inputs do not match what is shown on pdf pg 45 of FDR. Revise to remove discrepancies unless inputs were altered on this SDI form so that the outputs better aligned between the two forms (since the formulas are slightly different)

### Stormwater Detention and Infiltration Design Data Sheet

SDI-Design Data v2.00, Released January 2020

Stormwater Facility Name: The Villas at Claremont Ranch

## Facility Location & Jurisdiction: 1250 Meadowbrook Parkway/El Paso County

#### User Input: Watershed Characteristics EDB Extended Detention Basin (EDB) Watershed Area = 7.78 acres 1,130 Watershed Length = ft Watershed Length to Centroid = 585 ft 0.015 Watershed Slope = ft/ft Watershed Imperviousness = 49.0% percent Percentage Hydrologic Soil Group A = 25.8% percent Percentage Hydrologic Soil Group B = 74.2% 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	User Defined	User Defined User Defin		
Stage [ft]	Area [ft^2]	Stage [ft]	Discharge [cfs]	
0.00	16	0.00	0.00	
0.33	16	0.33	0.02	
1.00	3,547	1.00	0.05	
3.00	5,992	3.00	0.10	
5.00	10,178	5.00	4.30	
7.00	14,422	7.00	12.30	

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	2.00	2.25	in
0.132	0.357	0.514	0.647	0.848	1.040	acre-ft
N/A	0.357	0.514	0.647	0.848	1.040	acre-ft
26.9	44.3	43.5	42.7	41.4	40.3	hours
28.0	46.8	46.8	46.6	46.3	45.8	hours
2.09	3.32	3.74	4.07	4.61	5.08	ft
0.11	0.15	0.17	0.19	0.21	0.24	acres
0.133	0.293	0.361	0.419	0.528	0.635	acre-ft
	WQCV N/A 0.132 N/A 26.9 28.0 2.09 0.11 0.133	WQCV 2 Year   N/A 1.19   0.132 0.357   N/A 0.357   26.9 44.3   28.0 46.8   2.09 3.32   0.11 0.15   0.133 0.293	WQCV 2 Year 5 Year   N/A 1.19 1.50   0.132 0.357 0.514   N/A 0.357 0.514   26.9 44.3 43.5   28.0 46.8 46.8   2.09 3.32 3.74   0.11 0.15 0.17   0.133 0.293 0.361	WQCV 2 Year 5 Year 10 Year   N/A 1.19 1.50 1.75   0.132 0.357 0.514 0.647   N/A 0.357 0.514 0.647   26.9 44.3 <b>43.5</b> 42.7   28.0 46.8 46.8 46.6   2.09 3.32 3.74 4.07   0.11 0.15 0.17 0.19   0.133 0.293 0.361 0.419	WQCV 2 Year 5 Year 10 Year 50 Year   N/A 1.19 1.50 1.75 2.00   0.132 0.357 0.514 0.647 0.848   N/A 0.357 0.514 0.647 0.848   26.9 44.3 <b>43.5</b> 42.7 41.4   28.0 46.8 46.8 46.6 46.3   2.09 3.32 3.74 4.07 4.61   0.11 0.15 0.17 0.19 0.21   0.133 0.293 0.361 0.419 0.528	WQCV 2 Year 5 Year 10 Year 50 Year 100 Year   N/A 1.19 1.50 1.75 2.00 2.25   0.132 0.357 0.514 0.647 0.848 1.040   N/A 0.357 0.514 0.647 0.848 1.040   N/A 0.357 0.514 0.647 0.848 1.040   26.9 44.3 <b>43.5</b> 42.7 41.4 40.3   28.0 46.8 46.8 46.6 46.3 <b>45.8</b> 2.09 3.32 3.74 4.07 4.61 5.08   0.11 0.15 0.17 0.19 0.21 <b>0.24</b> 0.133 0.293 0.361 0.419 0.528 0.635

# Stormwater Detention and Infiltration Design Data Sheet

