

June 11, 2009

TO: Mike Clark
SW Region, MS S-15

FROM: Tony M. Allen/Donald A. Williams
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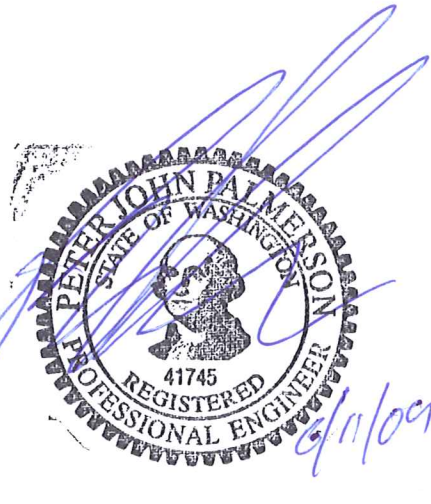
SUBJECT: I-5, MP 13.39 to MP 14.60, XL-2811
SR-501 Ridgefield Interchange
Supplement to the Summary of Geotechnical Conditions

Transmitted herewith is the Supplement to the Summary of Geotechnical Conditions for the subject project. This information needs to be included in the contract documents.

If you have questions or require further information, please contact Donald A Williams at (360) 709-5457.

TMA: DAW
Attachment

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Donald A Williams

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Pete Palmerson

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Supplement to the Summary of Geotechnical Conditions

I-5 SR 501 Ridgefield Interchange - Detention Ponds

Ground Water

Ground water information was obtained in the vicinity of the NE Pond, the NW Pond, the South Pond, and one constructed wetland site. A total 4 open stand pipe observation wells (piezometers) were established to measure the variation in the ground water between April and May, 2009, H-1P-09, H-2P-09, H-3P-09, and H-4P-09. The measured ground water information is included in the logs of test borings.

In general, the bottom of ponds should be below the water table and will likely be constructed in dry. Depending on the time of the year, ground water may be encountered near the bottom of the South Pond, I-5 Stations 370+27 and 373+48, Left. Ground water was observed at a shallow depth in H-3P-09. Based on previous investigations, perched ground water was encountered between approximate elevations 272 ft and 273 ft in Test Hole BH-8-06. BH-8-06 is located approximately 150 ft east of NW Pond.

Impact of Site Conditions on Construction

The contractor should be prepared for soft sub-grade conditions in the vicinity of the South Pond location due to the high ground water observed in H-3P-09. The movement of heavy construction equipment over the site can degrade the foundation sub-grade and compacting earth embankments over saturated, loose silty sand may be difficult.

Perched ground water may be encountered in the NW Pond. The ground water elevation observed in BH-8-06 is above bottom of the NW Pond. Some seepage in the pond cut slopes may occur. The contractor should expect localized wet foundation conditions. Depending on the amount of ground water encountered, mitigation efforts such as dewatering may be required in order to excavate the pond in the dry.

Available Geotechnical Reports

The relevant geotechnical information is summarized in the following reports and is available at the Project Office or on the WSDOT Website,

<http://www.wsdot.gov/biz/contaa/wsdotpro/GEO-TECH%20REPORTS/DEFAULT.HTM>

- Memorandum prepared by Donald A Williams, titled *I-5, SR-501 Ridgefield Interchange Widening, MP 13.39 to MP 14.6, XL-2811, Detention Pond Information*, June 8, 2009.