

GTA Civils Ltd		Page 0
Gloucester House 66a Church Walk Burgess Hill RH15 9AS	12346 Former Comag Works Storm Network Simulation	
Date 10/03/2023 File 12346-STORM_NETWORK_C1.MDX	Designed by DT Checked by MR	

Micro Drainage

Network 2020.1.3

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Surface Network 1

Pipe Sizes STANDARD Manhole Sizes STANDARD

FEH Rainfall Model											
Return Period (years)		2		Maximum Time of Concentration (mins)		30		Maximum Backdrop Height (m)		1.500	
				Foul Sewage (l/s/ha)		0.000		Min Design Depth for Optimisation (m)		1.200	
FEH Rainfall Version		2013		Volumetric Runoff Coeff.		0.750		Min Vel for Auto Design only (m/s)		1.00	
Site Location		GB 505854 180198 TQ 05854 80198		PIMP (%)		100		Min Slope for Optimisation (1:X)		500	
Data Type		Point		Add Flow / Climate Change (%)		0					
Maximum Rainfall (mm/hr)		50		Minimum Backdrop Height (m)		0.200					

Designed with Level Soffits

Time Area Diagram for Surface Network 1

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.284	4-8	0.047	8-12	0.004

Total Area Contributing (ha) = 0.335

Total Pipe Volume (m³) = 4.543

Network Design Table for Surface Network 1											
« - Indicates pipe capacity < flow											
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	17.003	0.140	121.5	0.013	5.00	0.0	0.600	o	150	Pipe/Conduit	⚠
1.001	16.820	0.140	120.1	0.007	0.00	0.0	0.600	o	150	Pipe/Conduit	⚠
1.002	1.424	0.020	71.2	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	⚠
1.003	25.657	0.000	0.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	⚠
1.004	0.906	0.010	90.6	0.262	0.00	0.0	0.600	o	225	Pipe/Conduit	⚠
Network Results Table											
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	
1.000	50.00	5.31	26.700	0.013	0.0	0.0	0.0	0.91	16.1	1.7	
1.001	50.00	5.62	26.560	0.020	0.0	0.0	0.0	0.92	16.2	2.6	
1.002	50.00	5.64	26.420	0.020	0.0	0.0	0.0	1.19	21.1	2.6	
1.003	47.86	9.12	26.400	0.020	0.0	0.0	0.0	0.12	4.9	2.6	
1.004	47.83	9.14	26.400	0.281	0.0	0.0	0.0	1.37	54.6	36.4	

Network Design Table for Surface Network 1

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
1.005	15.006	0.390	38.5	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
2.000	22.760	0.160	142.3	0.000	5.00	0.0	0.600	o	150	Pipe/Conduit	
2.001	5.099	0.040	127.5	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
2.002	14.913	0.100	149.1	0.028	0.00	0.0	0.600	o	150	Pipe/Conduit	
2.003	26.925	0.180	149.6	0.004	0.00	0.0	0.600	o	150	Pipe/Conduit	
2.004	5.749	0.045	127.8	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
3.000	2.468	0.047	52.5	0.005	5.00	0.0	0.600	o	100	Pipe/Conduit	
3.001	15.019	0.274	54.8	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
3.002	0.757	0.014	54.8	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
3.003	32.154	0.275	116.9	0.016	0.00	0.0	0.600	o	150	Pipe/Conduit	
3.004	5.035	0.034	148.1	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
3.005	0.967	0.006	150.0	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
1.006	6.616	0.050	132.3	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)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.005	47.49	9.25	26.390	0.281	0.0	0.0	0.0	2.12	84.1	36.4
2.000	50.00	5.45	26.600	0.000	0.0	0.0	0.0	0.84	14.9	0.0
2.001	50.00	5.55	26.440	0.000	0.0	0.0	0.0	0.89	15.7	0.0
2.002	50.00	5.85	26.400	0.028	0.0	0.0	0.0	0.82	14.5	3.8
2.003	50.00	6.40	26.300	0.032	0.0	0.0	0.0	0.82	14.5	4.4
2.004	50.00	6.51	26.120	0.032	0.0	0.0	0.0	0.89	15.7	4.4
3.000	50.00	5.04	26.775	0.005	0.0	0.0	0.0	1.07	8.4	0.7
3.001	50.00	5.28	26.728	0.005	0.0	0.0	0.0	1.04	8.2	0.7
3.002	50.00	5.29	26.454	0.005	0.0	0.0	0.0	1.04	8.2	0.7
3.003	50.00	5.87	26.390	0.021	0.0	0.0	0.0	0.93	16.4	2.9
3.004	50.00	5.97	26.115	0.021	0.0	0.0	0.0	0.82	14.6	2.9
3.005	50.00	5.99	26.081	0.021	0.0	0.0	0.0	0.82	14.5	2.9
1.006	47.14	9.38	26.000	0.335	0.0	0.0	0.0	0.87	15.4«	42.7

