



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

July 9, 2018

MEMORANDUM TO: Division Engineers

FROM: T. M. Little, PE
Chief Engineer

SUBJECT: 2018 Standard Specification Change for Right of Way, Control
of Access and Easements

This is to provide guidance on compliance with Section 801, "Construction Stakes, Lines, and Grade" as included in the 2018 Standard Specifications, specifically Subarticle 801-2(D) "Right of Way, Control of Access and Easements."

In the 2012 Standard Specifications, Subarticle 801-2(D) simply stated to "Validate the position of the markers and permanent drainage easement locations with those detailed in the plans. Report any discrepancies to the Engineer." Subarticle 801-2(D) has been updated in the 2018 Standard Specifications to comply with the requirements of the North Carolina Board of Examiners for Engineers and Surveyors and Title 21 Chapter 56.1602 of the North Carolina Administrative Code. Subarticle 801-2(D) now states "Re-establishment and verification of existing monuments or the replacement of existing monuments with other material (concrete R/W markers, new iron pins, etc.), shall be performed under the responsible charge of a North Carolina Professional Land Surveyor (PLS). Verify all right of way, permanent easement, and control-of-access monument positions after completion of construction with signed and sealed attestation by PLS of said verification in accordance with the *Manual for Construction Layout*."

The *Manual for Construction Layout* is currently being updated to reflect these and other needed changes. The attached "Report of Final RW and Permanent Easement Survey" should be utilized for attestation in the interim.

Prior to the project Let, the Location & Surveys Unit will continue to set all iron pins with caps and show that type of symbology on all the Right of Way series plan sheets. That set of plans will be recorded with the Register of Deeds. Should the Division request that concrete monuments be installed in lieu of iron pin with cap, then the appropriate symbology for concrete monuments will be denoted on the final design plan sheets. The attestation referenced above must also denote concrete monuments. The contract surveyor will be required to submit the "Report of Final RW and Permanent Easement Survey" to the Resident Engineer as the official document as to the final R/W monumentation set as a part of the project.

In addition to reflecting the changes noted above, the updated version of the *Manual for Construction Stakeout* will provide the methodology with an illustration for the stakeout of concrete markers. This will require the PLS to install additional reference line stakes to reference the proposed monument location during monument installation to ensure accurate placement, which will still need final verification as previously described.

On projects where the Department is self-performing the construction surveying, the same requirements will apply. In the event neither the Resident Engineer's Office nor the Division Office has a PLS on staff, Location & Surveys Unit will provide the R/W attestation.

Should additional information be required regarding this matter, please contact Mr. Lamar Sylvester, State Construction Engineer, at (919) 707-2400.

TML:mls

Attachment: Example Report of Final R/W and Permanent Easement Survey

cc: Mr. J. W. Rouse, PE
Mr. R. A. Hancock, PE
Mr. L. L. Mitchell, PE
Mr. M. L. Sylvester, PE
Mr. B. C. Skeens, PE
Mr. C. M. Werner, PE
Mr. J. D. Burton, PE, PLS

Example

Report of Final R/W and Permanent Easement Survey

(Replacement and /or Re-establishing Verification of Right of Way and Permanent Easement Markers for the North Carolina Department of Transportation)

TIP No.:

Project No.:

County:

Project Description:

Plans Recorded in: <County Highway Plan Book designation, i.e. Map Book, Page>

I certify that this survey was done under my responsible charge in accordance with the **NCDOT Survey Standards** as directed in the **NCDOT Location & Surveys Guidelines and Procedures** and the **Manual for Construction Layout** for the purpose of (re-establishing/replacement) of R/W and/or permanent easement markers. That per the Project Plans of Record the following list of markers were either re-established or replaced at the following station/offset locations:

Line Descriptor (-L-, -Y-, etc.)	Station	Offset	Northing	Easting	Re-placed or Re-established	Type and Material of Original Marker	Type and Material of New Marker
Examples L	28+56.23	148.66, Rt.	878,948.23	2,456,128.92	Re-placed	R/W, Iron Pin & Cap	R/W, Concrete
Y	58+72.66	167.89, Lt.	868,785.45	2,456,849.88	Re-established	Easement, Iron Pin & Cap	Easement, Iron Pin & Cap

All bearings and coordinates are referenced to the North Carolina State Plane Coordinate System per Plans of Record.

Witness my signature, registration number and seal this _____ day of _____, 20XX

Professional Land Surveyor (Print Name)

PLS#



Surveyor's Seal

Signature