ROADWAY DESIGN UNIT

OCT 2 4 2011

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HAMIDI
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SPEER
PREPARE REPLY FOR ___ SIGNATURE

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

CC:
HC

October 20, 2011

MEMORANDUM

TO: Jay Bennett, P.E., State Roadway Design Engineer

FROM: Kevin Lacy, P.E., State Traffic Engineer

SUBJECT: Alternate Curb Ramp Designs

The Contract Standards and Development Unit recently revised the curb ramp design located in the 2006 Roadway Standard Drawings to comply with the latest ADA guidelines. Based on the April 1, 2011 memo "NCDOT Standard Drawings for Curb Ramps and Handicap Access," the new design became effective beginning with the August 16, 2011 letting and placed in all projects with curb and gutter.

In response to these changes, a meeting was held on May 12, 2011 by Chris Howard and Dale Stokes (Signing and Delineation), Roger Thomas (Roadway Design), and Joel Howerton and Cynthia Terrell (Contracts Standards and Development) to discuss the proposed changes, offer alternate curb ramp designs for applications where the current design may not be applicable and how to implement this process during the preliminary design phase. The meeting resulted in the following items being proposed:

1) The Contract Standards and Development Unit will have available on their website (http://www.ncdot.org/doh/preconstruct/ps/std_draw/default.html) a special detail with multiple curb ramp designs for situations the standard curb ramp is not applicable. Each of these curb ramp designs will be labeled by a *Type (#)* designation. The standard design located in the Roadway Standard Drawings will be the standard choice during design when curb ramps are required.

2) Curb ramps and their locations will continue to be shown in the pavement marking plans. The Signing and Delineation Unit will coordinate with the Divisions and Roadway Design Unit to determine if standard curb ramps can be used.

3) If it is determined the standard curb ramps shown in the Roadway Standard Drawings are not applicable, the Signing and Delineation Unit will be responsible to notify the Contract Standards and Development Unit and the Roadway Design Unit with the proposed alternate *Type(s)*.

4) The Contract Standards and Development Unit and the Roadway Design Unit will be responsible to include the alternate design detail with that project's final roadway design package. Additionally, the Roadway Design Unit will add a note to the final roadway design plan sheet for the contractor to refer to the final pavement marking plan for the curb ramp *Type(s)*.

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5) Division purchase orders or resurfacing projects that require construction of curb ramps or curb ramp retrofits should be coordinated with the Contract Standards and Development Unit when an alterative curb ramp design is needed.

I propose these changes take effect in coordination with the changes described in the April 1, 2011 memo mentioned above. Attached you will find the "NCDOT Standard Drawings for Curb Ramps and Handicap Access" memo, the revised curb ramp drawing for the Roadway Standard Drawings and the special detail of multiple curb ramp designs that will be listed on the Contract Standards and Development Unit's website.

In addition to the procedural operations mentioned, the Signing and Delineation Unit will not require curb ramps for any facility that does not include sidewalks as described in the ADA guidelines. However, during the preliminary engineering design, if an entity expresses a firm comment to provide sidewalks in the near future of completing a project, curb ramps can be shown on the pavement marking plans provided by the Signing and Delineation Unit.

Please contact me if you need more information or would like to discuss further.

JKL/cbh

Attachments

cc:

Division Engineers (w/attachments)
(Attn: Division Construction Engineers)
Debbie Barbour, P.E. (w/attachments)
Art McMillan, P.E. (w/attachments)
Greg Fuller, P.E. (w/attachments)
Buddy Murr, P.E. (w/attachments)
Stuart Bourne, P.E. (w/attachments)
Brad Hibbs, P.E. (w/attachments)
Terry Hopkins, P.E. (w/attachments)
(Attn: Regional Traffic Engineers)
Division Traffic Engineers (w/attachments)
Ron King, P.E. (w/attachments)
Ron Hancock, P.E. (w/attachments)
Lamar Sylvester, P.E. (w/attachments)
Randy Garris, P.E. (w/attachments)
(Attn: Cynthia Terrell, P.E.)
Roger Thomas, P.E. (w/attachments)
Division Project/Contract Managers (w/attachments)
Roger Rochell, P.E. (w/attachments)