

Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected

Worksheet Protected

Stormwater Facility Name: Pond W-5

Facility Location & Jurisdiction: Sterling Ranch Sudivision, Marksheffel Road, El Paso County / El Paso County

User Input: Watershed Characteristics

Watershed Slope = ft/ft
 Watershed Length = ft
 Watershed Area = acres
 Watershed Imperviousness = percent
 Percentage Hydrologic Soil Group A = percent
 Percentage Hydrologic Soil Group B = percent
 Percentage Hydrologic Soil Groups C/D = percent

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

▼

WQCV Treatment Method = ▼

User Defined Stage [ft]	User Defined Area [ft^2]	User Defined Stage [ft]	User Defined Discharge [cfs]
0.00	632	0.00	0.00
0.58	1,269	0.58	0.01
1.50	15,375	1.50	0.01
2.50	40,729	2.50	0.01
3.50	76,997	3.50	0.01
4.50	112,420	4.50	0.25
5.50	136,692	5.50	0.45
6.50	158,382	6.50	15.00
7.50	176,379	7.50	187.00
8.50	188,901	8.50	245.00
9.50	202,723	9.50	327.00
10.50	210,154	10.50	410.00
11.50	217,594	11.50	480.00

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

	WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
Design Storm Return Period =							
One-Hour Rainfall Depth =	0.53	1.19	1.50	1.75	2.25	2.52	in
Calculated Runoff Volume =	3.142	7.627	10.843	13.906	22.334	26.591	acre-ft
OPTIONAL Override Runoff Volume =							
Inflow Hydrograph Volume =	3.141	7.619	10.842	13.899	22.331	26.586	acre-ft
Time to Drain 97% of Inflow Volume =	>90	>90	>90	>90	>90	>90	hours
Time to Drain 99% of Inflow Volume =	>90	>90	>90	>90	>90	>90	hours
Maximum Ponding Depth =	3.98	5.60	6.33	6.77	7.62	8.15	ft
Maximum Ponded Area =	2.16	3.18	3.54	3.75	4.08	4.23	acres
Maximum Volume Stored =	3.128	7.501	9.943	11.590	14.896	17.099	acre-ft

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