

Stormwater Detention and Infiltration Design Data Sheet

Worksheet Protected

EPC file number EGP 18-001 and SF 17-023

Carriage Meadows North Filing No. 1, El Paso County, CO

User Input: Watershed Characteristics

Watershed Slope =	0.010	ft/ft
Watershed Length =	2000	ft
Watershed Area =	29.84	acres
Watershed Imperviousness =	52.0%	percent
Percentage Hydrologic Soil Group A =		percent
Percentage Hydrologic Soil Group B =		percent
Percentage Hydrologic Soil Groups C/D =	100.0%	percent
Location for 1-hr Rainfall Depths (use dropdown):		
User Input		▼

WQCV Treatment Method = **Extended Detention**

[illegible]

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	1.16	1.44	1.68	2.16	2.42	in
Calculated Runoff Volume =	0.527	1.354	1.961	2.505	4.058	4.896	acre-ft
OPTIONAL Override Runoff Volume =							acre-ft
Inflow Hydrograph Volume =	0.526	1.354	1.961	2.504	4.058	4.895	acre-ft
Time to Drain 97% of Inflow Volume =	31.8	37.5	37.5	36.1	32.3	30.4	hours
Time to Drain 99% of Inflow Volume =	33.2	40.7	41.9	41.5	40.2	39.4	hours
Maximum Ponding Depth =	2.41	3.63	4.28	4.67	5.55	5.97	ft
Maximum Poned Area =	0.51	0.60	0.65	0.68	0.75	0.77	acres
Maximum Volume Stored =	0.454	1.135	1.541	1.795	2.428	2.744	acre-ft

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