



September 13, 2006

TO: Rosario Revilla/Adam Brown
Northwest Region, MS NB 82-75

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

SUBJECT: SR-90, MP 6.22 to 7.24, XL2423
Two Way Transit & HOV Operations, Stage 1
Pier 1 W-80th Ramp Bridge
Temporary Casing Recommendations

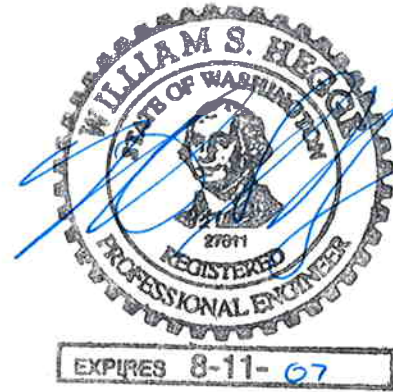
At the request of your office and the Bridge and Structures Office, we have advanced an additional subsurface boring at Pier 1 of the proposed W-80th Ramp Bridge. The new boring, designated H-4-06, was advanced at the edge of the proposed shaft at its closest point to the existing S-W Ramp Tunnel. The intent of the boring was to determine if there were any obstructions from the tunnel construction (i.e., a footing larger than shown in the as-built tunnel plans, or abandoned shoring from tunnel construction) that may interfere with construction of the proposed drilled shaft bridge foundation. Our boring did not encounter any man-made obstructions that may interfere with the drilled shaft construction.

The new boring was closer to the tunnel than the boring we advanced for the foundation design (BH-1-05). Please note that the pier designations have changed since our geotechnical report. Pier 1 shown in the current plans was designated Pier 2 in our geotechnical report. The fill material placed around the tunnel was deeper near the edge of the tunnel. Based on the new information, we are revising our temporary casing recommendations for this Pier. The bottom elevation of required temporary casing should be elevation 41. The upper and lower limits for concurrent casing placement with excavation should be from the ground surface to elevation 41. The deeper fill material does not change the shaft capacity or lateral design parameters presented in our October 27, 2005 report.

The attached boring log should be included in the contract provisions.

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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.



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Geotechnical Designer

Reviewed By:
William S. Hegge
Senior Foundation Engineer

Agency Approval Authority:
Tony M. Allen
State Geotechnical Engineer

TMA/maf

Attachment: Boring Log H-4-06

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

