

**WMO SCHEDULE D
WATERSHED MANAGEMENT FACILITIES**

Name of Project: _____

(Submit additional Schedule D for each stormwater facility, as needed)

A. DEVELOPMENT INFORMATION

- 1) Total parcel area: _____ acres
- 2) Total development area on the parcel: _____ acres

B. SITE RUNOFF REQUIREMENTS

- 1) On-site development area tributary to overland conveyance system: _____ acres
- 2) Upstream off-site tributary drainage area: _____ acres
- 3) Total tributary drainage area to conveyance system (B.1 + B.2): _____ acres
 - A. Ratio of upstream tributary area to on-site development area: _____
 - B. Composite CN for total tributary area: _____
 - C. Time of concentration for total tributary area: _____ minutes
- 4) Design 100-year peak flowrate for total tributary area: cfs
- 5) Overland conveyance capacity (actual flowrate provided): cfs
- 6) Describe overland conveyance system type/location: _____

(including pond overflow weir)

Weir length: _____ ft Weir crest HGL elevation: _____ ft (NAVD88)
 Weir elev: _____ ft (NAVD88) Lowest building entry elev: _____ ft (NAVD88)
 Other (describe): _____

C. SITE VOLUME CONTROL (VC) REQUIREMENTS

- 1) Existing impervious area of development: _____ acres
 - 2) Proposed impervious area of development: _____ acres
 - 3) Gross VC storage required (0.083 x Line C.2): _____ ac-ft
 - 4) Site constraints preclude the use of retention-based practices in full? Yes No
- If yes, provide a brief rationale: _____
- _____

In lieu of complete volume control, compliance provided via: _____

A. VC reduced impervious area allowance (25%)(C.3)(C.1 - C.2)/(C.1 x 5%): _____ ac-ft

B. Area treated by a flow through practice: _____ acres

- 5) Net VC required (C.3 - C.4.A): ac-ft
 - 6) VC storage provided (must be greater than line C.5) : ac-ft
 - 7) VC description and location: _____
- _____

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D. SITE DETENTION REQUIREMENTS

- 1) Type of stormwater detention facility: _____
- 2) Total Unrestricted Area: _____ acres
 - A. Native Plantings: _____ acres
 - B. On-site trade-off ($C_{unrestricted} \times A_{unrestricted} / C_{trade-off}$): _____ acres
 - C. Net Development Area (*Submit calculations*): _____ acres
- 3) Release Rate
 - A. Allowable release rate ($0.30 \times D.2.C$): _____ cfs
 - B. Release rate deduction (*Submit calculations*)
 1. Unrestricted release rate deduction (*100-year, 24-hour storm*): _____ cfs
 2. Depressional storage deduction: _____ cfs
 - C. MWRD required release rate ($D.3.A - D.3.B.1 - D.3.B.2$): _____ cfs
- 4) Detention Volume
(*Submit calculations for items D.4.A through D.4.G*)
 - A. Methodology: Nomograph Hydrologic model _____
 - B. Composite CN for the development: _____
 - C. Adjusted CN for the development, based on volume control: _____
 - D. Time of concentration for the development: _____ minutes
 - E. Required detention volume at MWRD required release rate: ac-ft
 - F. Actual detention volume provided at MWRD required release rate: ac-ft
 - G. Detention restrictor/outlet conveyance structure (*provide details and calculations*)
 1. Release rate at MWRD required volume (*must be \leq MWRD required release rate*):
 cfs at HWL _____ feet (NAVD88)
 2. Type: _____
 3. Discharge coefficient: _____
 4. Diameter: _____ inches
 5. Orifice invert elevation _____ feet (NAVD 88)
 6. Drawdown time: _____ hours

Name _____ Title _____
 Signature _____ Date _____
 Engineering Firm _____

