

**The Ridge Townhomes - Phase 1 (Retained)
Eden, UT**

Lat= 41.3217 Long=-111.8240

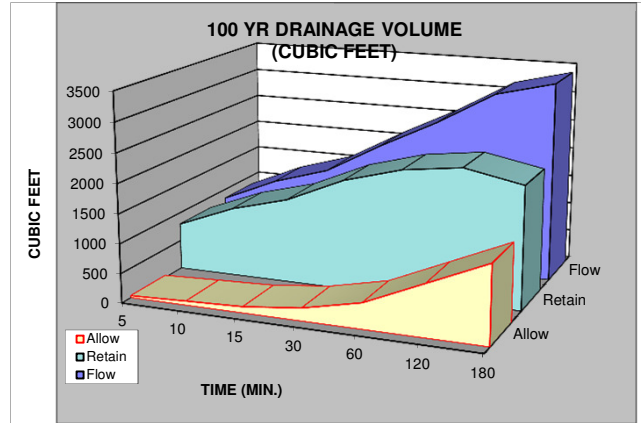


Areas	Area		C
	Sq. Ft.	Acre	
Hard Surface	9,800	0.22	0.85
Building	0	0.00	0.90
Landscape	22,139	0.51	0.10
Total/Weighted	31,939	0.73	0.33

Allow Release Rate (cfs/acre) **0.1**
Q Allowable (cfs) **0.07**

100yr

MIN	Release Vol (cf)		Total Vol (cf)
	Allowable	Inch / Hr i100	
5	22	7.85	570
10	44	5.98	868
15	66	4.94	1,076
30	132	3.32	1,447
60	264	2.06	1,795
120	528	1.21	2,109
180	792	0.84	2,196
360	1,584	0.48	2,510
720	3,137	0.30	3,137
1440	3,764	0.18	3,764



CUBIC FEET CUBIC YARDS

100 YEAR STORM RECOMMENDED MIN. VOLUME RETAINED	3,764	139
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The Ridge Townhomes - Phase 1 (Detained) Eden, UT

Lat= 41.3217 Long=-111.8240

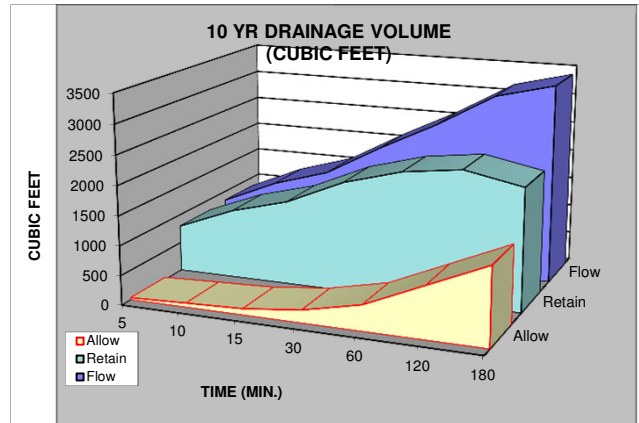


Areas	Area		C
	Sq. Ft.	Acre	
Hard Surface	27,124	0.62	0.85
Building	14,080	0.32	0.90
Landscape	119,183	2.74	0.10
Total/Weighted	160,387	3.68	0.30

Allow Release Rate (cfs/acre) 0.1
Q Allowable (cfs) 0.37

100yr

MIN	Release Vol (cf)	Inch / Hr	Total Vol (cf)	Detain Vol (cf)
	Allowable	i100	100 YEAR	Difference
5	110	7.85	2,576	2,465
10	221	5.98	3,925	3,704
15	331	4.94	4,863	4,532
30	663	3.32	6,536	5,874
60	1,326	2.06	8,112	6,786
120	2,651	1.21	9,529	6,878
180	3,977	0.84	9,923	5,946
360	7,953	0.48	11,340	3,387
720	14,176	0.30	14,176	0
1440	17,011	0.18	17,011	0



CUBIC FEET CUBIC YARDS

100 YEAR STORM RECOMMENDED MIN. VOLUME DETAINED	6,878	255
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Orifice Calculation

H = 3 Maximum water height to center of orifice (ft)
 Q = 0.37 Flowrate out of orifice (cfs)
 Cc = 0.62 Coefficient of Contraction
 Cv = 0.98 Coefficient of Velocity
 Area = 0.044 Orifice Area (ft²)
 Π = 3.14
 g = 32.17 Gravitational Constant
 d = 3 Orifice Diameter (in)