

Robert Clark Associates				Page 1																																																																																																																																																																																																																			
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Summer	6.084	0.084	0.0	0.8	O K	60 min Summer	6.105	0.105	0.0	0.9	O K	120 min Summer	6.127	0.127	0.0	1.1	O K	180 min Summer	6.140	0.140	0.0	1.3	O K	240 min Summer	6.148	0.148	0.0	1.3	O K	360 min Summer	6.159	0.159	0.0	1.4	O K	480 min Summer	6.165	0.165	0.0	1.5	O K	600 min Summer	6.168	0.168	0.0	1.5	O K	720 min Summer	6.170	0.170	0.0	1.5	O K	960 min Summer	6.172	0.172	0.0	1.6	O K	1440 min Summer	6.173	0.173	0.0	1.6	O K	2160 min Summer	6.169	0.169	0.0	1.5	O K	2880 min Summer	6.164	0.164	0.0	1.5	O K	4320 min Summer	6.151	0.151	0.0	1.4	O K	5760 min Summer	6.137	0.137	0.0	1.2	O K	7200 min Summer	6.124	0.124	0.0	1.1	O K	8640 min Summer	6.113	0.113	0.0	1.0	O K	10080 min Summer	6.102	0.102	0.0	0.9	O K	15 min Winter	6.072	0.072	0.0	0.6	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)	15 min Summer	78.271	0.0	19	30 min Summer	51.642	0.0	34	60 min Summer	32.757	0.0	64	120 min Summer	20.269	0.0	122	180 min Summer	15.182	0.0	182	240 min Summer	12.329	0.0	242	360 min 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960 min Winter	6.197	0.197	0.0	1.8	O K																																																																																																																																																																																														
1440 min Winter	6.196	0.196	0.0	1.8	O K																																																																																																																																																																																														
2160 min Winter	6.190	0.190	0.0	1.7	O K																																																																																																																																																																																														
2880 min Winter	6.181	0.181	0.0	1.6	O K																																																																																																																																																																																														
4320 min Winter	6.160	0.160	0.0	1.4	O K																																																																																																																																																																																														
5760 min Winter	6.139	0.139	0.0	1.3	O K																																																																																																																																																																																														
7200 min Winter	6.120	0.120	0.0	1.1	O K																																																																																																																																																																																														
8640 min Winter	6.103	0.103	0.0	0.9	O K																																																																																																																																																																																														
10080 min Winter	6.088	0.088	0.0	0.8	O K																																																																																																																																																																																														
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)																																																																																																																																																																																																
30 min Winter	51.642	0.0	33																																																																																																																																																																																																
60 min Winter	32.757	0.0	62																																																																																																																																																																																																
120 min Winter	20.269	0.0	122																																																																																																																																																																																																
180 min Winter	15.182	0.0	180																																																																																																																																																																																																
240 min Winter	12.329	0.0	238																																																																																																																																																																																																
360 min Winter	9.184	0.0	354																																																																																																																																																																																																
480 min Winter	7.445	0.0	468																																																																																																																																																																																																
600 min Winter	6.324	0.0	580																																																																																																																																																																																																
720 min Winter	5.532	0.0	692																																																																																																																																																																																																
960 min Winter	4.478	0.0	902																																																																																																																																																																																																
1440 min Winter	3.322	0.0	1124																																																																																																																																																																																																
2160 min Winter	2.462	0.0	1580																																																																																																																																																																																																
2880 min Winter	1.990	0.0	2044																																																																																																																																																																																																
4320 min Winter	1.473	0.0	2900																																																																																																																																																																																																
5760 min Winter	1.189	0.0	3744																																																																																																																																																																																																
7200 min Winter	1.008	0.0	4536																																																																																																																																																																																																
8640 min Winter	0.880	0.0	5280																																																																																																																																																																																																
10080 min Winter	0.785	0.0	6048																																																																																																																																																																																																
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Robert Clark Associates		Page 3
Willow Cottage Herne Lane Rustington BN16 3EE	The Maypole Inn Maypole Lane Yapton	
Date 29 April 2020 File G1 with FoS 3.SRCX	Designed by RC Checked by	
Micro Drainage Source Control 2016.1		

Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	10	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.500	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.004

Time (mins)	Area
From: To:	(ha)
0 4	0.004

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Willow Cottage Herne Lane Rustington BN16 3EE	The Maypole Inn Maypole Lane Yapton	
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Micro Drainage Source Control 2016.1		

Model Details

Storage is Online Cover Level (m) 7.500

Cellular Storage Structure

Invert Level (m) 6.000 Safety Factor 3.0
Infiltration Coefficient Base (m/hr) 0.01296 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.01296

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	9.5	9.5	0.500	0.0	17.9
0.400	9.5	17.9			

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