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Unit 1, Ensign House Parkway Court, Longbridge Road Plymouth, PL6 8LR	VICTORIA ROAD SWD NETWORK - POND D 1 YEAR	
Date 19/09/2025 File SWD NETWORK - POND D - ...	Designed by EPH Checked by	
Innovyze	Network 2019.1	

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FEH Rainfall Model

Return Period (years)	1
FEH Rainfall Version	1999
Site Location GB 386850 145550 ST 86850 45550	
C (1km)	-0.027
D1 (1km)	0.363
D2 (1km)	0.417
D3 (1km)	0.273
E (1km)	0.289
F (1km)	2.484
Maximum Rainfall (mm/hr)	50
Maximum Time of Concentration (mins)	30
Foul Sewage (l/s/ha)	0.000
Volumetric Runoff Coeff.	0.750
PIMP (%)	100
Add Flow / Climate Change (%)	0
Minimum Backdrop Height (m)	0.200
Maximum Backdrop Height (m)	1.500
Min Design Depth for Optimisation (m)	1.200
Min Vel for Auto Design only (m/s)	1.00
Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.166	4-8	0.065

Total Area Contributing (ha) = 0.231

Total Pipe Volume (m³) = 5.268

Network Design Table for Storm

« - Indicates pipe capacity < flow

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

Network Results Table

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Network Design Table for Storm

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)
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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
1.000	1.000	0.020	50.0	0.018	4.00	0.0	0.600	o	100	Pipe/Conduit	
1.001	5.000	0.180	27.8	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
1.002	6.106	0.038	161.5	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
2.000	1.000	0.020	50.0	0.015	4.00	0.0	0.600	o	100	Pipe/Conduit	
2.001	6.500	0.168	38.7	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
1.003	11.202	0.069	162.3	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
3.000	1.000	0.050	20.0	0.018	4.00	0.0	0.600	o	100	Pipe/Conduit	
3.001	15.110	0.232	65.1	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
1.004	4.139	0.026	159.2	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
4.000	1.000	0.020	50.0	0.011	4.00	0.0	0.600	o	100	Pipe/Conduit	
4.001	6.525	0.133	49.1	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit	
1.005	11.016	0.068	162.0	0.031	0.00	0.0	0.600	o	225	Pipe/Conduit	
5.000	1.000	0.020	50.0	0.012	4.00	0.0	0.600	o	100	Pipe/Conduit	
5.001	4.955	0.121	41.0	0.000	0.00	0.0	0.600	o	100	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)
1.000	50.00	4.02	134.260	0.018	0.0	0.0	0.0	1.09	8.6	2.4
1.001	50.00	4.07	134.240	0.018	0.0	0.0	0.0	1.47	11.5	2.4
1.002	50.00	4.17	133.935	0.018	0.0	0.0	0.0	1.03	40.8	2.4
2.000	50.00	4.02	134.210	0.015	0.0	0.0	0.0	1.09	8.6	2.0
2.001	50.00	4.10	134.190	0.015	0.0	0.0	0.0	1.24	9.8	2.0
1.003	50.00	4.35	133.897	0.033	0.0	0.0	0.0	1.02	40.7	4.5
3.000	50.00	4.01	134.235	0.018	0.0	0.0	0.0	1.73	13.6	2.4
3.001	50.00	4.27	134.185	0.018	0.0	0.0	0.0	0.96	7.5	2.4
1.004	50.00	4.42	133.828	0.051	0.0	0.0	0.0	1.03	41.1	6.9
4.000	50.00	4.02	134.080	0.011	0.0	0.0	0.0	1.09	8.6	1.5
4.001	50.00	4.11	134.060	0.011	0.0	0.0	0.0	1.10	8.7	1.5
1.005	50.00	4.60	133.802	0.093	0.0	0.0	0.0	1.02	40.7	12.6
5.000	50.00	4.02	134.000	0.012	0.0	0.0	0.0	1.09	8.6	1.6
5.001	50.00	4.08	133.980	0.012	0.0	0.0	0.0	1.21	9.5	1.6

