

Swap Stormwater Detention and Infiltration Design Data Sheet

Workbook Protected Worksheet Protected

Stormwater Facility Name: 18910 Base Camp Road

Add (PCD File No. PPR1919)

Facility Location & Jurisdiction: ~~Lot 2 -~~ Monument Steel Structures

User Input: Watershed Characteristics

| | | |
|---|--------|---------|
| Watershed Slope = | 0.034 | ft/ft |
| Watershed Length = | 630 | ft |
| Watershed Area = | 4.71 | acres |
| Watershed Imperviousness = | 64.6% | 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 |
|--------------|--------------|--------------|-----------------|
| Stage [ft] | Area [ft^2] | Stage [ft] | Discharge [cfs] |
| 0.00 | 0 | 0.00 | 0.00 |
| 2.17 | 4,387 | 2.17 | 0.05 |
| 3.65 | 5,466 | 3.65 | 0.09 |
| 4.08 | 5,713 | 4.08 | 0.11 |
| 4.25 | 5,828 | 4.25 | 0.46 |
| 4.44 | 5,957 | 4.44 | 2.51 |
| 4.98 | 6,325 | 4.98 | 2.65 |
| 5.44 | 6,635 | 5.44 | 2.76 |
| 6.08 | 7,065 | 6.08 | 2.92 |
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Include "El Paso County"

