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12 Oxford Street Nottingham NG1 5BG		Hinckley Boxing Centre Storm	
Date 11/03/2024 File Storm.MDX		Designed by CE Checked by	
Innovyze		Network 2018.1.1	

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)	100	PIMP (%)	100
M5-60 (mm)	20.000	Add Flow / Climate Change (%)	0
Ratio R	0.400	Minimum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Maximum Backdrop Height (m)	0.000
Maximum Time of Concentration (mins)	30	Min Design Depth for Optimisation (m)	1.200
Foul Sewage (l/s/ha)	0.000	Min Vel for Auto Design only (m/s)	1.00
Volumetric Runoff Coeff.	0.750	Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

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
1.000	36.000	0.240	150.0	0.043	5.00	0.0	0.600	o	150	Pipe/Conduit	
1.001	22.700	0.240	94.6	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
2.000	36.000	0.240	150.0	0.040	5.00	0.0	0.600	o	150	Pipe/Conduit	
1.002	10.000	0.320	31.3	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
3.000	26.000	0.173	150.3	0.000	5.00	0.0	0.600	o	150	Pipe/Conduit	
3.001	5.700	0.038	150.0	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)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.73	95.500	0.043	0.0	0.0	0.0	0.82	14.5	5.8
1.001	50.00	6.10	95.260	0.043	0.0	0.0	0.0	1.03	18.3	5.8
2.000	50.00	5.73	95.260	0.040	0.0	0.0	0.0	0.82	14.5	5.4
1.002	50.00	6.19	95.020	0.083	0.0	0.0	0.0	1.81	31.9	11.2
3.000	50.00	5.53	95.350	0.000	0.0	0.0	0.0	0.82	14.4	0.0
3.001	50.00	5.65	95.177	0.000	0.0	0.0	0.0	0.82	14.5	0.0

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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)	Backdrop (mm)
1	96.350	0.850	Junction		1.000	95.500	150				
2	96.350	1.090	Open Manhole	450	1.001	95.260	150	1.000	95.260	150	
3	96.350	1.090	Junction		2.000	95.260	150				
4	96.350	1.330	Open Manhole	450	1.002	95.020	150	1.001	95.020	150	
								2.000	95.020	150	
5	96.100	0.750	Junction		3.000	95.350	150				
6	95.990	0.813	Open Manhole	600	3.001	95.177	150	3.000	95.177	150	
7	96.230	0.891	Junction		4.000	95.339	150				
8	96.130	1.066	Open Manhole	600	3.002	95.064	225	3.001	95.139	150	
								4.000	95.139	150	
9	96.330	0.600	Junction		5.000	95.730	150				
10	96.200	0.537	Open Manhole	450	5.001	95.663	150	5.000	95.663	150	
11	96.300	0.704	Open Manhole	450	5.002	95.596	150	5.001	95.596	150	
12	96.030	1.042	Open Manhole	600	3.003	94.988	225	3.002	94.988	225	
								5.002	95.063	150	
13	96.300	1.050	Junction		6.000	95.250	150				
14	96.180	1.280	Open Manhole	600	3.004	94.900	225	3.003	94.900	225	
								6.000	94.975	150	
15	96.350	1.725	Open Manhole	1200	1.003	94.625	225	1.002	94.700	150	
								3.004	94.625	225	
	95.500	1.100	Open Manhole	0		OUTFALL		1.003	94.400	225	
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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)
3.003	o	225	12	96.030	94.988	0.817	Open Manhole	600
6.000	o	150	13	96.300	95.250	0.900	Junction	
3.004	o	225	14	96.180	94.900	1.055	Open Manhole	600
1.003	o	225	15	96.350	94.625	1.500	Open Manhole	1200

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)
3.003	5.600	63.6	14	96.180	94.900	1.055	Open Manhole	600
6.000	34.000	123.6	14	96.180	94.975	1.055	Open Manhole	600
3.004	29.800	108.4	15	96.350	94.625	1.500	Open Manhole	1200
1.003	22.000	97.8		95.500	94.400	0.875	Open Manhole	0

