

GTPQ CRC Materials Subcommittee Meeting

Meeting Minutes from April 18, 2019

Present:

Monica Flournoy, GDOT	Bob Barnes, ECS
Glen Foster, GDOT	Adebola Adelokun, GDOT
Ray Coston, GDOT	Catherine Armstrong, GDOT
Mary Cooley, GDOT	Ian Rish, GDOT
JT Rabun, GDOT	Moussa Issa, GDOT
Richard Douds, GDOT	Tom Hruby, Nova
Prashanth Vaddu, MC Squared	Jeff Doubrava, S&ME

Next meeting: April 18, 2019, 10:00AM, GDOT OMAT Office (Quarterly Meeting)

Minutes Prepared by: Robert H. Barnes, P.E., P.G., ECS Southeast, LLP

- 1. BFI Drilling Guidelines:** Additional revisions will be made and distributed to the committee prior to issuance. The topic of including the use of seismic refraction and other geophysical methods for seismic site classification and liquefaction in the BFI drilling guidelines was discussed. It was the majority's opinion that the inclusion of geophysical methods in the BFI drilling guidelines was outside of the scope of the intended guidelines and should not be included. It would not however, prevent consultants from using of these methods to obtain additional information for their projects. It was generally agreed that further discussion on geophysical methods outside of the BFI drilling guidelines was a good idea.
- 2. Soil Survey Guidelines:** The most recent revisions to the Soil Survey Guidelines will be distributed to the committee prior to the next meeting.
- 3. Soil Survey Template:** Finalized with minor edits to be made. Discussions were had on the topic of ground improvement options including: removal and replace, lime stabilization, geotextiles, and a thicker GAB layer. Pavement Design Values section has been changed to only include soil support value (SSV). Regional factor (RF) and subgrade reaction (k) have been removed since they are already in the pavement design. The committee also discussed the use of Potentiometric Maps. The consensus is that they may be included as additional information in the report if deemed useful by the consultant but were not a requirement. Vibration monitoring of sensitive structures (such as hospitals, surgery centers, etc.) in addition to historic structures was discussed. It was decided that any sensitive structures would be addressed during the right-of-way (ROW) acquisition phase and does not have to be addressed in the soil survey template.
- 4. LRFD BFI Template:** Additional revisions will be made and distributed to the committee prior to issuance. Vibration monitoring has been added. The committee had discussions on lateral squeeze and agreed that it can be addressed under the Special Problems section by the consultant, as needed on a case by case basis.

5. **LRFD WFI Template:** Additional revisions will be made and distributed to the committee prior to issuance. Discussions were had on changing the Load Transfer Platform section to Subgrade Improvement section since the use of stone columns/ aggregate piers is ground improvement and not a structural element.
6. **SP 999 Global Stability of Walls on Construction:** The committee continued discussions on the special provision. A study was conducted by the Geotechnical Bureau to evaluate wall global stability methods under selected parameters. Based on the study, it was felt that the wall height could be increased to 15 feet. The Janbu method appeared to be most conservative of the methods evaluated and was the basis of the decision. This will be evaluated further for different soil types and relative density/consistency. Discussions included both internal and external stability analysis and when in the design and construction process these should be performed and under what entity's direction (design or construction). It was agreed that this is a larger topic than just this committee and it would be beneficial to hold another meeting with wall designers, wall contractors, D/B wall contractors and senior geotechnical engineers with internal and external stability expertise. Additionally, GDOT construction and procurement folks may benefit the group by attending and participating. A date was not selected, however OMAT will look for an opportune time to host this meeting and communicate back to the committee.
7. **Pavement Updates:** Discussed changes to soil survey. A new design memo for base thickness is forthcoming that corresponds to its removal from the soil survey summary template. Forthcoming for next meeting are updates to the PES template.
8. **OMAT Fee and Cost Estimate Process:** Briefly discussed issue that procurement is not allowing "miscellaneous other direct costs (ODCs). Spreadsheets should be color coded to identify services provided by vendors (subs). Revisions to spreadsheet are still in progress. Issue about estimating efforts for laboratory testing will be discussed. Since the meeting procurement has reached out to Tom Hruby and discussed more specific requests regarding spreadsheet modifications and would to schedule another meeting with OMAT and a small group geotechnical consultants. Catherine is currently looking for a date for this meeting in early May.
9. **Revisions to 524.5 Non-Destructive Testing of Drilled Caissons:** Going to construction group for review and comments.
10. **Vibration Monitoring:** Completed; removed from soil survey and sections added to BFI and WFI templates.
11. **SASHTO:** Discussed updates on possible Session topics and possible speakers for the upcoming August 2019 SASHTO conference in Savannah.

Next Meeting Date: July 18, 2019 (Quarterly Meeting)