

Considine Limited		Page 1																																
25 Hollingworth Court Kent ME14 5PP	3474 2 VALE ROAD NETWORK - P01																																	
Date 02/11/2021 11:27 File 3474-Network-P01.MDX	Designed by MJF Checked by JEM																																	
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
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																															
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								
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																							
©1982-2020 Innovyze																																		

Considine Limited

25 Hollingworth Court
Kent
ME14 5PP

Date 02/11/2021 11:27
File 3474-Network-P01.MDX

Innovyze

3474
2 VALE ROAD
NETWORK - P01

Designed by MJF
Checked by JEM

Network 2020.1.3

Page 10



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)
SS6	22.703	1.960	Open Manhole	600	S6.002	20.743	225	S6.001	20.743	150	50
SJUNCT	22.725	2.022	Junction		S1.008	20.703	225	S7.000	20.793	100	
								S1.007	20.703	225	
								S6.002	20.703	225	
SRE7.1	22.545	0.845	Open Manhole	100	S8.000	21.700	100				50
SRE7.2	22.500	0.845	Open Manhole	100	S9.000	21.655	100				
SS7	22.500	1.006	Open Manhole	450	S8.001	21.494	100	S8.000	21.494	100	
								S9.000	21.544	100	
SRE8.1	22.536	0.845	Open Manhole	100	S10.000	21.691	100				
SS8	22.625	1.311	Open Manhole	450	S8.002	21.314	150	S8.001	21.314	100	
								S10.000	21.364	100	
SRE9.1	23.230	0.750	Open Manhole	100	S11.000	22.480	100				
SRE9.2	22.643	0.750	Open Manhole	100	S12.000	21.893	100				
SS9	22.643	0.848	Open Manhole	450	S11.001	21.795	100	S11.000	21.795	100	
								S12.000	21.845	100	
SRE10.1	23.222	0.750	Open Manhole	100	S13.000	22.472	100				
SS10	22.714	0.750	Open Manhole	450	S13.001	21.964	150	S13.000	21.964	100	
SS11-CP	22.765	2.104	Open Manhole	1200	S1.009	20.661	225	S1.008	20.661	225	
								S8.002	20.736	150	

©1982-2020 Innovyze



3474
2 VALE ROAD
NETWORK - P01

Designed by MJF
Checked by JEM



Network 2020.1.3

Manhole Schedules for Storm

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
SJUNCT	-339.766	490.910			No Entry	
SS2	-338.729	496.609	-338.729	496.609	Required	
SRE2.1	-345.902	504.919	-345.902	504.919	Required	
SJUNCT	-343.545	506.113			No Entry	
SS3	-354.355	526.626	-354.355	526.626	Required	
SRE3.1	-358.306	532.002	-358.306	532.002	Required	
SJUNCT	-355.464	526.473			No Entry	
SRE4.1	-368.345	526.841	-368.345	526.841	Required	

