

MJA Consulting		Page 1																																																																																																																																																																																																																		
Monarch House Barton Lane OX14 3NB	Westergate & Eastergate Double Permeable Driveway 1:100+40%cc																																																																																																																																																																																																																			
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<u>Summary of Results for 100 year Return Period (+40%)</u> Half Drain Time : 88 minutes. <table><tr><th>Storm Event</th><th>Max Level (m)</th><th>Max Depth (m)</th><th>Max Infiltration (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr><tr><td>15 min Summer</td><td>99.210</td><td>0.210</td><td>0.8</td><td>4.4</td><td>O K</td></tr><tr><td>30 min Summer</td><td>99.263</td><td>0.263</td><td>0.8</td><td>5.6</td><td>O K</td></tr><tr><td>60 min Summer</td><td>99.298</td><td>0.298</td><td>0.8</td><td>6.4</td><td>O K</td></tr><tr><td>120 min Summer</td><td>99.304</td><td>0.304</td><td>0.8</td><td>6.5</td><td>O K</td></tr><tr><td>180 min Summer</td><td>99.294</td><td>0.294</td><td>0.8</td><td>6.3</td><td>O K</td></tr><tr><td>240 min Summer</td><td>99.279</td><td>0.279</td><td>0.8</td><td>5.9</td><td>O K</td></tr><tr><td>360 min Summer</td><td>99.249</td><td>0.249</td><td>0.8</td><td>5.3</td><td>O K</td></tr><tr><td>480 min Summer</td><td>99.219</td><td>0.219</td><td>0.8</td><td>4.6</td><td>O K</td></tr><tr><td>600 min Summer</td><td>99.191</td><td>0.191</td><td>0.8</td><td>4.0</td><td>O K</td></tr><tr><td>720 min Summer</td><td>99.165</td><td>0.165</td><td>0.8</td><td>3.4</td><td>O K</td></tr><tr><td>960 min Summer</td><td>99.121</td><td>0.121</td><td>0.8</td><td>2.4</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>99.064</td><td>0.064</td><td>0.8</td><td>1.1</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>99.043</td><td>0.043</td><td>0.6</td><td>0.6</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>99.035</td><td>0.035</td><td>0.5</td><td>0.4</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>99.028</td><td>0.028</td><td>0.4</td><td>0.3</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>99.025</td><td>0.025</td><td>0.3</td><td>0.2</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>99.023</td><td>0.023</td><td>0.3</td><td>0.2</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>99.021</td><td>0.021</td><td>0.2</td><td>0.2</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>99.020</td><td>0.020</td><td>0.2</td><td>0.2</td><td>O K</td></tr><tr><td>15 min Winter</td><td>99.236</td><td>0.236</td><td>0.8</td><td>5.0</td><td>O K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>127.204</td><td>0.0</td><td>17</td></tr><tr><td>30 min Summer</td><td>85.821</td><td>0.0</td><td>32</td></tr><tr><td>60 min Summer</td><td>55.250</td><td>0.0</td><td>60</td></tr><tr><td>120 min Summer</td><td>34.307</td><td>0.0</td><td>94</td></tr><tr><td>180 min Summer</td><td>25.552</td><td>0.0</td><td>128</td></tr><tr><td>240 min Summer</td><td>20.570</td><td>0.0</td><td>162</td></tr><tr><td>360 min Summer</td><td>15.173</td><td>0.0</td><td>230</td></tr><tr><td>480 min Summer</td><td>12.206</td><td>0.0</td><td>296</td></tr><tr><td>600 min Summer</td><td>10.302</td><td>0.0</td><td>360</td></tr><tr><td>720 min Summer</td><td>8.963</td><td>0.0</td><td>422</td></tr><tr><td>960 min Summer</td><td>7.189</td><td>0.0</td><td>540</td></tr><tr><td>1440 min Summer</td><td>5.257</td><td>0.0</td><td>762</td></tr><tr><td>2160 min Summer</td><td>3.836</td><td>0.0</td><td>1100</td></tr><tr><td>2880 min Summer</td><td>3.063</td><td>0.0</td><td>1468</td></tr><tr><td>4320 min Summer</td><td>2.226</td><td>0.0</td><td>2184</td></tr><tr><td>5760 min Summer</td><td>1.773</td><td>0.0</td><td>2872</td></tr><tr><td>7200 min Summer</td><td>1.487</td><td>0.0</td><td>3664</td></tr><tr><td>8640 min Summer</td><td>1.289</td><td>0.0</td><td>4312</td></tr><tr><td>10080 min Summer</td><td>1.142</td><td>0.0</td><td>5128</td></tr><tr><td>15 min Winter</td><td>127.204</td><td>0.0</td><td>17</td></tr></table>			Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	15 min Summer	99.210	0.210	0.8	4.4	O K	30 min Summer	99.263	0.263	0.8	5.6	O K	60 min Summer	99.298	0.298	0.8	6.4	O K	120 min Summer	99.304	0.304	0.8	6.5	O K	180 min Summer	99.294	0.294	0.8	6.3	O K	240 min Summer	99.279	0.279	0.8	5.9	O K	360 min Summer	99.249	0.249	0.8	5.3	O K	480 min Summer	99.219	0.219	0.8	4.6	O K	600 min Summer	99.191	0.191	0.8	4.0	O K	720 min Summer	99.165	0.165	0.8	3.4	O K	960 min Summer	99.121	0.121	0.8	2.4	O K	1440 min Summer	99.064	0.064	0.8	1.1	O K	2160 min Summer	99.043	0.043	0.6	0.6	O K	2880 min Summer	99.035	0.035	0.5	0.4	O K	4320 min Summer	99.028	0.028	0.4	0.3	O K	5760 min Summer	99.025	0.025	0.3	0.2	O K	7200 min Summer	99.023	0.023	0.3	0.2	O K	8640 min Summer	99.021	0.021	0.2	0.2	O K	10080 min Summer	99.020	0.020	0.2	0.2	O K	15 min Winter	99.236	0.236	0.8	5.0	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	127.204	0.0	17	30 min Summer	85.821	0.0	32	60 min Summer	55.250	0.0	60	120 min Summer	34.307	0.0	94	180 min Summer	25.552	0.0	128	240 min Summer	20.570	0.0	162	360 min Summer	15.173	0.0	230	480 min Summer	12.206	0.0	296	600 min Summer	10.302	0.0	360	720 min Summer	8.963	0.0	422	960 min Summer	7.189	0.0	540	1440 min Summer	5.257	0.0	762	2160 min Summer	3.836	0.0	1100	2880 min Summer	3.063	0.0	1468	4320 min Summer	2.226	0.0	2184	5760 min Summer	1.773	0.0	2872	7200 min Summer	1.487	0.0	3664	8640 min Summer	1.289	0.0	4312	10080 min Summer	1.142	0.0	5128	15 min Winter	127.204	0.0	17
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1440 min Winter	99.043	0.043	0.6	0.6	O K																																																																																																																																																																																											
2160 min Winter	99.032	0.032	0.5	0.4	O K																																																																																																																																																																																											
2880 min Winter	99.028	0.028	0.4	0.3	O K																																																																																																																																																																																											
4320 min Winter	99.024	0.024	0.3	0.2	O K																																																																																																																																																																																											
5760 min Winter	99.021	0.021	0.2	0.2	O K																																																																																																																																																																																											
7200 min Winter	99.019	0.019	0.2	0.1	O K																																																																																																																																																																																											
8640 min Winter	99.018	0.018	0.2	0.1	O K																																																																																																																																																																																											
10080 min Winter	99.017	0.017	0.1	0.1	O K																																																																																																																																																																																											
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																													
30 min Winter	85.821	0.0	31																																																																																																																																																																																													
60 min Winter	55.250	0.0	60																																																																																																																																																																																													
120 min Winter	34.307	0.0	104																																																																																																																																																																																													
180 min Winter	25.552	0.0	138																																																																																																																																																																																													
240 min Winter	20.570	0.0	176																																																																																																																																																																																													
360 min Winter	15.173	0.0	250																																																																																																																																																																																													
480 min Winter	12.206	0.0	318																																																																																																																																																																																													
600 min Winter	10.302	0.0	382																																																																																																																																																																																													
720 min Winter	8.963	0.0	442																																																																																																																																																																																													
960 min Winter	7.189	0.0	548																																																																																																																																																																																													
1440 min Winter	5.257	0.0	748																																																																																																																																																																																													
2160 min Winter	3.836	0.0	1096																																																																																																																																																																																													
2880 min Winter	3.063	0.0	1468																																																																																																																																																																																													
4320 min Winter	2.226	0.0	2212																																																																																																																																																																																													
5760 min Winter	1.773	0.0	2936																																																																																																																																																																																													
7200 min Winter	1.487	0.0	3584																																																																																																																																																																																													
8640 min Winter	1.289	0.0	4376																																																																																																																																																																																													
10080 min Winter	1.142	0.0	5040																																																																																																																																																																																													
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MJA Consulting		Page 3
Monarch House Barton Lane OX14 3NB	Westergate & Eastergate Double Permeable Driveway 1:100+40%cc	
Date 09/04/2018 File PLOTS 134-136.SRCX	Designed by C.Pendle Checked by	
Innovyze	Source Control 2017.1.2	

