



Harford County Government Stormwater Management Construction Inspections

The engineer-in-charge is responsible for conducting site inspections for the construction of the stormwater management facility.

Project Name

The following information is required to be completed by the engineer-in-charge. This document is provided to clarify certain requirements of construction and is supplemental to any other requirements imposed by applicable law, rules and regulations.

Pre-Construction Meeting

The owner, engineer-in-charge or his representative, and the contractor shall attend the pre-construction meeting. The County must be notified in writing immediately, should the engineer-in-charge change during the construction of the stormwater management facility.

Inspection Reports

A daily inspection report shall be completed by the engineer-in-charge or his representative and must include the following information:

- Site location name
- Inspection date
- Name and signature of the inspector
- Daily temperature
- Problems encountered and the subsequent solutions
- Proctor tests and curves, soil classifications, soil gradations with the plasticity index indicated
- Pipe certification (this may be a shipping ticket or a letter from the manufacturer)
- Principal spillway diameter, gaskets and coupling bands dimensions
- Structure measurements – steel spacing, pipe lengths, mud slab dimensions, riser slab dimensions, etc.
- Principal spillway connections (gasket types and widths); coupling band widths
- PVC diameter, length and schedule type
- Filter diaphragm; sand source; width, depth, and length of excavation

- Daily compaction reports
- Pictures as applicable¹

The inspection reports shall be maintained by the engineer-in-charge or his representative throughout the construction of the stormwater management facility. The inspection reports shall be made available upon request by the County who may visit the site periodically during construction. The County may issue a stop work order if the engineer-in-charge or his representative is not on site to perform the required construction inspection.

As-Built Submission

The engineer-in-charge is required to submit the inspection reports, as-built drawings and computations to the County within thirty (30) days of the completion of the stormwater management facility.

The County will review all submitted material and perform a field inspection of the facility. The County will recommend acceptance of the facility after all comments have been addressed.

The following information is required as part of the as-built submission:

- Engineer signature, seal, and expiration date on the as-built certification block.
- Red check marks for items installed as designed; check marks are not to be used in lieu of redline elevations.
- Show changes on mylars and plans in red.
- If the elevations of the structure differ from the original plan by two-tenths of a foot or more, the excavated volume is less than designed or the hydrology changes, updated TR-55, stage-storage, and TR20 computations shall be submitted as applicable.
- Completed MD-14 form, if required.
- Compaction certification from the geotechnical engineer. This will include the compaction of the ground beneath the riser (stability) as well as the fill for the dam.
- Concrete break test results for the riser or weir walls, if cast in place.
- Topsoil test for any earth disturbance greater than 5 acres.
- Elevations supporting rooftop disconnects, drainage flows, etc.
- Plant certified concrete tickets for cradles, headwalls and endwalls and pervious material.
- Inspection reports, soil test results, pipe certification, filter cloth specifications, landscaping tickets, lime and fertilizer application rates, soil type and mix ratios for any facility requiring a planting medium.
- Submit all documentation listed above to include one (1) hard copy as well as one (1) digital format (cd).

¹ Pictures are to be taken during the following constructions phases: 1) pipe installation; 2) riser construction; 3) core trench/cut-off trench; 4) anti-seep collars; 5) riser's anti-flotation base; 6) filter diaphragm installation; 7) underground storage pipe/stone placement; 8) pipe connections to riser and/or other modified stormwater structure; and 9) hardware cloth placement around dewatering pipes.

We have received and read the above requirements and understand the responsibilities of the engineer-in-charge.

Contractor/Superintendent (printed)

Engineer-in-charge, P.E. (printed)

Signature

Signature

Telephone/Fax Number

Telephone/Fax Number

Email Address

Email Address

Date

Date

Owner/Developer (printed)

Signature

Telephone/Fax Number

Email Address

Date

****If the engineer-in-charge changes, then a change of AUTHORIZATION FORM must be filled out and returned to the Department of Public Works, Stormwater Management.**