## **Stormwater Detention and Infiltration Design Data Sheet**

Workbook Protected

Worksheet Protected

User Defined User Defined User Defined User Defined

Stormwater Facility Name: RocKy Top Resources

Facility Location & Jurisdiction: El Paso County Colorado

## **User Input: Watershed Characteristics**

Watershed Slope =	0.015	ft/ft
Watershed Length =	1350	ft
Watershed Area =	30.45	acres
Watershed Imperviousness =	44.0%	percent
Percentage Hydrologic Soil Group A =	15.0%	percent
Percentage Hydrologic Soil Group B =	85.0%	percent
Percentage Hydrologic Soil Groups C/D =	0.0%	percent

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

Jser Input 🔻

WQCV Treatment Method = Extended Detention

User Defined	User Defined	User Defined	User Defined
Stage [ft]	Area [ft^2]	Stage [ft]	Discharge [cfs]
0.00	0	0.00	0.00
1.00	4,477	1.00	0.05
2.00	20,895	2.00	0.12
3.00	24,510	3.00	0.20
4.00	28,235	4.00	0.25
5.00	32,060	5.00	15.00
6.00	35,987	6.00	35.00
7.00	168,000	7.00	36.00
8.00	188,000	8.00	37.50
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			V

After completing and printing this worksheet to a pdf, go to: <a href="https://maperture.digitaldataservices.com/gvh/?viewer=cswdif">https://maperture.digitaldataservices.com/gvh/?viewer=cswdif</a> create a new stormwater facility, and attach the pdf of this worksheet to that record.

Maximum Volume Stored =

This doesn't match your design.

acre-ft

acre-ft

hours

hours

acres

acre-ft

2.766

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 Calculated Runoff Volume 0.483 1.111 1.524 2.089 3.648 4.499 OPTIONAL Override Runoff Volume = Inflow Hydrograph Volume = 0.482 1.111 1.523 2.088 3.647 4.499 Time to Drain 97% of Inflow Volume = 65.3 99.7 >112 >112 105.6 101.7 Time to Drain 99% of Inflow Volume 70.8 108.2 0.0 >112 >112 0.0 Maximum Ponding Depth 4.02 2.25 3.37 4.42 5.36 5.79 Maximum Ponded Area : 0.50 0.59 0.65 **Q**.68 0.77 0.81

1.076

1.480

**Routed Hydrograph Results** 

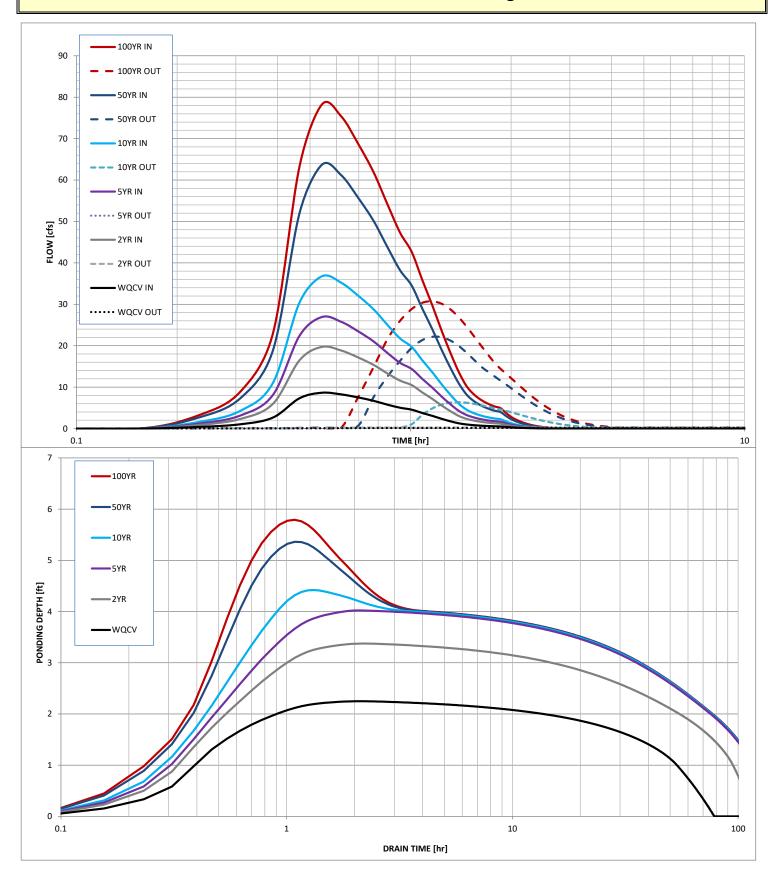
0.461

Be advised this isn't meeting the senate bill

1.744

2.427

## **Stormwater Detention and Infiltration Design Data Sheet**



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