3474
2 VALE ROAD
NETWORK - P01

Designed by MJF
Checked by JEM

Network 2020.1.3



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	

Considine Limited								Page 16																																																																																																																															
25 Hollingworth Court Kent ME14 5PP				3474 2 VALE ROAD NETWORK - P01																																																																																																																																			
Date 02/11/2021 11:27 File 3474-Network-P01.MDX				Designed by MJF Checked by JEM																																																																																																																																			
Innovyze				Network 2020.1.3																																																																																																																																			
<u>PIPELINE SCHEDULES for Storm</u> <u>Upstream Manhole</u> <table><thead><tr><th>PN</th><th>Hyd Sect</th><th>Diam (mm)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., L*W (mm)</th></tr></thead><tbody><tr><td>S1.000</td><td>o</td><td>100</td><td>SRE1.1</td><td>22.700</td><td>21.950</td><td>0.650</td><td>Open Manhole</td><td>100</td></tr><tr><td>S1.001</td><td>o</td><td>100</td><td>SS1</td><td>22.700</td><td>21.720</td><td>0.880</td><td>Open Manhole</td><td>450</td></tr><tr><td>S2.000</td><td>o</td><td>100</td><td>SRE1.2</td><td>22.700</td><td>21.950</td><td>0.650</td><td>Open Manhole</td><td>100</td></tr><tr><td>S1.002</td><td>o</td><td>100</td><td>SJUNCT</td><td>22.700</td><td>21.625</td><td>0.975</td><td>Junction</td><td></td></tr><tr><td>S1.003</td><td>o</td><td>225</td><td>SS2</td><td>22.700</td><td>21.554</td><td>0.921</td><td>Open Manhole</td><td>600</td></tr><tr><td>S3.000</td><td>o</td><td>100</td><td>SRE2.1</td><td>22.700</td><td>21.950</td><td>0.650</td><td>Open Manhole</td><td>100</td></tr></tbody></table> <u>Downstream Manhole</u> <table><thead><tr><th>PN</th><th>Length (m)</th><th>Slope (1:X)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., L*W (mm)</th></tr></thead><tbody><tr><td>S1.000</td><td>9.201</td><td>40.0</td><td>SS1</td><td>22.700</td><td>21.720</td><td>0.880</td><td>Open Manhole</td><td>450</td></tr><tr><td>S1.001</td><td>7.586</td><td>79.9</td><td>SJUNCT</td><td>22.700</td><td>21.625</td><td>0.975</td><td>Junction</td><td></td></tr><tr><td>S2.000</td><td>6.809</td><td>21.0</td><td>SJUNCT</td><td>22.700</td><td>21.625</td><td>0.975</td><td>Junction</td><td></td></tr><tr><td>S1.002</td><td>5.793</td><td>59.7</td><td>SS2</td><td>22.700</td><td>21.528</td><td>1.072</td><td>Open Manhole</td><td>600</td></tr><tr><td>S1.003</td><td>10.654</td><td>54.4</td><td>SJUNCT</td><td>22.700</td><td>21.358</td><td>1.117</td><td>Junction</td><td></td></tr><tr><td>S3.000</td><td>2.642</td><td>4.5</td><td>SJUNCT</td><td>22.700</td><td>21.358</td><td>1.242</td><td>Junction</td><td></td></tr></tbody></table>										PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)	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	PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)	S1.000	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	
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)																																																																																																																															
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																																																																																																																															
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)																																																																																																																															
S1.000	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																																																																																																																																
©1982-2020 Innovyze																																																																																																																																							

