




January 3, 2007

TO: D. Yankauskas/G. Golphenee
Northwest Region, MS NB 82-77

FROM:  T. M. Allen/M. A. Frye
E&EP Geotechnical Division, 47365

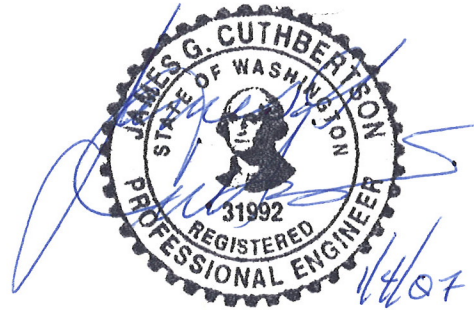
SUBJECT: SR-20, MP 44.75 vic., XL0832
Quiet Cove Road Vic. to SR 20 Spur
Meadow Creek Bridge Approach Walls
Supplemental Geotechnical Recommendations

This memorandum presents supplemental geotechnical recommendations for the temporary detour wall at the proposed Meadow Creek Bridge associated with the subject project. The memorandum supplements our March 9, 2006 memorandum titled *SR 20, MP 44.75 vic., XL0832, Quiet Cove Road vic. to SR 20 Spur, Meadow Creek Bridge Approach Walls, Geotechnical Recommendations*.

In our March 9, 2006 memorandum, we recommended using structural earth walls to support the approach fills at the bridge abutments. Based on a constructability review meeting in December, 2006, we understand two water lines that will cross the proposed bridge will conflict with the reinforced zone of structural earth walls. Based on the meeting, we were asked to investigate alternative wall types to avoid conflicts with the water lines. Based on our analysis, Standard Plan Reinforced Concrete Retaining Walls Type 1 and Type 2 are suitable at this location. Based on the subsurface conditions, we recommend a minimum of two feet of over-excavation and replacement with gravel borrow as shown in the attached figure. Settlements are anticipated to be less than 2 inches and occur during construction.

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If you have questions or require further information, please contact Tony Allen at (360) 709-5450 or Mark Frye at (360) 709-5469.



EXPIRES 03-13~~08~~

A handwritten signature in blue ink, appearing to read "Mark A. Frye".

Prepared By:
Mark A. Frye
Geotechnical Designer

Reviewed By:
Jim Cuthberston
Chief Foundation Engineer

A handwritten signature in blue ink, appearing to read "Tony M. Allen".

Agency Approval Authority:
Tony M. Allen
State Geotechnical Engineer

TMA/maf

Attachment: Over-excavation detail

cc: Chris Johnson, Northwest Region Materials Engineer, MS NB 82-29
Mark Anderson, Bridge and Structures Office, MS 47340
Munindra Talukdar, Bridge and Structures Office, MS 47340

