

5017735: Cowplain, Hart Plain Avenue Care Home	Date: 09/11/2022			RIDGE
	Designed by: BT	Checked by:	Approved By:	
Report Details: Type: Inflows Storm Phase: Phase	Ridge:			



Catchment Area

Type : Catchment Area

Area (ha)	0.08
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0



Catchment Area (1)

Type : Catchment Area

Area (ha)	0.089
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0

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Catchment Area (2)

Type : Catchment Area

Area (ha) 0.015

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0



Catchment Area (3)

Type : Catchment Area

Area (ha) 0.008

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0

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Catchment Area (4)

Type : Catchment Area

Area (ha)	0.009
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0



Catchment Area (5)

Type : Catchment Area

Area (ha)	0.005
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0

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Catchment Area (6)

Type : Catchment Area

Area (ha)	0.024
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0



Catchment Area (7)

Type : Catchment Area

Area (ha)	0.013
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0

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Catchment Area (8)

Type : Catchment Area

Area (ha)	0.018
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	0.750
Winter Volumetric Runoff	0.840
Time of Concentration (mins)	5
Percentage Impervious (%)	100
Urban Creep (%)	0

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Report Details: Type: Junctions Storm Phase: Phase			

RIDGE

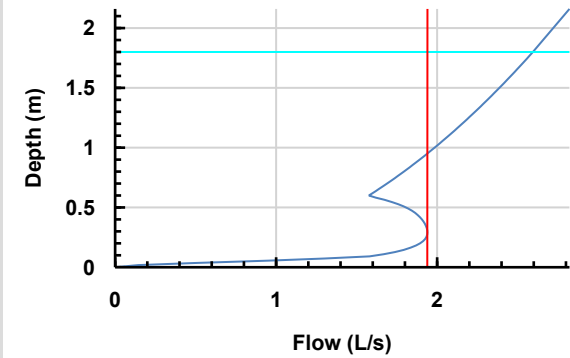
Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)	Lock
5	Manhole	468433.086	110754.962	0.000	1.300	-1.300	Circular	1.200	None
7	Manhole	468442.588	110744.297	0.000	1.890	-1.890	Circular	1.200	None
8	Manhole	468457.206	110736.551	0.000	1.985	-1.985	Circular	1.200	None
6	Manhole	468453.208	110755.854	0.000	1.300	-1.300	Circular	1.200	None
1	Manhole	468468.954	110793.763	0.000	1.484	-1.484	Circular	1.200	None
2	Manhole	468463.540	110770.304	0.000	1.635	-1.635	Circular	1.200	None
3	Manhole	468459.028	110749.551	0.000	1.768	-1.768	Circular	1.200	None
4	Manhole	468449.442	110748.987	0.000	1.828	-1.828	Circular	1.200	None

Inlets

Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
5	Inlet	Catchment Area	(None)	No Restriction
7	Inlet	1.005	(None)	No Restriction
8	Inlet	1.006	(None)	No Restriction
6	Inlet	Catchment Area (1)	(None)	No Restriction
1	Inlet	Catchment Area (6) 1.000	(None)	No Restriction
2	Inlet	1.001 2.000	(None)	No Restriction
	Inlet (1)	Catchment Area (7)	(None)	No Restriction
3	Inlet	1.002 4.000	(None)	No Restriction
	Inlet (1)	Catchment Area (8) 3.000	(None)	No Restriction
4	Inlet	1.003	(None)	No Restriction

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Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
5	Outlet	5.000	Free Discharge
	Outlet	1.006	Hydro-Brake®
	Invert Level (m)	-1.875	
	Design Depth (m)	1.800	
	Design Flow (L/s)	2.6	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0067-2600-1800-2600	
7			
6	Outlet	6.000	Free Discharge
1	Outlet	1.001	Free Discharge
2	Outlet	1.002	Free Discharge
3	Outlet	1.003	Free Discharge
4	Outlet	1.004	Free Discharge

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Report Details: Type: Network Design Criteria Storm Phase: Phase	Ridge:			

Flow Options

Peak Flow Calculation	(UK) Modified Rational Method
Min. Time of Entry (mins)	5
Max. Travel Time (mins)	30

Pipe Options

Lock Slope Options	None
Design Level	Level Soffits
Min. Cover Depth (m)	1.200
Min. Slope (1:X)	500.00
Max. Slope (1:X)	40.00
Min. Backdrop (m)	0.000
Max. Backdrop (m)	0.000
Min. Velocity (m/s)	1.0
Max. Velocity (m/s)	3.0
Use Flow Restriction	☐
Reduce Channel Depths	☐