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)	19.500	Shortest Storm (mins)	15
Ratio R	0.342	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.021

Time (mins)	Area
From:	To: (ha)
0	4 0.021

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Monarch House Barton Lane OX14 3NB	Westergate & Eastergate Double Permeable Driveway 1:100+40%cc																									
Date 09/04/2018 File PLOTS 134-136.SRCX	Designed by C.Pendle Checked by																									
Innovyze Source Control 2017.1.2																										
<u>Model Details</u> Storage is Online Cover Level (m) 100.000 <u>Porous Car Park Structure</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.07200</td> <td>Width (m)</td> <td>5.0</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Length (m)</td> <td>15.0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>20.8</td> <td>Slope (1:X)</td> <td>500.0</td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Depression Storage (mm)</td> <td>0</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Evaporation (mm/day)</td> <td>0</td> </tr> <tr> <td>Invert Level (m)</td> <td>99.000</td> <td>Cap Volume Depth (m)</td> <td>0.500</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.07200	Width (m)	5.0	Membrane Percolation (mm/hr)	1000	Length (m)	15.0	Max Percolation (l/s)	20.8	Slope (1:X)	500.0	Safety Factor	2.0	Depression Storage (mm)	0	Porosity	0.30	Evaporation (mm/day)	0	Invert Level (m)	99.000	Cap Volume Depth (m)	0.500
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