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Worksheet Protected

Stormwater Facility Name: Pond P-2

Facility Location & Jurisdiction: Cloverleaf Sudivision Filing 2 / El Paso County

User Input: Watershed Characteristics							
Watershed Slope =	0.030	ft/ft					
Watershed Length =	1500	ft					
Watershed Area =	30.60	acres					
Watershed Imperviousness =	57.6%	percent					
Percentage Hydrologic Soil Group A =	0.0%	percent					
Percentage Hydrologic Soil Group B =	100.0%	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 User Defined User Defined User Defined Area [ft^2] Discharge [cfs] Stage [ft] Stage [ft] 0.00 27 0.00 0.00 45 0.33 0.33 0.01 0.83 328 0.83 0.03 1.33 1,337 1.33 0.08 1.83 0.12 1.83 3,850 2.33 8,225 2.33 0.16 2.83 14,074 2.83 0.18 3.33 22,376 3.33 0.20 3.83 3.83 33,595 0.50 43,221 4.33 0.60 4.33 4.83 50,079 4.83 0.70 • 5.33 52,861 5.33 36.00 548,080 5.83 5.83 63.30 56,806 6.33 6.33 117.90 6.83 58,870 6.83 120.00 60,967 125.00 7.33 7.33 7.83 63,116 7.83 130.00 8.33 65,275 8.33 135.00

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

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

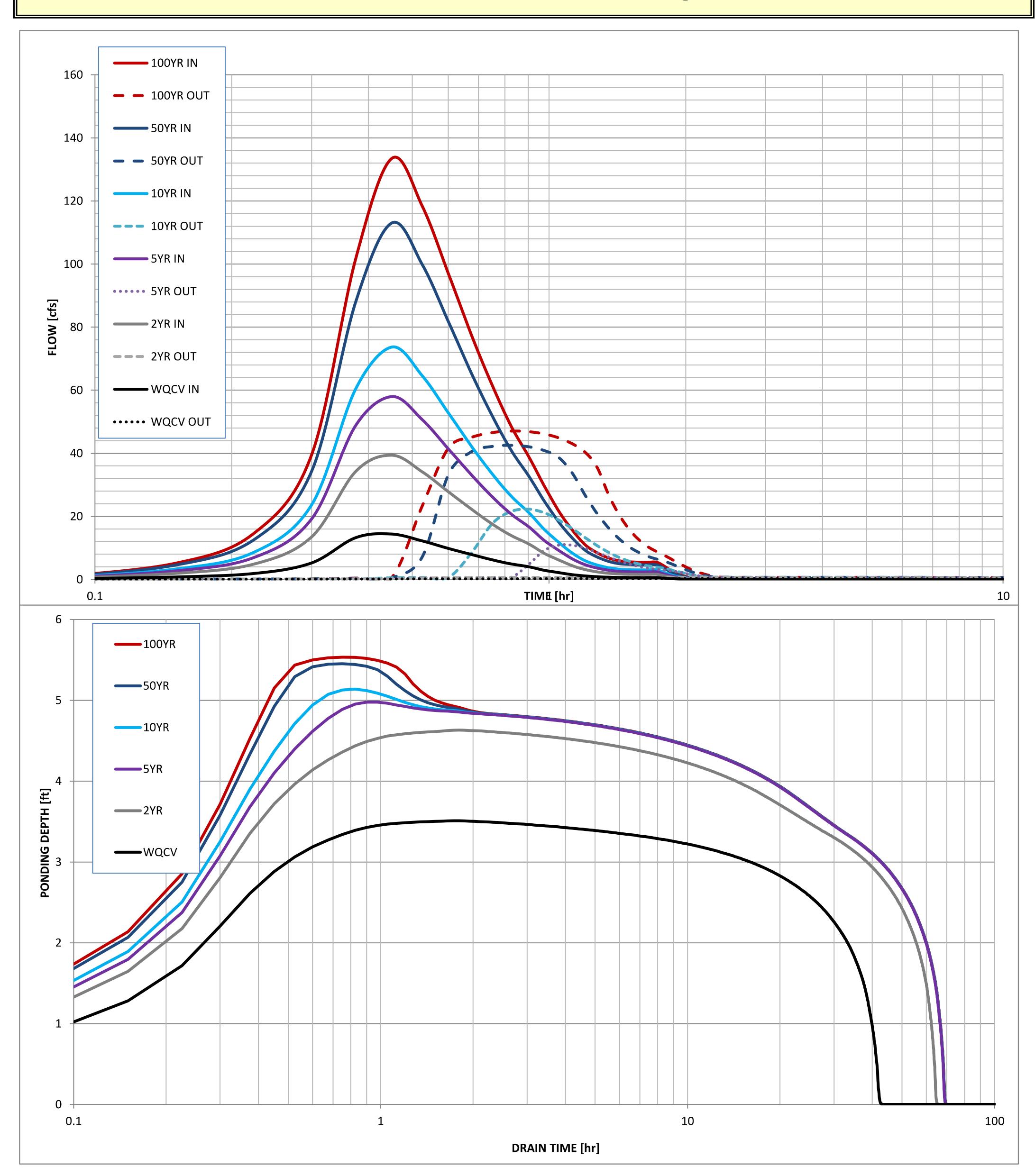
create a new stormwater facility, and

attach the pdf of this worksheet to that record.