Free Flowing Outfall Details for Surface Network 1

Outfall Pipe Number	Outfall C. Name	Level (m)	I. Level (m)	Min I. Level (m)	D,I (mm)	W (mm)
1.006	SWMH1.6	26.981	25.950	0.000	1350	0

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Micro Drainage	Network 2020.1.3	
<u>Simulation Criteria for Surface Network 1</u>		
Volumetric Runoff Coeff 0.750 Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000 Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000 Run Time (mins) 60 Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coeffiecient 0.800 Output Interval (mins) 1		
Number of Input Hydrographs 0 Number of Online Controls 1 Number of Offline Controls 0 Number of Storage Structures 1 Number of Time/Area Diagrams 0 Number of Real Time Controls 0		
<u>Synthetic Rainfall Details</u>		
Rainfall Model FEH Site Location GB 505854 180198 TQ 05854 80198 Winter Storms Yes Storm Duration (mins) 30 Return Period (years) 2 Data Type Point Cv (Summer) 0.750 FEH Rainfall Version 2013 Summer Storms Yes Cv (Winter) 0.840		
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Online Controls for Surface Network 1

Hydro-Brake® Optimum Manhole: SMH1.5, DS/PN: 1.006, Volume (m³): 1.8

Unit Reference	MD-SHE-0067-2000-1025-2000	Objective	Minimise upstream storage	Invert Level (m)	26.000
Design Head (m)	1.025	Application	Surface	Minimum Outlet Pipe Diameter (mm)	100
Design Flow (l/s)	2.0	Sump Available	Yes	Suggested Manhole Diameter (mm)	1200
Flush-Flo™	Calculated	Diameter (mm)	67		

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.025	2.0	Flush-Flo™	0.292	1.9	Kick-Flo®	0.594	1.6	Mean Flow over Head Range	-	1.7

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	1.6	0.400	1.9	0.800	1.8	1.400	2.3	2.000	2.7	2.600	3.1	4.000	3.7	5.500	4.3	7.000	4.9	8.500	5.3
0.200	1.9	0.500	1.8	1.000	2.0	1.600	2.4	2.200	2.8	3.000	3.3	4.500	3.9	6.000	4.5	7.500	5.0	9.000	5.5
0.300	1.9	0.600	1.6	1.200	2.1	1.800	2.6	2.400	2.9	3.500	3.5	5.000	4.1	6.500	4.7	8.000	5.2	9.500	5.6

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Storage Structures for Surface Network 1

Complex Manhole: N/A1.5, DS/PN: 1.004

Cellular Storage

Invert Level (m)26.400Infiltration Coefficient Side (m/hr)0.00000Porosity0.95

Infiltration Coefficient Base (m/hr)0.00000Safety Factor2.0

Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)
0.000	830.0	830.0	0.250	830.0	885.8	0.251	0.0	885.8

Porous Car Park

Infiltration Coefficient Base (m/hr)0.00000Safety Factor2.0Width (m)10.0Depression Storage (mm)5

Membrane Percolation (mm/hr)1000Porosity0.30Length (m)138.0Evaporation (mm/day)3

Max Percolation (l/s)383.3Invert Level (m)26.650Slope (1:X)0.0Cap Volume Depth (m)0.300

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10 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1

