



IN REPLY REFER TO
FILE NO.

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
INTRADEPARTMENTAL CORRESPONDENCE

REFERRED TO

- _____ REFERRED FOR ACTION
- _____ ANSWER FOR MY SIGNATURE
- _____ FOR FILE
- _____ FOR YOUR INFORMATION
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- _____ RETURN TO ME
- _____ PLEASE SEE ME
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- _____ FOR APPROVAL
- _____ PLEASE ADVISE ME

October 13, 2011
(225) 379-1306

BY _____ DATE _____
 BY _____ DATE _____
 BY _____ DATE _____

MEMORANDUM

**TO: Mr. Richard Savoie, P.E.
Chief Engineer**

**FROM: Mr. William "Mack" Ray, P.E. *WR*
Hydraulics Administrator**

SUBJECT: LADOTD Procedure for Calculating Scour at Detour Bridges

We hereby request your approval of the following guidelines for predicting scour on detour bridges:

- 1) Scour consideration is limited to the bents in the channel and only local scour shall apply. Contraction scour is not considered for detour bridges.
- 2) Local scour for temporary detour bridges is calculated in the same way as permanent bridges. Local scour for permanent bridges is calculated according to FHWA HEC-18, *Evaluating Scour at Bridges*.
- 3) The predicted scour elevation for each bent is determined by subtracting the local scour depth from the existing ground elevation at each bent.

We would like to have this procedure be implemented immediately. Please contact me should you require any additional information.

C: Janice Williams
Chad Winchester
Hossein Ghara
Steve Meunier
Brian Buckel

RECOMMENDED FOR APPROVAL

[Signature]
10-13-11
DATE

RECOMMENDED FOR APPROVAL

[Signature]
10-19-11
DATE

APPROVED

[Signature]
10-19-11
DATE