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Innovyze						Network 2019.1						
<u>Network Design Table for Storm</u>												
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	
1.006	13.565	0.084	161.5	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit		
6.000	1.000	0.020	50.0	0.012	4.00	0.0	0.600	o	100	Pipe/Conduit		
6.001	5.498	0.060	91.6	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
1.007	9.601	0.060	160.0	0.045	0.00	0.0	0.600	o	225	Pipe/Conduit		
7.000	1.000	0.020	50.0	0.010	4.00	0.0	0.600	o	100	Pipe/Conduit		
7.001	4.510	0.180	25.1	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
7.002	10.342	0.064	161.6	0.010	0.00	0.0	0.600	o	225	Pipe/Conduit		
8.000	1.000	0.020	50.0	0.025	4.00	0.0	0.600	o	100	Pipe/Conduit		
8.001	4.510	0.174	25.9	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
7.003	12.738	0.079	161.2	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit		
9.000	1.000	0.020	50.0	0.012	4.00	0.0	0.600	o	100	Pipe/Conduit		
9.001	4.510	0.273	16.5	0.000	0.00	0.0	0.600	o	100	Pipe/Conduit		
7.004	9.797	0.062	158.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit		
1.008	6.530	0.040	163.3	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit		
<u>Network Results Table</u>												
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)		
1.006	50.00	4.82	133.734	0.105	0.0	0.0	0.0	1.03	40.8	14.2		
6.000	50.00	4.02	133.855	0.012	0.0	0.0	0.0	1.09	8.6	1.6		
6.001	50.00	4.13	133.835	0.012	0.0	0.0	0.0	0.80	6.3	1.6		
1.007	50.00	4.97	133.650	0.162	0.0	0.0	0.0	1.03	41.0	21.9		
7.000	50.00	4.02	134.120	0.010	0.0	0.0	0.0	1.09	8.6	1.4		
7.001	50.00	4.06	134.100	0.010	0.0	0.0	0.0	1.55	12.2	1.4		
7.002	50.00	4.23	133.795	0.020	0.0	0.0	0.0	1.03	40.8	2.7		
8.000	50.00	4.02	134.000	0.025	0.0	0.0	0.0	1.09	8.6	3.4		
8.001	50.00	4.06	133.980	0.025	0.0	0.0	0.0	1.52	12.0	3.4		
7.003	50.00	4.44	133.731	0.045	0.0	0.0	0.0	1.03	40.8	6.1		
9.000	50.00	4.02	134.070	0.012	0.0	0.0	0.0	1.09	8.6	1.6		
9.001	50.00	4.05	134.050	0.012	0.0	0.0	0.0	1.91	15.0	1.6		
7.004	50.00	4.60	133.652	0.057	0.0	0.0	0.0	1.04	41.3	7.7		
1.008	50.00	5.08	133.590	0.219	0.0	0.0	0.0	1.02	40.6	29.7		
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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
1.009	7.438	0.050	148.8	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
1.010	4.200	0.025	168.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
1.011	9.524	0.855	11.1	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
1.012	19.185	0.195	98.4	0.012	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)
1.009	50.00	5.20	133.550	0.219	0.0	0.0	0.0	1.07	42.5	29.7
1.010	50.00	5.27	133.500	0.219	0.0	0.0	0.0	1.01	40.0	29.7
1.011	50.00	5.32	133.475	0.219	0.0	0.0	0.0	3.04	53.7	29.7
1.012	50.00	5.64	132.620	0.231	0.0	0.0	0.0	1.01	17.9«	31.3