Simulation Criteria

Areal Reduction Factor 1.000 Hot Start Level (mm) 0 Foul Sewage per hectare (l/s) 0.000 MADD Factor * 10m³/ha Storage 2.000 Flow per Person per Day (l/per/day) 0.000
Hot Start (mins) 0 Manhole Headloss Coeff (Global) 0.500 Additional Flow - % of Total Flow 0.000 Inlet Coeffiecient 0.800

Number of Input Hydrographs 0 Number of Online Controls 1 Number of Offline Controls 0 Number of Storage Structures 1 Number of Time/Area Diagrams 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FEH Site Location GB 505854 180198 TQ 05854 80198 Cv (Summer) 1.000
FEH Rainfall Version 2013 Data Type Point Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0 DTS Status OFF Inertia Status OFF
Analysis Timestep 2.5 Second Increment (Extended) DVD Status ON

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160
Return Period(s) (years) 10, 30, 100
Climate Change (%) 0, 0, 40

							Water	Surcharged	Flooded				Half Drain	Pipe		
	US/MH						Level	Depth	Volume	Flow /	Overflow	Maximum	Discharge	Time	Flow	
PN	Name	Event					(m)	(m)	(m³)	Cap.	(l/s)	Vol (m³)	Vol (m³)	(mins)	(l/s)	Status
1.000	RP1.1	15 minute	10 year	Summer	I+0%	27.150	26.758	-0.092	0.000	0.31		0.001	2.061		4.7	OK
1.001	SIC1.2	15 minute	10 year	Summer	I+0%	27.125	26.636	-0.074	0.000	0.49		0.058	3.203		7.4	OK
1.002	SIC1.3	360 minute	10 year	Summer	I+0%	27.070	26.543	-0.027	0.000	0.15		0.114	8.965		1.6	OK
1.003	N/A1.4*	360 minute	10 year	Summer	I+0%	27.173	26.543	-0.082	0.000	0.14		0.153	8.898		1.6	OK*
1.004	N/A1.5	360 minute	10 year	Summer	I+0%	27.175	26.543	-0.082	0.000	0.07	112.984	71.133		549	2.1	OK
1.005	SIC1.4	30 minute	10 year	Summer	I+0%	27.175	26.567	-0.048	0.000	0.02		0.065	3.988		1.8	OK
2.000	SIC2.1	30 minute	10 year	Summer	I+0%	27.160	26.658	-0.092	0.000	0.04		0.234	0.000		0.6	OK
2.001	SIC2.2	30 minute	10 year	Summer	I+0%	27.250	26.690	0.100	0.000	0.09		0.677	-0.025		1.1	SURCHARGED
2.002	SIC2.3	30 minute	10 year	Summer	I+0%	27.350	26.701	0.151	0.000	0.60		0.123	5.809		8.0	SURCHARGED
2.003	SIC2.4	30 minute	10 year	Summer	I+0%	27.175	26.678	0.228	0.000	0.48		0.360	6.493		6.6	SURCHARGED
2.004	SIC2.5	15 minute	10 year	Summer	I+0%	27.100	26.638	0.368	0.000	0.53		0.610	4.486		6.9	SURCHARGED
3.000	RP3.1	15 minute	10 year	Summer	I+0%	27.175	26.815	-0.060	0.000	0.34		0.013	0.895		2.0	OK
3.001	dummy20	15 minute	10 year	Summer	I+0%	27.160	26.762	-0.066	0.000	0.25		0.033	0.895		2.0	OK*
3.002	dummy21	30 minute	10 year	Summer	I+0%	27.154	26.674	0.120	0.000	0.43		0.071	1.150		1.7	SURCHARGED
3.003	SIC3.2	30 minute	10 year	Summer	I+0%	27.100	26.672	0.132	0.000	0.33		0.705	4.286		5.3	SURCHARGED
3.004	SIC3.3	30 minute	10 year	Summer	I+0%	27.100	26.637	0.372	0.000	0.46		0.693	3.709		5.3	SURCHARGED
3.005	N/A3.4	30 minute	10 year	Summer	I+0%	26.994	26.626	0.395	0.000	0.48		0.084	3.626		5.3	SURCHARGED
1.006	SMH1.5	15 minute	10 year	Summer	I+0%	27.000	26.624	0.474	0.000	0.15		1.353	6.054		1.9	SURCHARGED

