

Stormwater Detention and Infiltration Design Data Sheet

Worksheet Protected

Stormwater Facility Name:

Facility Location & Jurisdiction:

User (Input) Watershed Characteristics

Watershed Slope =	0.020	ft/ft
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Watershed Length-to-Width Ratio =	4.00	L:W
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Watershed Area =	16.88	acres
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Watershed Imperviousness =	71.0%	percent
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Percentage Hydrologic Soil Group A = 100.0% percent

Percentage Hydrologic Soil Group B =	0.0%	percent
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Percentage Hydrologic Soil Groups C/D =	0.0%	percent
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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 =	0.389	1.030	1.339	1.653	2.101	2.445	2.843	acre-ft
OPTIONAL Override Runoff Volume =								acre-ft
Inflow Hydrograph Volume =	0.389	1.030	1.339	1.653	2.100	2.444	2.842	acre-ft
Time to Drain 97% of Inflow Volume =	13	12	12	11	11	11	11	hours
Time to Drain 99% of Inflow Volume =	17	16	16	15	15	15	15	hours
Maximum Ponding Depth =	0.55	1.08	1.30	1.50	1.75	1.93	2.12	ft
Maximum Poned Area =	0.668	0.955	1.069	1.222	1.423	1.560	1.708	acres
Maximum Volume Stored =	0.271	0.704	0.919	1.147	1.488	1.751	2.062	acre-ft

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