

Stormwater Detention and Infiltration Design Data Sheet

Worksheet Protected

Stormwater Facility Name: MIDTOWN AT HANNAH RIDGE POND 1

Facility Location & Jurisdiction: EL PASO COUNTY COLORADO

User (Input) Watershed Characteristics

Watershed Slope =	0.040	ft/ft
Watershed Length-to-Width Ratio =	2.00	L:W
Watershed Area =	7.33	acres
Watershed Imperviousness =	30.6%	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		▼

User Input: Detention Basin Characteristics

WQCV Design Drain Time = 40.00 hours

[illegible]

After completing and printing this worksheet to a pdf, go to:

<https://maperture.digitaldataservices.com/gvh/?viewer=cswdif>,

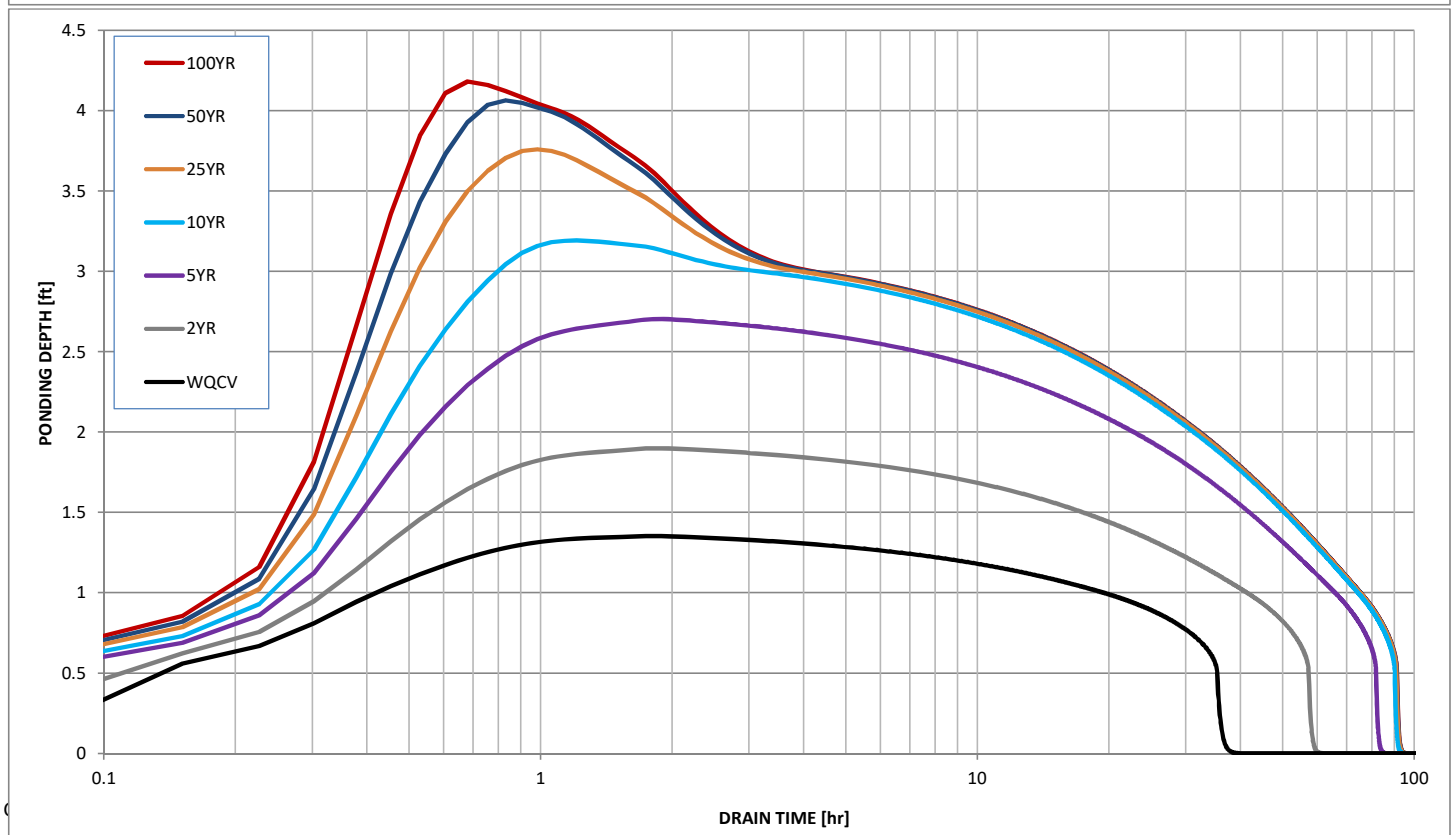
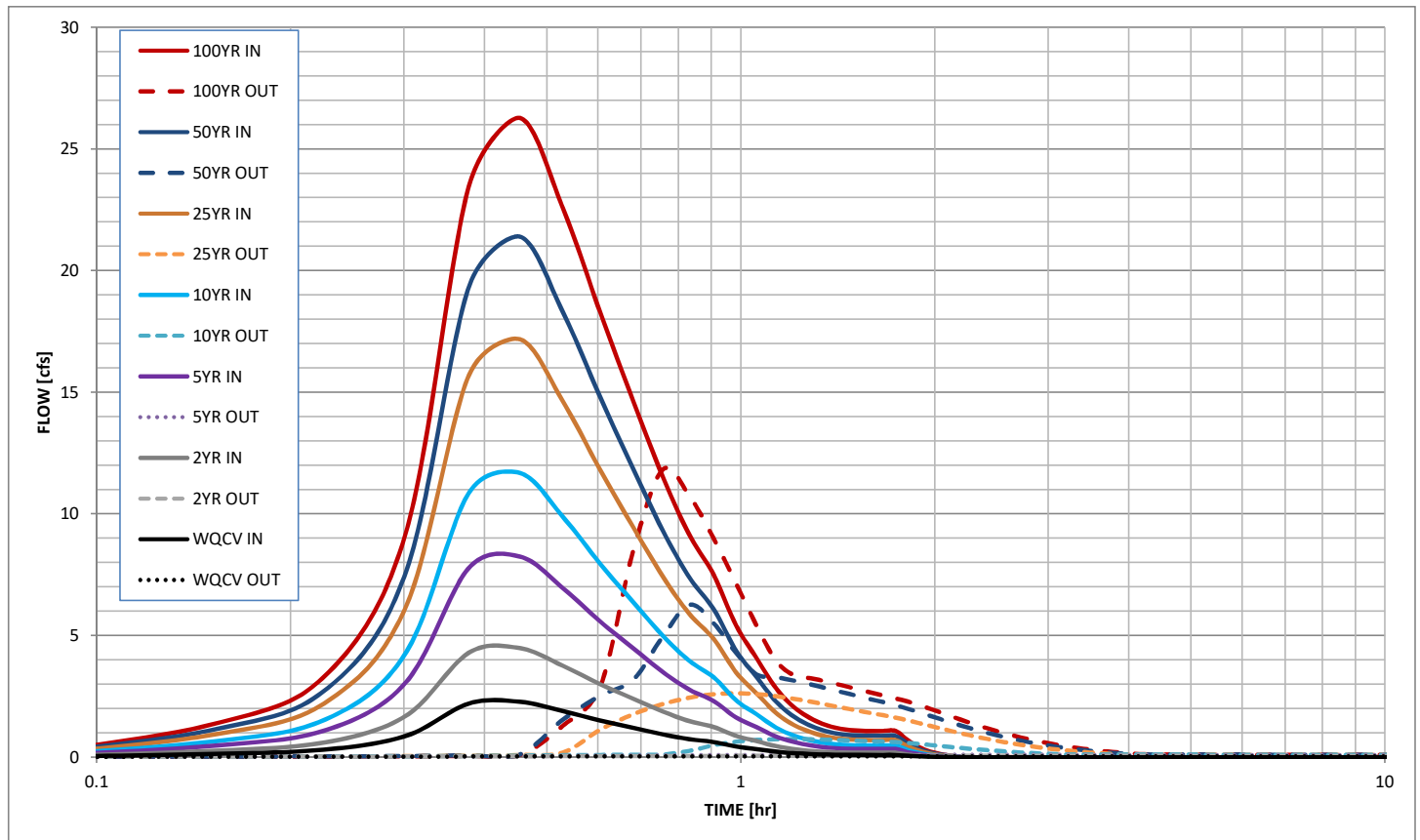
create a new stormwater facility, and

