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York House, Edison Park Dorcan Way Swindon, SN3 3RB	Generic Highway Section Whitellands Farm Bicester	
Date March 2011 File GENERIC ROAD SECT...	Designed By TGL Checked By	
Elstree Computing Ltd	Source Control W.12.4	

Summary of Results for 100 year Return Period

Half Drain Time : 30 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	98.187	0.187	1.5	3.2	O K
30 min Summer	98.214	0.214	1.5	4.1	O K
60 min Summer	98.226	0.226	1.5	4.6	O K
120 min Summer	98.218	0.218	1.5	4.3	O K
180 min Summer	98.199	0.199	1.5	3.6	O K
240 min Summer	98.179	0.179	1.5	2.9	O K
360 min Summer	98.138	0.138	1.5	1.7	O K
480 min Summer	98.101	0.101	1.5	0.9	O K
600 min Summer	98.072	0.072	1.5	0.5	O K
720 min Summer	98.058	0.058	1.4	0.3	O K
960 min Summer	98.048	0.048	1.2	0.2	O K
1440 min Summer	98.041	0.041	0.9	0.2	O K
2160 min Summer	98.035	0.035	0.6	0.1	O K
2880 min Summer	98.031	0.031	0.5	0.1	O K
4320 min Summer	98.026	0.026	0.3	0.1	O K
5760 min Summer	98.023	0.023	0.3	0.0	O K
7200 min Summer	98.021	0.021	0.2	0.0	O K
8640 min Summer	98.020	0.020	0.2	0.0	O K
10080 min Summer	98.018	0.018	0.2	0.0	O K
15 min Winter	98.205	0.205	1.5	3.8	O K
30 min Winter	98.233	0.233	1.5	4.9	O K
60 min Winter	98.243	0.243	1.5	5.3	O K


Storm Event	Rain (mm/hr)	Time-Peak (mins)
15 min Summer	98.681	16
30 min Summer	64.789	29
60 min Summer	40.510	46
120 min Summer	24.461	80
180 min Summer	17.964	112
240 min Summer	14.342	146
360 min Summer	10.418	204
480 min Summer	8.302	260
600 min Summer	6.956	314
720 min Summer	6.017	368
960 min Summer	4.784	490
1440 min Summer	3.456	724
2160 min Summer	2.493	1084
2880 min Summer	1.975	1456
4320 min Summer	1.421	2132
5760 min Summer	1.124	2936
7200 min Summer	0.936	3576
8640 min Summer	0.806	4320
10080 min Summer	0.710	5024
15 min Winter	98.681	17
30 min Winter	64.789	30
60 min Winter	40.510	48

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Summary of Results for 100 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m <sup>3</sup> )	Status
120 min Winter	98.229	0.229	1.5	4.7	O K
180 min Winter	98.202	0.202	1.5	3.7	O K
240 min Winter	98.169	0.169	1.5	2.6	O K
360 min Winter	98.103	0.103	1.5	1.0	O K
480 min Winter	98.058	0.058	1.4	0.3	O K
600 min Winter	98.050	0.050	1.2	0.2	O K
720 min Winter	98.046	0.046	1.1	0.2	O K
960 min Winter	98.041	0.041	0.9	0.2	O K
1440 min Winter	98.035	0.035	0.6	0.1	O K
2160 min Winter	98.030	0.030	0.4	0.1	O K
2880 min Winter	98.026	0.026	0.3	0.1	O K
4320 min Winter	98.022	0.022	0.2	0.0	O K
5760 min Winter	98.020	0.020	0.2	0.0	O K
7200 min Winter	98.018	0.018	0.2	0.0	O K
8640 min Winter	98.017	0.017	0.1	0.0	O K
10080 min Winter	98.015	0.015	0.1	0.0	O K

Storm Event	Rain (mm/hr)	Time-Peak (mins)
120 min Winter	24.461	86
180 min Winter	17.964	122
240 min Winter	14.342	154
360 min Winter	10.418	208
480 min Winter	8.302	248
600 min Winter	6.956	304
720 min Winter	6.017	364
960 min Winter	4.784	484
1440 min Winter	3.456	734
2160 min Winter	2.493	1076
2880 min Winter	1.975	1436
4320 min Winter	1.421	2148
5760 min Winter	1.124	2984
7200 min Winter	0.936	3560
8640 min Winter	0.806	4264
10080 min Winter	0.710	5024

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Model Details

Storage is Online Cover Level (m) 100.000

Porous Car Park Structure

Infiltration Coefficient Base (m/hr)	0.03600	Width (m)	6.0
Membrane Percolation (mm/hr)	1000	Length (m)	50.0
Max Percolation (l/s)	83.3	Slope (1:X)	100.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	98.000	Cap Volume Depth (m)	0.000