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

Simulation Criteria

Areal Reduction Factor 1.000 Hot Start Level (mm) 0 Foul Sewage per hectare (l/s) 0.000 MADD Factor * 10m³/ha Storage 2.000 Flow per Person per Day (l/per/day) 0.000
Hot Start (mins) 0 Manhole Headloss Coeff (Global) 0.500 Additional Flow - % of Total Flow 0.000 Inlet Coeffiecient 0.800

Number of Input Hydrographs 0 Number of Online Controls 1 Number of Offline Controls 0 Number of Storage Structures 1 Number of Time/Area Diagrams 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FEH Site Location GB 505854 180198 TQ 05854 80198 Cv (Summer) 1.000
FEH Rainfall Version 2013 Data Type Point Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0 DTS Status OFF Inertia Status OFF
Analysis Timestep 2.5 Second Increment (Extended) DVD Status ON

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160
Return Period(s) (years) 10, 30, 100
Climate Change (%) 0, 0, 40

WARNING: Half Drain Time has not been calculated as the structure is too full.

								Water	Surcharged	Flooded	Half Drain				Pipe	
PN	US/MH					US/CL	Level	Depth	Volume	Flow /	Overflow	Maximum	Discharge	Time	Flow	Status
	Name	Event				(m)	(m)	(m)	(m³)	Cap.	(l/s)	Vol (m³)	Vol (m³)	(mins)	(l/s)	
1.000	RP1.1	15 minute	30 year	Summer	I+0%	27.150	26.768	-0.082	0.000	0.42		0.002	2.780		6.3	OK
1.001	SIC1.2	15 minute	30 year	Summer	I+0%	27.125	26.652	-0.058	0.000	0.67		0.070	4.320		10.0	OK
1.002	SIC1.3	480 minute	30 year	Summer	I+0%	27.070	26.598	0.028	0.000	0.15		0.218	12.087		1.6	SURCHARGED
1.003	N/A1.4*	480 minute	30 year	Summer	I+0%	27.173	26.598	-0.027	0.000	0.14		0.213	11.978		1.6	OK*
1.004	N/A1.5	480 minute	30 year	Summer	I+0%	27.175	26.598	-0.027	0.000	0.07		156.564	80.530		2.2	OK
1.005	SIC1.4	15 minute	30 year	Summer	I+0%	27.175	26.638	0.023	0.000	0.02		0.091	-2.836		1.8	SURCHARGED
2.000	SIC2.1	30 minute	30 year	Summer	I+0%	27.160	26.759	0.009	0.000	0.12		0.679	0.000		1.6	SURCHARGED
2.001	SIC2.2	15 minute	30 year	Summer	I+0%	27.250	26.798	0.208	0.000	0.21		0.881	-0.052		2.6	SURCHARGED
2.002	SIC2.3	15 minute	30 year	Summer	I+0%	27.350	26.832	0.282	0.000	0.78		0.143	6.050		10.5	SURCHARGED
2.003	SIC2.4	15 minute	30 year	Summer	I+0%	27.175	26.803	0.353	0.000	0.71		0.395	6.753		9.8	SURCHARGED
2.004	SIC2.5	15 minute	30 year	Summer	I+0%	27.100	26.721	0.451	0.000	0.69		0.634	6.193		8.9	SURCHARGED
3.000	RP3.1	15 minute	30 year	Summer	I+0%	27.175	26.823	-0.052	0.000	0.46		0.015	1.207		2.8	OK
3.001	dummy20	30 minute	30 year	Summer	I+0%	27.160	26.787	-0.041	0.000	0.30		0.061	1.568		2.4	OK*
3.002	dummy21	15 minute	30 year	Summer	I+0%	27.154	26.771	0.217	0.000	0.65		0.108	1.205		2.5	SURCHARGED
3.003	SIC3.2	15 minute	30 year	Summer	I+0%	27.100	26.769	0.229	0.000	0.46		0.953	4.462		7.2	SURCHARGED
3.004	SIC3.3	15 minute	30 year	Summer	I+0%	27.100	26.715	0.450	0.000	0.62		0.715	3.869		7.1	SURCHARGED
3.005	N/A3.4	15 minute	30 year	Summer	I+0%	26.994	26.701	0.470	0.000	0.66		0.084	3.785		7.2	FLOOD RISK
1.006	SMH1.5	15 minute	30 year	Summer	I+0%	27.000	26.696	0.546	0.000	0.15		1.434	6.024		1.9	SURCHARGED