Manhole Options

Apply Offset	☐
An error has occurred while processing TextBox 'txtSynchroniseManholeInvertLevelsHeader': The expression contains object 'SynchroniseManholeInvertLevelsTitle' that is not defined in the current context.	☐

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Report Title: Rainfall Analysis Criteria	Ridge:			

Runoff Type	Dynamic
Output Interval (mins)	1
Time Step	Shortest
Urban Creep	Use Catchment Values
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall

FSR	Type: FSR
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Region	England And Wales
M5-60 (mm)	19.6
Ratio R	0.337
Summer	☒
Winter	☒

Return Period

Return Period (years)	Increase Rainfall (%)
1.0	0.000
30.0	0.000
100.0	0.000
100.0	45.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
240	480
360	720
480	960
960	1920
1440	2880

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FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
5	FSR: 1 years: +0 %: 15 mins: Winter	0.000	-1.300	-1.259	0.041	10.5	0.047	0.000	10.5	4.848	OK
7	FSR: 1 years: +0 %: 360 mins: Winter	0.000	-1.890	-1.641	0.250	1.9	0.282	0.000	1.9	46.286	Surcharged
8	FSR: 1 years: +0 %: 360 mins: Winter	0.000	-1.985	-1.949	0.036	1.9	0.000	0.000	1.9	46.270	OK
6	FSR: 1 years: +0 %: 15 mins: Winter	0.000	-1.300	-1.247	0.053	11.6	0.060	0.000	11.6	5.356	OK
1	FSR: 1 years: +0 %: 15 mins: Winter	0.000	-1.484	-1.443	0.041	3.1	0.047	0.000	3.0	1.509	OK
2	FSR: 1 years: +0 %: 15 mins: Winter	0.000	-1.635	-1.584	0.051	4.7	0.058	0.000	4.7	2.438	OK
3	FSR: 1 years: +0 %: 360 mins: Winter	0.000	-1.768	-1.640	0.128	1.9	0.144	0.000	1.8	17.537	OK
4	FSR: 1 years: +0 %: 360 mins: Winter	0.000	-1.828	-1.640	0.188	1.8	0.212	0.000	1.7	17.529	OK

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FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
5	FSR: 30 years: +0 %: 15 mins: Winter	0.000	-1.300	-1.231	0.069	25.7	0.078	0.000	25.7	11.870	OK
7	FSR: 30 years: +0 %: 360 mins: Winter	0.000	-1.890	-1.233	0.657	2.0	0.743	0.000	1.9	67.004	Surcharged
8	FSR: 30 years: +0 %: 120 mins: Summer	0.000	-1.985	-1.948	0.037	1.9	0.000	0.000	1.9	22.522	OK
6	FSR: 30 years: +0 %: 15 mins: Winter	0.000	-1.300	-1.212	0.088	28.4	0.100	0.000	28.3	13.107	OK
1	FSR: 30 years: +0 %: 360 mins: Winter	0.000	-1.484	-1.233	0.251	1.9	0.284	0.000	1.9	16.544	Surcharged
2	FSR: 30 years: +0 %: 360 mins: Winter	0.000	-1.635	-1.232	0.402	3.0	0.455	0.000	2.6	25.233	Surcharged
3	FSR: 30 years: +0 %: 360 mins: Winter	0.000	-1.768	-1.232	0.535	3.9	0.606	0.000	3.7	37.215	Surcharged
4	FSR: 30 years: +0 %: 360 mins: Winter	0.000	-1.828	-1.232	0.595	3.7	0.673	0.000	3.6	36.510	Surcharged

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FSR: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
5	FSR: 100 years: +0 %: 360 mins: Winter	0.000	-1.300	-0.451	0.849	5.2	0.960	0.000	5.2	44.405	Surcharged
7	FSR: 100 years: +0 %: 360 mins: Winter	0.000	-1.890	-0.452	1.438	2.7	1.627	0.000	2.3	70.240	Surcharged
8	FSR: 100 years: +0 %: 360 mins: Winter	0.000	-1.985	-1.945	0.040	2.3	0.000	0.000	2.3	70.198	OK
6	FSR: 100 years: +0 %: 360 mins: Winter	0.000	-1.300	-0.451	0.849	5.7	0.960	0.000	5.7	49.049	Surcharged
1	FSR: 100 years: +0 %: 360 mins: Winter	0.000	-1.484	-0.452	1.033	2.5	1.168	0.000	2.4	20.854	Surcharged
2	FSR: 100 years: +0 %: 360 mins: Winter	0.000	-1.635	-0.451	1.184	3.8	1.339	0.000	3.3	31.670	Surcharged
3	FSR: 100 years: +0 %: 360 mins: Winter	0.000	-1.768	-0.451	1.317	5.0	1.489	0.000	4.9	47.189	Surcharged
4	FSR: 100 years: +0 %: 360 mins: Winter	0.000	-1.828	-0.451	1.377	4.9	1.557	0.000	4.7	45.985	Surcharged

