# Stormwater Detention and Infiltration Design Data Sheet SDI-Design Data v2.00, Released January 2020

### Stormwater Facility Name: Northcrest Center Sub.

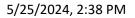
## Facility Location & Jurisdiction: **NW Corner Constitution and Canada Drive**

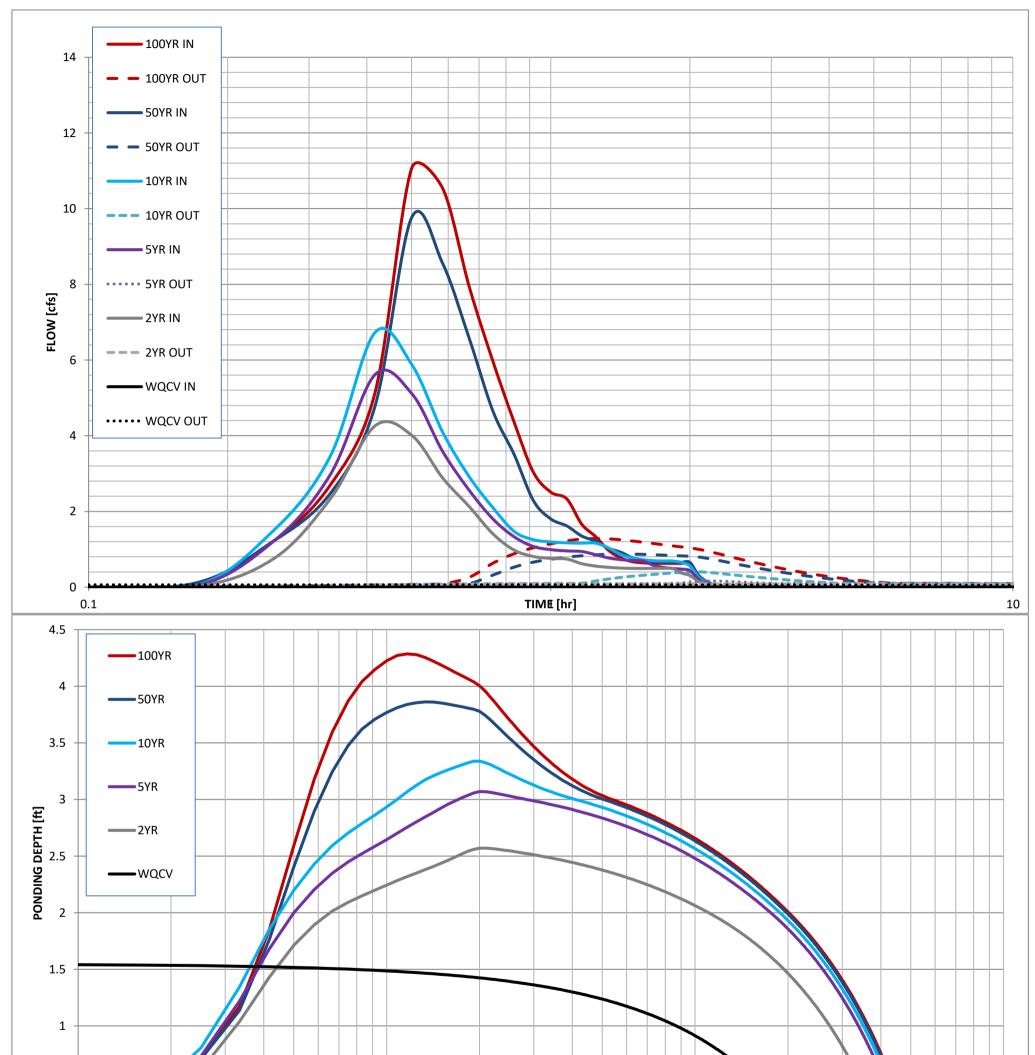
er Input: Watershed Characteristics	500	1	Revise this input to match MHFD-Detention	User Defined	User Defined	User Defined	User Define
Extended Detention Basin (EDB)		4	spreadsheet in FDR. It	Stage [ft]	Area [ft^2]	Stage [ft]	Discharge [cf
Watershed Area =		acres	has this inputted at 3.17ac	0.00	100	0.00	0.01
Watershed Length =		ft	3.1780	1.00	2,753	1.00	0.05
Watershed Length to Centroid =		ft		2.00	4,300	2.00	0.07
Watershed Slope =		ft/ft		3.00	4,644	3.00	0.10
Watershed Imperviousness =		percent		4.00	4,795	4.00	1.00
Percentage Hydrologic Soil Group A =		percent		5.00	4,932	5.00	2.00
Percentage Hydrologic Soil Group B =		percent		6.00	5,100	6.00	4.75
Percentage Hydrologic Soil Groups C/D =	-	percent					
Target WQCV Drain Time =		hours					
Location for 1-hr Rainfall Depths (	use dropdown)	1					
User Input	-						
	rainfall depths hydrographs Hydrograph F Once CUHP h information h interpolate th	s, click 'Run C using the emb Procedure. as been run a as been provi e Stage-Area- mary results	aputs above including 1-hour CUHP' to generate runoff abedded Colorado Urban and the Stage-Area-Discharge vided, click 'Process Data' to a-Volume-Discharge data and in the table below. Once this PDF'.				
er completing and printing this workshee	t to a pdf. go t	0:					
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#### Routed Hydrograph Results

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WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
N/A	1.19	1.50	1.75	2.25	2.52	in
0.073	0.184	0.239	0.284	0.394	0.458	acre-ft
N/A	0.184	0.239	0.284	0.394	0.458	acre-ft
19.3	36.1	41.8	42.5	42.2	41.8	hours
20.3	38.1	44.3	45.3	45.6	45.6	hours
1.55	2.57	3.07	3.34	3.86	4.29	ft
0.08	0.10	0.11	0.11	0.11	0.11	acres
0.073	0.171	0.223	0.253	0.309	0.356	acre-ft
	N/A 0.073 N/A 19.3 20.3 1.55 0.08	N/A 1.19   0.073 0.184   N/A 0.184   19.3 36.1   20.3 38.1   1.55 2.57   0.08 0.10	N/A 1.19 1.50   0.073 0.184 0.239   N/A 0.184 0.239   19.3 36.1 <b>41.8</b> 20.3 38.1 44.3   1.55 2.57 3.07   0.08 0.10 0.11	N/A 1.19 1.50 1.75   0.073 0.184 0.239 0.284   N/A 0.184 0.239 0.284   19.3 36.1 <b>41.8</b> 42.5   20.3 38.1 44.3 45.3   1.55 2.57 3.07 3.34   0.08 0.10 0.11 0.11	N/A 1.19 1.50 1.75 2.25   0.073 0.184 0.239 0.284 0.394   N/A 0.184 0.239 0.284 0.394   19.3 36.1 <b>41.8</b> 42.5 42.2   20.3 38.1 44.3 45.3 45.6   1.55 2.57 3.07 3.34 3.86   0.08 0.10 0.11 0.11 0.11	N/A 1.19 1.50 1.75 2.25 2.52   0.073 0.184 0.239 0.284 0.394 0.458   N/A 0.184 0.239 0.284 0.394 0.458   19.3 36.1 <b>41.8</b> 42.5 42.2 41.8   20.3 38.1 44.3 45.3 45.6 <b>45.6</b> 1.55 2.57 3.07 3.34 3.86 4.29   0.08 0.10 0.11 0.11 0.11 0.11

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5/25/2024, 2:38 PM