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One Little London Chichester Sussex PO19 1PP	Barnham Court Garage Roof Water Attenuation	
Date 19.07.2020 File	Designed By vlc Checked By	
Micro Drainage	Source Control W.11.2	

Summary of Results for 100 year Return Period (+40%)

Storm Duration (mins)	Maximum Control (l/s)	Maximum Outflow (l/s)	Maximum Water Level (m OD)	Maximum Depth (m)	Maximum Volume (m³)	Status
15 Summer	3.1	3.1	9.3067	1.3067	0.3	0 K
30 Summer	2.9	2.9	9.1178	1.1178	0.2	0 K
60 Summer	2.3	2.3	8.7058	0.7058	0.1	0 K
120 Summer	1.6	1.6	8.3502	0.3502	0.1	0 K
180 Summer	1.2	1.2	8.2152	0.2152	0.0	0 K
240 Summer	1.0	1.0	8.1502	0.1502	0.0	0 K
360 Summer	0.8	0.8	8.0913	0.0913	0.0	0 K
480 Summer	0.6	0.6	8.0653	0.0653	0.0	0 K
600 Summer	0.5	0.5	8.0518	0.0517	0.0	0 K
720 Summer	0.4	0.4	8.0463	0.0462	0.0	0 K
960 Summer	0.4	0.4	8.0398	0.0397	0.0	0 K
1440 Summer	0.3	0.3	8.0328	0.0327	0.0	0 K
2160 Summer	0.2	0.2	8.0273	0.0272	0.0	0 K
2880 Summer	0.2	0.2	8.0233	0.0233	0.0	0 K
4320 Summer	0.1	0.1	8.0198	0.0197	0.0	0 K
5760 Summer	0.1	0.1	8.0183	0.0183	0.0	0 K
7200 Summer	0.1	0.1	8.0163	0.0163	0.0	0 K
8640 Summer	0.1	0.1	8.0153	0.0153	0.0	0 K
10080 Summer	0.1	0.1	8.0148	0.0148	0.0	0 K

Storm Duration (mins)	Rain (mm/hr)	Time-Peak (mins)
15 Summer	131.85	11
30 Summer	88.57	19
60 Summer	56.71	34
120 Summer	35.00	64
180 Summer	25.97	94
240 Summer	20.88	122
360 Summer	15.37	182
480 Summer	12.34	242
600 Summer	10.40	300
720 Summer	9.04	366
960 Summer	7.24	482
1440 Summer	5.28	728
2160 Summer	3.85	1084
2880 Summer	3.07	1420
4320 Summer	2.23	2128
5760 Summer	1.77	2856
7200 Summer	1.48	3592
8640 Summer	1.28	4344
10080 Summer	1.14	5040

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Storm Duration (mins)	Maximum Control (l/s)	Maximum Outflow (l/s)	Maximum Water Level (m OD)	Maximum Depth (m)	Maximum Volume (m³)	Status
15 Winter	3.2	3.2	9.3607	1.3607	0.3	0 K
30 Winter	2.7	2.7	8.9693	0.9693	0.2	0 K
60 Winter	1.9	1.9	8.4972	0.4972	0.1	0 K
120 Winter	1.2	1.2	8.2127	0.2127	0.0	0 K
180 Winter	0.9	0.9	8.1268	0.1268	0.0	0 K
240 Winter	0.7	0.7	8.0888	0.0888	0.0	0 K
360 Winter	0.5	0.5	8.0563	0.0562	0.0	0 K
480 Winter	0.4	0.4	8.0458	0.0457	0.0	0 K
600 Winter	0.4	0.4	8.0408	0.0407	0.0	0 K
720 Winter	0.3	0.3	8.0373	0.0372	0.0	0 K
960 Winter	0.3	0.3	8.0328	0.0327	0.0	0 K
1440 Winter	0.2	0.2	8.0268	0.0267	0.0	0 K
2160 Winter	0.1	0.1	8.0218	0.0218	0.0	0 K
2880 Winter	0.1	0.1	8.0198	0.0197	0.0	0 K
4320 Winter	0.1	0.1	8.0168	0.0168	0.0	0 K
5760 Winter	0.1	0.1	8.0153	0.0153	0.0	0 K
7200 Winter	0.1	0.1	8.0138	0.0138	0.0	0 K
8640 Winter	0.1	0.1	8.0133	0.0133	0.0	0 K
10080 Winter	0.0	0.0	8.0123	0.0122	0.0	0 K

