Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected

Worksheet Protected

Stormwater Facility Name: Private WQCV Pond - Lot 2 Elm Grove Villa

Facility Location & Jurisdiction: 1895 Main Street; Colorado Springs, CO 80911 Security Basin - El Paso County

User Input: Watershed Characteristics

Watershed Slope =	0.025	ft/ft					
Watershed Length =	430	ft					
Watershed Area =	1.00	acres					
Watershed Imperviousness =	84.6%	percent					
Percentage Hydrologic Soil Group A =	100.0%	percent					
Percentage Hydrologic Soil Group B =	0.0%	percent					
Percentage Hydrologic Soil Groups C/D =	0.0%	percent					
Location for 1 by Doinfell Donths (use drandown).							

Location for 1-hr Rainfall Depths (use dropdown):

User Input

WQCV Treatment Method = Extended Detention ▼

User Defined User Defined User Defined User Defined Stage [ft] Area [ft^2] Stage [ft] Discharge [cfs] 0.00 32 0.00 0.00 0.33 32 0.33 0.00 0.83 148 0.83 0.00 1.33 1.33 0.01 411 1.83 566 1.83 0.01 2.33 759 2.33 0.01 2.83 1,016 2.83 0.02 2.92 1,073 2.92 0.02 3.33 1,333 3.33 0.02 3.83 1,729 3.83 3.01 4.23 2,214 4.23 13.18

After completing and printing this worksheet to a pdf, go to: https://maperture.digitaldataservices.com/gvh/?viewer=cswdif create a new stormwater facility, and attach the pdf of this worksheet to that record.

Routed Hydrograph Results

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Design Storm Return Period =	WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
One-Hour Rainfall Depth =	0.53	1.19	1.50	1.75	2.25	2.52	in
Calculated Runoff Volume =	0.030	0.078	0.102	0.122	0.164	0.189	acre-ft
OPTIONAL Override Runoff Volume =							acre-ft
Inflow Hydrograph Volume =	0.030	0.078	0.101	0.121	0.164	0.189	acre-ft
Time to Drain 97% of Inflow Volume =	>146	39.2	37.7	36.8	35.2	34.3	hours
Time to Drain 99% of Inflow Volume =	>146	0.0	0.0	0.0	42.2	40.9	hours
Maximum Ponding Depth =	2.79	3.44	3.50	3.55	3.65	3.72	ft
Maximum Ponded Area =	0.02	0.03	0.03	0.03	0.04	0.04	acres
Maximum Volume Stored =	0.027	0.045	0.047	0.049	0.052	0.054	acre-ft

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