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)
1.003		95.500	94.400	93.990	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 * 10m³/ha Storage	2.000
Hot Start (mins)	0	Inlet Coefficient	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 Offline Controls 0 Number of Time/Area Diagrams 4

Number of Online Controls 1 Number of Storage Structures 5 Number of Real Time Controls 0

Synthetic Rainfall Details

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Simulation Criteria for Storm <table><tr><td>Rainfall Model</td><td>FSR</td><td>Profile Type</td><td>Summer</td></tr><tr><td>Return Period (years)</td><td>100</td><td>Cv (Summer)</td><td>0.750</td></tr><tr><td>Region</td><td>England and Wales</td><td>Cv (Winter)</td><td>0.840</td></tr><tr><td>M5-60 (mm)</td><td>20.000</td><td>Storm Duration (mins)</td><td>30</td></tr><tr><td>Ratio R</td><td>0.400</td><td></td><td></td></tr></table>			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)	20.000	Storm Duration (mins)	30	Ratio R	0.400		
Rainfall Model	FSR	Profile Type	Summer																			
Return Period (years)	100	Cv (Summer)	0.750																			
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Innovyze Network 2018.1.1		
Online Controls for Storm Orifice Manhole: 15, DS/PN: 1.003, Volume (m³): 3.3 Diameter (m) 0.049 Discharge Coefficient 0.600 Invert Level (m) 94.625		
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<u>Storage Structures for Storm</u>		
<u>Porous Car Park Manhole: 5, DS/PN: 3.000</u>		
Infiltration Coefficient Base (m/hr)	0.00000	Width (m) 11.5
Membrane Percolation (mm/hr)	1000	Length (m) 31.0
Max Percolation (l/s)	99.0	Slope (1:X) 100.0
Safety Factor	2.0	Depression Storage (mm) 5
Porosity	0.30	Evaporation (mm/day) 3
Invert Level (m)	95.770	Membrane Depth (mm) 0
<u>Porous Car Park Manhole: 7, DS/PN: 4.000</u>		
Infiltration Coefficient Base (m/hr)	0.00000	Width (m) 5.5
Membrane Percolation (mm/hr)	1000	Length (m) 30.0
Max Percolation (l/s)	45.8	Slope (1:X) 100.0
Safety Factor	2.0	Depression Storage (mm) 5
Porosity	0.30	Evaporation (mm/day) 3
Invert Level (m)	95.710	Membrane Depth (mm) 0
<u>Porous Car Park Manhole: 11, DS/PN: 5.002</u>		
Infiltration Coefficient Base (m/hr)	0.00000	Width (m) 5.5
Membrane Percolation (mm/hr)	1000	Length (m) 33.0
Max Percolation (l/s)	50.4	Slope (1:X) 100.0
Safety Factor	2.0	Depression Storage (mm) 5
Porosity	0.30	Evaporation (mm/day) 3
Invert Level (m)	95.850	Membrane Depth (mm) 0
<u>Porous Car Park Manhole: 13, DS/PN: 6.000</u>		
Infiltration Coefficient Base (m/hr)	0.00000	Width (m) 11.5
Membrane Percolation (mm/hr)	1000	Length (m) 38.0
Max Percolation (l/s)	121.4	Slope (1:X) 100.0
Safety Factor	2.0	Depression Storage (mm) 5
Porosity	0.30	Evaporation (mm/day) 3
Invert Level (m)	95.850	Membrane Depth (mm) 0
<u>Cellular Storage Manhole: 15, DS/PN: 1.003</u>		
Invert Level (m)	94.650	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)
0.000	90.0	90.0
0.800	90.0	123.6
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Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.900	0.0	123.6			

Area (m ³)	360	Evaporation (mm/day)	3
Depression Storage (mm)	5	Decay Coefficient	0.050

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From: To:	(ha)	From: To:	(ha)	From: To:	(ha)	From: To:	(ha)
0 4	0.006542	32 36	0.001321	64 68	0.000267	96 100	0.000054
4 8	0.005356	36 40	0.001081	68 72	0.000218	100 104	0.000044
8 12	0.004385	40 44	0.000885	72 76	0.000179	104 108	0.000036
12 16	0.003590	44 48	0.000725	76 80	0.000146	108 112	0.000030
16 20	0.002939	48 52	0.000593	80 84	0.000120	112 116	0.000024
20 24	0.002407	52 56	0.000486	84 88	0.000098	116 120	0.000020
24 28	0.001970	56 60	0.000398	88 92	0.000080		
28 32	0.001613	60 64	0.000326	92 96	0.000066		