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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)	Backdr (mm)
DIST TANK	134.900	0.640	Open Manhole	450	1.000	134.260	100				
SIC 30-1	134.955	0.715	Open Manhole	450	1.001	134.240	100	1.000	134.240	100	
SMH 153	134.950	1.015	Open Manhole	1200	1.002	133.935	225	1.001	134.060	100	
DIST TANK	134.850	0.640	Open Manhole	450	2.000	134.210	100				
SIC 44-1	134.950	0.760	Open Manhole	450	2.001	134.190	100	2.000	134.190	100	
JUNCTION	134.875	0.978	Junction		1.003	133.897	225	1.002	133.897	225	
								2.001	134.022	100	
DIST TANK	134.875	0.640	Open Manhole	450	3.000	134.235	100				
SIC 32-1	134.875	0.690	Open Manhole	450	3.001	134.185	100	3.000	134.185	100	
JUNCTION	134.825	0.997	Junction		1.004	133.828	225	1.003	133.828	225	
								3.001	133.953	100	
DIST TANK	134.720	0.640	Open Manhole	450	4.000	134.080	100				
SIC 42-1	134.750	0.690	Open Manhole	450	4.001	134.060	100	4.000	134.060	100	
JUNCTION	134.775	0.973	Junction		1.005	133.802	225	1.004	133.802	225	
								4.001	133.927	100	
DIST TANK	134.600	0.600	Open Manhole	450	5.000	134.000	100				
SIC 34-1	134.600	0.620	Open Manhole	450	5.001	133.980	100	5.000	133.980	100	
JUNCTION	134.635	0.901	Junction		1.006	133.734	225	1.005	133.734	225	
								5.001	133.859	100	
DIST TANK	134.455	0.600	Open Manhole	450	6.000	133.855	100				
SIC 35-1	134.455	0.620	Open Manhole	450	6.001	133.835	100	6.000	133.835	100	
SMH 152	134.425	0.775	Open Manhole	1200	1.007	133.650	225	1.006	133.650	225	
								6.001	133.775	100	
DIST TANK	134.760	0.640	Open Manhole	450	7.000	134.120	100				
SIC 36-1	134.900	0.800	Open Manhole	450	7.001	134.100	100	7.000	134.100	100	
SMH 154	134.805	1.010	Open Manhole	1200	7.002	133.795	225	7.001	133.920	100	
DIST TANK	134.920	0.920	Open Manhole	450	8.000	134.000	100				
SIC 39-1	134.920	0.940	Open Manhole	450	8.001	133.980	100	8.000	133.980	100	
JUNCTION	134.900	1.169	Junction		7.003	133.731	225	7.002	133.731	225	
								8.001	133.806	100	
DIST TANK	134.710	0.640	Open Manhole	450	9.000	134.070	100				
SIC 41-1	134.750	0.700	Open Manhole	450	9.001	134.050	100	9.000	134.050	100	
JUNCTION	134.680	1.028	Open Manhole	1200	7.004	133.652	225	7.003	133.652	225	
								9.001	133.777	100	
SMH 151	134.515	0.925	Open Manhole	1200	1.008	133.590	225	1.007	133.590	225	
								7.004	133.590	225	
SMH 150	134.500	0.950	Open Manhole	1200	1.009	133.550	225	1.008	133.550	225	
POND	134.500	1.000	Open Manhole	1200	1.010	133.500	225	1.009	133.500	225	

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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)	Pipes In PN	Pipes In Invert Level (m)	Diameter (mm)	Backdrop (mm)
FC 3	134.500	1.025	Open Manhole	1200	1.011	133.475	150	1.010	133.475	225	
SMH 149	133.250	0.630	Open Manhole	1200	1.012	132.620	150	1.011	132.620	150	
	133.500	1.075	Open Manhole	0		OUTFALL		1.012	132.425	150	

No coordinates have been specified, layout information cannot be produced.

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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)
1.000	o	100	DIST TANK	134.900	134.260	0.540	Open Manhole	450
1.001	o	100	SIC 30-1	134.955	134.240	0.615	Open Manhole	450
1.002	o	225	SMH 153	134.950	133.935	0.790	Open Manhole	1200
2.000	o	100	DIST TANK	134.850	134.210	0.540	Open Manhole	450
2.001	o	100	SIC 44-1	134.950	134.190	0.660	Open Manhole	450
1.003	o	225	JUNCTION	134.875	133.897	0.753	Junction	
3.000	o	100	DIST TANK	134.875	134.235	0.540	Open Manhole	450
3.001	o	100	SIC 32-1	134.875	134.185	0.590	Open Manhole	450
1.004	o	225	JUNCTION	134.825	133.828	0.772	Junction	
4.000	o	100	DIST TANK	134.720	134.080	0.540	Open Manhole	450
4.001	o	100	SIC 42-1	134.750	134.060	0.590	Open Manhole	450
1.005	o	225	JUNCTION	134.775	133.802	0.748	Junction	
5.000	o	100	DIST TANK	134.600	134.000	0.500	Open Manhole	450
5.001	o	100	SIC 34-1	134.600	133.980	0.520	Open Manhole	450

