

PROJECT TITLE: **Haskell Subdivision**

BASIN: Retention Pond- Phase 1 and 2 combined

Retention Volume Determination

Basin Size, acres (A): 24.21
 Runoff Coefficient (C): 0.35
 Design Frequency: 100
 perc rate 13 min/in
 Area for perc 17900 sf

outflow to perc 1.912393 cfs

Storm Duration (min.)	Rainfall intensity (in/hr)	Runoff volume (cu.ft.)	perc outflow (cu.ft.)	Storage volume (cu.ft.)	Storage volume (acre ft.)
(T)	(I)	CIAT	QT	CIAT-QT	
5	6.480	16472	574	15899	0.36
10	4.930	25065	1147	23917	0.55
15	4.080	31115	1721	29394	0.67
30	2.740	41791	3442	38349	0.88
60	1.700	51858	6885	44973	1.03
120	0.953	58142	13769	44373	1.02
180	0.658	60216	20654	39562	0.91
360	0.358	65524	41308	24216	0.56
720	0.209	76506	82615	-6110	-0.14
1440	0.123	90050	165231	-75181	-1.73

Includes storage of 2,344 cf in 4 sumps in phase 1

Assumes 4 additional sumps in phase 2

Pond to provide 40,285 cf of storage.