

Stormwater Detention and Infiltration Design Data Sheet

Worksheet Protected

Facility Location & Jurisdiction:	EXISTING DETENTION POND, HISTORIC	10-21-2019
-----------------------------------	-----------------------------------	------------

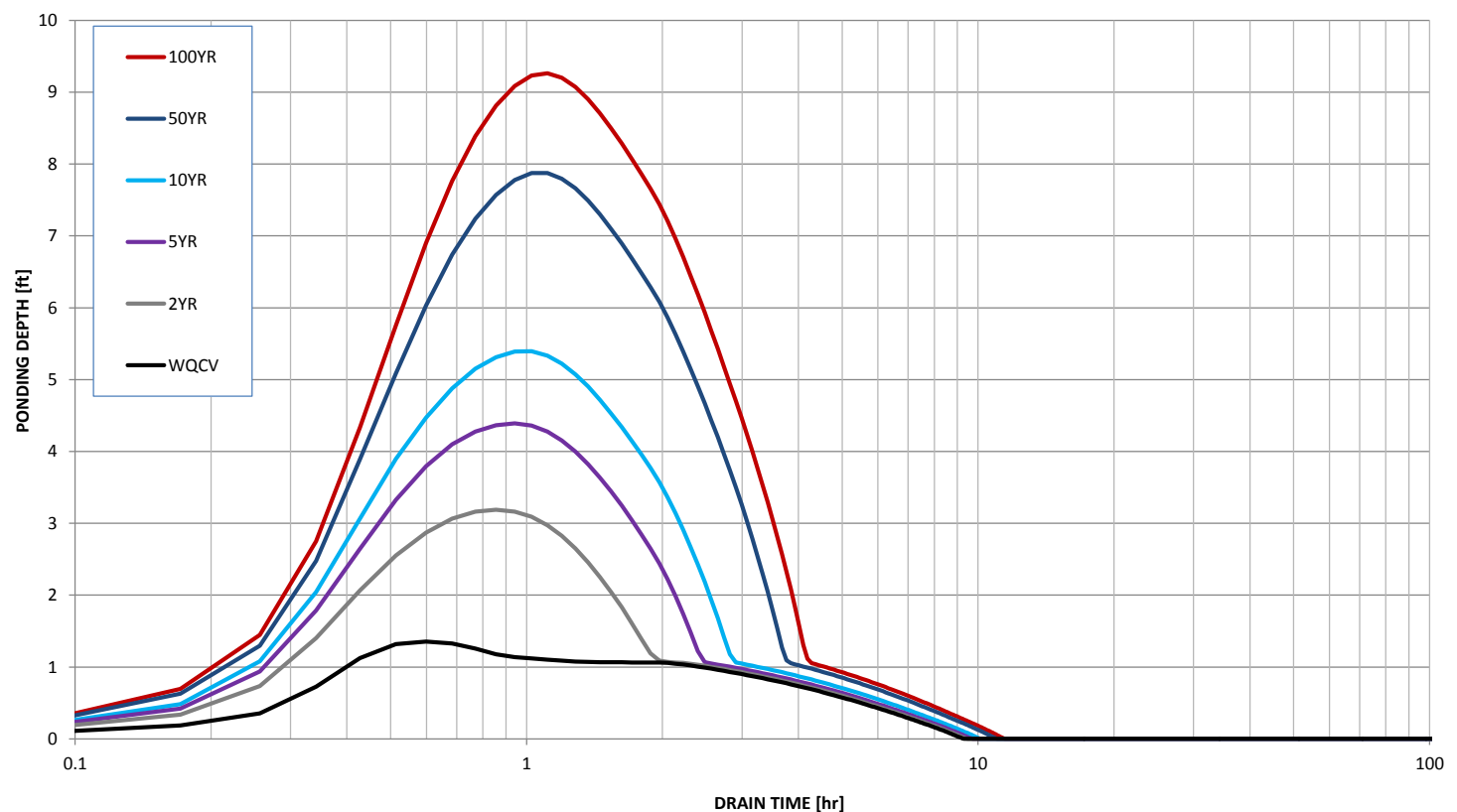
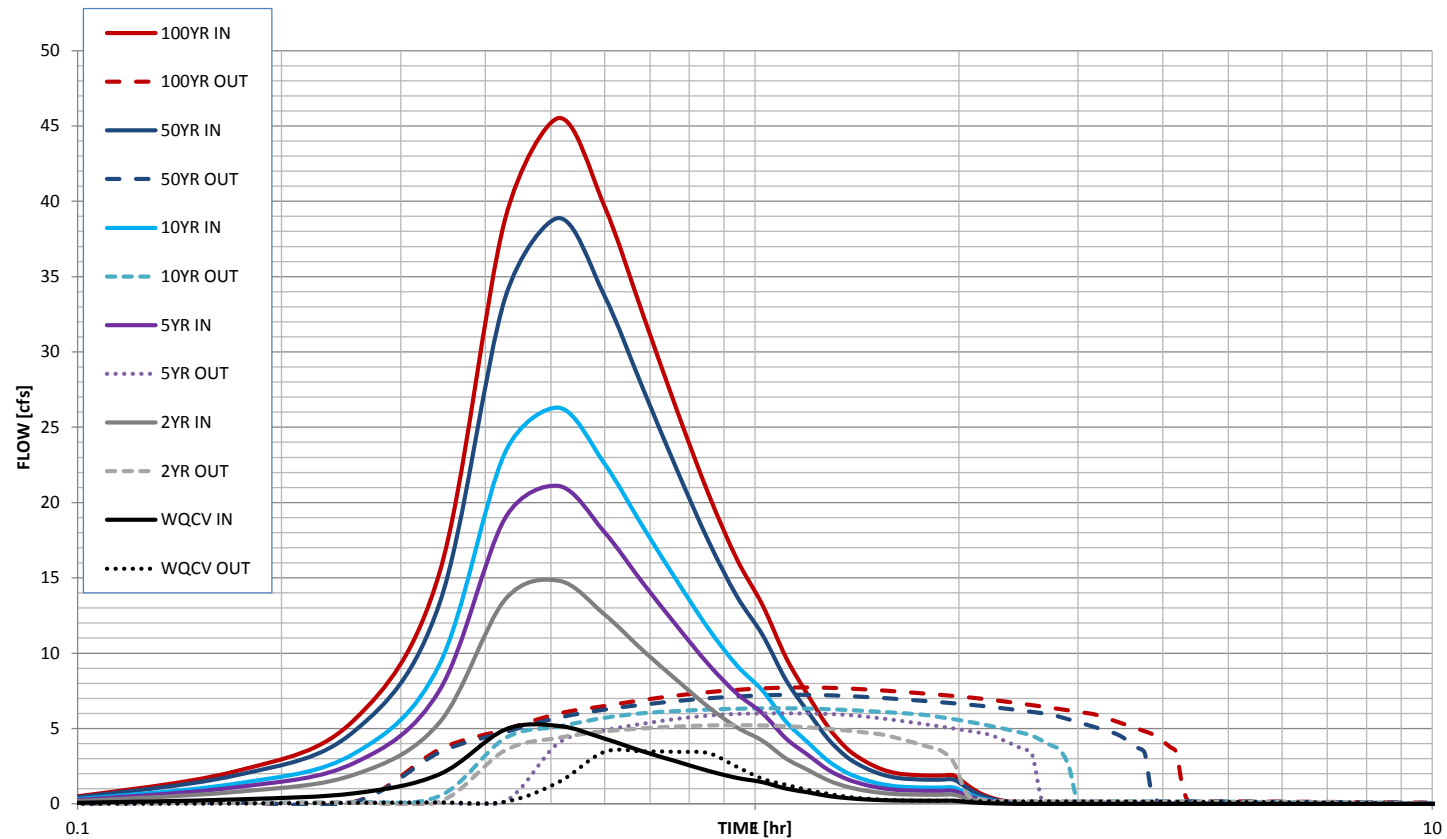
WQCV Treatment Method = Extended Detention