Considine Limited								Page 20																																																																																																																									
25 Hollingworth Court Kent ME14 5PP				3474 2 VALE ROAD NETWORK - P01																																																																																																																													
Date 02/11/2021 11:27 File 3474-Network-P01.MDX				Designed by MJF Checked by JEM																																																																																																																													
Innovyze				Network 2020.1.3																																																																																																																													
<u>PIPELINE SCHEDULES for Storm</u> <u>Upstream Manhole</u> <table><thead><tr><th>PN</th><th>Hyd Sect</th><th>Diam (mm)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., (mm)</th><th>L*W</th></tr></thead><tbody><tr><td>S10.000</td><td>o</td><td>100</td><td>SRE8.1</td><td>22.536</td><td>21.691</td><td>0.745</td><td>Open Manhole</td><td></td><td>100</td></tr><tr><td>S8.002</td><td>o</td><td>150</td><td>SS8</td><td>22.625</td><td>21.314</td><td>1.161</td><td>Open Manhole</td><td></td><td>450</td></tr><tr><td>S11.000</td><td>o</td><td>100</td><td>SRE9.1</td><td>23.230</td><td>22.480</td><td>0.650</td><td>Open Manhole</td><td></td><td>100</td></tr><tr><td>S12.000</td><td>o</td><td>100</td><td>SRE9.2</td><td>22.643</td><td>21.893</td><td>0.650</td><td>Open Manhole</td><td></td><td>100</td></tr><tr><td>S11.001</td><td>o</td><td>100</td><td>SS9</td><td>22.643</td><td>21.795</td><td>0.748</td><td>Open Manhole</td><td></td><td>450</td></tr></tbody></table> <u>Downstream Manhole</u> <table><thead><tr><th>PN</th><th>Length (m)</th><th>Slope (1:X)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., (mm)</th><th>L*W</th></tr></thead><tbody><tr><td>S10.000</td><td>6.908</td><td>21.1</td><td>SS8</td><td>22.625</td><td>21.364</td><td>1.161</td><td>Open Manhole</td><td></td><td>450</td></tr><tr><td>S8.002</td><td>16.770</td><td>29.0</td><td>SS11-CP</td><td>22.765</td><td>20.736</td><td>1.879</td><td>Open Manhole</td><td></td><td>1200</td></tr><tr><td>S11.000</td><td>15.976</td><td>23.3</td><td>SS9</td><td>22.643</td><td>21.795</td><td>0.748</td><td>Open Manhole</td><td></td><td>450</td></tr><tr><td>S12.000</td><td>1.917</td><td>39.9</td><td>SS9</td><td>22.643</td><td>21.845</td><td>0.698</td><td>Open Manhole</td><td></td><td>450</td></tr><tr><td>S11.001</td><td>2.471</td><td>35.3</td><td>SS11-CP</td><td>22.765</td><td>21.725</td><td>0.940</td><td>Open Manhole</td><td></td><td>1200</td></tr></tbody></table>										PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W	S10.000	o	100	SRE8.1	22.536	21.691	0.745	Open Manhole		100	S8.002	o	150	SS8	22.625	21.314	1.161	Open Manhole		450	S11.000	o	100	SRE9.1	23.230	22.480	0.650	Open Manhole		100	S12.000	o	100	SRE9.2	22.643	21.893	0.650	Open Manhole		100	S11.001	o	100	SS9	22.643	21.795	0.748	Open Manhole		450	PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W	S10.000	6.908	21.1	SS8	22.625	21.364	1.161	Open Manhole		450	S8.002	16.770	29.0	SS11-CP	22.765	20.736	1.879	Open Manhole		1200	S11.000	15.976	23.3	SS9	22.643	21.795	0.748	Open Manhole		450	S12.000	1.917	39.9	SS9	22.643	21.845	0.698	Open Manhole		450	S11.001	2.471	35.3	SS11-CP	22.765	21.725	0.940	Open Manhole		1200
PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W																																																																																																																								
S10.000	o	100	SRE8.1	22.536	21.691	0.745	Open Manhole		100																																																																																																																								
S8.002	o	150	SS8	22.625	21.314	1.161	Open Manhole		450																																																																																																																								
S11.000	o	100	SRE9.1	23.230	22.480	0.650	Open Manhole		100																																																																																																																								
S12.000	o	100	SRE9.2	22.643	21.893	0.650	Open Manhole		100																																																																																																																								
S11.001	o	100	SS9	22.643	21.795	0.748	Open Manhole		450																																																																																																																								
PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., (mm)	L*W																																																																																																																								
S10.000	6.908	21.1	SS8	22.625	21.364	1.161	Open Manhole		450																																																																																																																								
S8.002	16.770	29.0	SS11-CP	22.765	20.736	1.879	Open Manhole		1200																																																																																																																								
S11.000	15.976	23.3	SS9	22.643	21.795	0.748	Open Manhole		450																																																																																																																								
S12.000	1.917	39.9	SS9	22.643	21.845	0.698	Open Manhole		450																																																																																																																								
S11.001	2.471	35.3	SS11-CP	22.765	21.725	0.940	Open Manhole		1200																																																																																																																								
©1982-2020 Innovyze																																																																																																																																	

Considine Limited									Page 21	
25 Hollingworth Court				3474						
Kent				2 VALE ROAD						
ME14 5PP				NETWORK - P01						
Date 02/11/2021 11:27				Designed by MJF						
File 3474-Network-P01.MDX				Checked by JEM						
Innovyze				Network 2020.1.3						
<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	
S13.000	o	100	SRE10.1	23.222	22.472	0.650	Open Manhole		100	
S13.001	o	150	SS10	22.714	21.964	0.600	Open Manhole		450	
S1.009	o	225	SS11-CP	22.765	20.661	1.879	Open Manhole		1200	
S1.010	o	225	SATT1	22.765	20.651	1.889	Junction			
S1.011	o	100	SSWP12	22.855	20.626	2.129	Open Manhole		600	
S1.012	o	100	SS13-CP	23.628	22.474	1.054	Open Manhole		1200	
<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	
S13.000	16.151	31.8	SS10	22.714	21.964	0.650	Open Manhole		450	
S13.001	18.963	43.2	SS11-CP	22.765	21.525	1.090	Open Manhole		1200	
S1.009	5.404	540.4	SATT1	22.765	20.651	1.889	Junction			
S1.010	9.877	395.1	SSWP12	22.855	20.626	2.004	Open Manhole		600	
S1.011	14.173	-7.7	SS13-CP	23.628	22.474	1.054	Open Manhole		1200	
S1.012	2.123	40.1	S	23.340	22.421	0.819	Open Manhole		0	
©1982-2020 Innovyze										

