Take Aways from Tuesday, August 27

- Developed, proven technology
  - Implemented by FDOT as an option for dynamic testing on all projects with prestressed, concrete piles.
  - Used by VDOT and implementation anticipated to be similar to FDOT.
  - Used by NCDOT and implementation being determined after the two pilot projects.
- Hurdles:
  - Need single document that links theory and development to software to allow Owner Agency confidence in software outside of Florida.
  - Need engineering support for engineering software updates.
- Allow the ability for the office engineer to view the workstation in real time similar to GoToMeeting.
- Technology is constantly improving- harsh environment- every project presents challenges like working close to an airport.
- EDC equipment and data access/ storage are leased instead of purchased. Project data may still be downloaded and stored on individual computer.
- Data collector training
  - Cost- $1295 per person for 2.5 days
  - Focus is operation of equipment with some theory
  - Prequalification requirements for dynamic testing operators
- Contractor’s perspective
  - Production is key- no climbing leads which equates to higher production rates.
  - Top and tip data allows early detection of pile damage- higher production rates.
- Owner’s perspective- top and tip data allows better knowledge of the pile integrity
• Data Collectors perspective- comfort level will increase as experience is gained with new technology- all data is collected it is just presented in a different format
• Costs
  o Gauges
  o Installation
  o Data collector training
  o Monitoring during driving
  o Data processing/ engineering
• Different owner contracting methods

Steps to Implementation

• Initial implementation (pilot program)- Use EDC along with dynamic testing with external gauges- pilot projects.
  o Costs- see presentation for detailed information
    ▪ Pilot Program pricing- $9,995 for 10 sets (monitoring not included)
    ▪ Small projects pricing- $895 per set (equipment lease and monitoring not included)
    ▪ Owners need to establish a pricing with in-house monitoring or consultant monitoring.
  o Funding
  o Benefit received- agency dependent
  o NCDOT invested $15,000 in their pilot program ($10,000 for gauges, installation, training and $5,000 for consultant monitoring)
  o Each workshop participant prepares a white paper to address benefit, funding, and cost that is specific to their agency to start pilot program. Include long term goal.
  o Industry education such as precast plants

• Immediate implementation possibilities
  o Design-bid-build through a contractor proposed change (value engineering change proposal or cost savings initiative)
  o Design-build through a DB Team’s proposal
  o Possible responses:
    ▪ Allow
- Allow with conditions such as need to verify with dynamic testing with external gauges
- Not allow
  - Each workshop participant includes in white paper how their agency plans to respond to any immediate implementation possibilities.

- AASHTO-TIG Lead States Team will provide support for initial implementation and immediate implementation white paper development.
- AASHTO-TIG Lead States Team will provide initial project support.
- Schedule a workshop follow up using GoToMeeting in 3 months.