

Renaissance Assoc.

Carvers Warehouse
77 Dale Street
Manchester M1 2HG

Date 20/11/2024 17:46
File Vic House As Built Drai...

Innovyze

Designed by HenryWilkinson
Checked by

Network 2020.1.3

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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)	Section Type	Auto Design
S3.000	11.566	0.140	82.6	0.005	5.00	0.0	0.600	o	150	Pipe/Conduit	
S4.000	4.207	0.125	33.7	0.007	5.00	0.0	0.600	o	150	Pipe/Conduit	
S1.002	8.663	0.108	80.0	0.004	0.00	0.0	0.600	o	225	Pipe/Conduit	
S5.000	3.621	0.039	92.8	0.007	5.00	0.0	0.600	o	150	Pipe/Conduit	
S1.003	3.164#	0.030	105.5	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
S1.004	4.781#	0.040	119.5	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
S1.005	5.732	0.059	97.2	0.007	0.00	0.0	0.600	o	225	Pipe/Conduit	
S6.000	2.170	0.094	23.1	0.002	5.00	0.0	0.600	o	150	Pipe/Conduit	
S6.001	1.885	0.021	89.8	0.016	0.00	0.0	0.600	o	150	Pipe/Conduit	
S1.006	2.755	0.217	12.7	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
S3.000	50.00	5.17	47.525	0.005	0.0	0.0	0.0	1.11	19.6	0.7
S4.000	50.00	5.04	47.517	0.007	0.0	0.0	0.0	1.74	30.8	0.9
S1.002	50.00	5.39	47.310	0.101	0.0	0.0	0.0	1.46	58.2	13.7
S5.000	50.00	5.06	47.316	0.007	0.0	0.0	0.0	1.04	18.4	0.9
S1.003	50.00	5.43	46.530	0.108	0.0	0.0	0.0	1.27	50.6	14.6
S1.004	50.00	5.50	46.500	0.108	0.0	0.0	0.0	1.19	47.5	14.6
S1.005	50.00	5.57	46.460	0.115	0.0	0.0	0.0	1.33	52.7	15.6
S6.000	50.00	5.02	46.591	0.002	0.0	0.0	0.0	2.10	37.2	0.3
S6.001	50.00	5.05	46.497	0.018	0.0	0.0	0.0	1.06	18.8	2.4
S1.006	50.00	5.58	46.401	0.133	0.0	0.0	0.0	3.69	146.8	18.0

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Area Summary for Storm

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
1.000	-	-	100	0.082	0.082	0.082
2.000	-	-	100	0.000	0.000	0.000
1.001	-	-	100	0.003	0.003	0.003
3.000	-	-	100	0.005	0.005	0.005
4.000	-	-	100	0.007	0.007	0.007
1.002	-	-	100	0.004	0.004	0.004
5.000	-	-	100	0.007	0.007	0.007
1.003	-	-	100	0.000	0.000	0.000
1.004	-	-	100	0.000	0.000	0.000
1.005	-	-	100	0.007	0.007	0.007
6.000	-	-	100	0.002	0.002	0.002
6.001	-	-	100	0.016	0.016	0.016
1.006	-	-	100	0.000	0.000	0.000
				Total	Total	Total
				0.133	0.133	0.133

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Network Classifications for Storm

PN	USMH Name	Pipe Dia (mm)	Min Cover Depth (m)	Max Cover Depth (m)	Pipe Type	MH Dia (mm)	MH Width (mm)	MH Ring Depth (m)	MH Type
S1.000	S1.00	225	1.051	1.097	Unclassified	450	0	1.051	Unclassified
S2.000	S2.00	150	1.018	1.097	Unclassified	450	0	1.018	Unclassified
S1.001	S1.01	225	1.097	1.400	Unclassified	600	0	1.097	Unclassified
S3.000	S3.00	150	1.200	1.400	Unclassified	450	0	1.200	Unclassified
S4.000	S4.00	150	1.193	1.393	Unclassified	450	0	1.193	Unclassified
S1.002	S1.02	225	1.400	1.493	Unclassified	600	0	1.400	Unclassified
S5.000	S5.00	150	1.309	1.493	Unclassified	450	0	1.309	Unclassified
S1.003	S1.03	225	1.275	2.165	Unclassified	1200	0	2.165	Unclassified
S1.004	S1.04	225	1.275	1.485	Unclassified				Junction
S1.005	S1.05	225	1.274	1.485	Unclassified	1050	0	1.485	Unclassified
S6.000	S6.00	150	1.239	1.433	Unclassified	450	0	1.239	Unclassified
S6.001	S6.01	150	1.274	1.433	Unclassified	450	0	1.433	Unclassified
S1.006	S1.06	225	1.274	1.356	Unclassified	1200	0	1.274	Unclassified

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)
S1.006	S	47.765	46.184	0.000	0	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m ³ /ha Storage	2.000
Hot Start (mins)	0	Inlet Coeffiecient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1
Number of Input Hydrographs		0	Number of Storage Structures
Number of Online Controls		1	Number of Time/Area Diagrams
Number of Offline Controls		0	Number of Real Time Controls