Routed Hydrograph Results

_	Routeu Hyuro	grapii kesuits					
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 =	0.582	1.601	2.357	2.985	4.560	5.380	acre-ft
OPTIONAL Override Runoff Volume =							acre-ft
Inflow Hydrograph Volume =	0.582	1.601	2.357	2.984	4.559	5.379	acre-ft
Time to Drain 97% of Inflow Volume =	37.7	56.8	58.9	57.4	53.9	52.1	hours
Time to Drain 99% of Inflow Volume =	39.6	60.3	63.6	62.8	61.3	60.6	hours
Maximum Ponding Depth =	3.51	4.63	4.98	5.14	5.45	5.54	ft
Maximum Ponded Area =	0.60	1.08	1.17	1.19	3.94	5.70	acres
Maximum Volume Stored =	0.543	1.515	1.910	2.094	2.644	3.021	acre-ft

SDI-Pond P-2 FSD.xlsm, Design Data 5/19/2021, 5:06 PM



SDI-Pond P-2 FSD.xlsm, Design Data 5/19/2021, 5:06 PM

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Worksheet Protected

Stormwater Facility Name: Pond P-3 (Basin L)

Facility Location & Jurisdiction: Cloverleaf Sudivision Filing 2 / El Paso County

			Hear Defined	Heav Defined	Hear Defined	Heav Defined
User Input: Watershed Ch			User Defined	User Defined	User Defined	User Defined
Watershed Slope =	0.050	ft/ft	Stage [ft]	Area [ft^2]	Stage [ft]	Discharge [cfs]
Watershed Length =	431	ft	0.00	27	0.00	0.00
Watershed Area =	1.97	acres	0.33	44	0.33	0.10
Watershed Imperviousness =	42.3%	percent	0.83	259	0.83	0.10
Percentage Hydrologic Soil Group A =	0.0%	percent	1.33	1,573	1.33	0.10
Percentage Hydrologic Soil Group B =	100.0%	percent	1.83	3,255	1.83	0.02
Percentage Hydrologic Soil Groups C/D =	0.0%	percent	2.33	4,392	2.33	0.40
Location for 1-hr Rainfall Depths (us	se dropdown):	2.83	5,543	2.83	4.50
User Input			3.33	6,809	3.33	4.80
			3.83	8,127	3.83	5.00
			4.08	8,733	4.08	5.00
WQCV Treatment Method = E	xtended Detenti	on \blacksquare				
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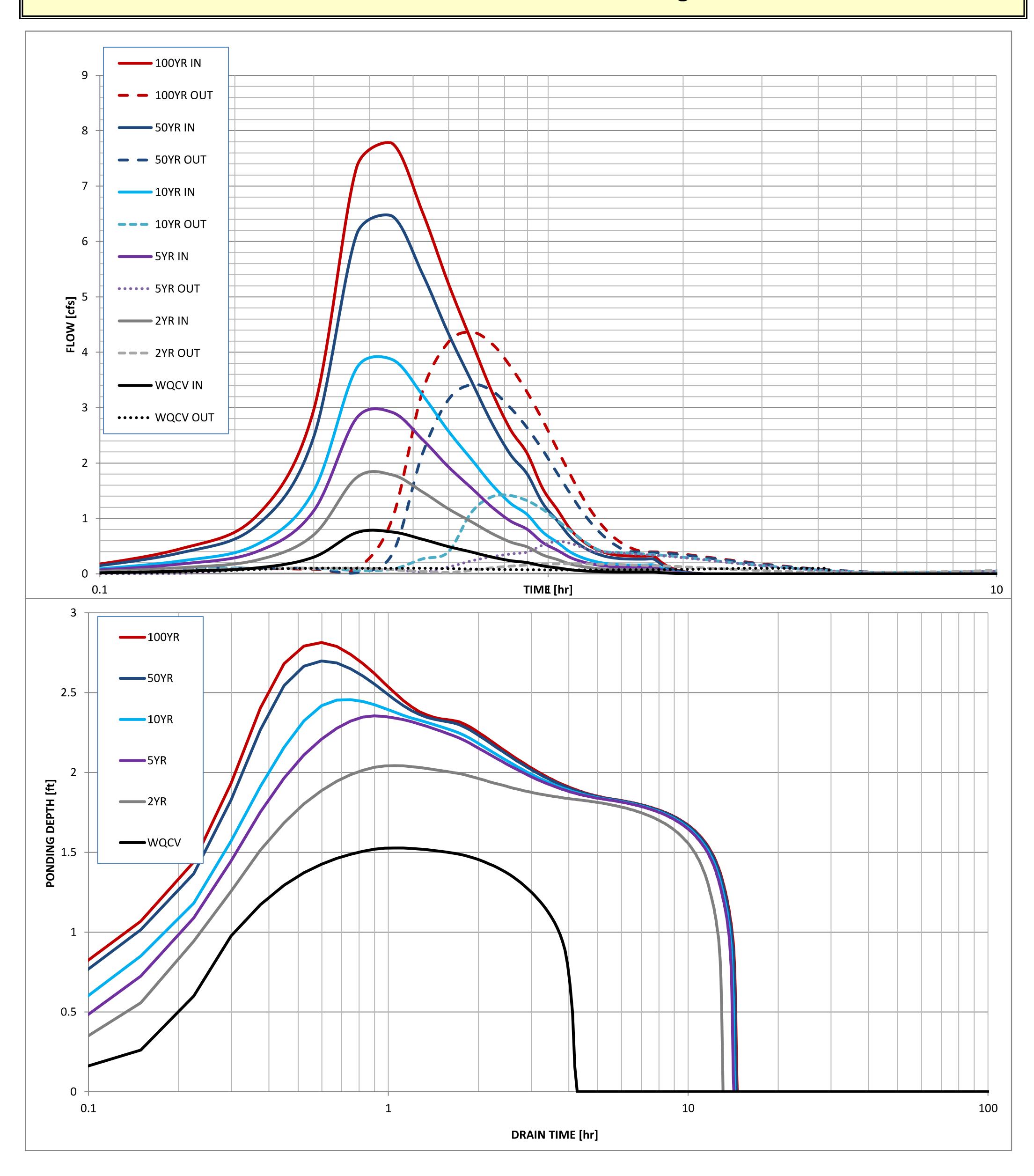
After completing and printing this worksheet to a pdf, go to:

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

create a new stormwater facility, and

attach the pdf of this worksheet to that record.

•	Routed Hydro	graph 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 =	0.031	0.072	0.117	0.156	0.260	0.314	acre-ft
OPTIONAL Override Runoff Volume =							acre-ft
Inflow Hydrograph Volume =	0.030	0.071	0.117	0.155	0.260	0.313	acre-ft
Time to Drain 97% of Inflow Volume =	4.1	12.8	13.8	13.7	13.5	13.4	hours
Time to Drain 99% of Inflow Volume =	4.2	13.0	14.0	14.1	14.1	14.1	hours
Maximum Ponding Depth =	1.53	2.04	2.35	2.46	2.70	2.81	ft
Maximum Ponded Area =	0.05	0.09	0.10	0.11	0.12	0.13	acres
Maximum Volume Stored =	0.021	0.057	0.086	0.097	0.125	0.139	acre-ft



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Stormwater Facility Name: Pond P-2

Facility Location & Jurisdiction: Cloverleaf Sudivision Filing 2 / El Paso County

0.39

0.00

0.000

User Input: Watershed C	haracteristics		User Defined	User Defined	User Defined	User Defined
Watershed Slope =] ft/ft	Stage [ft]	Area [ft^2]	Stage [ft]	Discharge [cfs]
Watershed Length =	3888	ft	0.00	27	0.00	1.00
Watershed Area =	136.00	acres	0.33	45	0.33	15.00
Watershed Imperviousness =	10.0%	percent	0.83	1,365	0.83	30.00
Percentage Hydrologic Soil Group A =	0.0%	percent	1.33	6,766	1.33	40.00
Percentage Hydrologic Soil Group B =	100.0%	percent	1.83	17,125	1.83	42.00
Percentage Hydrologic Soil Groups C/D =	0.0%	percent	2.33	29,022	2.33	45.00
Location for 1-hr Rainfall Depths (u	se dropdown):	.	2.83	41,461	2.83	50.00
User Input	-		3.33	54,510	3.33	55.00
The state of the s			3.83	61,487	3.83	65.00
			4.33	64,849	4.33	75.00
			4.83	67,830	4.83	80.00
WQCV Treatment Method =	Extended Detention	T .	5.33	70,631	5.33	84.80
			5.83	73,866	5.83	110.00
			6.08	75,401	6.08	120.00
			6.33	76,992	6.33	130.00
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T=	Fouted Hydro	graph 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
Calculated Runoff Volume =	0.759	0.913	2.999	5.450	13.127	16.896
OPTIONAL Override Runoff Volume =						
Inflow Hydrograph Volume	0.759	0.912	2.998	5.448	13.122	16.888
Time to Drain 97% of Inflow Volume =	0.5	0.5	0.9	1.4	2.2	2.4
Time to Drain 99% of Inflow Volume =	0.5	0.5	1.0	1.5	2.3	2.4
	1 1004 1	1 1 2/2 1			1	

2.21

0.60

0.376

3.46

1.29

1.571

1.72

5.541

0.50

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Maximum Ponding Depth =

Maximum Ponded Area =

Maximum Volume Stored =

1.77

6.050

WARNING!

acres

acre-ft

