



J. Speer

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STATE OF NORTH CAROLINA  
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MEMO TO: Roadway Design Project Engineers  
Scott Blevins, PE  
Zigrida Smith, PE

FROM: John Alford, PE *John Alford*  
Roadway Design Unit

DATE: August 6, 1999

SUBJECT: Final Plan Consistency

It has been brought to my attention that there are two areas of final plan preparation that need clarification for the sake of consistency. The first is the documentation of design exceptions on the plans. The second is the need for the inclusion of cross section layout sheets (shear point diagrams).

Design Exception Documentation

In accordance with Len Hill's January 8, 1998 memo regarding the Design Exception Policy, we are to identify the need for design exceptions on the title sheet and on the affected plan or profile sheets. To comply with this policy, the title sheet is to have an asterisk by the design speed with a note indicating a design exception is required. Additionally, the plan or profile sheet containing the deficient design element is to have an asterisk by that element with a note further documenting the need for the design exception. Example plan sheets are attached.

Cross-Section Layout Sheets

Cross-section layout sheets (shear point diagrams) are to be included in all final plans that have interchange designs more complex than a standard diamond. This detail is to be included in the 2-series sheets and is to contain lines indicating where individual cross sections have been cut and where they intersect. These intersecting "shear points" are to be clearly labeled on the detail and properly reflected on the corresponding templates in the cross sections.

These guidelines should be followed beginning with turn-ins for the November letting. Reminders for these items will be added to the final plan checklist in the near future. Contact me with any questions.

JEA/gwm  
Attachments

cc: Debbie Barbour, PE  
Victor Barbour, PE  
Gerald Barbour, PE

Bob Brown, PE  
Charlie Casey, PE  
Garry Lee, PE

