

Why are the following pond calcs provided when no detail drawings were provided to compare the calcs to? If the pond design is to come under a different EDARP submittal (like an SF, for example) than just remove the calcs from this drainage report to avoid confusion.

Stormwater Detention and Infiltration Design Data Sheet

SDI-Design Data v2.00, Released January 2020

Stormwater Facility Name: **POND B**

Facility Location & Jurisdiction: **4-WAY COMMERCIAL, EL PASO COUNTY, COLORADO**

User Input: Watershed Characteristics

Extended Detention Basin (EDB)	▼	EDB
Watershed Area =	12.45	acres
Watershed Length =	1,187	ft
Watershed Length to Centroid =	660	ft
Watershed Slope =	0.015	ft/ft
Watershed Imperviousness =	84.0%	percent
Percentage Hydrologic Soil Group A =	100.0%	percent
Percentage Hydrologic Soil Group B =	0.0%	percent
Percentage Hydrologic Soil Groups C/D =	0.0%	percent
Target WQCV Drain Time =	40.0	hours
Location for 1-hr Rainfall Depths (use dropdown):		
User Input	▼	

After providing required inputs above including 1-hour rainfall depths, click 'Run CUHP' to generate runoff hydrographs using the embedded Colorado Urban Hydrograph Procedure.

Once CUHP has been run and the Stage-Area-Discharge information has been provided, click 'Process Data' to interpolate the Stage-Area-Volume-Discharge data and generate summary results in the table below. Once this is complete, click 'Print to PDF'.

User Defined Stage [ft]	User Defined Area [ft^2]	User Defined Stage [ft]	User Defined Discharge [cfs]
0.00	0	0.00	0.00
0.20	2,163	0.20	0.03
0.40	4,325	0.40	0.04
0.60	6,488	0.60	0.07
0.80	8,650	0.80	0.09
1.00	10,813	1.00	0.11
1.20	14,768	1.20	0.15
1.40	18,723	1.40	0.18
1.60	22,679	1.60	0.20
1.80	26,634	1.80	0.25
2.00	30,589	2.00	0.30
2.20	31,420	2.20	0.34
2.40	32,251	2.40	0.38
2.60	33,082	2.60	0.41
2.80	33,913	2.80	0.43
3.00	34,744	3.00	0.46
3.20	35,462	3.20	1.78
3.40	36,179	3.40	5.75
3.60	36,897	3.60	6.05
3.80	37,614	3.80	6.22
4.00	38,332	4.00	6.39
4.20	39,072	4.20	15.58
4.40	39,812	4.40	32.73
4.60	40,553	4.60	55.55
4.80	41,293	4.80	83.35
5.00	42,033	5.00	115.76
5.20	42,796	5.20	152.59
5.40	43,559	5.40	193.71
5.60	44,321	5.60	239.04
5.80	45,084	5.80	288.54
6.00	45,847	6.00	342.18
6.20	46,331	6.20	399.96
6.40	46,816	6.40	461.88
6.50	47,058	6.50	494.39

After completing and printing this worksheet to a pdf, go to:

<https://maperture.digitaldataservices.com/qvh/?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 =	N/A	1.19	1.50	1.75	2.00	2.52	in
CUHP Runoff Volume =	0.368	0.989	1.279	1.512	1.776	2.331	acre-ft
Inflow Hydrograph Volume =	N/A	0.989	1.279	1.512	1.776	2.331	acre-ft
Time to Drain 97% of Inflow Volume =	37.2	57.0	63.4	66.9	66.5	64.3	hours
Time to Drain 99% of Inflow Volume =	40.2	62.8	70.1	74.1	74.1	72.8	hours
Maximum Ponding Depth =	1.63	2.46	2.82	3.09	3.26	3.59	ft
Maximum Poned Area =	0.53	0.75	0.78	0.80	0.82	0.85	acres
Maximum Volume Stored =	0.369	0.928	1.207	1.414	1.553	1.830	acre-ft

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