Considine Limited		Page 23
25 Hollingworth Court	3474	
Kent	2 VALE ROAD	
ME14 5PP	NETWORK - P01	
Date 02/11/2021 11:27	Designed by MJF	
File 3474-Network-P01.MDX	Checked by JEM	
Innovyze	Network 2020.1.3	

Area Summary for Storm

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
1.009	-	-	100	0.000	0.000	0.000
1.010	-	-	100	0.000	0.000	0.000
1.011	-	-	100	0.000	0.000	0.000
1.012	-	-	100	0.000	0.000	0.000
				Total	Total	Total
				0.207	0.207	0.207

Simulation Criteria for Storm

Volumetric Runoff Coeff	0.750	Manhole Headloss Coeff (Global)	0.500	Inlet Coeffiecient	0.800
Areal Reduction Factor	1.000	Foul Sewage per hectare (l/s)	0.000	Flow per Person per Day (l/per/day)	0.000
Hot Start (mins)	0	Additional Flow - % of Total Flow	0.000	Run Time (mins)	60
Hot Start Level (mm)	0	MADD Factor * 10m³/ha Storage	2.000	Output Interval (mins)	1
Number of Input Hydrographs		0	Number of Offline Controls		0
Number of Online Controls		1	Number of Storage Structures		1
			Number of Time/Area Diagrams		0
			Number of Real Time Controls		0

Synthetic Rainfall Details

Rainfall Model	FEH	Summer Storms	Yes
Return Period (years)	2	Winter Storms	Yes
FEH Rainfall Version	2013	Cv (Summer)	0.750
Site Location	GB 562797 173610 TQ 62797 73610	Cv (Winter)	0.840
Data Type	Point Storm	Duration (mins)	30

©1982-2020 Innovyze

Considine Limited		Page 24
25 Hollingworth Court	3474	
Kent	2 VALE ROAD	
ME14 5PP	NETWORK - P01	
Date 02/11/2021 11:27	Designed by MJF	
File 3474-Network-P01.MDX	Checked by JEM	
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		
©1982-2020 Innovyze		

Considine Limited		Page 25																		
25 Hollingworth Court Kent ME14 5PP	3474 2 VALE ROAD NETWORK - P01																			
Date 02/11/2021 11:27 File 3474-Network-P01.MDX	Designed by MJF Checked by JEM																			
Innovyze Network 2020.1.3																				
<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
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												
©1982-2020 Innovyze																				

Considine Limited										Page 26				
25 Hollingworth Court					3474									
Kent					2 VALE ROAD									
ME14 5PP					NETWORK - P01									
Date 02/11/2021 11:27					Designed by MJF									
File 3474-Network-P01.MDX					Checked by JEM									
Innovyze					Network 2020.1.3									
<u>2 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														

Considine Limited		Page 27																	
25 Hollingworth Court	3474																		
Kent	2 VALE ROAD																		
ME14 5PP	NETWORK - P01																		
Date 02/11/2021 11:27	Designed by MJF																		
File 3474-Network-P01.MDX	Checked by JEM																		
Innovyze	Network 2020.1.3																		
<u>2 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>																			
<table><tr><td></td><td></td><td>Pipe</td><td></td></tr><tr><td></td><td>US/MH</td><td>Flow</td><td>Level</td></tr><tr><td>PN</td><td>Name</td><td>(l/s)</td><td>Status Exceeded</td></tr><tr><td>S1.000</td><td>SRE1.1</td><td>1.3</td><td>OK</td></tr></table>						Pipe			US/MH	Flow	Level	PN	Name	(l/s)	Status Exceeded	S1.000	SRE1.1	1.3	OK
		Pipe																	
	US/MH	Flow	Level																
PN	Name	(l/s)	Status Exceeded																
S1.000	SRE1.1	1.3	OK																
©1982-2020 Innovyze																			

3474
2 VALE ROAD
NETWORK - P01

Designed by MJF
Checked by JEM



Network 2020.1.3

2 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm				
PN	US/MH Name	Pipe Flow (l/s)	Status	Level Exceeded
S1.001	SS1	2.2	OK	
S2.000	SRE1.2	0.6	OK	
S1.002	SJUNCT	2.9	OK*	
S1.003	SS2	5.0	OK	
S3.000	SRE2.1	0.3	OK	
S1.004	SJUNCT	7.5	OK*	
S1.005	SS3	7.5	OK	
S4.000	SRE3.1	0.9	OK	
S1.006	SJUNCT	8.4	OK*	
S5.000	SRE4.1	1.3	OK	
S1.007	SS4	9.8	OK	
S6.000	SRE5.1	1.6	OK	
S6.001	SS5	4.8	OK	
S7.000	SRE6.1	0.3	OK	
S6.002	SS6	5.5	OK	
S1.008	SJUNCT	16.3	SURCHARGED*	
S8.000	SRE7.1	2.8	OK	
S9.000	SRE7.2	0.9	OK	
S8.001	SS7	4.3	OK	
S10.000	SRE8.1	0.8	OK	
S8.002	SS8	7.1	OK	
S11.000	SRE9.1	3.4	OK	
S12.000	SRE9.2	0.0	OK	
S11.001	SS9	3.5	OK	

