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25 Hollingworth Court Kent ME14 5PP	3474 2 VALE ROAD NETWORK - P01																																	
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Innovyze	Network 2020.1.3																																	
STORM SEWER DESIGN by the Modified Rational Method Design Criteria for Storm Pipe Sizes STANDARD Manhole Sizes STANDARD FEH Rainfall Model <table><tr><td>Return Period (years)</td><td>2</td><td>Volumetric Runoff Coeff.</td><td>0.750</td></tr><tr><td></td><td></td><td>PIMP (%)</td><td>100</td></tr><tr><td>FEH Rainfall Version</td><td>2013</td><td>Add Flow / Climate Change (%)</td><td>0</td></tr><tr><td>Site Location</td><td>GB 562797 173610 TQ 62797 73610</td><td>Minimum Backdrop Height (m)</td><td>0.200</td></tr><tr><td>Data Type</td><td>Point</td><td>Maximum Backdrop Height (m)</td><td>1.500</td></tr><tr><td>Maximum Rainfall (mm/hr)</td><td>50</td><td>Min Design Depth for Optimisation (m)</td><td>1.200</td></tr><tr><td>Maximum Time of Concentration (mins)</td><td>30</td><td>Min Vel for Auto Design only (m/s)</td><td>1.00</td></tr><tr><td>Foul Sewage (l/s/ha)</td><td>0.000</td><td>Min Slope for Optimisation (1:X)</td><td>500</td></tr></table> Designed with Level Soffits			Return Period (years)	2	Volumetric Runoff Coeff.	0.750			PIMP (%)	100	FEH Rainfall Version	2013	Add Flow / Climate Change (%)	0	Site Location	GB 562797 173610 TQ 62797 73610	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
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Network Design Table for Storm « - Indicates pipe capacity < flow <table><tr><td>PN</td><td>Length</td><td>Fall</td><td>Slope</td><td>I.Area</td><td>T.E.</td><td>Base</td><td>k</td><td>HYD</td><td>DIA</td><td>Section Type</td><td>Auto</td></tr><tr><td>(m)</td><td>(m)</td><td>(1:X)</td><td>(ha)</td><td>(mins)</td><td>Flow</td><td>(l/s)</td><td>(mm)</td><td>SECT</td><td>(mm)</td><td></td><td>Design</td></tr></table> Network Results Table			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								
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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
S1.000	9.201	0.230	40.0	0.008	6.00	0.0	0.600	o	100	Pipe/Conduit		
S1.001	7.586	0.095	79.9	0.007	0.00	0.0	0.600	o	100	Pipe/Conduit		
S2.000	6.809	0.325	21.0	0.004	6.00	0.0	0.600	o	100	Pipe/Conduit		
S1.002	5.793	0.097	59.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
S1.003	10.654	0.196	54.4	0.015	0.00	0.0	0.600	o	225	Pipe/Conduit		
S3.000	2.642	0.592	4.5	0.002	6.00	0.0	0.600	o	100	Pipe/Conduit		

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Manhole Schedules for Storm

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
SS11-CP	-375.801	524.334	-375.801	524.334	Required	
SATT1	-373.751	529.333			No Entry	
SSWP12	-364.619	533.095	-364.619	533.095	Required	
SS13-CP	-368.148	546.821	-368.148	546.821	Required	
S	-368.071	548.942			No Entry	

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<u>PIPELINE SCHEDULES for Storm</u>										
<u>Upstream Manhole</u>										
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W	
S1.000	o	100	SRE1.1	22.700	21.950	0.650	Open Manhole		100	
S1.001	o	100	SS1	22.700	21.720	0.880	Open Manhole		450	
S2.000	o	100	SRE1.2	22.700	21.950	0.650	Open Manhole		100	
S1.002	o	100	SJUNCT	22.700	21.625	0.975	Junction			
S1.003	o	225	SS2	22.700	21.554	0.921	Open Manhole		600	
S3.000	o	100	SRE2.1	22.700	21.950	0.650	Open Manhole		100	
<u>Downstream Manhole</u>										
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W	
S1.000	9.201	40.0	SS1	22.700	21.720	0.880	Open Manhole		450	
S1.001	7.586	79.9	SJUNCT	22.700	21.625	0.975	Junction			
S2.000	6.809	21.0	SJUNCT	22.700	21.625	0.975	Junction			
S1.002	5.793	59.7	SS2	22.700	21.528	1.072	Open Manhole		600	
S1.003	10.654	54.4	SJUNCT	22.700	21.358	1.117	Junction			
S3.000	2.642	4.5	SJUNCT	22.700	21.358	1.242	Junction			
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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)
S1.004	o	225	SJUNCT	22.700	21.358	1.117	Junction	
S1.005	o	225	SS3	22.705	20.939	1.541	Open Manhole	600
S4.000	o	100	SRE3.1	22.553	21.671	0.782	Open Manhole	100
S1.006	o	225	SJUNCT	22.703	20.929	1.549	Junction	
S5.000	o	100	SRE4.1	22.737	21.855	0.782	Open Manhole	100