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FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Depth

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
5	FSR: 100 years: +45 %: 480 mins: Winter	0.000	-1.300	-0.108	1.192	6.1	1.348	0.000	5.9	68.991	Flood Risk
7	FSR: 100 years: +45 %: 480 mins: Winter	0.000	-1.890	-0.109	1.781	4.6	2.015	0.000	2.5	114.554	Flood Risk
8	FSR: 100 years: +45 %: 480 mins: Winter	0.000	-1.985	-1.943	0.042	2.5	0.000	0.000	2.5	114.512	OK
6	FSR: 100 years: +45 %: 480 mins: Winter	0.000	-1.300	-0.108	1.192	6.7	1.348	0.000	6.6	76.193	Flood Risk
1	FSR: 100 years: +45 %: 480 mins: Winter	0.000	-1.484	-0.109	1.376	6.2	1.556	0.000	2.7	58.577	Flood Risk
2	FSR: 100 years: +45 %: 480 mins: Winter	0.000	-1.635	-0.108	1.527	6.8	1.727	0.000	4.2	79.672	Flood Risk
3	FSR: 100 years: +45 %: 480 mins: Winter	0.000	-1.768	-0.108	1.660	10.0	1.877	0.000	6.2	115.488	Flood Risk
4	FSR: 100 years: +45 %: 480 mins: Winter	0.000	-1.828	-0.108	1.720	8.9	1.945	0.000	6.0	110.084	Flood Risk

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FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)
Cellular Storage	FSR: 1 years: +0 %: 360 mins: Winter	-1.640	-1.640	0.234	0.234	5.6	27.743	0.000	0.000	1.9	46.354	135	71.123
Porous Paving	FSR: 1 years: +0 %: 60 mins: Winter	-0.424	-0.492	0.038	0.008	0.7	0.683	0.000	0.000	0.5	0.793	26	93.851
Porous Paving (1)	FSR: 1 years: +0 %: 480 mins: Winter	-0.376	-0.498	0.105	0.002	0.1	0.735	0.000	0.000	0.0	0.718	361	86.604
Porous Paving (2)	FSR: 1 years: +0 %: 60 mins: Winter	-0.396	-0.490	0.043	0.010	1.1	1.308	0.000	0.000	0.7	1.291	30	92.738
Porous Paving (3)	FSR: 1 years: +0 %: 60 mins: Winter	-0.429	-0.492	0.036	0.008	0.6	0.599	0.000	0.000	0.4	0.748	22	94.062

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Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)
Cellular Storage	FSR: 30 years: +0 %: 360 mins: Winter	-1.233	-1.233	0.641	0.641	11.9	76.161	0.000	0.000	2.0	67.471	313	20.727
Porous Paving	FSR: 30 years: +0 %: 30 mins: Winter	-0.392	-0.486	0.070	0.014	2.3	1.248	0.000	0.000	1.6	1.543	14	88.774
Porous Paving (1)	FSR: 30 years: +0 %: 360 mins: Winter	-0.287	-0.496	0.194	0.004	0.2	1.361	0.000	0.000	0.1	1.497	230	75.213
Porous Paving (2)	FSR: 30 years: +0 %: 30 mins: Winter	-0.361	-0.482	0.078	0.018	3.8	2.392	0.000	0.000	2.4	2.466	16	86.718
Porous Paving (3)	FSR: 30 years: +0 %: 30 mins: Winter	-0.398	-0.486	0.067	0.014	2.1	1.090	0.000	0.000	1.5	1.436	12	89.188

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Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)
Cellular Storage	FSR: 100 years: +0 %: 360 mins: Winter	-0.451	-0.451	1.423	1.423	15.5	95.634	0.000	0.000	2.7	71.073	333	0.458
Porous Paving	FSR: 100 years: +0 %: 30 mins: Winter	-0.377	-0.484	0.084	0.016	3.0	1.485	0.000	0.000	2.1	2.102	13	86.636
Porous Paving (1)	FSR: 100 years: +0 %: 360 mins: Winter	-0.243	-0.451	0.238	0.049	0.3	1.719	0.000	0.000	0.4	2.094	69	68.693
Porous Paving (2)	FSR: 100 years: +0 %: 30 mins: Winter	-0.347	-0.479	0.092	0.021	5.0	2.888	0.000	0.000	3.5	3.370	15	83.960
Porous Paving (3)	FSR: 100 years: +0 %: 30 mins: Winter	-0.385	-0.484	0.080	0.016	2.8	1.303	0.000	0.000	2.2	1.971	11	87.080