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)
1.000	1.000	50.0	SIC 30-1	134.955	134.240	0.615	Open Manhole	450
1.001	5.000	27.8	SMH 153	134.950	134.060	0.790	Open Manhole	1200
1.002	6.106	161.5	JUNCTION	134.875	133.897	0.753	Junction	
2.000	1.000	50.0	SIC 44-1	134.950	134.190	0.660	Open Manhole	450
2.001	6.500	38.7	JUNCTION	134.875	134.022	0.753	Junction	
1.003	11.202	162.3	JUNCTION	134.825	133.828	0.772	Junction	
3.000	1.000	20.0	SIC 32-1	134.875	134.185	0.590	Open Manhole	450
3.001	15.110	65.1	JUNCTION	134.825	133.953	0.772	Junction	
1.004	4.139	159.2	JUNCTION	134.775	133.802	0.748	Junction	
4.000	1.000	50.0	SIC 42-1	134.750	134.060	0.590	Open Manhole	450
4.001	6.525	49.1	JUNCTION	134.775	133.927	0.748	Junction	
1.005	11.016	162.0	JUNCTION	134.635	133.734	0.676	Junction	
5.000	1.000	50.0	SIC 34-1	134.600	133.980	0.520	Open Manhole	450
5.001	4.955	41.0	JUNCTION	134.635	133.859	0.676	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)
1.006	o	225	JUNCTION	134.635	133.734	0.676	Junction	
6.000	o	100	DIST TANK	134.455	133.855	0.500	Open Manhole	450
6.001	o	100	SIC 35-1	134.455	133.835	0.520	Open Manhole	450
1.007	o	225	SMH 152	134.425	133.650	0.550	Open Manhole	1200
7.000	o	100	DIST TANK	134.760	134.120	0.540	Open Manhole	450
7.001	o	100	SIC 36-1	134.900	134.100	0.700	Open Manhole	450
7.002	o	225	SMH 154	134.805	133.795	0.785	Open Manhole	1200
8.000	o	100	DIST TANK	134.920	134.000	0.820	Open Manhole	450
8.001	o	100	SIC 39-1	134.920	133.980	0.840	Open Manhole	450
7.003	o	225	JUNCTION	134.900	133.731	0.944	Junction	
9.000	o	100	DIST TANK	134.710	134.070	0.540	Open Manhole	450
9.001	o	100	SIC 41-1	134.750	134.050	0.600	Open Manhole	450
7.004	o	225	JUNCTION	134.680	133.652	0.803	Open Manhole	1200

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)
1.006	13.565	161.5	SMH 152	134.425	133.650	0.550	Open Manhole	1200
6.000	1.000	50.0	SIC 35-1	134.455	133.835	0.520	Open Manhole	450
6.001	5.498	91.6	SMH 152	134.425	133.775	0.550	Open Manhole	1200
1.007	9.601	160.0	SMH 151	134.515	133.590	0.700	Open Manhole	1200
7.000	1.000	50.0	SIC 36-1	134.900	134.100	0.700	Open Manhole	450
7.001	4.510	25.1	SMH 154	134.805	133.920	0.785	Open Manhole	1200
7.002	10.342	161.6	JUNCTION	134.900	133.731	0.944	Junction	
8.000	1.000	50.0	SIC 39-1	134.920	133.980	0.840	Open Manhole	450
8.001	4.510	25.9	JUNCTION	134.900	133.806	0.994	Junction	
7.003	12.738	161.2	JUNCTION	134.680	133.652	0.803	Open Manhole	1200
9.000	1.000	50.0	SIC 41-1	134.750	134.050	0.600	Open Manhole	450
9.001	4.510	16.5	JUNCTION	134.680	133.777	0.803	Open Manhole	1200
7.004	9.797	158.0	SMH 151	134.515	133.590	0.700	Open Manhole	1200

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd	Diam	MH	C.Level	I.Level	D.Depth	MH	MH DIAM., L*W
	Sect	(mm)	Name	(m)	(m)	(m)	Connection	(mm)
1.008	o	225	SMH 151	134.515	133.590	0.700	Open Manhole	1200
1.009	o	225	SMH 150	134.500	133.550	0.725	Open Manhole	1200
1.010	o	225	POND	134.500	133.500	0.775	Open Manhole	1200
1.011	o	150	FC 3	134.500	133.475	0.875	Open Manhole	1200
1.012	o	150	SMH 149	133.250	132.620	0.480	Open Manhole	1200

Downstream Manhole

PN	Length	Slope	MH	C.Level	I.Level	D.Depth	MH	MH DIAM., L*W
	(m)	(1:X)	Name	(m)	(m)	(m)	Connection	(mm)
1.008	6.530	163.3	SMH 150	134.500	133.550	0.725	Open Manhole	1200
1.009	7.438	148.8	POND	134.500	133.500	0.775	Open Manhole	1200
1.010	4.200	168.0	FC 3	134.500	133.475	0.800	Open Manhole	1200
1.011	9.524	11.1	SMH 149	133.250	132.620	0.480	Open Manhole	1200
1.012	19.185	98.4		133.500	132.425	0.925	Open Manhole	0

Free Flowing Outfall Details for Storm

Outfall	Outfall	C. Level	I. Level	Min	D,L	W
Pipe Number	Name	(m)	(m)	I. Level	(mm)	(mm)
				(m)		

1.012		133.500	132.425	0.000	0	0
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Simulation Criteria for Storm

