

Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected

Worksheet Protected

Stormwater Facility Name: Settlers View Detention Pond S3

Facility Location & Jurisdiction: Settlers View Subdivision, El Paso County

User Input: Watershed Characteristics

Watershed Slope =	0.046	ft/ft
Watershed Length =	1300	ft
Watershed Area =	28.50	acres
Watershed Imperviousness =	11.0%	percent
Percentage Hydrologic Soil Group A =		percent
Percentage Hydrologic Soil Group B =	100.0%	percent
Percentage Hydrologic Soil Groups C/D =		percent

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

WQCV Treatment Method =

User Defined Stage [ft]	User Defined Area [ft^2]	User Defined Stage [ft]	User Defined Discharge [cfs]
0.00	10	0.00	0.00
1.00	4,820	1.00	0.05
3.00	7,192	3.00	0.17
5.00	9,989	5.00	28.63
7.00	13,230	7.00	40.44
9.00	16,000	9.00	298.97

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.

**ACCEPTED for FILE
 Engineering Review**
 03/11/2019 3:16:28 PM
 Elizabeth Nijkamp
 EPC Planning & Community
 Development Department

Routed Hydrograph Results

	WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
Design Storm Return Period =							
One-Hour Rainfall Depth =	0.60	1.19	1.50	1.75	2.25	2.52	in
Calculated Runoff Volume =	0.172	0.206	0.318	0.694	2.433	3.308	acre-ft
OPTIONAL Override Runoff Volume =							acre-ft
Inflow Hydrograph Volume =	0.172	0.205	0.318	0.694	2.432	3.308	acre-ft
Time to Drain 97% of Inflow Volume =	37.9	40.7	48.1	45.3	31.2	26.4	hours
Time to Drain 99% of Inflow Volume =	41.5	44.6	52.8	52.2	44.1	41.2	hours
Maximum Ponding Depth =	1.86	2.10	2.81	3.49	5.50	6.78	ft
Maximum Ponded Area =	0.13	0.14	0.16	0.18	0.25	0.30	acres
Maximum Volume Stored =	0.160	0.192	0.300	0.415	0.844	1.189	acre-ft

PCD File No. SF-18-041

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