



STORMWATER MANAGEMENT FACILITY **POST CONSTRUCTION VERIFICATION DOCUMENT** **SUBMITTAL CHECKLIST**

1.0 Infiltration Pond

Submittal Requirements

- Post Construction Verification Document survey plan in accordance with the items of this Checklist
- Supporting calculations in accordance with the items of this Checklist
- A copy of the completed Post Construction Verification Document Submittal Checklist
- Stormwater Management Facility Construction Checklist completed during construction of the facility
- Geotechnical engineer's report, if applicable

Post Construction Verification Document Plan Requirements

All Plans:

- Plans must be submitted on minimum 24" x 36" sheets
- Provide a location map on the plan
- Provide a north arrow on the plan

The title block must include:

- Project name indicating "Post Construction Verification Document" in the plan title
- Name, address, telephone and fax numbers of the individual preparing the plan
- Scale of plan (maximum plan scale accepted will be 1"=50')
- Date of the survey
- Hundred, County, and State
- Street address of the project site
- Signature and seal of Delaware Registered Professional Engineer or Professional Land Surveyor

Delineate and properly label the following (as applicable):

- Roads adjoining the stormwater management facility
- Property lines adjacent to the stormwater management facility
- Easements (i.e. drainage, utility, access, etc.) adjacent to the stormwater management facility



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Provide the following as it relates to the Infiltration facility's surface area and available storage:

- Post construction verification contours of the infiltration facility, including any forebays, at 1-foot intervals
- A minimum of two cross sections showing elevations, inside slopes, top width and backslope, as applicable (to scale). Cross sections should be taken through inlet and outlet structures/spillway as applicable.
- Lowest top of bank elevation ****The constructed top of bank elevation may be no lower than the design elevation for top of bank.*
- Calculations of the infiltration surface area. ****The constructed area of the infiltration surface shall be no less than 90% of the design surface area.*
- Calculations of the volume as constructed with incremental storage and cumulative storage volumes in cubic feet for each one-foot elevation contour. ****The constructed volume of the infiltration surface shall be no less than 90% of the design volume.*

Provide the following information related to the inlet and outlet structures within the infiltration facility. ****The constructed elevation of any structure shall be within 0.15 foot of the design:*

- Diameter and material of all inlet pipes (and outlet pipes as applicable)
- Invert elevations of all inlet pipes (and outlet pipes as applicable)
- Dimensions (length, width, depth, d50) for all areas of rock outlet protection
- Dimensions and material of overflow structures
- Profile through principal spillway showing inverts and dimensions of all pipes, weirs, risers and other appurtenances, as applicable (to scale)
- Cross-section of emergency spillway (to scale)
- Profile through emergency spillway (to scale)

Provide the following information related to the infiltration rate available in facility.

- Provide Confirmatory Infiltration Testing per *BMP Standards and Specifications, Appendix A – Soil Investigation Procedures* ****Rate shall be no less than 150% of design rate*
- Provide Hand Auger Testing to verify separation of facility's bottom from groundwater per *BMP Standards and Specifications, Appendix A – Soil Investigations Procedures* ****Depth to limiting layer shall be no less than 2' from facility bottom*

****When the allowable tolerances are exceeded for constructed wetland facility surface area or volume or structure elevations, supplemental calculations must be submitted to determine if the facility, as constructed, meets the design requirements. Submit the following:*

- Calculations of outflow from the infiltration facility for all design storms. Routing computations must be based on the constructed volumes and elevations for the facility.
- Calculations demonstrating that the design requirements have been met in the constructed condition.