Considine Limited		Page 32
25 Hollingworth Court	3474	
Kent	2 VALE ROAD	
ME14 5PP	NETWORK - P01	
Date 02/11/2021 11:27	Designed by MJF	
File 3474-Network-P01.MDX	Checked by JEM	
Innovyze	Network 2020.1.3	
<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.		
©1982-2020 Innovyze		

Considine Limited		
25 Hollingworth Court	3474	
Kent	2 VALE ROAD	
ME14 5PP	NETWORK - P01	
Date 02/11/2021 11:27	Designed by MJF	
File 3474-Network-P01.MDX	Checked by JEM	
Innovyze	Network 2020.1.3	

30 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
----	-------	-------	------	----------

Considine Limited		Page 35	
25 Hollingworth Court	3474		
Kent	2 VALE ROAD		
ME14 5PP	NETWORK - P01		
Date 02/11/2021 11:27	Designed by MJF		
File 3474-Network-P01.MDX	Checked by JEM		
Innovyze	Network 2020.1.3		
<u>30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>			

Considine Limited		Page 36	
25 Hollingworth Court	3474		
Kent	2 VALE ROAD		
ME14 5PP	NETWORK - P01		
Date 02/11/2021 11:27	Designed by MJF		
File 3474-Network-P01.MDX	Checked by JEM		
Innovyze	Network 2020.1.3		
<u>30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>			

Considine Limited		Page 37
25 Hollingworth Court Kent ME14 5PP	3474 2 VALE ROAD NETWORK - P01	
Date 02/11/2021 11:27 File 3474-Network-P01.MDX	Designed by MJF Checked by JEM	
Innovyze	Network 2020.1.3	

30 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)
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	

Considine Limited		Page 38
25 Hollingworth Court	3474	
Kent	2 VALE ROAD	
ME14 5PP	NETWORK - P01	
Date 02/11/2021 11:27	Designed by MJF	
File 3474-Network-P01.MDX	Checked by JEM	
Innovyze	Network 2020.1.3	
<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.		
©1982-2020 Innovyze		

Considine Limited		Page 41	
25 Hollingworth Court	3474		
Kent	2 VALE ROAD		
ME14 5PP	NETWORK - P01		
Date 02/11/2021 11:27	Designed by MJF		
File 3474-Network-P01.MDX	Checked by JEM		
Innovyze	Network 2020.1.3		
<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>			

Considine Limited		Page 43
25 Hollingworth Court Kent ME14 5PP	3474 2 VALE ROAD NETWORK - P01	
Date 02/11/2021 11:27 File 3474-Network-P01.MDX	Designed by MJF Checked by JEM	
Innovyze	Network 2020.1.3	

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)
S13.000	SRE10.1	15 Winter	100	+20%					22.530	-0.042	0.000	0.64		
S13.001	SS10	15 Winter	100	+20%					22.049	-0.065	0.000	0.61		
S1.009	SS11-CP	360 Winter	100	+20%	2/15 Summer				21.969	1.083	0.000	0.78		
S1.010	SATT1	360 Winter	100	+20%	2/120 Winter				21.967	1.091	0.000	0.11		
S1.011	SSWP12	480 Winter	100	+20%	2/15 Summer				22.083	1.357	0.000	0.97		
S1.012	SS13-CP	15 Winter	100	+20%					22.512	-0.062	0.000	0.31		

PN	US/MH Name	Pipe Flow (l/s)	Status	Level Exceeded
S13.000	SRE10.1	6.6	OK	
S13.001	SS10	15.5	OK	
S1.009	SS11-CP	18.3	SURCHARGED	
S1.010	SATT1	2.5	SURCHARGED*	
S1.011	SSWP12	2.0	SURCHARGED	
S1.012	SS13-CP	2.0	OK	