



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY  
GOVERNOR

April 20, 2004

cc:

|  |  |   |
|--|--|---|
| ROADWAY DESIGN UNIT                          |  |   |
| RECEIVED FILE                                |  |   |
| PERMITS                                      |  |   |
| FEB 11 2005                                  |  |   |
| <input checked="" type="checkbox"/> ALLEN    | <input checked="" type="checkbox"/> BEEVINS    | <input checked="" type="checkbox"/> SYKES     |
| <input checked="" type="checkbox"/> BREW     | <input checked="" type="checkbox"/> B. HOUSEF. | <input checked="" type="checkbox"/> [unclear] |
| <input checked="" type="checkbox"/> COVERING | <input checked="" type="checkbox"/> T. BRUCE   | <input checked="" type="checkbox"/> GARDNER   |
| <input checked="" type="checkbox"/> MOORE    | <input checked="" type="checkbox"/> C. HAIRE   | <input checked="" type="checkbox"/> [unclear] |
| <input checked="" type="checkbox"/> MOORE    | <input checked="" type="checkbox"/> TIPPETT    | <input checked="" type="checkbox"/> THOMAS    |
| <input checked="" type="checkbox"/> MUMFORD  | <input checked="" type="checkbox"/> SECRETARY  | <input checked="" type="checkbox"/> WALLS     |
|  |  | <input checked="" type="checkbox"/> THOMPSON  |
| PREPARE REPLY FOR                            |  | SIGNATURE                                     |
| FYI  |  |   |
| REVIEW/DISCUSS WITH                          |  |   |

**MEMORANDUM TO:** Mr. Jay Bennet, PE  
State Roadway Design Engineer

**FROM:** D. R. Henderson, PE *DRH*  
State Hydraulics Engineer

**SUBJECT:** Permit Issues with Roadway Plans

PROCESS  
CHANGES  
2/11/05  
DISTRIBUTION

It has been brought to our attention through the environmental permitting process that information submitted to the permitting agencies on the Roadway Design Plan and Profile drawings are not consistent with the Permit Package. The area of concern is at bridge and culvert locations.

One item causing confusion is the existing ground profile beneath proposed bridges. The Hydraulics Unit conducts a field survey to obtain accurate bridge opening, then revises Roadway Design's profile and submits the revised profile with the permit package. The right-of-way plans produced by Roadway Design often show a different profile which has been established by less accurate survey data for the existing ground profile. The profiles beneath the bridge must be the same on the Roadway Design profile drawings and the Permit Package drawings since the agencies are provided both half size plans and permit drawings.

Another discrepancy highlighted during the permitting process has been with how both the existing and proposed structures are shown on the Roadway Plan and Profile sheets. Both existing and proposed structures, including interior bent locations, must be shown on all plans being submitted to the permitting agencies. In the past, only the proposed bridge was shown on the plans.

These few changes will hopefully reduce confusion and minimize delays in the permit review period.

DRH/aph

cc: Mr. Art McMillan , P.E. (Highway Design Branch)  
Mr. J. Victor Barbour, P.E. (Design Services)  
Mr. Greg Perfetti, P.E. (State Bridge Design Engineer)

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