



Public Works As-Built Requirements

Prior to release of the sureties for completion of the stormwater facilities and public infrastructure, an As-Built Plan is to be submitted for any stormwater and roadways facilities after final construction is completed. The plan must show the final constructed facilities will function as approved to meet the performance standards outlined in Title 18 of the Hendersonville Municipal Code. Plans shall be stamped by a Tennessee Licensed Professional Engineer and/or Land Surveyor as appropriate. Any discrepancy from the final constructed facilities and the approved design shall be noted on the As-Built Plan.

The licensed design professional shall certify that:

“The facilities have been constructed as shown on the “as-built” plan, and facilities meet the approved stormwater management plan and specifications, including verifying that the watershed draining to the permanent stormwater management features match the design, or achieve the function for which they were designed.”

Where required by the City Engineer, updated calculations stamped by a Tennessee licensed engineer shall be submitted and approved by the City Engineer, showing the as-constructed facilities will function adequately to meet the performance standards of the Stormwater Ordinance. In addition, occupation permits shall not be granted until certification of all storm sewer system features are made and accepted by the City.

Digital CAD files shall be provided in the Tennessee State Plane Coordinate System, NAD83, NAVD88. The following shall be shown in the plan:

1. Invert elevation, top of casting elevation, slope, location, and material of all pipes, drainage inlets/outlets, headwalls, junctions, etc.
2. Size and material of all permanent stabilization including outlet dissipation pads.
3. Ditch size, slope, and materials, including location of top of banks.
4. Top of berm and weir elevations on all drainage facilities.
5. Limits and volume of all detention/retention facilities, including side slopes.
6. Location and description of all stormwater management facilities (e.g., rain garden, pervious pavement, buffer, etc.)
7. Permanent stormwater control measures:
 - a. Location of SCM
 - b. Engineer’s certification letter certifying SCMs have been installed to meet the performance standards of Hendersonville Municipal Code Title 18, Chapter 2 and provide full treatment capacity within 72 hours following the end of the preceding rain event.
 - c. Description of any variations from the approved design plans and specifications
 - d. A brief description of the type of SCM and basic design characteristics
 - e. As-built design parameters including but not limited to invert elevations, outlet structure elevations, subbase layer depths, etc.



- f. Responsible party contact information
 - g. Inspection schedule
 - h. A brief description of or reference to maintenance procedures and frequency
 - i. Photographs of the installed SCMs
8. Property corners marked with iron pins or other monuments.
 9. Edges of pavement, curbs/gutters, sidewalks, curb ramps.
 10. Streetlights.
 11. Property lines, right-of-way lines, minimum building setbacks, public utility, and drainage easements.
 12. Utilities and fire hydrants (on a separate sheet).
 13. As-built contours for all ponds.
 14. FFEs are required for buildings in or adjacent to FEMA Special Flood Hazard Zones, or near an aquatic feature such as a stream, wetland, pond, etc.

Hendersonville Stormwater Asset Management Workbook Requirements

In addition to the CAD files, the City of Hendersonville requires the submittal of the Hendersonville Stormwater Asset Management Workbook. The workbook includes two tabs to be populated with linear assets and point assets of the storm sewer system. Linear assets to be included are conveyances (pipes/box) and open channels. Point assets to be included are area drains, catch basins, combo inlets, outlet structures, manholes/cleanouts, headwall IN, headwall OUT, ponds, and any other stormwater system asset. Mapping of the storm sewer system is a requirement set forth by the Phase 2 Municipal Separate Storm Sewer System (MS4) Permit.

- Point assets
 - Area drains
 - Catch basins
 - Combo inlets
 - Outlet structures
 - Manholes/cleanouts
 - Headwall IN
 - Headwall OUT
 - Ponds
 - Any other stormwater system asset
- Linear assets
 - Conveyances (pipes/box)
 - Open channels

For residential development, the entire storm system must be included in the workbook. For commercial/non-residential development, all permanent stormwater control measures, connections to the MS4 (to include the receiving structure), outfalls to the MS4, and installation of storm infrastructure in the right-of-way must be included in the workbook.