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Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)
Cellular Storage	FSR: 100 years: +45 %: 480 mins: Winter	-0.109	-0.109	1.765	1.765	18.5	95.960	0.000	0.000	4.6	144.958	241	0.119
Porous Paving	FSR: 100 years: +45 %: 480 mins: Winter	-0.108	-0.108	0.354	0.392	4.5	10.257	0.000	0.000	0.7	14.124		7.703
Porous Paving (1)	FSR: 100 years: +45 %: 480 mins: Winter	-0.092	-0.108	0.389	0.392	3.3	5.351	0.000	0.000	0.4	5.158		2.534
Porous Paving (2)	FSR: 100 years: +45 %: 480 mins: Winter	-0.108	-0.108	0.331	0.392	7.1	15.916	0.000	0.000	1.1	22.016		11.617
Porous Paving (3)	FSR: 100 years: +45 %: 480 mins: Winter	-0.109	-0.108	0.357	0.392	4.4	9.349	0.000	0.000	0.6	12.965		7.273

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5017735: Cowplain, Hart Plain Avenue Care Home	Date: 09/11/2022		
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Report Details: Type: Connections Summary Storm Phase: Phase	Ridge:		

RIDGE



FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
1.006	FSR: 1 years: +0 %: 360 mins: Winter	Pipe	7	8	0.000	-1.641	0.037	46.270	0.6	0.13	1.9	Surcharge d
1.005	FSR: 1 years: +0 %: 240 mins: Winter	Pipe	Cellular Storage	7	0.000	-1.643	0.225	36.662	0.2	0.05	1.9	Surcharge d
1.001	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	1	2	0.000	-1.443	0.046	1.509	0.5	0.07	3.0	OK
1.002	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	2	3	0.000	-1.584	0.059	2.438	0.6	0.11	4.7	OK
1.003	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	3	4	0.000	-1.701	0.066	3.628	0.7	0.17	6.9	OK
1.004	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	4	Cellular Storage	0.000	-1.761	0.082	3.500	0.9	0.16	6.8	OK
3.000	FSR: 1 years: +0 %: 960 mins: Winter	Pipe	Porous Paving (1)	3	0.019	-0.446	0.002	1.075	0.0	0	0.0	OK
4.000	FSR: 1 years: +0 %: 60 mins: Winter	Pipe	Porous Paving	3	0.038	-0.475	0.008	0.793	1.2	0.01	0.5	OK
2.000	FSR: 1 years: +0 %: 60 mins: Winter	Pipe	Porous Paving (3)	2	0.035	-0.476	0.008	0.748	1.3	0	0.4	OK
1.000	FSR: 1 years: +0 %: 60 mins: Winter	Pipe	Porous Paving (2)	1	0.061	-0.470	0.010	1.291	1.5	0.01	0.7	OK
5.000	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	5	Cellular Storage	0.000	-1.259	0.059	4.848	3.1	0.15	10.5	OK
6.000	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	6	Cellular Storage	0.000	-1.247	0.062	5.356	2.7	0.23	11.6	OK

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	Designed by: BT	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase	Ridge:			



FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
1.006	FSR: 30 years: +0 %: 120 mins: Summer	Pipe	7	8	0.000	-1.390	0.037	22.522	0.6	0.13	1.9	Surcharge d
1.005	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	Cellular Storage	7	0.000	-1.606	0.225	2.820	0.4	0.06	2.5	Surcharge d
1.001	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	1	2	0.000	-1.419	0.073	4.670	0.7	0.18	7.5	OK
1.002	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	2	3	0.000	-1.554	0.101	7.379	0.7	0.28	11.5	OK
1.003	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	3	4	0.000	-1.605	0.192	10.233	0.8	0.41	16.9	OK
1.004	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	4	Cellular Storage	0.000	-1.605	0.225	9.645	1.0	0.4	16.3	OK
3.000	FSR: 30 years: +0 %: 360 mins: Winter	Pipe	Porous Paving (1)	3	0.019	-0.401	0.150	1.497	0.1	0	0.1	OK
4.000	FSR: 30 years: +0 %: 30 mins: Winter	Pipe	Porous Paving	3	0.038	-0.455	0.069	1.543	1.2	0.02	1.6	OK
2.000	FSR: 30 years: +0 %: 30 mins: Winter	Pipe	Porous Paving (3)	2	0.035	-0.456	0.013	1.436	1.9	0.02	1.5	OK
1.000	FSR: 30 years: +0 %: 30 mins: Winter	Pipe	Porous Paving (2)	1	0.061	-0.446	0.017	2.466	2.2	0.03	2.4	OK
5.000	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	5	Cellular Storage	0.000	-1.231	0.137	11.870	3.4	0.36	25.7	OK
6.000	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	6	Cellular Storage	0.000	-1.212	0.140	13.107	2.9	0.57	28.3	OK

