Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected Worksheet Protected

Stormwater Facility Name: ACR

Facility Location & Jurisdiction: 2104 JANITELL RD EL PASO COUNTY

User Input: Watershed Characteristics

Watershed Slope =	0.011	ft/ft
Watershed Length =	1000	ft
Watershed Area =	10.89	acres
Watershed Imperviousness =	25.0%	percent
Percentage Hydrologic Soil Group A =	19.9%	percent
Percentage Hydrologic Soil Group B =	80.1%	percent
Percentage Hydrologic Soil Groups C/D =	0.0%	percent

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

WQCV Treatment Method = Extended Detention

User Defined Stage [ft]	User Defined Area [ft^2]	User Defined Stage [ft]	User Defined Discharge [cfs]
0.00	50	0.00	0.00
1.00	192	1.00	0.02
2.00	4,043	2.00	0.04
3.00	11,236	3.00	0.06
4.00	20,665	4.00	9.76
4.50	26,131	4.50	10.15

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

Design Storm Return Period =	WQCV	2 Year	5 Year	10 Year	50 Year	100 Year	
One-Hour Rainfall Depth =	0.53	1.19	1.50	1.75	2.25	2.52	in
Calculated Runoff Volume =	0.122	0.200	0.286	0.444	1.005	1.314	acre-ft
OPTIONAL Override Runoff Volume =							acre-ft
Inflow Hydrograph Volume =	0.122	0.200	0.286	0.444	1.005	1.313	acre-ft
Time to Drain 97% of Inflow Volume =	37.1	53.2	60.1	58.2	52.2	49.2	hours
Time to Drain 99% of Inflow Volume =	38.9	55.4	63.0	62.3	60.0	58.8	hours
Maximum Ponding Depth =	2.47	2.85	3.07	3.25	3.77	4.03	ft
Maximum Ponded Area =	0.17	0.23	0.27	0.31	0.42	0.48	acres
Maximum Volume Stored =	0.114	0.189	0.243	0.298	0.489	0.604	acre-ft

Stormwater Detention and Infiltration Design Data Sheet