

Project: \\C1405 - Convent of Mercy, Hillside Drive, Gravesend DA12 1NY	Date: 12/02/2026			 ALAN BAXTER PARTNERSHIP CONSULTING STRUCTURAL ENGINEERS
	Designed by: NC	Checked by:	Approved By:	
Report Details: Type: Inflows Storm Phase: Phase	Company Address: The Clock Building, Pimp's Ct, Busbridge Rd, Maidstone ME15 0HZ			



Catchment Area

Type : Catchment Area

Area (ha)	0.002
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration	5
Percentage Impervious (%)	100



Catchment Area (1)

Type : Catchment Area

Area (ha)	0.002
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration	5
Percentage Impervious (%)	100



Catchment Area (2)

Type : Catchment Area

Area (ha)	0.002
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration	5
Percentage Impervious (%)	100

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Catchment Area (3)

Type : Catchment Area

Area (ha)	0.005
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration	5
Percentage Impervious (%)	100



Catchment Area (4)

Type : Catchment Area

Area (ha)	0.002
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration	5
Percentage Impervious (%)	100



Catchment Area (5)

Type : Catchment Area

Area (ha)	0.006
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration	5
Percentage Impervious (%)	100

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Catchment Area (6)

Type : Catchment Area

Area (ha)	0.017
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Preliminary Sizing

Volumetric Runoff Coefficient	1.000
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration	5
Percentage Impervious (%)	100



Catchment Area (7)

Type : Catchment Area

Area (ha)	0.002
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Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

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



Catchment Area (8)

Type : Catchment Area

Area (ha)	0.001
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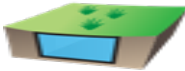
Preliminary Sizing

Volumetric Runoff Coefficient	0.750
Percentage Impervious (%)	100
Time of Concentration (mins)	5

Dynamic Sizing

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

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Tank

Type : Tank

Dimensions

Exceedance Level (m)		37.722	
Depth (m)		1.496	
Base Level (m)		36.226	
Freeboard (mm)		0	
Initial Depth (m)		0.000	
Porosity (%)		30	
Average Slope (1:X)		0.00	
Total Volume (m³)		11.096	
Depth (m)		Area (m²)	Volume (m³)
	0.000	30.00	0.000
	1.200	30.00	10.800

Inlets

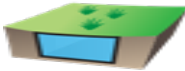
Inlet

Inlet Type	Point Inflow
Incoming Item(s)	Pipe (3)
Bypass Destination	(None)
Capacity Type	No Restriction

Advanced

Base Infiltration Rate (m/hr)	0.0643
Side Infiltration Rate (m/hr)	0.0643
Safety Factor	2.0
Perimeter	Rectangular
Length (m)	3.000
Friction Scheme	Manning's n
n	0.015

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Tank (1)

Type : Tank

Dimensions

Exceedance Level (m)		36.720	
Depth (m)		1.050	
Base Level (m)		35.670	
Freeboard (mm)		0	
Initial Depth (m)		0.000	
Porosity (%)		100	
Average Slope (1:X)		0.00	
Total Volume (m³)		7.850	
Depth (m)		Area (m²)	Volume (m³)
	0.000	18.00	0.000
	0.400	18.00	7.200

Inlets

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	Pipe (4)
Bypass Destination	(None)
Capacity Type	No Restriction

Advanced

Base Infiltration Rate (m/hr)	0.0643
Side Infiltration Rate (m/hr)	0.0643
Safety Factor	2.0
Perimeter	Rectangular
Length (m)	6.000

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FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.4	0.195
Catchment Area (1)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.4	0.180
Catchment Area (2)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.4	0.189
Catchment Area (3)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	1.0	0.423
Catchment Area (4)	FEH: 2 years: +0 %: 15 mins: Summer	0.00	0.4	0.180
Catchment Area (5)	FEH: 2 years: +0 %: 15 mins: Summer	0.01	1.1	0.471
Catchment Area (6)	FEH: 2 years: +0 %: 15 mins: Summer	0.02	3.4	1.460
Catchment Area (7)	FEH: 2 years: +0 %: 15 mins: Winter	0.00	0.3	0.165
Catchment Area (8)	FEH: 2 years: +0 %: 15 mins: Winter	0.00	0.2	0.099

