



Wake County As-Built Checklist

Under county ordinance, projects requiring stormwater management devices require Assurance that Improvements will be Completed and Maintained per Article 9, Stormwater Management, of the Unified Development Ordinance (UDO). Upon completion of required improvements, the developer must submit as-built plans of required stormwater improvements to the Wake County Department of Environmental Services. These plans must indicate whether stormwater improvements were constructed in accordance with the county approved stormwater plan. This checklist shows what information needs to be provided and what issues need to be addressed when preparing an as-built plan. All items listed may not be applicable to each site, nor is the list all-inclusive. It is meant to serve as a guide for the engineer preparing an as-built plan.

As-Built Certification. Two copies of as-built, field-verified plans must be signed and sealed by a registered Professional Engineer and/or a Registered Land Surveyor, both licensed to practice in the State of North Carolina, showing contours, elevations, grades, locations, drainage and hydraulic structures, and detention basin volumes.

Vicinity map on plan sheet.
Profile along the centerline of the embankment.
Profiles and/or cross sections of the stormwater management facilities with associated details.
Elevations of the “water quality”, 10, and 100 year storms as appropriate.
Profile along the centerline of the principal spillway/outfall pipe extending below the protected outfall or to the downstream manhole structure
As-Built topography and/or dimensions of the stormwater management facility with computations to verify conformance with the approved plan.
Establishment of a benchmark on the riser/control structure or inlet headwall to the nearest 0.1-foot.
Profile along the centerline of the emergency spillway.
Design and As-Built stage-storage table on the plan view sheet.
Storage deviation verification (i.e. TR-20 computer run to show adequate storage if the available storage does not agree with the original design storage.
The dimensions and type of material for the riser/control structure.
The diameter, length, and type of material for the principal spillway, underdrains, and observation/cleanout wells.
The size, location and type of trash rack device(s).
The number, size and location of the anti-seep collars, precast collars, and cradles as appropriate.
Invert, size and length of any low stage orifices and high stage weir crests.
Flow splitter diversion pipe/weir invert, size, and location.
Incoming and outgoing storm drain sizes, inverts, and outfall dimensions.
Thickness and type of coarse/fine aggregates and planting soil.
Filter fabric/geotextile type and location.
Landscape/wetland plantings number and location. Include landscape plan with as-built plan set.
Certification statement and seal by a Professional Engineer indicating, “This record drawing is accurate and complete, the stormwater management facilities are constructed per the approved stormwater management plan or subsequent approved revisions, and stormwater management is provided per the approved design computations”.
Verify easements, covenants, and any other legal agreements are recorded and in the file.
Verify that the stormwater management facility was constructed within the recorded easement area.
Provide proof of recordation of stormwater agreement / provide copy
Provide signed maintenance agreement