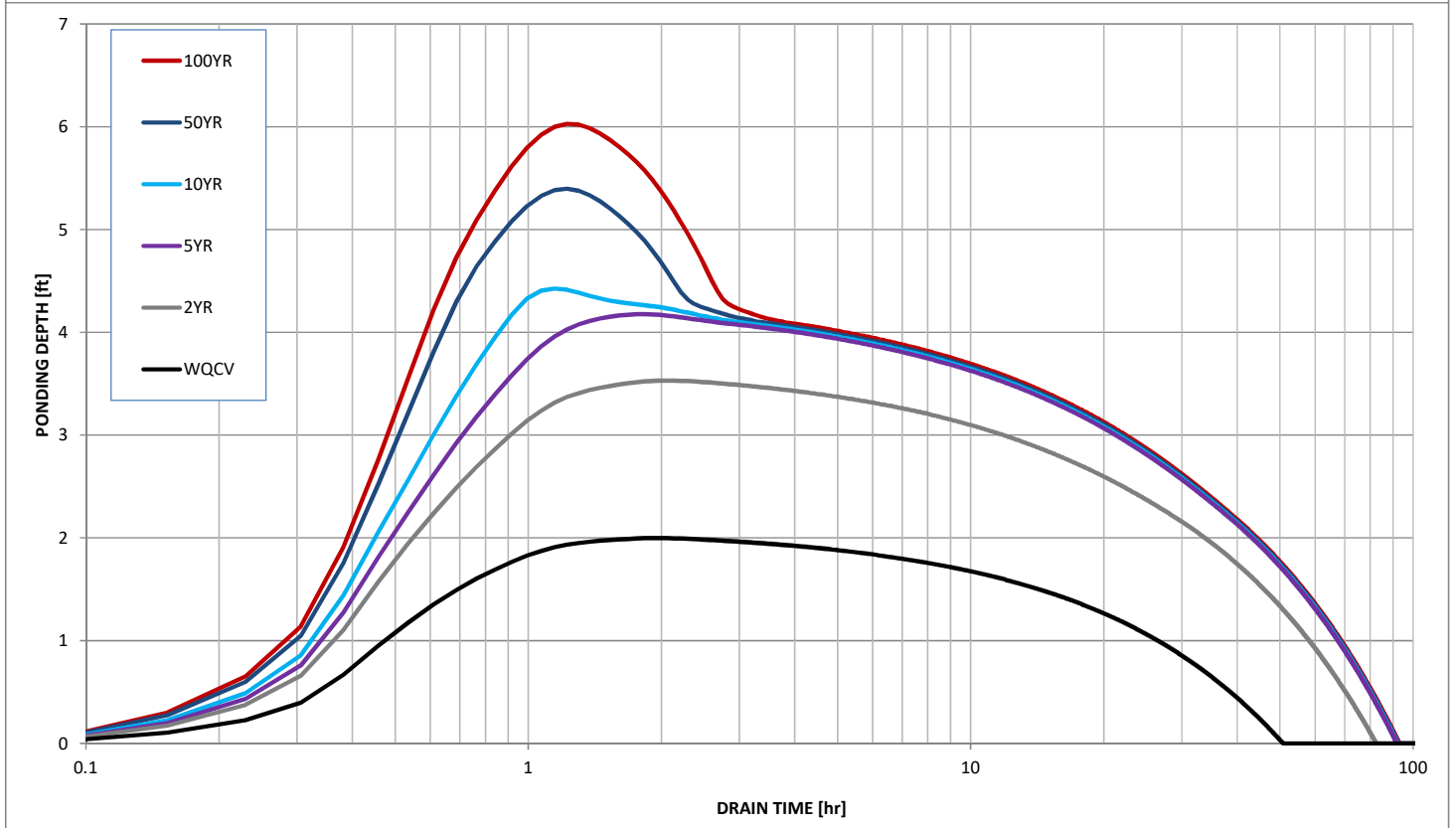
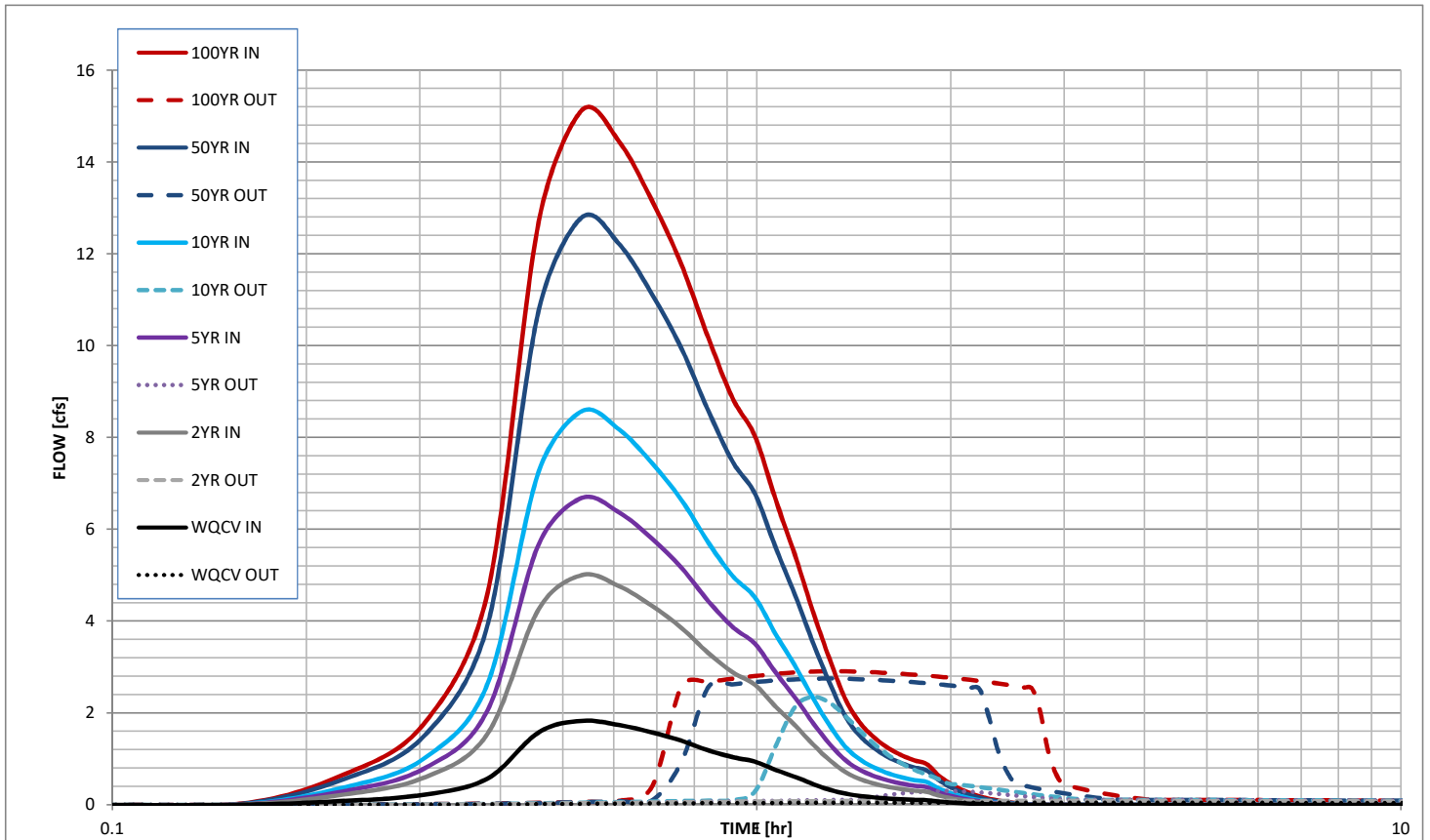
After completing and printing this worksheet to a pdf, go to: <https://maperture.digitaldataservices.com/gvh/?viewer=cswdif>
create a new stormwater facility, and
attach the pdf of this worksheet to that record.

