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20 Milton Park Abingdon Oxfordshire OX14 4SH	Land North of Green Lane Adoptable Road Porous Subbase	
Date 07/11/2016 File Road 1 Porous Paving In...	Designed by HSS Checked by JR	
Causeway		

Summary of Results for 100 year Return Period (+30%)

Half Drain Time : 18 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	75.375	0.275	7.9	11.3	O K
30 min Summer	75.397	0.297	7.9	13.1	O K
60 min Summer	75.398	0.298	7.9	13.3	O K
120 min Summer	75.374	0.274	7.9	11.3	O K
180 min Summer	75.351	0.251	7.2	9.4	O K
240 min Summer	75.330	0.230	6.6	7.9	O K
360 min Summer	75.297	0.197	5.6	5.8	O K
480 min Summer	75.272	0.172	4.9	4.5	O K
600 min Summer	75.253	0.153	4.4	3.5	O K
720 min Summer	75.238	0.138	4.0	2.9	O K
960 min Summer	75.215	0.115	3.3	2.0	O K
1440 min Summer	75.187	0.087	2.5	1.1	O K
2160 min Summer	75.164	0.064	1.8	0.6	O K
2880 min Summer	75.151	0.051	1.5	0.4	O K
4320 min Summer	75.143	0.043	1.0	0.3	O K
5760 min Summer	75.138	0.038	0.8	0.2	O K
7200 min Summer	75.135	0.035	0.7	0.2	O K
8640 min Summer	75.132	0.032	0.6	0.2	O K
10080 min Summer	75.130	0.030	0.5	0.1	O K
15 min Winter	75.396	0.296	7.9	13.0	O K


Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	128.285	0.0	15
30 min Summer	84.226	0.0	24
60 min Summer	52.662	0.0	40
120 min Summer	31.800	0.0	74
180 min Summer	23.353	0.0	106
240 min Summer	18.644	0.0	136
360 min Summer	13.543	0.0	196
480 min Summer	10.792	0.0	256
600 min Summer	9.043	0.0	316
720 min Summer	7.823	0.0	376
960 min Summer	6.219	0.0	492
1440 min Summer	4.493	0.0	736
2160 min Summer	3.241	0.0	1096
2880 min Summer	2.568	0.0	1468
4320 min Summer	1.847	0.0	2168
5760 min Summer	1.461	0.0	2904
7200 min Summer	1.217	0.0	3656
8640 min Summer	1.048	0.0	4384
10080 min Summer	0.923	0.0	5008
15 min Winter	128.285	0.0	15

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Causeway		Source Control 2014.1.1

Summary of Results for 100 year Return Period (+30%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
30 min Winter	75.419	0.319	7.9	15.0	O K
60 min Winter	75.416	0.316	7.9	14.7	O K
120 min Winter	75.376	0.276	7.9	11.4	O K
180 min Winter	75.343	0.243	7.0	8.8	O K
240 min Winter	75.315	0.215	6.2	6.9	O K
360 min Winter	75.274	0.174	5.0	4.5	O K
480 min Winter	75.245	0.145	4.2	3.2	O K
600 min Winter	75.225	0.125	3.6	2.3	O K
720 min Winter	75.210	0.110	3.1	1.8	O K
960 min Winter	75.188	0.088	2.5	1.2	O K
1440 min Winter	75.164	0.064	1.8	0.6	O K
2160 min Winter	75.148	0.048	1.3	0.3	O K
2880 min Winter	75.143	0.043	1.0	0.3	O K
4320 min Winter	75.136	0.036	0.8	0.2	O K
5760 min Winter	75.132	0.032	0.6	0.2	O K
7200 min Winter	75.130	0.030	0.5	0.1	O K
8640 min Winter	75.127	0.027	0.4	0.1	O K
10080 min Winter	75.126	0.026	0.4	0.1	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
30 min Winter	84.226	0.0	25
60 min Winter	52.662	0.0	44
120 min Winter	31.800	0.0	78
180 min Winter	23.353	0.0	110
240 min Winter	18.644	0.0	142
360 min Winter	13.543	0.0	200
480 min Winter	10.792	0.0	260
600 min Winter	9.043	0.0	320
720 min Winter	7.823	0.0	376
960 min Winter	6.219	0.0	492
1440 min Winter	4.493	0.0	734
2160 min Winter	3.241	0.0	1068
2880 min Winter	2.568	0.0	1468
4320 min Winter	1.847	0.0	2160
5760 min Winter	1.461	0.0	2864
7200 min Winter	1.217	0.0	3560
8640 min Winter	1.048	0.0	4352
10080 min Winter	0.923	0.0	5104

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	20.000	Shortest Storm (mins)	15
Ratio R	0.400	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+30

Time Area Diagram

Total Area (ha) 0.070

Time (mins)		Area
From:	To:	(ha)
0	4	0.070

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Model Details

Storage is Online Cover Level (m) 75.750

Porous Car Park Structure

Infiltration Coefficient Base (m/hr)	0.20664	Width (m)	5.0
Membrane Percolation (mm/hr)	1000	Length (m)	55.0
Max Percolation (l/s)	76.4	Slope (1:X)	200.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	75.100	Cap Volume Depth (m)	0.400