

Stormwater Management Checklist

City of Hendersonville

Project Name:

Date:

Design Engineer:

Phone #:

The purpose of this checklist is to expedite and facilitate the review process. The checklist gives the minimum requirements needed for the City of Hendersonville Stormwater Management Permit. All items shall be checked or marked N/A. *The omission of required items may be cause for rejection of the submittal without review.* Please complete the form and include with two copies of the plan.

Site Information

- Location Map
- North Arrow
- PIN #
- Scale
- Property Lines
- Easements/ Right-of-Way
- Owner/ Developer Name & Address
- Engineer Name & Address
- Adjacent Property Owners
- Existing Contours
- Proposed Contours
- Limits of Disturbed Area (Construction Limits)
- Existing & Proposed Roadway Locations & Elevations
- Existing & Proposed Building Locations & Elevations (Total Buildout Potential)
- Existing & Proposed Utilities (Type, Elevations, Connections, Etc.)
- Geologic Features (rock outcrops, seeps, Springs, Sinkholes, Trees, Wetlands, Streams, Lakes, Ponds, Dams, Stream Buffers, Etc.)
- USCOE, NCDENR, NCDOT Permits (If Applicable)
- Henderson County EPSC Permit Approval
- Professional Engineer Stamp & Signature
- Scope of Work
- Construction Sequence

Stormwater

- Detention Report
- Existing & Proposed Stormwater Sewers (Elevations, Slope, Type, Size)
- Existing & Proposed Detention Structures (Above & Underground)
- Headwater Calculations @ Culverts (25 Year Storm Event)
- Floodplain & Floodway (If Applicable)
- Design Calculations for Pipe Size
- Composite Drainage Area for Pipes & BMP's (Runoff Coefficient, Drainage Area)
- Name of Receiving Water Course
- Energy Dissipaters (Design Calculations & Detail)
- Ditch Calculations (Slope, Width, Depth, Shear Stress, Velocity, Method of Stabilization)
- Percentage of Impervious Area (Existing & Proposed)
- Stormwater Sewer Detail
- Stormwater Installation Description/ Detail
- Stormwater Maintenance Requirements & Responsible Party (During & After Construction)
- BMP Measures Design Criteria Including Plant Species & Forbay (Consult NCDENR BMP Manual for All Design Criteria)

Detention Report Requirements

- ___ Table of Contents
- ___ Narrative/ Explanation of Analysis with Assumptions
- ___ Existing Drainage Area Map
- ___ Proposed Drainage Area Map
- ___ Runoff Coefficient or Curve Number Calculations & Map (Existing/ Proposed)
- ___ Time of Concentration Calculations & Path (Existing/ Proposed)
- ___ Model Schematic (Existing/ Proposed)
- ___ Hydrographs (2 & 10)-Existing
- ___ Hydrographs (2 & 10)-Proposed
- ___ Hydrographs (2 & 10)-Proposed – Routed
- ___ Basin Volume Data
- ___ Basin Grading Plan
- ___ Basin Outlet Structure Data & Construction Details
- ___ Velocity at Outlet
- ___ Complete Summary of Drainage Analysis
- ___ Digital Copy of Data

The undersigned acknowledges by signature that these documents meet or exceed the design standards of the City of Hendersonville and that they were prepared under my supervision.

Signature:

Date:

Please use this checklist for all future submittals. Although we feel this checklist is complete, we understand that there is always room for improvement. We appreciate any and all feedback on this list; by working together we can make the review process better for everyone involved.