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	18.000	Storm Duration (mins)	30
Ratio R	0.359		

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Online Controls for Storm

Hydro-Brake® Optimum Manhole: S1.06, DS/PN: S1.006, Volume (m³): 1.9

Unit Reference	MD-SFP-0142-1100-1390-1100
Design Head (m)	1.390
Design Flow (l/s)	11.0
Flush-Flo™	Calculated
Objective	Future Proof
Application	Surface
Sump Available	Yes
Diameter (mm)	142
Invert Level (m)	46.401
Minimum Outlet Pipe Diameter (mm)	225
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.390	11.0
Flush-Flo™	0.350	11.0
Kick-Flo®	0.813	8.6
Mean Flow over Head Range	-	9.4

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)
0.100	5.4	1.200	10.3	3.000	15.8	7.000	23.7
0.200	10.4	1.400	11.0	3.500	17.0	7.500	24.5
0.300	10.9	1.600	11.8	4.000	18.1	8.000	25.3
0.400	10.9	1.800	12.4	4.500	19.2	8.500	26.0
0.500	10.7	2.000	13.1	5.000	20.2	9.000	26.8
0.600	10.4	2.200	13.7	5.500	21.1	9.500	27.5
0.800	8.8	2.400	14.2	6.000	22.0		
1.000	9.4	2.600	14.8	6.500	22.9		

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<div>Storage Structures for Storm</div> <div>Cellular Storage Manhole: S1.04, DS/PN: S1.004</div> <div>Invert Level (m) 46.500 Safety Factor 2.0 Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95 Infiltration Coefficient Side (m/hr) 0.00000</div> <table><thead><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr></thead><tbody><tr><td>0.000</td><td>22.5</td><td>0.0</td><td>1.076</td><td>0.0</td><td>0.0</td></tr><tr><td>1.075</td><td>22.5</td><td>0.0</td><td></td><td></td><td></td></tr></tbody></table>			Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	0.000	22.5	0.0	1.076	0.0	0.0	1.075	22.5	0.0			
Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)															
0.000	22.5	0.0	1.076	0.0	0.0															
1.075	22.5	0.0																		
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1 year Return Period Summary of Critical Results by Maximum Level (Rank 1)
for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 2.000

Hot Start Level (mm) 0

Inlet Coefficient 0.800

Manhole Headloss Coeff (Global) 0.500

Flow per Person per Day (l/per/day) 0.000

Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0

Number of Storage Structures 1

Number of Online Controls 1

Number of Time/Area Diagrams 0

Number of Offline Controls 0

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model

FSR

Ratio R 0.357

Region England and Wales Cv (Summer) 0.750

M5-60 (mm)

18.000 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm)

400.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status

OFF

DVD Status

ON

Inertia Status

ON

Profile(s)

Summer and Winter

Duration(s) (mins)

15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

Return Period(s) (years)

1, 2, 30, 100

Climate Change (%)

0, 0, 0, 40

				Water Surcharged Flooded				
PN	US/MH Name	Event	US/CL (m)	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	
S1.000	S1.00	15 minute 1 year Winter I+0%	48.950	47.763	-0.136	0.000	0.33	
S2.000	S2.00	15 minute 1 year Summer I+0%	48.960	47.792	-0.150	0.000	0.00	
S1.001	S1.01	15 minute 1 year Winter I+0%	48.960	47.700	-0.163	0.000	0.17	
S3.000	S3.00	15 minute 1 year Winter I+0%	48.875	47.543	-0.132	0.000	0.03	
S4.000	S4.00	15 minute 1 year Winter I+0%	48.860	47.536	-0.131	0.000	0.04	
S1.002	S1.02	15 minute 1 year Winter I+0%	48.935	47.388	-0.147	0.000	0.26	
S5.000	S5.00	15 minute 1 year Winter I+0%	48.775	47.342	-0.124	0.000	0.07	
S1.003	S1.03	15 minute 1 year Winter I+0%	48.920	46.634	-0.121	0.000	0.43	
S1.004	S1.04	15 minute 1 year Winter I+0%	48.000	46.601	-0.124	0.000	0.30	
S1.005	S1.05	15 minute 1 year Winter I+0%	48.170	46.595	-0.090	0.000	0.27	
S6.000	S6.00	15 minute 1 year Winter I+0%	47.980	46.600	-0.141	0.000	0.01	
S6.001	S6.01	15 minute 1 year Winter I+0%	48.080	46.588	-0.059	0.000	0.17	
S1.006	S1.06	15 minute 1 year Winter I+0%	47.900	46.587	-0.039	0.000	0.16	

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1 year Return Period Summary of Critical Results by Maximum Level (Rank 1)
for Storm