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RIDGE



FSR: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
1.006	FSR: 100 years: +0 %: 360 mins: Winter	Pipe	7	8	0.000	-0.452	0.041	70.198	0.6	0.16	2.3	Surcharge d
1.005	FSR: 100 years: +0 %: 360 mins: Winter	Pipe	Cellular Storage	7	0.000	-0.451	0.225	70.972	0.2	0.07	2.7	Surcharge d
1.001	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	1	2	0.000	-1.409	0.085	6.302	0.7	0.24	9.7	OK
1.002	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	2	3	0.000	-1.522	0.179	9.460	0.7	0.37	15.0	OK
1.003	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	3	4	0.000	-1.522	0.225	13.117	0.9	0.53	21.6	Surcharge d
1.004	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	4	Cellular Storage	0.000	-1.522	0.225	12.409	1.0	0.49	20.2	Surcharge d
3.000	FSR: 100 years: +0 %: 360 mins: Winter	Pipe	Porous Paving (1)	3	0.019	-0.375	0.150	2.033	0.1	0	0.4	OK
4.000	FSR: 100 years: +0 %: 30 mins: Winter	Pipe	Porous Paving	3	0.038	-0.446	0.128	2.102	1.0	0.03	2.1	OK
2.000	FSR: 100 years: +0 %: 30 mins: Winter	Pipe	Porous Paving (3)	2	0.035	-0.448	0.061	1.971	2.1	0.02	2.2	OK
1.000	FSR: 100 years: +0 %: 30 mins: Winter	Pipe	Porous Paving (2)	1	0.061	-0.434	0.020	3.370	2.4	0.04	3.5	OK
5.000	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	5	Cellular Storage	0.000	-1.216	0.150	15.357	3.5	0.46	33.2	OK
6.000	FSR: 100 years: +0 %: 15 mins: Winter	Pipe	6	Cellular Storage	0.000	-1.191	0.150	16.948	3.0	0.74	36.6	OK

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RIDGE



FSR: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
1.006	FSR: 100 years: +45 %: 480 mins: Winter	Pipe	7	8	0.000	-0.109	0.043	114.512	0.6	0.18	2.5	Flood Risk
1.005	FSR: 100 years: +45 %: 360 mins: Summer	Pipe	Cellular Storage	7	0.000	-0.231	0.225	84.254	0.3	0.3	12.1	Surcharge d
1.001	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	1	2	0.000	-1.354	0.206	9.159	0.8	0.34	14.0	OK
1.002	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	2	3	0.000	-1.353	0.225	13.418	0.8	0.53	21.7	Surcharge d
1.003	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	3	4	0.000	-1.353	0.225	19.055	0.9	0.72	29.4	Surcharge d
1.004	FSR: 100 years: +45 %: 15 mins: Summer	Pipe	4	Cellular Storage	0.000	-1.412	0.225	16.143	1.0	0.66	27.1	Surcharge d
3.000	FSR: 100 years: +45 %: 120 mins: Summer	Pipe	Porous Paving (1)	3	0.019	-0.283	0.150	1.281	0.1	0	0.4	Surcharge d
4.000	FSR: 100 years: +45 %: 30 mins: Winter	Pipe	Porous Paving	3	0.038	-0.430	0.150	3.153	0.7	0.04	3.2	OK
2.000	FSR: 100 years: +45 %: 30 mins: Winter	Pipe	Porous Paving (3)	2	0.035	-0.434	0.150	2.935	1.9	0.03	3.1	OK
1.000	FSR: 100 years: +45 %: 30 mins: Winter	Pipe	Porous Paving (2)	1	0.061	-0.416	0.105	5.119	2.2	0.06	5.6	OK
5.000	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	5	Cellular Storage	0.000	-1.191	0.150	22.268	3.7	0.67	48.1	OK
6.000	FSR: 100 years: +45 %: 15 mins: Winter	Pipe	6	Cellular Storage	0.000	-0.816	0.150	24.574	3.1	1.02	50.3	Surcharge d