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m³/ha Storage	0.000
Hot Start (mins)	0	Inlet Coefficient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1

Number of Input Hydrographs	0	Number of Storage Structures	10
Number of Online Controls	10	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FEH
Return Period (years)	1
FEH Rainfall Version	1999
Site Location	GB 386850 145550 ST 86850 45550

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Synthetic Rainfall Details C (1km) -0.027 D1 (1km) 0.363 D2 (1km) 0.417 D3 (1km) 0.273 E (1km) 0.289 F (1km) 2.484 Summer Storms Yes Winter Storms No Cv (Summer) 0.750 Cv (Winter) 0.840 Storm Duration (mins) 30		
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<u>Online Controls for Storm</u> <u>Orifice Manhole: SIC 30-1, DS/PN: 1.001, Volume (m³): 0.1</u> Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 134.240 <u>Orifice Manhole: SIC 44-1, DS/PN: 2.001, Volume (m³): 0.1</u> Diameter (m) 0.015 Discharge Coefficient 0.600 Invert Level (m) 134.190 <u>Orifice Manhole: SIC 32-1, DS/PN: 3.001, Volume (m³): 0.1</u> Diameter (m) 0.020 Discharge Coefficient 0.600 Invert Level (m) 134.185 <u>Orifice Manhole: SIC 42-1, DS/PN: 4.001, Volume (m³): 0.1</u> Diameter (m) 0.015 Discharge Coefficient 0.600 Invert Level (m) 134.060 <u>Orifice Manhole: SIC 34-1, DS/PN: 5.001, Volume (m³): 0.1</u> Diameter (m) 0.015 Discharge Coefficient 0.600 Invert Level (m) 133.980 <u>Orifice Manhole: SIC 35-1, DS/PN: 6.001, Volume (m³): 0.1</u> Diameter (m) 0.015 Discharge Coefficient 0.600 Invert Level (m) 133.835 <u>Orifice Manhole: SIC 36-1, DS/PN: 7.001, Volume (m³): 0.1</u> Diameter (m) 0.015 Discharge Coefficient 0.600 Invert Level (m) 134.100 <u>Orifice Manhole: SIC 39-1, DS/PN: 8.001, Volume (m³): 0.2</u> Diameter (m) 0.030 Discharge Coefficient 0.600 Invert Level (m) 133.980 <u>Orifice Manhole: SIC 41-1, DS/PN: 9.001, Volume (m³): 0.1</u> Diameter (m) 0.015 Discharge Coefficient 0.600 Invert Level (m) 134.050 <u>Hydro-Brake® Optimum Manhole: FC 3, DS/PN: 1.011, Volume (m³): 1.3</u> <table><tr><td>Unit Reference</td><td>MD-SHE-0053-1100-0725-1100</td></tr><tr><td>Design Head (m)</td><td>0.725</td></tr><tr><td>Design Flow (l/s)</td><td>1.1</td></tr><tr><td>Flush-Flo™</td><td>Calculated</td></tr><tr><td>Objective</td><td>Minimise upstream storage</td></tr><tr><td>Application</td><td>Surface</td></tr><tr><td>Sump Available</td><td>Yes</td></tr><tr><td>Diameter (mm)</td><td>53</td></tr><tr><td>Invert Level (m)</td><td>133.475</td></tr></table>			Unit Reference	MD-SHE-0053-1100-0725-1100	Design Head (m)	0.725	Design Flow (l/s)	1.1	Flush-Flo™	Calculated	Objective	Minimise upstream storage	Application	Surface	Sump Available	Yes	Diameter (mm)	53	Invert Level (m)	133.475
Unit Reference	MD-SHE-0053-1100-0725-1100																			
Design Head (m)	0.725																			
Design Flow (l/s)	1.1																			
Flush-Flo™	Calculated																			
Objective	Minimise upstream storage																			
Application	Surface																			
Sump Available	Yes																			
Diameter (mm)	53																			
Invert Level (m)	133.475																			
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Innovyze Network 2019.1																																																																										
<u>Hydro-Brake® Optimum Manhole: FC 3, DS/PN: 1.011, Volume (m³): 1.3</u>																																																																										
Minimum Outlet Pipe Diameter (mm) 75 Suggested Manhole Diameter (mm) 1200																																																																										
<table><tr><th>Control Points</th><th>Head (m)</th><th>Flow (l/s)</th></tr><tr><td>Design Point (Calculated)</td><td>0.725</td><td>1.1</td></tr><tr><td>Flush-Flo™</td><td>0.227</td><td>1.1</td></tr><tr><td>Kick-Flo®</td><td>0.463</td><td>0.9</td></tr><tr><td>Mean Flow over Head Range</td><td>-</td><td>1.0</td></tr></table>			Control Points	Head (m)	Flow (l/s)	Design Point (Calculated)	0.725	1.1	Flush-Flo™	0.227	1.1	Kick-Flo®	0.463	0.9	Mean Flow over Head Range	-	1.0																																																									
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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																																																																										
<table><tr><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th></tr><tr><td>0.100</td><td>1.0</td><td>1.200</td><td>1.4</td><td>3.000</td><td>2.1</td><td>7.000</td><td>3.1</td></tr><tr><td>0.200</td><td>1.1</td><td>1.400</td><td>1.5</td><td>3.500</td><td>2.2</td><td>7.500</td><td>3.2</td></tr><tr><td>0.300</td><td>1.1</td><td>1.600</td><td>1.6</td><td>4.000</td><td>2.4</td><td>8.000</td><td>3.3</td></tr><tr><td>0.400</td><td>1.0</td><td>1.800</td><td>1.7</td><td>4.500</td><td>2.5</td><td>8.500</td><td>3.4</td></tr><tr><td>0.500</td><td>0.9</td><td>2.000</td><td>1.7</td><td>5.000</td><td>2.6</td><td>9.000</td><td>3.5</td></tr><tr><td>0.600</td><td>1.0</td><td>2.200</td><td>1.8</td><td>5.500</td><td>2.8</td><td>9.500</td><td>3.6</td></tr><tr><td>0.800</td><td>1.1</td><td>2.400</td><td>1.9</td><td>6.000</td><td>2.9</td><td></td><td></td></tr><tr><td>1.000</td><td>1.3</td><td>2.600</td><td>2.0</td><td>6.500</td><td>3.0</td><td></td><td></td></tr></table>			Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	0.100	1.0	1.200	1.4	3.000	2.1	7.000	3.1	0.200	1.1	1.400	1.5	3.500	2.2	7.500	3.2	0.300	1.1	1.600	1.6	4.000	2.4	8.000	3.3	0.400	1.0	1.800	1.7	4.500	2.5	8.500	3.4	0.500	0.9	2.000	1.7	5.000	2.6	9.000	3.5	0.600	1.0	2.200	1.8	5.500	2.8	9.500	3.6	0.800	1.1	2.400	1.9	6.000	2.9			1.000	1.3	2.600	2.0	6.500	3.0		
Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)																																																																			
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0.600	1.0	2.200	1.8	5.500	2.8	9.500	3.6																																																																			
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1.000	1.3	2.600	2.0	6.500	3.0																																																																					
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Storage Structures for Storm