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 1

Simulation Criteria

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

Synthetic Rainfall Details

Rainfall Model FEH Site Location GB 505854 180198 TQ 05854 80198 Cv (Summer) 1.000
FEH Rainfall Version 2013 Data Type Point Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0 DTS Status OFF Inertia Status OFF
Analysis Timestep 2.5 Second Increment (Extended) DVD Status ON

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160
Return Period(s) (years) 10, 30, 100
Climate Change (%) 0, 0, 40

WARNING: Half Drain Time has not been calculated as the structure is too full.

				Water Surcharged Flooded								Half Drain	Pipe	Status
PN	US/MH Name	Event		US/CL (m)	Level (m)	Depth (m)	Volume (m³)	Flow / Overflow Cap.	(l/s)	Maximum Vol (m³)	Discharge Vol (m³)	Time (mins)	Flow (l/s)	
1.000	RP1.1	15 minute	100 year Summer I+40%	27.150	26.975	0.125	0.000	0.72		0.007	5.064		10.8	FLOOD RISK
1.001	SIC1.2	720 minute	100 year Winter I+40%	27.125	26.941	0.231	0.000	0.09		0.355	23.709		1.4	FLOOD RISK
1.002	SIC1.3	720 minute	100 year Winter I+40%	27.070	26.941	0.371	0.000	0.12		0.371	23.421		1.3	FLOOD RISK
1.003	N/A1.4*	15 minute	100 year Summer I+40%	27.173	26.625	0.000	0.000	1.39		0.267	7.590		16.3	SURCHARGED*
1.004	N/A1.5	720 minute	100 year Winter I+40%	27.175	26.941	0.316	0.000	0.07		318.793	135.354		2.2	FLOOD RISK
1.005	SIC1.4	720 minute	100 year Winter I+40%	27.175	26.941	0.326	0.000	0.03		0.178	135.241		2.2	FLOOD RISK
2.000	SIC2.1	30 minute	100 year Summer I+40%	27.160	27.122	0.372	0.000	0.26		2.280	0.000		3.7	FLOOD RISK
2.001	SIC2.2	30 minute	100 year Summer I+40%	27.250	27.147	0.557	0.000	0.39		1.385	-0.371		4.9	FLOOD RISK
2.002	SIC2.3	15 minute	100 year Summer I+40%	27.350	27.182	0.632	0.000	0.95		0.199	10.870		12.6	FLOOD RISK
2.003	SIC2.4	15 minute	100 year Summer I+40%	27.175	27.077	0.627	0.000	1.16		0.473	12.258		16.0	FLOOD RISK
2.004	SIC2.5	720 minute	100 year Winter I+40%	27.100	26.938	0.668	0.000	0.16		0.695	37.253		2.1	FLOOD RISK
3.000	RP3.1	15 minute	100 year Summer I+40%	27.175	27.122	0.247	0.000	0.66		0.123	2.198		4.0	FLOOD RISK
3.001	dummy20	15 minute	100 year Summer I+40%	27.160	26.828	0.000	0.000	0.51		0.385	2.199		4.1	SURCHARGED*
3.002	dummy21	15 minute	100 year Summer I+40%	27.154	27.052	0.498	0.000	1.04		0.118	2.181		4.1	FLOOD RISK
3.003	SIC3.2	15 minute	100 year Summer I+40%	27.100	27.046	0.506	0.000	0.84		1.658	8.071		13.2	FLOOD RISK
3.004	SIC3.3	720 minute	100 year Winter I+40%	27.100	26.938	0.673	0.000	0.13		0.778	24.335		1.5	FLOOD RISK
3.005	N/A3.4	720 minute	100 year Winter I+40%	26.994	26.938	0.706	0.000	0.14		0.084	24.252		1.5	FLOOD RISK
1.006	SMH1.5	720 minute	100 year Winter I+40%	27.000	26.938	0.788	0.000	0.15		1.708	195.353		1.9	FLOOD RISK