Area (m ³)	167	Evaporation (mm/day)	3
Depression Storage (mm)	5	Decay Coefficient	0.050

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From: To:	(ha)	From: To:	(ha)	From: To:	(ha)	From: To:	(ha)
0 4	0.003035	32 36	0.000613	64 68	0.000124	96 100	0.000025
4 8	0.002485	36 40	0.000502	68 72	0.000101	100 104	0.000020
8 12	0.002034	40 44	0.000411	72 76	0.000083	104 108	0.000017
12 16	0.001665	44 48	0.000336	76 80	0.000068	108 112	0.000014
16 20	0.001364	48 52	0.000275	80 84	0.000056	112 116	0.000011
20 24	0.001116	52 56	0.000225	84 88	0.000046	116 120	0.000009
24 28	0.000914	56 60	0.000185	88 92	0.000037		
28 32	0.000748	60 64	0.000151	92 96	0.000031		

Area (m ³)	180	Evaporation (mm/day)	3
Depression Storage (mm)	5	Decay Coefficient	0.050

Time (mins)			Time (mins)			Time (mins)			Time (mins)		
From:	To:	Area (ha)	From:	To:	Area (ha)	From:	To:	Area (ha)	From:	To:	Area (ha)
0	4	0.003271	4	8	0.002678	8	12	0.002193	12	16	0.001795

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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 Offline Controls	0	Number of Time/Area Diagrams	4
Number of Online Controls	1	Number of Storage Structures	5	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.400
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	20.000	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	450.0	DVD Status	ON
Analysis Timestep	Fine	Inertia Status	OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
1.000	1	15 Winter	1	+0%					95.567
1.001	2	15 Winter	1	+0%	100/15 Summer				95.320
2.000	3	15 Winter	1	+0%					95.325
1.002	4	15 Winter	1	+0%	100/15 Summer				95.085
3.000	5	240 Winter	1	+0%	100/180 Winter				95.372
3.001	6	240 Winter	1	+0%	100/60 Winter				95.201
4.000	7	240 Winter	1	+0%	100/120 Winter				95.355
3.002	8	240 Winter	1	+0%	100/60 Winter				95.090
5.000	9	360 Winter	1	+0%					95.730
5.001	10	360 Winter	1	+0%					95.663
5.002	11	240 Winter	1	+0%					95.609
3.003	12	240 Winter	1	+0%	100/60 Summer				95.016
6.000	13	180 Winter	1	+0%	100/120 Winter				95.274
3.004	14	180 Winter	1	+0%	100/30 Summer				94.933
1.003	15	240 Winter	1	+0%	30/30 Winter				94.744

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

PN	US/MH Name	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
		Depth (m)	Volume (m³)					
1.000	1	-0.083	0.000	0.40		5.8	OK*	
1.001	2	-0.090	0.000	0.33		5.7	OK	
2.000	3	-0.085	0.000	0.38		5.4	OK*	
1.002	4	-0.085	0.000	0.39		11.1	OK	
3.000	5	-0.128	0.000	0.06		0.8	OK*	
3.001	6	-0.126	0.000	0.06		0.7	OK	
4.000	7	-0.134	0.000	0.02		0.3	OK*	
3.002	8	-0.199	0.000	0.03		1.1	OK	
5.000	9	-0.150	0.000	0.00		0.0	OK*	
5.001	10	-0.150	0.000	0.00		0.0	OK	
5.002	11	-0.137	0.000	0.02		0.4	OK	
3.003	12	-0.197	0.000	0.03		1.4	OK	
6.000	13	-0.126	0.000	0.06		0.9	OK*	
3.004	14	-0.192	0.000	0.05		2.3	OK	
1.003	15	-0.106	0.000	0.03		1.5	OK	