Porous Car Park Manhole: DIST TANK, DS/PN: 1.000

Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0
Membrane Percolation (mm/hr)	1000	Length (m)	9.6
Max Percolation (l/s)	16.0	Slope (1:X)	0.0
Safety Factor	5.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	134.260	Membrane Depth (mm)	0

Porous Car Park Manhole: DIST TANK, DS/PN: 2.000

Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0
Membrane Percolation (mm/hr)	1000	Length (m)	9.6
Max Percolation (l/s)	16.0	Slope (1:X)	0.0
Safety Factor	5.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	134.210	Membrane Depth (mm)	0

Porous Car Park Manhole: DIST TANK, DS/PN: 3.000

Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.3
Membrane Percolation (mm/hr)	1000	Length (m)	10.0
Max Percolation (l/s)	17.5	Slope (1:X)	0.0
Safety Factor	5.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	134.235	Membrane Depth (mm)	0

Porous Car Park Manhole: DIST TANK, DS/PN: 4.000

Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	6.0
Membrane Percolation (mm/hr)	1000	Length (m)	9.6
Max Percolation (l/s)	16.0	Slope (1:X)	0.0
Safety Factor	5.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	134.080	Membrane Depth (mm)	0

Porous Car Park Manhole: DIST TANK, DS/PN: 5.000

Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	3.6
Membrane Percolation (mm/hr)	1000	Length (m)	12.0
Max Percolation (l/s)	12.0	Slope (1:X)	0.0
Safety Factor	5.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	134.000	Membrane Depth (mm)	0

Porous Car Park Manhole: DIST TANK, DS/PN: 6.000

Infiltration Coefficient Base (m/hr)	0.01080	Max Percolation (l/s)	13.0
Membrane Percolation (mm/hr)	1000	Safety Factor	5.0