Storm Duration (mins)	Rain (mm/hr)	Time-Peak (mins)
15 Winter	131.85	11
30 Winter	88.57	19
60 Winter	56.71	34
120 Winter	35.00	62
180 Winter	25.97	94
240 Winter	20.88	122
360 Winter	15.37	184
480 Winter	12.34	242
600 Winter	10.40	308
720 Winter	9.04	356
960 Winter	7.24	492
1440 Winter	5.28	712
2160 Winter	3.85	1072
2880 Winter	3.07	1452
4320 Winter	2.23	2240
5760 Winter	1.77	2952
7200 Winter	1.48	3728
8640 Winter	1.28	4328
10080 Winter	1.14	5104

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Rainfall Details

Region	ENG+WAL	Shortest Storm (mins)	15
Return Period (years)	100	Longest Storm (mins)	10080
M5-60 (mm)	20.000	Summer Storms	Yes
Ratio-R	0.350	Winter Storms	Yes
Cv (Summer)	0.750	Climate Change %	+40
Cv (Winter)	0.840		

Time / Area Diagram

Total Area (ha) = 0.006

Time from:	(mins) to:	Area (ha)
0	4	0.006

One Little London
Chichester
Sussex PO19 1PP

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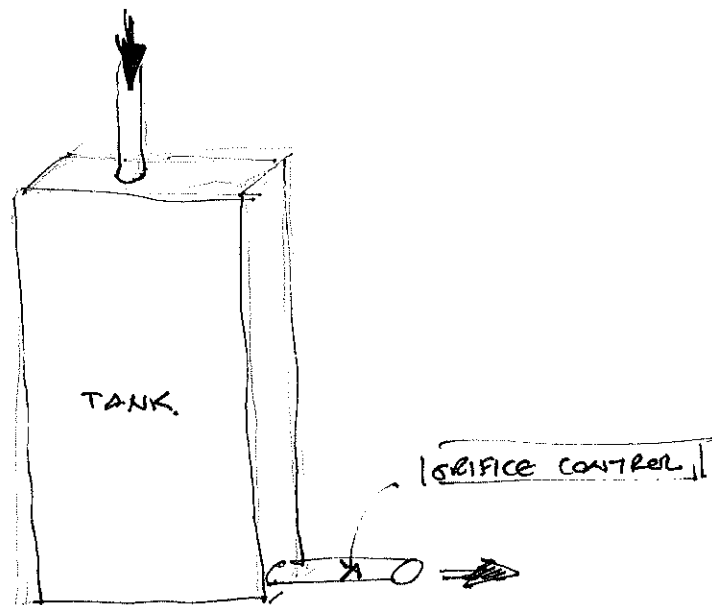
Tank/Pond Details

Invert Level (m) 8.000 Ground Level (m) 9.800

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.00	0.2	1.20	0.2	2.40	0.2	3.60	0.2	4.80	0.2
0.20	0.2	1.40	0.2	2.60	0.2	3.80	0.2	5.00	0.2
0.40	0.2	1.60	0.2	2.80	0.2	4.00	0.2		
0.60	0.2	1.80	0.2	3.00	0.2	4.20	0.2		
0.80	0.2	2.00	0.2	3.20	0.2	4.40	0.2		
1.00	0.2	2.20	0.2	3.40	0.2	4.60	0.2		

Orifice Outflow Control

Diameter (m) 0.035 Invert Level (m) 8.000
Discharge Coefficient 0.650



NOMINAL SIZE: 0.58 x 0.37 x 1.82m.

ORIFICE: ϕ 35mm

DC: 0.65

2 NO TANKS
REQUIRED