



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

## **Ponds**

Provide the following as it relates to the stormwater management pond's storage volume:

- Surveyed contours of the constructed stormwater management pond including forebays, micropools, and elevations below permanent pool at 1- or 2-foot intervals based on the datum of the approved plan. (One-foot contours will generally be expected for projects located in Kent and Sussex Counties. For sites with greater elevation differences (+20' across the site) such as is often found in New Castle County, 2-foot contours will be accepted.)
- Pond bottom elevations on a fifty-foot grid with high and low points noted
- Lowest top of bank elevation at fill for embankment/combination pond or lowest top of bank elevation for excavated pond. *\*\*\*The acceptable top of bank elevation may be no lower than the design elevation for top of bank.*
- Actual cross section showing elevations, inside slopes, benching, top width and backslope, as applicable (to scale).
- Elevation of permanent pool, if applicable.
- Calculations of the volume of the pond 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 basin is ten percent.*

Provide the following information related to the inlet and outlet structures within the stormwater facility. *\*\*\*The allowable variance for invert 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 outfall 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 either stormwater management pond volume or outlet structure invert elevations, supplemental calculations must be submitted to determine if the stormwater management pond, as constructed, meets the design requirements. Submit the following:*

- Calculations of outflow from the stormwater management pond for all design storms. Routing computations must be based on the post construction verification survey volumes and elevations for the facility.