



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

Bioretention

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

- Post construction verification contours of the bioretention 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 as applicable.
- Lowest top of bank elevation ****The acceptable top of bank elevation may be no lower than the design elevation for top of bank.*
- Calculations of the surface area of the bioretention soil surface. ****The allowable variance from the design surface area of the bioretention surface is ten percent less than the design surface area.*
- Calculations of the volume of the bioretention facility as constructed with incremental storage and cumulative storage volumes in cubic feet for each one-foot elevation contour. ****The allowable variance from the design volume of the bioretention surface storage is ten percent less than the design volume.*

Provide the following information related to the inlet and outlet structures within the bioretention facility. ****The allowable variance for elevations on any structure is 0.1 ft:*

- Diameter and material of all inlet and outlet pipes
- Invert elevations of all inlet and outlet pipes
- 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, orifices, risers and other appurtenances, as applicable (to scale)
- Cross-section of emergency spillway (to scale)
- Profile through emergency spillway (to scale)

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

- Calculations of outflow from the bioretention 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.