[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.

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 =	0.238	0.684	0.975	1.216	1.802	2.111	acre-ft
OPTIONAL Override Runoff Volume =							acre-ft
Inflow Hydrograph Volume =	0.238	0.683	0.974	1.216	1.802	2.110	acre-ft
Time to Drain 97% of Inflow Volume =	7.4	5.8	5.1	5.0	4.4	4.3	hours
Time to Drain 99% of Inflow Volume =	8.2	7.5	7.4	7.5	7.7	7.8	hours
Maximum Ponding Depth =	1.35	3.19	4.39	5.39	7.88	9.26	WARNING!
Maximum Poned Area =	0.091	0.155	0.181	0.181	0.181	0.181	acres
Maximum Volume Stored =	0.086	0.321	0.495	0.495	0.495	0.495	acre-ft

Stormwater Detention and Infiltration Design Data Sheet



Stormwater Detention and Infiltration Design Data Sheet

Worksheet Protected

Full Spectrum Detention Pond	O.E. Watts	10-23-19
------------------------------	------------	----------

Watershed Slope =	0.024	ft/ft
Watershed Length =	1130	ft
Watershed Area =	11.56	acres
Watershed Imperviousness =	70.0%	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		▼



Update based on comments to the drainage report.

Remove the "Historic SDI worksheet"

[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.

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 =	0.262	0.760	1.056	1.301	1.881	2.188	acre-ft
OPTIONAL Override Runoff Volume =							acre-ft
Inflow Hydrograph Volume =	0.262	0.760	1.055	1.301	1.880	2.187	acre-ft
Time to Drain 97% of Inflow Volume =	41.9	38.4	36.2	34.5	30.3	28.1	hours
Time to Drain 99% of Inflow Volume =	43.1	42.1	41.4	40.8	39.4	38.7	hours
Maximum Ponding Depth =	1.97	2.33	2.48	2.64	2.95	3.14	ft
Maximum Poned Area =	0.114	0.165	0.190	0.223	0.293	0.309	acres
Maximum Volume Stored =	0.185	0.234	0.262	0.294	0.375	0.431	acre-ft

WQCV	2 Year	5 Year	10 Year	50 Year	100 Year
0.53	1.19	1.50	1.75	2.25	2.52
0.262	0.760	1.056	1.301	1.881	2.188
0.262	0.760	1.055	1.301	1.880	2.187
41.9	38.4	36.2	34.5	30.3	28.1
43.1	42.1	41.4	40.8	39.4	38.7
1.97	2.33	2.48	2.64	2.95	3.14
0.114	0.165	0.190	0.223	0.293	0.309
0.185	0.234	0.262	0.294	0.375	0.431

Stormwater Detention and Infiltration Design Data Sheet