Routed Hydrograph Results

| | WQCV | 2 Year | 5 Year | 10 Year | 50 Year | 100 Year | |
|--------------------------------------|-------|--------|--------|---------|---------|----------|---------|
| Design Storm Return Period = | | | | | | | |
| One-Hour Rainfall Depth = | 0.53 | 1.19 | 1.50 | 1.75 | 2.25 | 2.52 | in |
| Calculated Runoff Volume = | 0.099 | 0.274 | 0.367 | 0.472 | 0.708 | 0.839 | acre-ft |
| OPTIONAL Override Runoff Volume = | | | | | | | acre-ft |
| Inflow Hydrograph Volume = | 0.099 | 0.273 | 0.367 | 0.472 | 0.707 | 0.838 | acre-ft |
| Time to Drain 97% of Inflow Volume = | 42.2 | 68.1 | 75.2 | 73.3 | 69.4 | 67.8 | hours |
| Time to Drain 99% of Inflow Volume = | 45.9 | 74.2 | 82.2 | 81.3 | 79.3 | 78.5 | hours |
| Maximum Ponding Depth = | 2.00 | 3.53 | 4.18 | 4.43 | 5.40 | 6.03 | ft |
| Maximum Poned Area = | 0.09 | 0.12 | 0.13 | 0.14 | 0.15 | 0.16 | acres |
| Maximum Volume Stored = | 0.092 | 0.261 | 0.344 | 0.378 | 0.518 | 0.617 | acre-ft |

This must be within 72 hrs per Senate Bill 15-212

Stormwater Detention and Infiltration Design Data Sheet



SDI_v1-redline.pdf Markup Summary

Add (PCD File No. PPR1919) (1)

ation and Infiltration Design Data Sheet

Road

Steel Structures

| User Defined | User Defined | User Defined | User Defined |
|--------------|--------------|--------------|-----------------|
| Space (ft) | Area (sq-ft) | Space (ft) | Discharge (cfs) |
| 0.00 | 0 | 0.00 | 0.00 |
| 2.17 | 4.387 | 2.17 | 0.05 |
| 3.55 | 5.466 | 3.55 | 0.09 |

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Add (PCD File No. PPR1919)

Include "El Paso County" (1)

Stormwater Facility Name: 18932 Base Camp Road

Facility Location & Jurisdiction: Lot 2 - Monument Steel!

User Input: Watershed Characteristics

| Watershed Slope | Watershed Length | Watershed Area | Watershed Imperviousness | Percentage Highgroup Soil Group A | Percentage Highgroup Soil Group B | Percentage Highgroup Soil Group C | Percentage Highgroup Soil Group D | Percentage Highgroup Soil Group E |
|-----------------|------------------|----------------|--------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| 0.00% | 0.00 | 0.00 | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

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Include "El Paso County"

Swap (1)

Stormwater

Stormwater Facility Name: 18910 B

Facility Location & Jurisdiction: Lot 2 - N

User Input: Watershed Character

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Swap

This must be within 72 hrs per Senate Bill 15-212 (1)

| | | | | |
|-------|-------|-------|-------|----|
| 0.273 | 0.367 | 0.472 | 0.707 | 0. |
| 68.1 | 75.2 | 73.3 | 69.4 | 6 |
| 74.2 | 82.2 | 81.3 | 79.3 | 7 |
| 3.53 | 4.18 | 4.43 | 5.40 | 6 |
| 0.12 | 0.13 | 0.14 | 0.15 | 6 |
| 0.261 | 0.344 | 0.378 | 0.518 | 0. |

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This must be within 72 hrs per Senate Bill 15-212

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Lot 2 - M

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