GTPQ CRC Materials Subcommittee Meeting

Meeting Minutes from January 16, 2020

Present: 
Monica Flournoy, GDOT
Glen Foster, GDOT
Ian Rish, GDOT
Reginald Murph, GDOT
Prashanth Vaddu, MC Squared

Bob Barnes, ECS
Catherine Armstrong, GDOT
Neoma Cole, GDOT
Tom Hruby, Nova

Next meeting: April 16, 2020, 10:00AM (Quarterly Meeting)

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

1. New Pavement Evaluation Summary Template has been posted on ROADs

2. Pavement Evaluation Guidelines – Ian and the pavement group are working on revisions to the Pavement Evaluation Guidelines to submit to the Committee for review and discussion.

3. Pavement Design Manual - Ian and the pavement group are working on the new Pavement Design Manual (to replace the DRAFT). Target date is mid-year (July 2020). Will be designed as a “practitioner’s guide” with references to links or other documents.
   a. A draft of the MEPDG guide is expected soon. Draft from UGA.

4. Assumptions Guidelines - Assumptions Guidelines are now posted on ROADs. Guidelines are to be used with the new OMAT spreadsheet.
   a. Catherine will be collecting comments with issues (formatting, spelling, etc.)
   b. Minor updates will be made with major changes or when reposted.

5. Training topics –
   a. 1st Qtr. – Ian Rish will present to ACEC/CRC on Pavement Design Packages with general discussion on practical pavement design.
   b. Committee discussed having training for the Primes on using the new OMAT Spreadsheets and Assumption Guidelines.
   c. Committee discussed having training on all the recent geotechnical templates and guidelines.

6. Ongoing research/pilot programs - Also discussed was the ongoing research/pilot programs.
   a. UGA research on subgrade modulus
b. Pilot program on load transfer platforms (ground improvement) avoid LRFD. The use of timber piles and aggregate columns is currently being explored.

c. Research on RQD and rock strength for drilled shaft design.

7. **SP 622** – Being sent to Industry for comments.

8. **SP 524** – will be project specific.

9. **GDOT LRFD Retaining Wall Software** - The Committee discussed issues with the GDOT software, particularly with sandy drained material vs. undrained multi-layer material.

   a. Engineering judgement is needed if condition is not being modeled properly.

   b. Consider use of FE methods as an alternative.

   c. Call to discuss situation with OMAT representative.

   Also discussed resistance factors for retaining walls from software (AASHTO vs GDOT)

10. **High Mast Design** – The question come up on the use of ASD design for High Mast on some LRFD projects. Issue needs to be discussed with Structures. They have not update High Masts over to LRFD yet.

11. **Phase 1 ESA** – Committee discussed ASTM and search boundary requirements beyond project limits.

12. **HPC Piles** – HPC piles in corrosive environment are not a requirement, only a guidance /recommendation from a geotechnical stand point. Department to look into clarifying the same in 9.2.2.

**Next Meeting Date:** April 16, 2020