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)
S1.004	23.187	55.3	SS3	22.705	20.939	1.541	Open Manhole	600
S1.005	1.119	111.9	SJUNCT	22.703	20.929	1.549	Junction	
S4.000	6.216	9.0	SJUNCT	22.703	20.979	1.624	Junction	
S1.006	11.288	121.4	SS4	22.725	20.836	1.664	Open Manhole	600
S5.000	6.216	6.4	SS4	22.725	20.886	1.739	Open Manhole	600

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Area Summary for Storm

Simulation Criteria for Storm

Synthetic Rainfall Details

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25 Hollingworth Court	3474	
Kent	2 VALE ROAD	
ME14 5PP	NETWORK - P01	
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Innovyze	Network 2020.1.3	
<u>Online Controls for Storm</u> <u>Pump Manhole: SSWP12, DS/PN: S1.011, Volume (m³): 1.0</u> Invert Level (m) 20.626 Depth (m) Flow (l/s) 0.001 2.0000		
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<u>Storage Structures for Storm</u> <u>Cellular Storage Manhole: SATT1, DS/PN: S1.010</u> Invert Level (m) 20.651 Infiltration Coefficient Side (m/hr) 0.00000 Porosity 0.95 Infiltration Coefficient Base (m/hr) 0.00000 Safety Factor 2.0 <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><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr></thead><tbody><tr><td>0.000</td><td>92.0</td><td>92.0</td><td>1.600</td><td>92.0</td><td>153.4</td><td>1.601</td><td>0.0</td><td>153.4</td></tr></tbody></table>			Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	0.000	92.0	92.0	1.600	92.0	153.4	1.601	0.0	153.4
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<u>2 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>													
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2 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water	Surcharged	Flooded	Half Drain	
									Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)
S13.001	SS10	15 Winter	2	+0%					22.001	-0.113	0.000	0.14	
S1.009	SS11-CP	15 Winter	2	+0%	2/15 Summer				20.916	0.030	0.000	1.27	
S1.010	SATT1	120 Winter	2	+0%	2/120 Winter				20.900	0.024	0.000	0.12	109
S1.011	SSWP12	120 Winter	2	+0%	2/15 Summer				20.918	0.192	0.000	0.97	
S1.012	SS13-CP	15 Summer	2	+0%					22.512	-0.062	0.000	0.31	

PN	US/MH	Pipe	Status	Level Exceeded
	Name	Flow (1/s)		
S13.001	SS10	3.6	OK	
S1.009	SS11-CP	29.7	SURCHARGED	
S1.010	SATT1	2.7	SURCHARGED*	
S1.011	SSWP12	2.0	SURCHARGED	
S1.012	SS13-CP	2.0	OK	

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25 Hollingworth Court	3474	
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<u>30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm</u> <u>Simulation Criteria</u> 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 Coefficient 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 1 Number of Storage Structures 1 Number of Real Time Controls 0 <u>Synthetic Rainfall Details</u> Rainfall Model FEH Data Type Point FEH Rainfall Version 2013 Cv (Summer) 0.750 Site Location GB 562797 173610 TQ 62797 73610 Cv (Winter) 0.840 Margin for Flood Risk Warning (mm) 300.0 DVD Status ON Analysis Timestep 2.5 Second Increment (Extended) Inertia Status ON DTS Status ON Profile(s) Summer and Winter Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440 Return Period(s) (years) 2, 30, 100 Climate Change (%) 0, 0, 20 WARNING: Half Drain Time has not been calculated as the structure is too full.		
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		Pipe																					
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30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

									Water	Surcharged	Flooded	Half Drain		
	US/MH		Return	Climate	First (X)	First (Y)	First (Z)	Overflow	Level	Depth	Volume	Flow /	Overflow	Time
PN	Name	Storm	Period	Change	Surcharge	Flood	Overflow	Act.	(m)	(m)	(m³)	Cap.	(l/s)	(mins)
S13.000	SRE10.1	15 Winter	30	+0%					22.516	-0.056	0.000	0.41		
S13.001	SS10	15 Winter	30	+0%					22.029	-0.085	0.000	0.39		
S1.009	SS11-CP	240 Winter	30	+0%	2/15 Summer				21.362	0.476	0.000	0.65		
S1.010	SATT1	240 Winter	30	+0%	2/120 Winter				21.360	0.484	0.000	0.10		
S1.011	SSWP12	360 Winter	30	+0%	2/15 Summer				21.501	0.775	0.000	0.97		
S1.012	SS13-CP	15 Winter	30	+0%					22.512	-0.062	0.000	0.31		

PN	US/MH Name	Pipe Flow (l/s)	Status	Level Exceeded
S13.000	SRE10.1	4.2		OK
S13.001	SS10	9.8		OK
S1.009	SS11-CP	15.2	SURCHARGED	
S1.010	SATT1	2.4	SURCHARGED*	
S1.011	SSWP12	2.0	SURCHARGED	
S1.012	SS13-CP	2.0		OK