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FEH: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area	FEH: 30 years: +35 %: 15 mins: Summer	0.00	1.4	0.591
Catchment Area (1)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	1.3	0.549
Catchment Area (2)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	1.3	0.567
Catchment Area (3)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	2.9	1.274
Catchment Area (4)	FEH: 30 years: +35 %: 15 mins: Summer	0.00	1.3	0.549
Catchment Area (5)	FEH: 30 years: +35 %: 15 mins: Summer	0.01	3.3	1.421
Catchment Area (6)	FEH: 30 years: +35 %: 15 mins: Summer	0.02	10.2	4.423
Catchment Area (7)	FEH: 30 years: +35 %: 15 mins: Winter	0.00	1.1	0.495
Catchment Area (8)	FEH: 30 years: +35 %: 15 mins: Winter	0.00	0.6	0.288

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

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area	FEH: 100 years: +45 %: 15 mins: Summer	0.00	1.9	0.816
Catchment Area (1)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	1.7	0.759
Catchment Area (2)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	1.8	0.780
Catchment Area (3)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	4.0	1.757
Catchment Area (4)	FEH: 100 years: +45 %: 15 mins: Summer	0.00	1.7	0.759
Catchment Area (5)	FEH: 100 years: +45 %: 15 mins: Summer	0.01	4.5	1.955
Catchment Area (6)	FEH: 100 years: +45 %: 15 mins: Summer	0.02	14.0	6.087
Catchment Area (7)	FEH: 100 years: +45 %: 15 mins: Winter	0.00	1.5	0.681
Catchment Area (8)	FEH: 100 years: +45 %: 15 mins: Winter	0.00	0.9	0.396

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FEH: 2 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
S IC 1.01	FEH: 2 years: +0 %: 15 mins: Summer	39.204	38.654	38.679	0.025	1.4	0.004	0.000	1.4	0.610	OK
S IC 1.02	FEH: 2 years: +0 %: 15 mins: Summer	39.002	38.452	38.495	0.043	2.1	0.007	0.000	2.1	0.946	OK
S IC 1.04	FEH: 2 years: +0 %: 15 mins: Summer	38.724	38.174	38.222	0.048	2.6	0.008	0.000	2.5	1.204	OK
S IC 1.05	FEH: 2 years: +0 %: 15 mins: Summer	39.216	38.051	38.082	0.031	4.0	0.005	0.000	4.0	1.853	OK
S IC 2.01	FEH: 2 years: +0 %: 15 mins: Summer	36.612	36.012	36.063	0.051	3.4	0.008	0.000	3.3	1.458	OK
S IC 1.03	FEH: 2 years: +0 %: 15 mins: Summer	39.008	38.402	38.435	0.033	2.3	0.005	0.000	2.2	1.028	OK
S IC 1.06	FEH: 2 years: +0 %: 15 mins: Summer	39.000	37.336	37.404	0.068	4.0	0.011	0.000	3.8	1.847	OK

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FEH: 30 years: Increase Rainfall (%): +35: 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
S IC 1.01	FEH: 30 years: +35 %: 15 mins: Summer	39.204	38.654	38.699	0.045	4.2	0.007	0.000	4.2	1.839	OK
S IC 1.02	FEH: 30 years: +35 %: 15 mins: Summer	39.002	38.452	38.541	0.089	6.6	0.014	0.000	6.3	2.871	OK
S IC 1.04	FEH: 30 years: +35 %: 15 mins: Summer	38.724	38.174	38.315	0.141	7.9	0.022	0.000	7.1	3.669	Surcharged
S IC 1.05	FEH: 30 years: +35 %: 15 mins: Summer	39.216	38.051	38.105	0.054	11.7	0.009	0.000	11.5	5.636	OK
S IC 2.01	FEH: 30 years: +35 %: 240 mins: Winter	36.612	36.012	36.188	0.176	1.8	0.028	0.000	1.8	10.267	Surcharged
S IC 1.03	FEH: 30 years: +35 %: 15 mins: Summer	39.008	38.402	38.466	0.064	6.9	0.010	0.000	6.7	3.123	OK
S IC 1.06	FEH: 30 years: +35 %: 15 mins: Summer	39.000	37.336	37.509	0.173	11.5	0.028	0.000	11.0	5.630	Surcharged