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<u>Porous Car Park Manhole: DIST TANK, DS/PN: 6.000</u> <table><tr><td>Porosity</td><td>0.30</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Invert Level (m)</td><td>133.855</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Width (m)</td><td>3.9</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Length (m)</td><td>12.0</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 7.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>9.6</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>4.8</td></tr><tr><td>Max Percolation (l/s)</td><td>12.8</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>134.120</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 8.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>9.6</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>4.8</td></tr><tr><td>Max Percolation (l/s)</td><td>12.8</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>134.000</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Porous Car Park Manhole: DIST TANK, DS/PN: 9.000</u> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.01080</td><td>Width (m)</td><td>9.6</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>4.8</td></tr><tr><td>Max Percolation (l/s)</td><td>12.8</td><td>Slope (1:X)</td><td>0.0</td></tr><tr><td>Safety Factor</td><td>5.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>134.070</td><td>Membrane Depth (mm)</td><td>0</td></tr></table> <u>Tank or Pond Manhole: SMH 150, DS/PN: 1.009</u> Invert Level (m) 133.550 <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th></tr><tr><td>0.000</td><td>172.1</td><td>1.000</td><td>466.4</td></tr></table>			Porosity	0.30	Slope (1:X)	0.0	Invert Level (m)	133.855	Depression Storage (mm)	5	Width (m)	3.9	Evaporation (mm/day)	3	Length (m)	12.0	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	9.6	Membrane Percolation (mm/hr)	1000	Length (m)	4.8	Max Percolation (l/s)	12.8	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	134.120	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	9.6	Membrane Percolation (mm/hr)	1000	Length (m)	4.8	Max Percolation (l/s)	12.8	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	134.000	Membrane Depth (mm)	0	Infiltration Coefficient Base (m/hr)	0.01080	Width (m)	9.6	Membrane Percolation (mm/hr)	1000	Length (m)	4.8	Max Percolation (l/s)	12.8	Slope (1:X)	0.0	Safety Factor	5.0	Depression Storage (mm)	5	Porosity	0.30	Evaporation (mm/day)	3	Invert Level (m)	134.070	Membrane Depth (mm)	0	Depth (m)	Area (m²)	Depth (m)	Area (m²)	0.000	172.1	1.000	466.4
Porosity	0.30	Slope (1:X)	0.0																																																																																															
Invert Level (m)	133.855	Depression Storage (mm)	5																																																																																															
Width (m)	3.9	Evaporation (mm/day)	3																																																																																															
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Max Percolation (l/s)	12.8	Slope (1:X)	0.0																																																																																															
Safety Factor	5.0	Depression Storage (mm)	5																																																																																															
Porosity	0.30	Evaporation (mm/day)	3																																																																																															
Invert Level (m)	134.120	Membrane Depth (mm)	0																																																																																															
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Max Percolation (l/s)	12.8	Slope (1:X)	0.0																																																																																															
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Membrane Percolation (mm/hr)	1000	Length (m)	4.8																																																																																															
Max Percolation (l/s)	12.8	Slope (1:X)	0.0																																																																																															
Safety Factor	5.0	Depression Storage (mm)	5																																																																																															
Porosity	0.30	Evaporation (mm/day)	3																																																																																															
Invert Level (m)	134.070	Membrane Depth (mm)	0																																																																																															
Depth (m)	Area (m²)	Depth (m)	Area (m²)																																																																																															
0.000	172.1	1.000	466.4																																																																																															
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Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m ³ /ha Storage	0.000
Hot Start Level (mm)	0	Inlet Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

Number of Input Hydrographs	0	Number of Storage Structures	10
Number of Online Controls	10	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FEH
FEH Rainfall Version	1999
Site Location	GB 386850 145550 ST 86850 45550
C (1km)	-0.027
D1 (1km)	0.363
D2 (1km)	0.417
D3 (1km)	0.273
E (1km)	0.289
F (1km)	2.484
Cv (Summer)	0.750
Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	1
Climate Change (%)	0

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.000	DIST TANK	120 Winter	1	+0%				
1.001	SIC 30-1	180 Winter	1	+0%				
1.002	SMH 153	120 Winter	1	+0%				
2.000	DIST TANK	240 Winter	1	+0%				
2.001	SIC 44-1	240 Winter	1	+0%				
1.003	JUNCTION	120 Winter	1	+0%				
3.000	DIST TANK	120 Winter	1	+0%				
3.001	SIC 32-1	120 Winter	1	+0%	1/30 Winter			
1.004	JUNCTION	15 Winter	1	+0%				
4.000	DIST TANK	240 Winter	1	+0%				

