0.600	o	450	Pipe/Conduit	
6.006	13.950	0.035	398.6	0.000	0.00	0.0	0.600	o	450	Pipe/Conduit	
6.007	6.567	0.020	328.4	0.045	0.00	0.0	0.600	o	450	Pipe/Conduit	
6.008	4.521	0.035	129.2	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	

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)
6.004	50.00	6.96	4.270	0.343	0.0	0.0	0.0	1.04	166.1	46.4
6.005	50.00	7.08	4.245	0.343	0.0	0.0	0.0	1.05	167.1	46.4
6.006	50.00	7.31	4.225	0.343	0.0	0.0	0.0	1.01	161.0	46.4
6.007	50.00	7.41	4.190	0.388	0.0	0.0	0.0	1.12	177.6	52.5
6.008	50.00	7.49	4.170	0.388	0.0	0.0	0.0	0.88	15.6	52.5

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Online Controls for Surface Network 2

Hydro-Brake® Optimum Manhole: SWMH17.9, DS/PN: 1.010, Volume (m³): 6.4

Unit Reference MD-SHE-0094-4100-1165-4100	Sump Available Yes
Design Head (m) 1.165	Diameter (mm) 94
Design Flow (l/s) 4.1	Invert Level (m) 4.170
Flush-Flo™ Calculated Minimum Outlet Pipe Diameter (mm) 150	
Objective Minimise upstream storage	Suggested Manhole Diameter (mm) 1200
Application Surface	

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.165	4.1	Kick-Flo®	0.725	3.3
Flush-Flo™	0.350	4.1	Mean Flow over Head Range	-	3.6

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	3.0	0.600	3.8	1.600	4.7	2.600	6.0	5.000	8.1	7.500	9.8
0.200	3.9	0.800	3.4	1.800	5.0	3.000	6.4	5.500	8.5	8.000	10.1
0.300	4.1	1.000	3.8	2.000	5.3	3.500	6.9	6.000	8.8	8.500	10.4
0.400	4.1	1.200	4.2	2.200	5.5	4.000	7.3	6.500	9.2	9.000	10.7
0.500	4.0	1.400	4.5	2.400	5.7	4.500	7.7	7.000	9.5	9.500	11.0

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<u>Hydro-Brake® Optimum Manhole: SWMH21.7, DS/PN: 6.008, Volume (m³): 3.5</u> <table><tr><td>Unit Reference</td><td>MD-SHE-0057-1600-1230-1600</td><td>Sump Available</td><td>Yes</td></tr><tr><td>Design Head (m)</td><td>1.230</td><td>Diameter (mm)</td><td>57</td></tr><tr><td>Design Flow (l/s)</td><td>1.6</td><td>Invert Level (m)</td><td>4.170</td></tr><tr><td>Flush-Flo™</td><td>Calculated</td><td>Minimum Outlet Pipe Diameter (mm)</td><td>75</td></tr><tr><td>Objective</td><td>Minimise upstream storage</td><td>Suggested Manhole Diameter (mm)</td><td>1200</td></tr><tr><td>Application</td><td>Surface</td><td></td><td></td></tr></table> <table><tr><td>Control Points</td><td>Head (m)</td><td>Flow (l/s)</td><td>Control Points</td><td>Head (m)</td><td>Flow (l/s)</td></tr><tr><td>Design Point (Calculated)</td><td>1.230</td><td>1.6</td><td>Kick-Flo®</td><td>0.509</td><td>1.1</td></tr><tr><td>Flush-Flo™</td><td>0.250</td><td>1.3</td><td>Mean Flow over Head Range</td><td>-</td><td>1.3</td></tr></table> The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidate <table><tr><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td></tr><tr><td>0.100</td><td>1.2</td><td>0.600</td><td>1.2</td><td>1.600</td><td>1.8</td><td>2.600</td><td>2.3</td><td>5.000</td><td>3.0</td><td>7.500</td><td>3.7</td></tr><tr><td>0.200</td><td>1.3</td><td>0.800</td><td>1.3</td><td>1.800</td><td>1.9</td><td>3.000</td><td>2.4</td><td>5.500</td><td>3.2</td><td>8.000</td><td>3.8</td></tr><tr><td>0.300</td><td>1.3</td><td>1.000</td><td>1.5</td><td>2.000</td><td>2.0</td><td>3.500</td><td>2.6</td><td>6.000</td><td>3.3</td><td>8.500</td><td>3.9</td></tr><tr><td>0.400</td><td>1.3</td><td>1.200</td><td>1.6</td><td>2.200</td><td>2.1</td><td>4.000</td><td>2.7</td><td>6.500</td><td>3.4</td><td>9.000</td><td>4.0</td></tr><tr><td>0.500</td><td>1.1</td><td>1.400</td><td>1.7</td><td>2.400</td><td>2.2</td><td>4.500</td><td>2.9</td><td>7.000</td><td>3.6</td><td>9.500</td><td>4.1</td></tr></table>			Unit Reference	MD-SHE-0057-1600-1230-1600	Sump Available	Yes	Design Head (m)	1.230	Diameter (mm)	57	Design Flow (l/s)	1.6	Invert Level (m)	4.170	Flush-Flo™	Calculated	Minimum Outlet Pipe Diameter (mm)	75	Objective	Minimise upstream storage	Suggested Manhole Diameter (mm)	1200	Application	Surface			Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)	Design Point (Calculated)	1.230	1.6	Kick-Flo®	0.509	1.1	Flush-Flo™	0.250	1.3	Mean Flow over Head Range	-	1.3	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	0.100	1.2	0.600	1.2	1.600	1.8	2.600	2.3	5.000	3.0	7.500	3.7	0.200	1.3	0.800	1.3	1.800	1.9	3.000	2.4	5.500	3.2	8.000	3.8	0.300	1.3	1.000	1.5	2.000	2.0	3.500	2.6	6.000	3.3	8.500	3.9	0.400	1.3	1.200	1.6	2.200	2.1	4.000	2.7	6.500	3.4	9.000	4.0	0.500	1.1	1.400	1.7	2.400	2.2	4.500	2.9	7.000	3.6	9.500	4.1
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2 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 2																													
Simulation Criteria Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000 Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800 Hot StartLevel (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000 Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0 Number of Online Controls 2 Number of Storage Structures 4 Number of Real Time Controls 0 Synthetic Rainfall Details Rainfall Model FEH Data Type Point FEH Rainfall Version 2013 Cv (Summer) 1.000 Site Location GB 490175 99535 SZ 90175 99535 Cv (Winter) 1.000 Margin for Flood Risk Warning (mm) 300.0 DVD Status ON Analysis Timestep 2.5 Second Increment (Extended) Inertia Status OFF DTS Status ON Profile(s) Summer and Winter Duration(s) (mins) 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880 Return Period(s) (years) 2, 10, 30, 100 Climate Change (%) 0, 0, 0, 40 <table><tr><td colspan="2"></td><td colspan="2">Water</td><td>Surcharged</td><td>Flooded</td><td colspan="2">Half Drain</td><td>Pipe</td></tr><tr><td>US/MH</td><td>US/CL</td><td>Level</td><td>Depth</td><td>Volume</td><td>Maximum</td><td>Time</td><td>Flow</td><td></td></tr><tr><td>PN Name</td><td>Event</td><td>(m)</td><td>(m)</td><td>(m³)</td><td>Vol (m³)</td><td>(mins)</td><td>(l/s)</td><td>Status</td></tr></table>					Water		Surcharged	Flooded	Half Drain		Pipe	US/MH	US/CL	Level	Depth	Volume	Maximum	Time	Flow		PN Name	Event	(m)	(m)	(m³)	Vol (m³)	(mins)	(l/s)	Status
		Water		Surcharged	Flooded	Half Drain		Pipe																					
US/MH	US/CL	Level	Depth	Volume	Maximum	Time	Flow																						
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10 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 2