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FEH: 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
S IC 1.01	FEH: 100 years: +45 %: 15 mins: Summer	39.204	38.654	38.708	0.054	5.8	0.009	0.000	5.7	2.535	OK
S IC 1.02	FEH: 100 years: +45 %: 15 mins: Summer	39.002	38.452	38.617	0.165	9.0	0.026	0.000	7.6	3.953	Surcharged
S IC 1.04	FEH: 100 years: +45 %: 15 mins: Summer	38.724	38.174	38.363	0.189	9.0	0.030	0.000	8.5	5.060	Surcharged
S IC 1.05	FEH: 100 years: +45 %: 15 mins: Summer	39.216	38.051	38.115	0.064	14.7	0.010	0.000	14.6	7.771	OK
S IC 2.01	FEH: 100 years: +45 %: 480 mins: Winter	36.612	36.012	36.615	0.603	1.5	2.793	2.698	1.5	17.462	Flood
S IC 1.03	FEH: 100 years: +45 %: 15 mins: Summer	39.008	38.402	38.519	0.117	8.4	0.019	0.000	7.3	4.305	Surcharged
S IC 1.06	FEH: 100 years: +45 %: 240 mins: Winter	39.000	37.336	37.836	0.500	3.2	0.079	0.000	3.2	18.655	Surcharged

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Report Details: Type: Stormwater Controls Summary Storm Phase: Phase			



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flooded Volume

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)	Percentage Available (%)	Status
Tank	FEH: 2 years: +0 %: 15 mins: Summer	36.393	36.393	0.168	0.168	3.8	1.511	0.000	0.463	0.0	0.000	86.381	OK
Tank (1)	FEH: 2 years: +0 %: 15 mins: Summer	35.740	35.740	0.070	0.070	3.3	1.265	0.000	0.288	0.0	0.000	83.882	OK

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Report Details: Type: Stormwater Controls Summary Storm Phase: Phase			



FEH: 30 years: Increase Rainfall (%): +35: Critical Storm Per Item: Rank By: Max. Flooded Volume

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)	Percentage Available (%)	Status
Tank	FEH: 30 years: +35 %: 15 mins: Summer	36.802	36.802	0.576	0.576	11.0	5.187	0.000	0.597	0.0	0.000	53.255	OK
Tank (1)	FEH: 30 years: +35 %: 15 mins: Summer	35.903	35.903	0.233	0.233	9.5	4.202	0.000	0.325	0.0	0.000	46.476	OK

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FEH: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Flooded Volume

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)	Percentage Available (%)	Status
Tank	FEH: 100 years: +45 %: 240 mins: Winter	37.835	37.835	1.609	1.609	3.2	11.904	1.012	13.347	0.0	0.112	-7.283	Flood
Tank (1)	FEH: 100 years: +45 %: 15 mins: Summer	35.995	35.995	0.325	0.325	12.9	5.854	0.000	0.344	0.0	0.000	25.433	OK

