

SPI-Design Data v2.00, Released January 2020

Facility Location & Jurisdiction: **1/4 Mi. N of Fontaine Blvd at W Side Marksheffel Rd, El Paso County**

User Input: Watershed Characteristics		
Extended Detention Basin (EDB)		EDB
Watershed Area =	53.88	acres
Watershed Length =	2,200	ft
Watershed Length to Centroid =	1,100	ft
Watershed Slope =	0.035	ft/ft
Watershed Imperviousness =	33.0%	percent
Percentage Hydrologic Soil Group A =	0.0%	percent
Percentage Hydrologic Soil Group B =	100.0%	percent
Percentage Hydrologic Soil Groups C/D =	0.0%	percent
Target WQC Drain Time =	40.0	hours

Location for 1-hr Rainfall Depths (use dropdown):

User Input	
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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'.

[illegible]

Create a new stormwater facility, and attach the PDF of this worksheet to that record.

	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	2.25	2.52	in
CUHP Runoff Volume =	0.721	1.840	2.905	3.878	6.424	7.883	acre-ft
Inflow Hydrograph Volume =	N/A	1.840	2.905	3.878	6.424	7.883	acre-ft
Time to Drain 97% of Inflow Volume =	52.0	57.3	54.4	52.2	45.8	42.3	hours
Time to Drain 99% of Inflow Volume =	56.6	65.3	64.4	63.6	59.9	57.8	hours
Maximum Ponding Depth =	3.37	4.48	5.34	6.09	7.34	7.72	ft
Maximum Poned Area =	0.68	0.80	0.91	0.98	1.09	1.12	acres
Maximum Volume Stored =	0.724	1.543	2.279	2.982	4.269	4.691	acre-ft

Stormwater Detention and Infiltration Design Data Sheet

