

Stormwater Detention and Infiltration Design Data Sheet

SDI-Design Data v2.00, Released January 2020

Stormwater Facility Name: Northcrest Center Sub.

Facility Location & Jurisdiction: **NW Corner Constitution and Canada Drive**

User Input: Watershed Characteristics			User Defined	User Defined	User Defined	User Defined
Extended Detention Basin (EDB)	EDB		Stage [ft]	Area [ft^2]	Stage [ft]	Discharge [cfs]
Watershed Area =	3.17	acres	0.00	100	0.00	0.01
Watershed Length =	400	ft	1.00	2,753	1.00	0.05
Watershed Length to Centroid =	175	ft	2.00	4,300	2.00	0.07
Watershed Slope = 0.050		ft/ft	3.00	4,644	3.00	0.10
Watershed Imperviousness =	71.7%	percent	4.00	4,795	4.00	1.00
Percentage Hydrologic Soil Group A =	100.0%	percent	5.00	4,932	5.00	2.00
Percentage Hydrologic Soil Group B =	0.0%	percent	6.00	5,100	6.00	4.75
Percentage Hydrologic Soil Groups C/D =	0.0%	percent				
Target WQCV Drain Time =	40.0	hours				
Location for 1-hr Rainfall Depths (u						
User Input	-					
	After providing	required inputs above including 1-hour				
	, click 'Run CUHP' to generate runoff					
	sing the embedded Colorado Urban					
	Hydrograph Pr	ocedure.				
	Once CUHP ha	s been run and the Stage-Area-Discharge				
	s been provided, click 'Process Data' to					
		Stage-Area-Volume-Discharge data and				
generate summary results in the table below. Once						
	complete, click 'Print to PDF'.					
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

WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
N/A	1.19	1.50	1.75	2.25	2.52	in
0.075	0.188	0.245	0.291	0.403	0.469	acre-ft
N/A	0.188	0.245	0.291	0.403	0.469	acre-ft
19.6	36.6	42.0	42.5	42.2	41.8	hours
20.6	38.7	44.5	45.3	45.6	45.6	hours
1.58	2.61	3.11	3.37	3.91	4.35	ft
0.08	0.10	0.11	0.11	0.11	0.11	acres
0.075	0.175	0.228	0.256	0.315	0.362	acre-ft
	N/A 0.075 N/A 19.6 20.6 1.58 0.08	N/A 1.19 0.075 0.188 N/A 0.188 19.6 36.6 20.6 38.7 1.58 2.61 0.08 0.10	N/A 1.19 1.50 0.075 0.188 0.245 N/A 0.188 0.245 19.6 36.6 42.0 20.6 38.7 44.5 1.58 2.61 3.11 0.08 0.10 0.11	N/A 1.19 1.50 1.75 0.075 0.188 0.245 0.291 N/A 0.188 0.245 0.291 19.6 36.6 42.0 42.5 20.6 38.7 44.5 45.3 1.58 2.61 3.11 3.37 0.08 0.10 0.11 0.11	N/A 1.19 1.50 1.75 2.25 0.075 0.188 0.245 0.291 0.403 N/A 0.188 0.245 0.291 0.403 N/A 0.188 0.245 0.291 0.403 19.6 36.6 42.0 42.5 42.2 20.6 38.7 44.5 45.3 45.6 1.58 2.61 3.11 3.37 3.91 0.08 0.10 0.11 0.11 0.11	N/A 1.19 1.50 1.75 2.25 2.52 0.075 0.188 0.245 0.291 0.403 0.469 N/A 0.188 0.245 0.291 0.403 0.469 N/A 0.188 0.245 0.291 0.403 0.469 19.6 36.6 42.0 42.5 42.2 41.8 20.6 38.7 44.5 45.3 45.6 45.6 1.58 2.61 3.11 3.37 3.91 4.35 0.08 0.10 0.11 0.11 0.11 0.11

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