Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected   Worksheet Protected

Stormwater Facility Name: Pond C

Facility Location & Jurisdiction: Paint Brush Hills Filing No. 14, Londonderry Drive, El Paso County / El Paso County

User Input: Watershed Characteristics

Watershed Characteristics			User Defined Stage [ft]	User Defined Area [ft^2]	User Defined Stage [ft]	User Defined Discharge [cfs]
Watershed Slope =	0.025	ft/ft	0.00	200	0.00	0.00
Watershed Length =	3440	ft	0.91	419	0.91	0.01
Watershed Area =	123.51	acres	2.00	9,716	2.00	0.02
Watershed Imperviousness =	40.0%	percent	3.00	49,588	3.00	0.03
Percentage Hydrologic Soil Group A =	0.0%	percent	4.00	71,735	4.00	0.85
Percentage Hydrologic Soil Group B =	100.0%	percent	5.00	76,365	5.00	3.00
Percentage Hydrologic Soil Groups C/D =	0.0%	percent	6.00	81,024	6.00	43.00
Location for 1-hr Rainfall Depths (use dropdown):			7.00	85,770	7.00	149.00
User Input			8.00	90,627	8.00	203.00
			9.00	98,822	9.00	406.00

WQCV Treatment Method = Extended Detention

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

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 =	1.851	4.214	7.003	9.424	16.007	19.359	acre-ft
OPTIONAL Override Runoff Volume =							acre-ft
Inflow Hydrograph Volume =	1.851	4.214	6.994	9.419	16.001	19.350	acre-ft
Time to Drain 97% of Inflow Volume =	>119	>119	>119	>119	>119	>119	hours
Time to Drain 99% of Inflow Volume =	>119	>119	>119	>119	>119	>119	hours
Maximum Ponding Depth =	3.73	4.99	5.76	6.25	7.30	7.92	ft
Maximum Ponded Area =	1.51	1.75	1.83	1.89	2.00	2.07	acres
Maximum Volume Stored =	1.779	3.886	5.249	6.177	8.207	9.474	acre-ft

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