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FEH: 2 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
Pipe	FEH: 2 years: +0 %: 15 mins: Summer	Pipe	S IC 1.01	S IC 1.02	39.204	38.679	0.034	0.610	0.6	0.13	1.4	OK
Pipe (1)	FEH: 2 years: +0 %: 15 mins: Summer	Pipe	S IC 1.02	S IC 1.03	39.002	38.495	0.038	0.946	0.8	0.34	2.1	OK
Pipe (2)	FEH: 2 years: +0 %: 15 mins: Summer	Pipe	S IC 1.04	S IC 1.05	38.724	38.222	0.046	1.204	0.7	0.42	2.5	OK
Pipe (3)	FEH: 2 years: +0 %: 15 mins: Summer	Pipe	S IC 1.06	Tank	39.000	37.404	0.063	1.847	0.7	0.66	3.8	OK
Pipe (4)	FEH: 2 years: +0 %: 15 mins: Summer	Pipe	S IC 2.01	Tank (1)	36.612	36.063	0.048	1.458	0.9	0.43	3.3	OK
Pipe (1) (1)	FEH: 2 years: +0 %: 15 mins: Summer	Pipe	S IC 1.03	S IC 1.04	39.008	38.435	0.041	1.028	0.7	0.24	2.2	OK
Pipe (5)	FEH: 2 years: +0 %: 15 mins: Summer	Pipe	S IC 1.05	S IC 1.06	39.216	38.082	0.031	1.853	1.9	0.2	4.0	OK

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FEH: 30 years: Increase Rainfall (%): +35: 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
Pipe	FEH: 30 years: +35 %: 15 mins: Summer	Pipe	S IC 1.01	S IC 1.02	39.204	38.699	0.067	1.839	0.8	0.4	4.2	OK
Pipe (1)	FEH: 30 years: +35 %: 15 mins: Summer	Pipe	S IC 1.02	S IC 1.03	39.002	38.541	0.076	2.871	1.0	1.04	6.3	OK
Pipe (2)	FEH: 30 years: +35 %: 15 mins: Summer	Pipe	S IC 1.04	S IC 1.05	38.724	38.315	0.100	3.669	0.9	1.18	7.1	Surcharged
Pipe (3)	FEH: 30 years: +35 %: 15 mins: Summer	Pipe	S IC 1.06	Tank	39.000	37.509	0.100	5.630	1.4	1.92	11.0	Surcharged
Pipe (4)	FEH: 30 years: +35 %: 15 mins: Summer	Pipe	S IC 2.01	Tank (1)	36.612	36.168	0.100	4.421	1.2	1.24	9.5	Surcharged
Pipe (1) (1)	FEH: 30 years: +35 %: 15 mins: Summer	Pipe	S IC 1.03	S IC 1.04	39.008	38.466	0.100	3.123	0.9	0.72	6.7	OK
Pipe (5)	FEH: 30 years: +35 %: 15 mins: Summer	Pipe	S IC 1.05	S IC 1.06	39.216	38.105	0.089	5.636	1.9	0.57	11.5	OK

Project: \\C1405 - Convent of Mercy, Hillside Drive, Gravesend DA12 1NY	Date: 12/02/2026		
	Designed by: NC	Checked by:	Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase	Company Address: The Clock Building, Pimp's Ct, Busbridge Rd, Maidstone ME15 0HZ		



FEH: 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
Pipe	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	S IC 1.01	S IC 1.02	39.204	38.708	0.100	2.535	0.7	0.55	5.7	OK
Pipe (1)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	S IC 1.02	S IC 1.03	39.002	38.617	0.100	3.953	1.0	1.26	7.6	Surcharged
Pipe (2)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	S IC 1.04	S IC 1.05	38.724	38.363	0.100	5.060	1.1	1.4	8.5	Surcharged
Pipe (3)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	S IC 1.06	Tank	39.000	37.562	0.100	7.764	1.8	2.45	14.1	Surcharged
Pipe (4)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	S IC 2.01	Tank (1)	36.612	36.252	0.100	6.084	1.6	1.68	12.9	Surcharged
Pipe (1) (1)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	S IC 1.03	S IC 1.04	39.008	38.519	0.100	4.305	0.9	0.78	7.3	Surcharged
Pipe (5)	FEH: 100 years: +45 %: 15 mins: Summer	Pipe	S IC 1.05	S IC 1.06	39.216	38.115	0.100	7.771	1.9	0.72	14.6	OK