

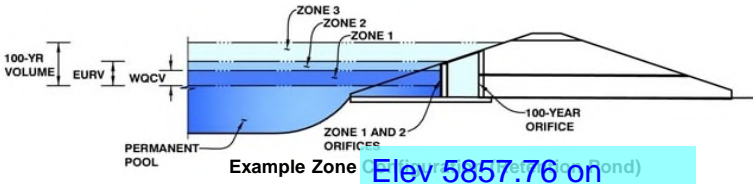
DETENTION BASIN STAGE-STORAGE TABLE BUILDER

MHFD-Detention, Version 4.03 (May 2020)

Project: Clear View Industrial Park, Filing 2A

Basin ID:

This is not the SDI Worksheet. This worksheet needs to be included in the drainage report (to include the outlet structure design)



Elev 5857.76 on plans.

Main stage-storage table with columns: Stage - Storage Description, Stage (ft), Optional Override Stage (ft), Length (ft), Width (ft), Volume (ft³), and Time (min). Rows include Top of Micropool, ISV, Floor, Zone 1 (WQCV), Zone 2 (EURV), and Zone 3 (100-year).

Revise and use the override stage/area column to input the actual pond volume. Include the corresponding elevation in the first column. Spot check: Area for 100yr WSE 5860 does not match the construction plans (7,153 sf)

Watershed Information

Watershed information table including Selected BMP Type (EDB), Watershed Area (2.77 acres), Watershed Length (500 ft), Watershed Slope (0.010 ft/ft), Watershed Imperviousness (60.00%), and Target WQCV Drain Time (40.0 hours).

Spot check from Construction Plans: MP=5857.76, 100yr WSE= 5860.1, Difference=2.34

Update both the construction plans and MHFD-Detention worksheet so data corresponds with each other.

Optional User Overrides table with columns for Runoff Volume (WQCV, EURV) and Detention Volume (2-yr, 5-yr, 10-yr, 25-yr, 50-yr, 100-yr) in acre-feet and inches.

Define Zones and Basin Geometry

Basin geometry table including Zone 1 Volume (0.055 acre-feet), Zone 2 Volume (0.126 acre-feet), Total Detention Basin Volume (0.297 acre-feet), Initial Surcharge Volume (7 ft³), and Basin Length-to-Width Ratio (5).

Basin geometry table including Initial Surcharge Area (14 ft²), Surcharge Volume Length (3.7 ft), Depth of Basin Floor (0.62 ft), Length of Basin Floor (129.6 ft), Area of Basin Floor (3,699 ft²), and Calculated Total Basin Volume (0.300 acre-feet).

DETENTION BASIN STAGE-STORAGE TABLE BUILDER

MHFD-Detention, Version 4.03 (May 2020)

