

Project Name: The Roost
 Client: Local Construct
 Project Number: 150033
 Name: Brendon Daniels



Description	Contributing Areas	
	Area (SF)	Area (AC)
Building Area	34,505	0.79
Purposed Green Roof	-7,500	-0.17
10' Sidewalk Area	5,460	0.13
Broad St Road Area (CL-TBC)	3,445	0.08
5th St Road Area (CL-TBC)	6,645	0.15
Myrtle Road Area (CL-TBC)	5,239	0.12
Total	47,794	1.10

Boise Area Intensity-Duration-Frequency

Intensity (inches per hour)

Design Storm	2	5	10	25	30	50	100
Tc	=====						
10 min	1.21	1.67	1.96	2.37	2.44	2.73	3.11
15 min	1.02	1.41	1.66	2.00	2.06	2.30	2.62
20 min	0.85	1.17	1.37	1.67	1.72	1.91	2.28
25 min	0.74	1.01	1.19	1.44	1.48	1.65	2.02
30 min	0.71	0.98	1.15	1.39	1.43	1.59	1.82
35 min	0.59	0.81	0.95	1.14	1.18	1.31	1.50
40 min	0.54	0.74	0.87	1.05	1.08	1.20	1.37
45 min	0.50	0.68	0.81	0.97	1.00	1.11	1.26
50 min	0.47	0.64	0.75	0.90	0.93	1.04	1.17
55 min	0.45	0.62	0.73	0.88	0.90	1.01	1.15
1 hour	0.45	0.62	0.73	0.88	0.90	1.01	1.15

$$Q = CiA$$

$$V = Ci(Tc_{60})Ax3600$$

$$C = 0.95$$

Seepage Bed Requirements

LF of 6'x6'

$$Q_{50} = 2.84 \text{ CFS}$$

$$V_{50} = 3,787.9 \text{ CF} \quad 263.0$$

Storm drainage requirements for the 50 year storm will be 263 linear feet of 6' wide by 6' deep drain rock. These seepage beds will be distributed around all three frontages (5th, Broad & Myrtle) to accommodate roof drains, road drainage and landscaping. Seepage beds may be separated by trees within Silva Cell units.