		Pipe		
		US/MH	Overflow	Flow
PN	Name	(1/s)	(1/s)	Status
S1.000	S1.00		9.8	OK
S2.000	S2.00		0.0	OK
S1.001	S1.01		10.0	OK
S3.000	S3.00		0.6	OK
S4.000	S4.00		0.8	OK
S1.002	S1.02		11.9	OK
S5.000	S5.00		0.8	OK
S1.003	S1.03		12.9	OK
S1.004	S1.04		8.8	OK*
S1.005	S1.05		9.1	OK
S6.000	S6.00		0.2	OK
S6.001	S6.01		1.9	OK
S1.006	S1.06		10.2	OK

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77 Dale Street

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2 year Return Period Summary of Critical Results by Maximum Level (Rank 1)

for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor * 10m³/ha Storage 2.000

Hot Start Level (mm) 0

Inlet Coeffiecient 0.800

Manhole Headloss Coeff (Global) 0.500

Flow per Person per Day (l/per/day) 0.000

Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0

Number of Storage Structures 1

Number of Online Controls 1

Number of Time/Area Diagrams 0

Number of Offline Controls 0

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR

Ratio R 0.357

Region England and Wales Cv (Summer) 0.750

M5-60 (mm) 18.000

Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 400.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia Status ON

Profile(s) Summer and Winter

Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440

Return Period(s) (years) 1, 2, 30, 100

Climate Change (%) 0, 0, 0, 40

				Water	Surcharged	Flooded		
PN	US/MH Name	Event	US/CL (m)	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	
S1.000	S1.00	15 minute 2 year Winter I+0%	48.950	47.777	-0.122	0.000	0.43	
S2.000	S2.00	15 minute 2 year Summer I+0%	48.960	47.792	-0.150	0.000	0.00	
S1.001	S1.01	15 minute 2 year Winter I+0%	48.960	47.710	-0.153	0.000	0.22	
S3.000	S3.00	15 minute 2 year Winter I+0%	48.875	47.545	-0.130	0.000	0.04	
S4.000	S4.00	15 minute 2 year Winter I+0%	48.860	47.538	-0.129	0.000	0.05	
S1.002	S1.02	15 minute 2 year Winter I+0%	48.935	47.400	-0.135	0.000	0.33	
S5.000	S5.00	15 minute 2 year Winter I+0%	48.775	47.346	-0.120	0.000	0.09	
S1.003	S1.03	15 minute 2 year Winter I+0%	48.920	46.651	-0.104	0.000	0.56	
S1.004	S1.04	15 minute 2 year Winter I+0%	48.000	46.645	-0.080	0.000	0.30	
S1.005	S1.05	15 minute 2 year Winter I+0%	48.170	46.642	-0.043	0.000	0.27	
S6.000	S6.00	15 minute 2 year Winter I+0%	47.980	46.636	-0.105	0.000	0.02	
S6.001	S6.01	15 minute 2 year Winter I+0%	48.080	46.636	-0.011	0.000	0.20	
S1.006	S1.06	15 minute 2 year Winter I+0%	47.900	46.634	0.008	0.000	0.16	

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

		Pipe		
	US/MH	Overflow	Flow	
PN	Name	(l/s)	(l/s)	Status
S1.000	S1.00		12.7	OK
S2.000	S2.00		0.0	OK
S1.001	S1.01		13.0	OK
S3.000	S3.00		0.8	OK
S4.000	S4.00		1.1	OK
S1.002	S1.02		15.4	OK
S5.000	S5.00		1.1	OK
S1.003	S1.03		16.6	OK
S1.004	S1.04		9.0	OK*
S1.005	S1.05		9.3	OK
S6.000	S6.00		0.3	OK
S6.001	S6.01		2.2	OK
S1.006	S1.06		10.6	SURCHARGED

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

		Pipe		Status
PN	US/MH Name	Overflow (l/s)	Flow (l/s)	
S1.000	S1.00		24.0	OK
S2.000	S2.00		0.0	OK
S1.001	S1.01		24.7	OK
S3.000	S3.00		1.5	OK
S4.000	S4.00		2.1	OK
S1.002	S1.02		29.5	OK
S5.000	S5.00		2.1	OK
S1.003	S1.03		24.2	SURCHARGED
S1.004	S1.04		10.0	SURCHARGED*
S1.005	S1.05		10.3	SURCHARGED
S6.000	S6.00		0.3	SURCHARGED
S6.001	S6.01		3.7	SURCHARGED
S1.006	S1.06		10.9	SURCHARGED

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Margin for Flood Risk Warning (mm)				400.0																																																																																																																																										
Analysis Timestep 2.5				Second Increment (Extended)																																																																																																																																										
DTS Status				OFF																																																																																																																																										
DVD Status				ON																																																																																																																																										
Inertia Status				ON																																																																																																																																										
Profile(s)				Summer and Winter																																																																																																																																										
Duration(s) (mins)				15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440																																																																																																																																										
Return Period(s) (years)				1, 2, 30, 100																																																																																																																																										
Climate Change (%)				0, 0, 0, 40																																																																																																																																										
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