attach the pdf of this worksheet to that record.

Routed Hydrograph Results

Design Storm Return Period =		WQCV	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year	
One-Hour Rainfall Depth =	0.53	1.19	1.50	1.75	2.00	2.25	2.52		in
Calculated Runoff Volume =	0.093	0.183	0.336	0.476	0.701	0.874	1.074		acre-ft
OPTIONAL Override Runoff Volume =									acre-ft
Inflow Hydrograph Volume =	0.092	0.182	0.336	0.475	0.700	0.873	1.073		acre-ft
Time to Drain 97% of Inflow Volume =	35	55	77	84	81	79	77		hours
Time to Drain 99% of Inflow Volume =	36	57	81	88	88	87	86		hours
Maximum Ponding Depth =	1.35	1.90	2.70	3.19	3.76	4.06	4.18		ft
Maximum Poned Area =	0.151	0.170	0.201	0.220	0.243	0.255	0.260		acres
Maximum Volume Stored =	0.086	0.174	0.323	0.426	0.557	0.632	0.663		acre-ft

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Stormwater Facility Name:

EL PASO COUNTY

User (Input) Watershed Characteristics

Watershed Slope =	0.060	ft/ft
Watershed Length-to-Width Ratio =	2.00	L:W
Watershed Area =	1.47	acres
Watershed Imperviousness =	42.9%	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		▼

User Input: Detention Basin Characteristics

WQCV Design Drain Time = 40.00 hours

[illegible]

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Routed Hydrograph Results

Design Storm Return Period =	WQCV	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year	
One-Hour Rainfall Depth =	0.53	1.19	1.50	1.75	2.00	2.25	2.52	in
Calculated Runoff Volume =	0.023	0.054	0.088	0.117	0.161	0.195	0.235	acre-ft
OPTIONAL Override Runoff Volume =								acre-ft
Inflow Hydrograph Volume =	0.022	0.054	0.088	0.117	0.160	0.195	0.234	acre-ft
Time to Drain 97% of Inflow Volume =	>103	53	54	51	48	46	44	hours
Time to Drain 99% of Inflow Volume =	>103	0	0	66	59	57	55	hours
Maximum Ponding Depth =	1.19	1.78	2.12	2.27	2.48	2.65	2.83	ft
Maximum Poned Area =	0.046	0.058	0.065	0.068	0.073	0.076	0.080	acres
Maximum Volume Stored =	0.021	0.051	0.072	0.082	0.097	0.109	0.124	acre-ft

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