

**Golf Maintenance - Parking Plus Detained Road
Eden, UT**



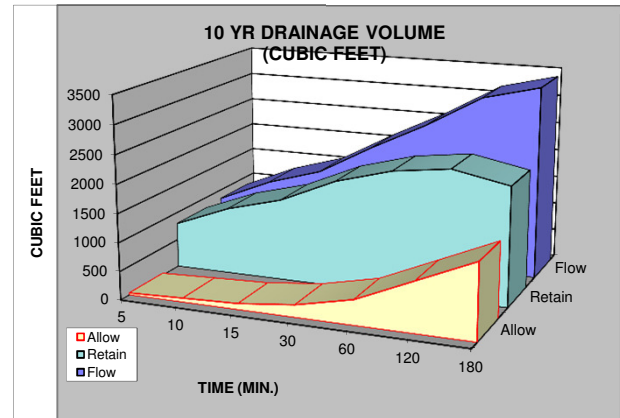
Areas	Area		C
	Sq. Ft.	Acre	
Hard Surface	39,883	0.92	0.85
Building	11,529	0.26	0.90
Landscape		0.00	0.10

Allow Release Rate (cfs/acre) **0.1**
Q Allowable (cfs) 0.12

Total/Weighted 51,412 1.18 0.86

100yr

MIN	Release Vol (cf) Allowable	Inch / Hr i100	Total Vol (cf) 100 YEAR	Detain Vol (cf) Difference
5	35	7.85	2,394	2,358
10	71	5.98	3,647	3,576
15	106	4.94	4,519	4,413
30	212	3.32	6,074	5,862
60	425	2.06	7,538	7,113
120	850	1.21	8,855	8,006
180	1,275	0.84	9,221	7,947
360	2,549	0.48	10,539	7,989
720	5,099	0.30	13,173	8,074
1440	10,197	0.18	15,808	5,610



CUBIC FEET CUBIC YARDS

100 YEAR STORM RECOMMENDED MIN. VOLUME DETAINED	8,074	299
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Orifice Calculation

H = **3** Maximum water height to center of orifice (ft)
 Q = 0.12 Flowrate out of orifice (cfs)
 Cc = 0.62 Coefficient of Contraction
 Cv = 0.98 Coefficient of Velocity
 Area = 0.014 Orifice Area (ft²)
 Π = 3.14
 g = 32.17 Gravitational Constant
 d = **2** Orifice Diameter (in) (MINIMUM 4")