



**NORTH CAROLINA**

Department of Transportation



# Geotechnical AASHTO Agenda Items and Prequalification Updates

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# Geotechnical AASHTO Agenda Items

- T-15 (Technical Committee on Substructures and Retaining Walls) has 11 agenda items being voted on **TODAY** and **TOMORROW** at the Committee on Bridges and Structures Annual Meeting in Burlington, VT
- T-15 Committee Chair – Tony Allen, WSDOT
- T-15 Committee Vice Chair – David Scott, NHDOT
- T-15 NCDOT Representative – Scott Hidden
- T-15 FHWA Liaison – Silas Nichols

# Summary of Major Agenda Items

- (#10) Moves global stability from service limit state to strength limit state
- (#11 & 12) Adds Soil Nail Walls to the AASHTO LRFD Bridge Design Specifications
- (#16) Revises guidance on tolerable bridge movements for differential settlement and angular distortion
- (#19) Defines  $\gamma_{SE}$  based on settlement type and calculation method
- (#20) Removes Elastic Half-Space Method and adds Schmertmann Method and Construction Point Settlement Analysis

# Future Changes Coming in 2019

- Update Slide to incorporate LRFD soil nail design,  $T_{\max}$  reporting and Snail failure plane
- Add Soil Nail Walls to AASHTO LRFD Bridge Construction Specifications
- Develop NCDOT/AASHTO guidance on dragdown especially related to Neutral Plane Method
- Rewrite MSE Wall Article for AASHTO LRFD Bridge Design Specifications with significant revisions to reinforcement load prediction methods and internal stability design
- Approve NCDOT's first MSE wall system with geosynthetic (polymer) strips

# Prequalification Updates Implemented or Coming Soon

- Consultant Discipline for Hydraulic Conductivity Investigations
- Geophysical Services moved from Consultant Prequalification to Contractor Prequalification
- Years of experience for Contractor Personnel must be continuous
- GRLWEAP Program and Driving Criteria Example requirements for Pile Driving Analyzer (PDA)
- Lower Minimum Certification Rank for Field Engineer for PDA (~~Advanced~~=>Intermediate)



# Questions?

