Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected Worksheet Protected

Stormwater Facility Name: POND H

Facility Location & Jurisdiction: WINDINGWALK FILING 1, MSMD, 38°58'N, 104°35'E

User Input: Watershed Characteristics

Watershed Slope =	0.029	ft/ft
Watershed Length =	4540	ft
Watershed Area =	86.00	acres
Watershed Imperviousness =	37.6%	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): 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	0	0.00	0.00
0.50	477	0.50	0.02
1.00	11450	1.00	0.06
1.50	22422	1.50	0.11
1.75	33514	1.75	0.60
2.00	44606	2.00	0.81
2.50	67898	2.50	1.11
3.00	92319	3.00	1.35
3.25	104529	3.25	3.14
3.50	116739	3.50	6.32
4.00	125636	4.00	15.22
4.50	134533	4.50	28.39
5.00	141972	5.00	61.71
5.50	149410	5.50	85.78
6.50	165140	6.50	151.44
7.50	192,114	7.50	385.16

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 =							in
Calculated Runoff Volume =	1.243	0.000	0.000	0.000	0.000	0.000	acre-ft
OPTIONAL Override Runoff Volume =	0.80	2.50	4.50	6.70	13.90	18.00	acre-ft
Inflow Hydrograph Volume =	0.609	2.235	4.080	6.155	12.892	16.601	acre-ft
Time to Drain 97% of Inflow Volume =	54.9	58.4	**56.4**	48.6	34.5	32.7	hours
Time to Drain 99% of Inflow Volume =	59.3	69.3	72.6	69.0	58.0	**52.9**	hours
Maximum Ponding Depth =	1.72	2.69	3.24	3.59	4.57	4.94	ft
Maximum Ponded Area =	0.74	1.77	2.38	2.72	3.11	**3.24**	acres
Maximum Volume Stored =	0.401	1.602	2.730	3.651	6.505	7.662	acre-ft

Stormwater Detention and Infiltration Design Data Sheet