

Stormwater Detention and Infiltration Design Data Sheet

Worksheet Protected

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

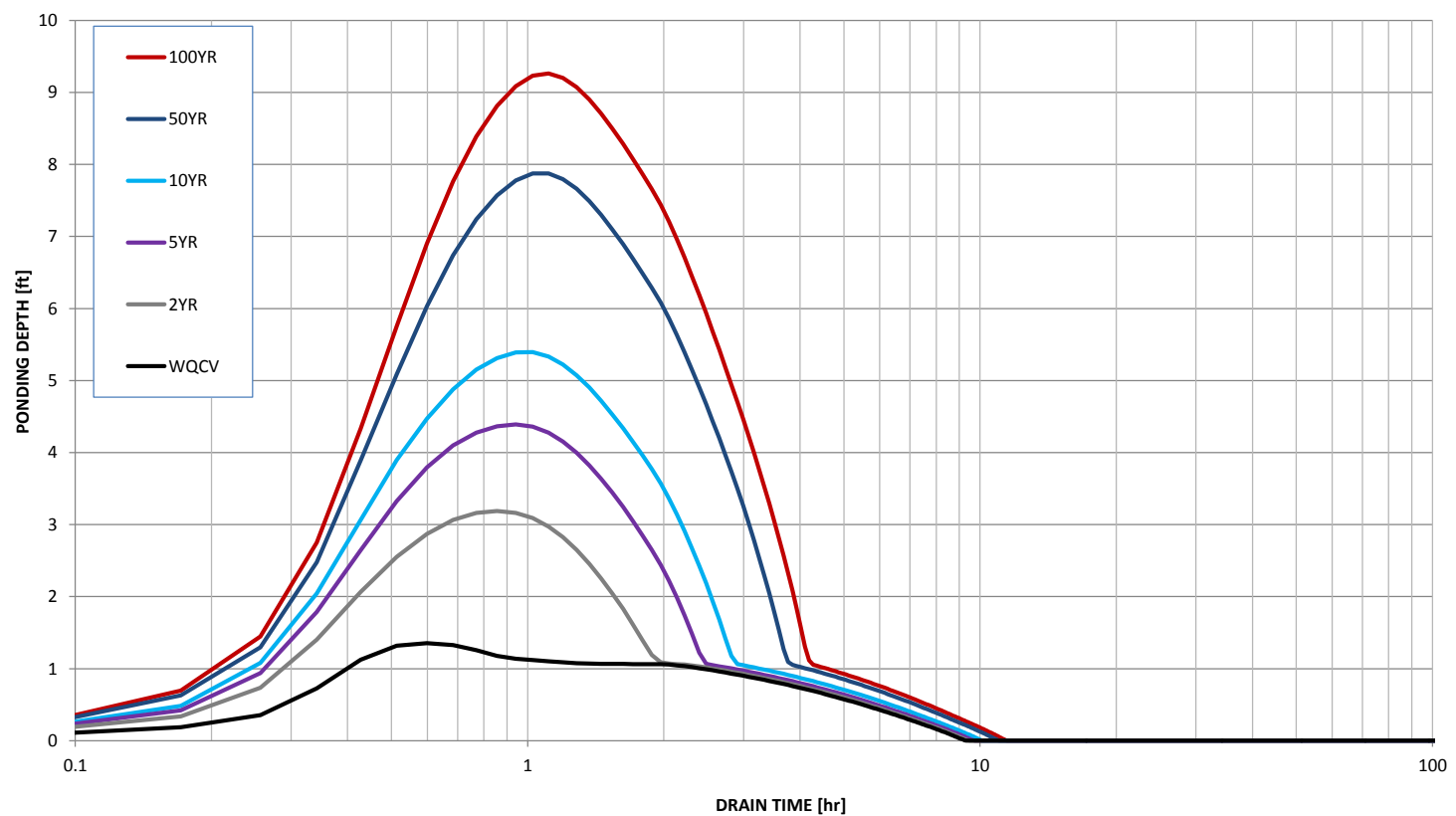
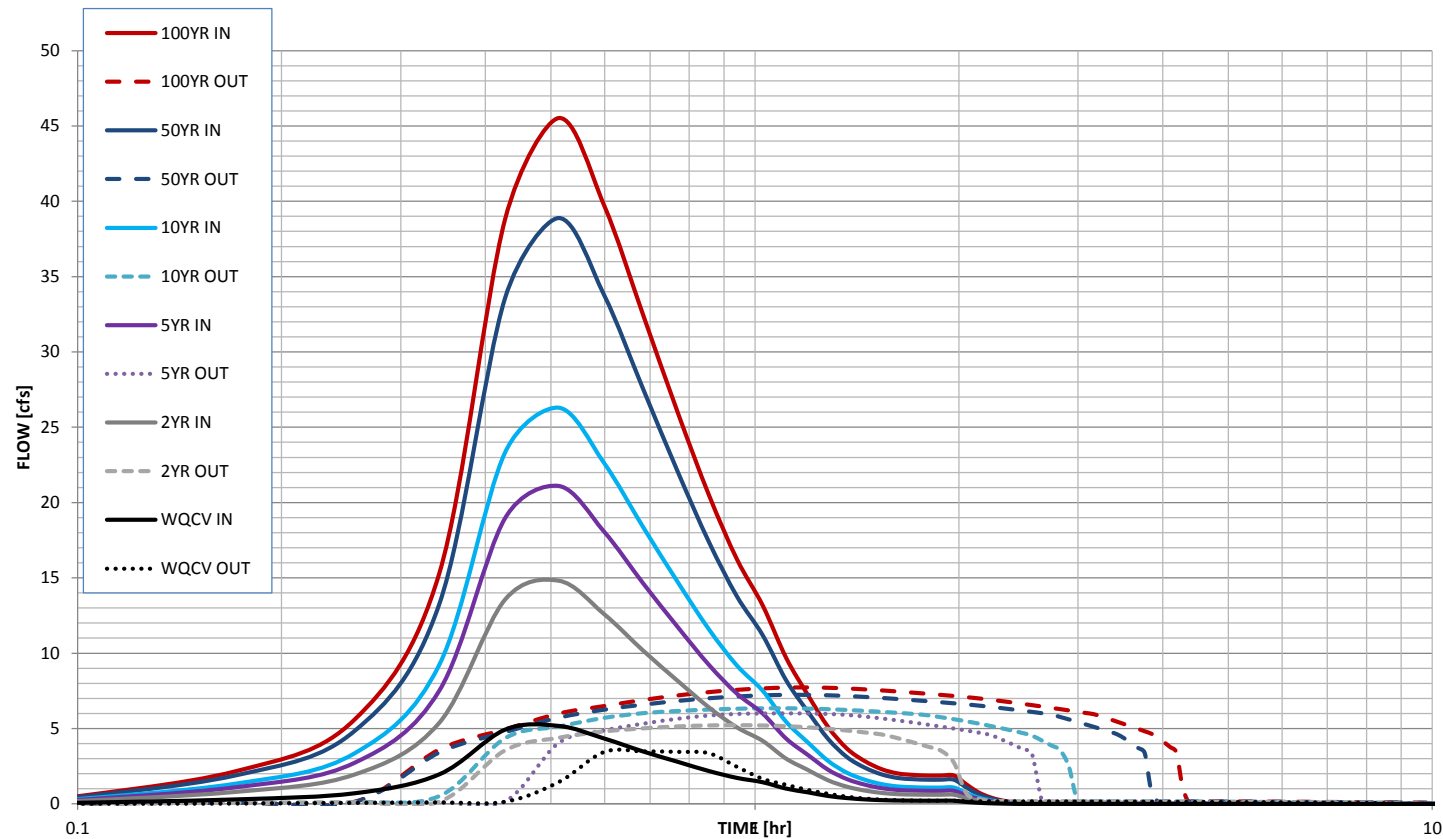
| | | |
|---|--------|---------|
| Watershed Slope = | 0.027 | ft/ft |
| Watershed Length = | 1130 | ft |
| Watershed Area = | 11.55 | acres |
| Watershed Imperviousness = | 64.0% | percent |
| Percentage Hydrologic Soil Group A = | 0.0% | percent |
| Percentage Hydrologic Soil Group B = | 100.0% | percent |
| Percentage Hydrologic Soil Groups C/D = | 0.0% | percent |
| Location for 1-hr Rainfall Depths (use dropdown): | | |
| User Input | | ▼ |

attach the pdf of this worksheet to that record.

[illegible]

| | | | | | | | |
|--------------------------------------|-------|--------|--------|---------|---------|----------|----------|
| 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 |

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| <p align="center">Stormwater Detention and Infiltration Design Data Sheet</p> | |
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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 | | ▼ |

[illegible]

After completing and printing this worksheet to a pdf, go to:
<https://maperture.digitaldataservices.com/gvh/?viewer=cswd>
 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 |

| | | | | | | | |
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| Design Storm Return Period = | WQCV | 2 Year | 5 Year | 10 Year | 50 Year | 100 Year | |
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| Calculated Runoff Volume = | 0.262 | 0.760 | 1.056 | 1.301 | 1.881 | 2.188 | acre-ft |
| OPTIONAL Override Runoff Volume = | | | | | | | acre-ft |
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| 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 |
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