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<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm</u> <u>Simulation Criteria</u> 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 Coefficient 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 1 Number of Storage Structures 1 Number of Real Time Controls 0 <u>Synthetic Rainfall Details</u> Rainfall Model FEH Data Type Point FEH Rainfall Version 2013 Cv (Summer) 0.750 Site Location GB 562797 173610 TQ 62797 73610 Cv (Winter) 0.840 Margin for Flood Risk Warning (mm) 300.0 DVD Status ON Analysis Timestep 2.5 Second Increment (Extended) Inertia Status ON DTS Status ON Profile(s) Summer and Winter Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440 Return Period(s) (years) 2, 30, 100 Climate Change (%) 0, 0, 20 WARNING: Half Drain Time has not been calculated as the structure is too full.		
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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

								Water Surcharged Flooded					Half Drain Pipe			
US/MH		Return	Climate	First (X)	First (Y)	First (Z)	Overflow	Level	Depth	Volume	Flow /	Overflow	Time	Flow		
PN	Name	Storm	Period	Change	Surcharge	Flood	Overflow	Act.	(m)	(m)	(m³)	Cap.	(l/s)	(mins)	(l/s)	Status

PN	US/MH	Level	Name	Exceeded
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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm															
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	
S1.000	SRE1.1	15 Winter	100	+20%	100/15 Summer				22.300	0.250	0.000	0.49			
S1.001	SS1	15 Winter	100	+20%	100/15 Summer				22.246	0.426	0.000	1.37			
S2.000	SRE1.2	15 Winter	100	+20%	100/15 Winter				22.132	0.082	0.000	0.20			
S1.002	SJUNCT	15 Summer	100	+20%					21.725	0.000	0.000	1.26			
S1.003	SS2	15 Winter	100	+20%	100/15 Summer				21.981	0.202	0.000	0.31			
S3.000	SRE2.1	360 Winter	100	+20%					21.972	-0.078	0.000	0.01			
S1.004	SJUNCT	15 Summer	100	+20%					21.583	0.000	0.000	0.36			
S1.005	SS3	360 Winter	100	+20%	30/15 Summer				21.971	0.807	0.000	0.15			
S4.000	SRE3.1	360 Winter	100	+20%	100/15 Summer				21.971	0.200	0.000	0.03			
S1.006	SJUNCT	15 Summer	100	+20%					21.154	0.000	0.000	0.61			
S5.000	SRE4.1	360 Winter	100	+20%	100/360 Winter				21.971	0.016	0.000	0.04			
S1.007	SS4	360 Winter	100	+20%	30/15 Summer				21.971	0.910	0.000	0.11			
S6.000	SRE5.1	15 Winter	100	+20%					22.124	-0.030	0.000	0.83			
S6.001	SS5	15 Winter	100	+20%					21.975	-0.073	0.000	0.51			
S7.000	SRE6.1	360 Winter	100	+20%	100/240 Winter				21.971	0.115	0.000	0.01			
S6.002	SS6	360 Winter	100	+20%	30/15 Summer				21.971	1.003	0.000	0.12			
S1.008	SJUNCT	15 Summer	100	+20%					20.928	0.000	0.000	1.80			
S8.000	SRE7.1	15 Winter	100	+20%	30/15 Summer				22.541	0.741	0.000	1.53			
S9.000	SRE7.2	15 Winter	100	+20%	100/15 Summer				22.330	0.575	0.000	0.44			
S8.001	SS7	15 Winter	100	+20%	30/15 Summer				22.309	0.715	0.000	1.63			
S10.000	SRE8.1	360 Winter	100	+20%	100/15 Winter				21.971	0.180	0.000	0.04			
S8.002	SS8	360 Winter	100	+20%	100/15 Summer				21.971	0.507	0.000	0.14			
S11.000	SRE9.1	15 Winter	100	+20%	100/15 Summer				22.796	0.216	0.000	1.05			
S12.000	SRE9.2	15 Winter	100	+20%	100/15 Summer				22.027	0.034	0.000	0.00			
S11.001	SS9	15 Winter	100	+20%	30/15 Summer				22.027	0.132	0.000	1.72			
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<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>													
<table><thead><tr><th>PN</th><th>US/MH Name</th><th>Pipe Flow (l/s)</th><th>Status</th><th>Level Exceeded</th></tr></thead><tbody><tr><td>S11.001</td><td>SS9</td><td>12.6</td><td>SURCHARGED</td><td></td></tr></tbody></table>				PN	US/MH Name	Pipe Flow (l/s)	Status	Level Exceeded	S11.001	SS9	12.6	SURCHARGED	
PN	US/MH Name	Pipe Flow (l/s)	Status	Level Exceeded									
S11.001	SS9	12.6	SURCHARGED										
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