Stormwater Detention and Infiltration Design Data Sheet

SDI-Design Data v2.00, Released January 2020

Stormwater Facility Name: 208 Cunningham Drive

Facility Location & Jurisdiction: 208 Cunningham Drive, El Paso County

User Input: Watershed Characteristics Rain Garden (RG) - Bioretention ▼ |= RG Watershed Area = 2.04 acres 632 Watershed Length = ft Watershed Length to Centroid = 316 ft Watershed Slope =0.031 ft/ft 32.8% Watershed Imperviousness = percent 0.0% Percentage Hydrologic Soil Group A = percent Percentage Hydrologic Soil Group B = 100.0% percent Percentage Hydrologic Soil Groups C/D = 0.0% percent Target WQCV Drain Time = 12.0 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	User Defined	User Defined	User Defined		
Stage [ft]	Area [ft^2]	Stage [ft]	Discharge [cfs]		
0.00	0	0.00	0.00		
1.00	3,958	1.00	0.08		
2.00	5,232	2.00	0.11		
3.00	6,606	3.00	0.14		

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

Routed Hydrograph Results

worksheet to that record.

Design Storm Return Period =	WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
One-Hour Rainfall Depth =	N/A	1.19	1.50	1.75	2.25	2.52	in
CUHP Runoff Volume =	0.022	0.068	0.108	0.144	0.239	0.293	acre-ft
Inflow Hydrograph Volume =	N/A	0.068	0.108	0.144	0.239	0.293	acre-ft
Time to Drain 97% of Inflow Volume =	7.8	14.8	19.2	22.8	31.3	35.7	hours
Time to Drain 99% of Inflow Volume =	8.6	16.0	20.8	24.7	33.7	38.3	hours
Maximum Ponding Depth =	0.69	1.10	1.47	1.78	2.51	2.88	ft
Maximum Ponded Area =	0.06	0.09	0.10	0.11	0.14	0.15	acres
Maximum Volume Stored =	0.022	0.054	0.091	0.124	0.216	0.269	acre-ft

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