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
 Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
 Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
 Number of Online Controls 2 Number of Storage Structures 4 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
 FEH Rainfall Version 2013 Cv (Summer) 1.000
 Site Location GB 490175 99535 SZ 90175 99535 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0 DVD Status ON
 Analysis Timestep 2.5 Second Increment (Extended) Inertia Status OFF
 DTS Status ON

Profile(s) Summer and Winter
 Duration(s) (mins) 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880
 Return Period(s) (years) 2, 10, 30, 100
 Climate Change (%) 0, 0, 0, 40

		Water Surcharged Flooded				Half Drain	Pipe
US/MH	US/CL	Level	Depth	Volume	Maximum	Time	Flow
PN Name Event	(m)	(m)	(m)	(m³)	Vol (m³)	(mins)	(l/s) Status

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30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 2

Simulation Criteria

Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000
 Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800
 Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
 Number of Online Controls 2 Number of Storage Structures 4 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FEH Data Type Point
 FEH Rainfall Version 2013 Cv (Summer) 1.000
 Site Location GB 490175 99535 SZ 90175 99535 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0 DVD Status ON
 Analysis Timestep 2.5 Second Increment (Extended) Inertia Status OFF
 DTS Status ON

Profile(s) Summer and Winter
 Duration(s) (mins) 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880
 Return Period(s) (years) 2, 10, 30, 100
 Climate Change (%) 0, 0, 0, 40

		Water Surcharged Flooded				Half Drain	Pipe
US/MH	US/CL	Level	Depth	Volume	Maximum	Time	Flow
PN Name	Event	(m)	(m)	(m ³)	Vol (m ³)	(mins)	(l/s) Status

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Margin for Flood Risk Warning (mm) 300.0 DVD Status ON Analysis Timestep 2.5 Second Increment (Extended) Inertia Status OFF DTS Status ON																																					
Profile(s) Summer and Winter Duration(s) (mins) 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880 Return Period(s) (years) 2, 10, 30, 100 Climate Change (%) 0, 0, 0, 40																																					
<table><tr><td colspan="2"></td><td colspan="3">Water Surcharged Flooded</td><td colspan="2">Half Drain Pipe</td></tr><tr><td>US/MH</td><td>US/CL</td><td>Level</td><td>Depth</td><td>Volume</td><td>Maximum</td><td>Time</td></tr><tr><td>PN Name</td><td>Event</td><td>(m)</td><td>(m)</td><td>(m³)</td><td>Vol (m³)</td><td>(mins)</td></tr><tr><td colspan="6"></td><td>Flow</td></tr><tr><td colspan="6"></td><td>(l/s) Status</td></tr></table>					Water Surcharged Flooded			Half Drain Pipe		US/MH	US/CL	Level	Depth	Volume	Maximum	Time	PN Name	Event	(m)	(m)	(m³)	Vol (m³)	(mins)							Flow							(l/s) Status
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