

Stormwater Detention and Infiltration Design Data Sheet

Worksheet Protected

Stormwater Facility Name: Hannah Ridge at Feathergrass Filing 5

Facility Location & Jurisdiction: El Paso County, Colorado

User (Input) Watershed Characteristics

Watershed Slope =	0.015	ft/ft
Watershed Length-to-Width Ratio =	2.00	L:W
Watershed Area =	37.50	acres
Watershed Imperviousness =	60.0%	percent
Percentage Hydrologic Soil Group A =	0.0%	percent
Percentage Hydrologic Soil Group B =	100.0%	percent
Percentage Hydrologic Soil Groups C/D =	0.0%	percent
Location for 1-hr Rainfall Depths (use dropdown):		

User Input

User Input: Detention Basin Characteristics

WQCV Design Drain Time = 40.00 hours

[illegible]

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	25 Year	50 Year	100 Year	in acre-ft acre-ft acre-ft hours hours ft acres acre-ft
One-Hour Rainfall Depth =	0.53	1.19	1.50	1.75	2.00	2.25	2.52	
Calculated Runoff Volume =	0.730	2.059	2.993	3.767	4.800	5.687	6.691	
OPTIONAL Override Runoff Volume =								
Inflow Hydrograph Volume =	0.730	2.059	2.992	3.766	4.800	5.685	6.689	
Time to Drain 97% of Inflow Volume =	40	64	68	67	65	63	61	
Time to Drain 99% of Inflow Volume =	44	70	75	75	74	73	72	
Maximum Ponding Depth =	3.35	5.06	5.88	6.32	6.78	7.12	7.39	
Maximum Poned Area =	0.533	0.916	0.996	1.038	1.081	1.112	1.137	
Maximum Volume Stored =	0.678	1.955	2.738	3.189	3.674	4.040	4.347	

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