

Stormwater Detention and Infiltration Design Data Sheet

Stormwater Facility Name: WATERBURY FILING NO. 2 - INTERIM DETENTION POND 2C

Facility Location & Jurisdiction: FALCON, COLORADO - EL PASO COUNTY

User (Input) Watershed Characteristics

Watershed Slope =	0.020	ft/ft
Watershed Length-to-Width Ratio =	4.00	L:W
Watershed Area =	24.10	acres
Watershed Imperviousness =	36.0%	percent
Percentage Hydrologic Soil Group A =		percent
Percentage Hydrologic Soil Group B =	100.0%	percent
Percentage Hydrologic Soil Groups C/D =		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	
One-Hour Rainfall Depth =	0.53	1.19	1.50	1.75	2.00	2.25	2.52	in
Calculated Runoff Volume =	0.336	0.727	1.255	1.722	2.449	3.017	3.673	acre-ft
OPTIONAL Override Runoff Volume =								acre-ft
Inflow Hydrograph Volume =	0.336	0.726	1.254	1.721	2.448	3.017	3.673	acre-ft
Time to Drain 97% of Inflow Volume =	69	72	77	77	70	66	62	hours
Time to Drain 99% of Inflow Volume =	92	94	99	100	93	89	85	hours
Maximum Ponding Depth =	0.85	1.75	2.68	3.10	3.44	3.68	3.94	ft
Maximum Poned Area =	0.320	0.359	0.600	0.745	0.864	0.946	1.036	acres
Maximum Volume Stored =	0.258	0.562	0.980	1.262	1.540	1.756	2.013	acre-ft

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