

Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected

Worksheet Protected

Stormwater Facility Name: North Pond - Falcon Meadows at Bent Grass Filing No. 2

Facility Location & Jurisdiction: North of Bent Grass Meadows Drive, adjacent to Falcon Basin West Trib - El Paso County

User Input: Watershed Characteristics

Watershed Slope =	<input type="text" value="0.030"/>	ft/ft
Watershed Length =	<input type="text" value="1275"/>	ft
Watershed Area =	<input type="text" value="16.70"/>	acres
Watershed Imperviousness =	<input type="text" value="65.0%"/>	percent
Percentage Hydrologic Soil Group A =	<input type="text" value="100.0%"/>	percent
Percentage Hydrologic Soil Group B =	<input type="text" value="0.0%"/>	percent
Percentage Hydrologic Soil Groups C/D =	<input type="text" value="0.0%"/>	percent
Location for 1-hr Rainfall Depths (use dropdown):		
	<input type="text" value="User Input"/>	▼

WQCV Treatment Method = ▼

User Defined Stage [ft]	User Defined Area [ft^2]	User Defined Stage [ft]	User Defined Discharge [cfs]
0.00	40	0.00	0.00
0.33	40	0.33	0.02
0.42	122	0.42	0.02
1.42	4,016	1.42	0.07
2.42	5,628	2.42	0.12
3.42	7,060	3.42	0.17
4.42	8,567	4.42	13.92
5.42	10,185	5.42	68.01
6.42	11,852	6.42	206.81

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 =	0.354	0.926	1.210	1.473	2.127	2.527	acre-ft
OPTIONAL Override Runoff Volume =							acre-ft
Inflow Hydrograph Volume =	0.353	0.926	1.209	1.472	2.126	2.526	acre-ft
Time to Drain 97% of Inflow Volume =	36.7	32.9	31.2	29.8	26.6	24.8	hours
Time to Drain 99% of Inflow Volume =	39.1	37.4	36.7	35.9	34.5	33.6	hours
Maximum Ponding Depth =	3.46	4.12	4.41	4.54	4.76	4.88	ft
Maximum Ponded Area =	0.16	0.19	0.20	0.20	0.21	0.21	acres
Maximum Volume Stored =	0.311	0.425	0.480	0.506	0.551	0.577	acre-ft

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