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30 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 Offline Controls 0	Number of Time/Area Diagrams 4
Number of Online Controls 1	Number of Storage Structures 5	Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R 0.400
Region England and Wales	Cv (Summer)	0.750
M5-60 (mm)	20.000 Cv (Winter)	0.840

Margin for Flood Risk Warning (mm) 450.0	DVD Status ON
Analysis Timestep	Fine Inertia Status OFF
DTS Status	ON

Profile(s)

Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
1.000	1	15 Winter	30	+0%					95.629
1.001	2	15 Winter	30	+0%	100/15 Summer				95.364
2.000	3	15 Winter	30	+0%					95.376
1.002	4	15 Winter	30	+0%	100/15 Summer				95.137
3.000	5	60 Winter	30	+0%	100/180 Winter				95.399
3.001	6	60 Winter	30	+0%	100/60 Winter				95.231
4.000	7	60 Winter	30	+0%	100/120 Winter				95.372
3.002	8	60 Winter	30	+0%	100/60 Winter				95.120
5.000	9	360 Winter	30	+0%					95.730
5.001	10	360 Winter	30	+0%					95.663
5.002	11	60 Winter	30	+0%					95.624
3.003	12	180 Winter	30	+0%	100/60 Summer				95.053
6.000	13	60 Winter	30	+0%	100/120 Winter				95.302
3.004	14	180 Winter	30	+0%	100/30 Summer				95.052
1.003	15	180 Winter	30	+0%	30/30 Winter				95.046

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

PN	US/MH Name	Surcharged Flooded		Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
		Depth (m)	Volume (m ³)					
1.000	1	-0.021	0.000	0.99		14.2	OK*	
1.001	2	-0.046	0.000	0.81		14.1	OK	
2.000	3	-0.034	0.000	0.92		13.3	OK*	
1.002	4	-0.033	0.000	0.96		27.2	OK	
3.000	5	-0.101	0.000	0.23		3.4	OK*	
3.001	6	-0.096	0.000	0.28		3.4	OK	
4.000	7	-0.117	0.000	0.11		1.6	OK*	
3.002	8	-0.169	0.000	0.14		4.9	OK	
5.000	9	-0.150	0.000	0.00		0.0	OK*	
5.001	10	-0.150	0.000	0.00		0.0	OK	
5.002	11	-0.122	0.000	0.08		1.7	OK	
3.003	12	-0.160	0.000	0.11		4.6	OK	
6.000	13	-0.098	0.000	0.26		4.1	OK*	
3.004	14	-0.073	0.000	0.16		7.5	OK	
1.003	15	0.196	0.000	0.07		3.2	SURCHARGED	

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100 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 Offline Controls 0 Number of Time/Area Diagrams 4
Number of Online Controls 1 Number of Storage Structures 5 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R 0.400
Region England and Wales Cv (Summer)	0.750	
M5-60 (mm)	20.000 Cv (Winter)	0.840

Margin for Flood Risk Warning (mm) 450.0 DVD Status ON
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720,
960, 1440, 2160, 2880, 4320, 5760, 7200, 8640,
10080
Return Period(s) (years) 1, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
1.000	1	30 Winter	100	+40%					95.650
1.001	2	15 Winter	100	+40%	100/15 Summer				95.799
2.000	3	480 Winter	100	+40%					95.410
1.002	4	180 Winter	100	+40%	100/15 Summer				95.618
3.000	5	180 Winter	100	+40%	100/180 Winter				95.633
3.001	6	180 Winter	100	+40%	100/60 Winter				95.628
4.000	7	180 Winter	100	+40%	100/120 Winter				95.628
3.002	8	180 Winter	100	+40%	100/60 Winter				95.626
5.000	9	360 Winter	100	+40%					95.730
5.001	10	360 Winter	100	+40%					95.663
5.002	11	30 Winter	100	+40%					95.636
3.003	12	180 Winter	100	+40%	100/60 Summer				95.624
6.000	13	180 Winter	100	+40%	100/120 Winter				95.629
3.004	14	180 Winter	100	+40%	100/30 Summer				95.622
1.003	15	180 Winter	100	+40%	30/30 Winter				95.614

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