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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	DIST TANK	134.315	-0.045	0.000	0.09		0.3	OK	
1.001	SIC 30-1	134.321	-0.019	0.000	0.03		0.3	OK	
1.002	SMH 153	133.947	-0.213	0.000	0.01		0.3	OK	
2.000	DIST TANK	134.274	-0.036	0.000	0.04		0.1	OK	
2.001	SIC 44-1	134.283	-0.007	0.000	0.02		0.1	OK	
1.003	JUNCTION	133.910	-0.212	0.000	0.01		0.5	OK*	
3.000	DIST TANK	134.289	-0.046	0.000	0.05		0.3	OK	
3.001	SIC 32-1	134.304	0.019	0.000	0.04		0.3	SURCHARGED	
1.004	JUNCTION	133.853	-0.200	0.000	0.02		0.6	OK*	
4.000	DIST TANK	134.122	-0.058	0.000	0.03		0.1	OK	

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Unit 1, Ensign House
Parkway Court, Longbridge Road
Plymouth, PL6 8LR

VICTORIA ROAD
SWD NETWORK - POND D
1 YEAR

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Micro
Drainage

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.
4.001	SIC 42-1	180 Winter	1	+0%				
1.005	JUNCTION	15 Winter	1	+0%				
5.000	DIST TANK	180 Winter	1	+0%				
5.001	SIC 34-1	180 Winter	1	+0%				
1.006	JUNCTION	15 Winter	1	+0%				
6.000	DIST TANK	180 Winter	1	+0%				
6.001	SIC 35-1	180 Winter	1	+0%				
1.007	SMH 152	15 Winter	1	+0%				
7.000	DIST TANK	180 Winter	1	+0%				
7.001	SIC 36-1	180 Winter	1	+0%				
7.002	SMH 154	15 Winter	1	+0%				
8.000	DIST TANK	60 Winter	1	+0%				
8.001	SIC 39-1	60 Winter	1	+0%	1/15 Winter			
7.003	JUNCTION	15 Winter	1	+0%				
9.000	DIST TANK	180 Winter	1	+0%				
9.001	SIC 41-1	180 Winter	1	+0%				
7.004	JUNCTION	15 Winter	1	+0%				
1.008	SMH 151	15 Winter	1	+0%				
1.009	SMH 150	600 Winter	1	+0%				
1.010	POND	720 Winter	1	+0%				
1.011	FC 3	720 Winter	1	+0%	1/120 Winter			
1.012	SMH 149	60 Winter	1	+0%				

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
4.001	SIC 42-1	134.127	-0.033	0.000	0.01		0.1	OK	
1.005	JUNCTION	133.849	-0.178	0.000	0.10		3.5	OK*	
5.000	DIST TANK	134.062	-0.038	0.000	0.04		0.1	OK	
5.001	SIC 34-1	134.070	-0.010	0.000	0.02		0.1	OK	
1.006	JUNCTION	133.779	-0.180	0.000	0.09		3.6	OK*	
6.000	DIST TANK	133.913	-0.042	0.000	0.04		0.1	OK	
6.001	SIC 35-1	133.920	-0.015	0.000	0.02		0.1	OK	
1.007	SMH 152	133.726	-0.149	0.000	0.25		8.5	OK	
7.000	DIST TANK	134.165	-0.055	0.000	0.03		0.1	OK	
7.001	SIC 36-1	134.171	-0.029	0.000	0.01		0.1	OK	
7.002	SMH 154	133.822	-0.198	0.000	0.03		1.1	OK	
8.000	DIST TANK	134.090	-0.010	0.000	0.18		0.7	OK	
8.001	SIC 39-1	134.118	0.038	0.000	0.06		0.6	SURCHARGED	
7.003	JUNCTION	133.760	-0.196	0.000	0.04		1.6	OK*	
9.000	DIST TANK	134.128	-0.042	0.000	0.04		0.1	OK	
9.001	SIC 41-1	134.136	-0.014	0.000	0.01		0.1	OK	
7.004	JUNCTION	133.693	-0.184	0.000	0.05		1.7	OK	
1.008	SMH 151	133.680	-0.135	0.000	0.33		10.0	OK	
1.009	SMH 150	133.658	-0.117	0.000	0.06		2.0	OK	
1.010	POND	133.658	-0.067	0.000	0.05		1.4	OK	
1.011	FC 3	133.658	0.033	0.000	0.02		1.1	SURCHARGED	

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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)	Flow / Cap. (l/s)	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.012	SMH 149	132.651	-0.119	0.000	0.09		1.6	OK	