

**Cecil County Development Services Division
As-Built Stormwater Management
Plans Review Checklist**

Project Name: _____

Tax Map: _____ Parcel: _____ Lot: _____ Plat: _____ ADC Map & Grid _____

Owner's Name: _____

Address: _____

Engineer/Surveyor: _____

For additional contact: _____

Name: _____

Any major change or deviation from the original plan must be redesigned and revised plans submitted to the Cecil County Department of Public Works, Development Services Division, prior to the performance of the work.

LEGEND FOR REVIEW CHECKLIST:

<u>✓</u>	Accepted	<u>X</u>	Not Accepted	<u>Inc.</u>	Incomplete
<u>NA</u>	Not Applicable	<u>R</u>	Required, not submitted	<u>NC</u>	Not Checked

SUBMITTALS/METHODS

A. Submittals (1st Review):

- ___ 1. Two (2) Folded Redlined Stormwater Management plan copy sets.
- ___ 2. Two (2) Sealed Geotech Reports, and Two (2) Compaction Reports.
- ___ 3. Two (2) Sealed copies of Stormwater Management Computations. (If computations changed due to construction.)

B. Submittals (Final Approval):

- ___ 1. One (1) Rolled Redlined Mylar set signed and sealed by both Professional Engineer in charge and Professional Geotechnical Engineer.
- ___ 2. Two (2) folded Redlined Stormwater Management plan copy sets.
- ___ 3. One (1) CD of Scanned Redlined Stormwater Management Plans. PDF format with a minimum of three NAD 83m x, y

C. Method:

- ___ 1. The minimum information shall be shown in Red on the print copy and final mylar with "As-Built" in the lower right corner or each sheet.

- ___2. A check mark (✓) may be made beside planned values if they were actually constructed values. For changed values, line out the planned value and enter the actual value.
- ___3. Elevations to the nearest 0.1' are sufficient.
- ___4. There must be the proper relation between the elevations of the principal spillway crest, the emergency/token spillway crest, and the top of the dam. All of these elevations should meet SCS-MD378 criteria.

D. Minimum Information Required:

- ___1. A signed certification statement and seal by a Professional Engineer
- ___2. A signed certification statement and seal by a Geotechnical
- ___3. Plan View:
 - ___a. Show the length, width, and depth, or contours of the pool area in red so that As-Built volume can be verified.
 - ___b. Trees, shrubs, other woody vegetation- show in green, not allowed within 15 feet of any portion of the embankment.
 - ___c. A minimum of three (3) NAD 83m x, y coordinates
- ___4. Profile along Centerline of Dam
 - ___a. Profile of the top of Dam – elevation at stations (the top of fill elevation plus the allowance for settlement)
 - ___b. Approximate original ground line
 - ___c. Top of impervious core embankment (10 Year DHW minimum, Unified Soil Classification GC, SC, CH, or CL). Compaction meets SCS-MD378 specifications.
 - ___d. Approximate bottom of cut off trench (4 feet minimum or deeper if required, Unified Soil Classifications GC, SC, CH, or CL). Compaction meets SCS-MD378 Specifications
 - ___e. Principal Spillway location (station and elevation)
 - ___f. Emergency or token spillway – location, bottom, width and side slopes (in undisturbed earth only)
- ___5. Profile – Principal Spillway
 - ___a. Top of dam width and side slopes – must be equal to or flatter than design
 - ___b. Emergency or token spillway crest elevation
 - ___c. Top of impervious core embankment (10 year DHW minimum)
 - ___d. Cut-off trench bottom width, slopes, depth
 - ___e. High Water Elevations (As-Built) WQv, CPv, 2,10, and Ultimate 100 year storms
 - ___f. Riser (Reinforced concrete or metal) – Size, type, riser crest elevation, corrugation size, gauge
 - ___g. Low flow stage orifice – size, material, invert elevation
 - ___h. Low flow stage trash rack – size, material, dimensions
 - ___i. Low flow stage drain pipe – size, type, length, invert elevation, corrugation size, gauge
 - ___j. Barrel (Reinforced concrete or metal) – size, corrugation size, gauge, invert elevations, length, concrete pipe classification.
 - ___k. Concrete bedding
 - ___l. Phreatic Line (from 10 year DHW minimum)
 - ___m. Sand Diaphragm or Anti-seep Collars – size, spacing, material
 - ___n. Outfall – type, material size, dimensions, filter cloth.
- ___6. Profile – Emergency or Token Spillway
 - ___a. Twenty – five (25) feet minimum level section and elevation

- ___b. Slope protection – type, material size, dimensions, filter cloth
 - ___c. Slope of exit section – may be 1-2 % steeper, but no flatter than the design and no narrower than the design.
- ___7. Section – Emergency or Token Spillway (may be shown on Dam profiles)
 - ___a. Width of level Section
 - ___b. Dimensions, side slopes, material size
- ___8. Sand Diaphragm and Anti – Seep Collars
 - ___a. Type, material, dimensions
 - ___b. Detail and Construction Specifications
- ___9. Anti – Vortex and Trash Rack Device
 - ___a. Size, type, material and its elevations in relation to the principal spillway riser crest, corrugation size, gauge, dimensions
 - ___b. Detailed construction specifications,
 - ___c. Detail
- ___10. Infiltration and sand filter BMP's
 - ___a. Type, dimensions, filter material, filter cloth, pipe, detail
- ___11. Elevation/Storage Chart with design elevations and volumes with as-built elevations and volumes for comparison.
- ___12. Notice of Completion Form filled out, signed, and sealed by engineer.
- ___13. Submit photos showing the complete view of facility verifying readiness for As-Built Inspection
- ___14. Letter from the Maryland Department of the Environment granting permission to convert the stormwater facility from "Sediment Phase" to "Stormwater Management Phase".