

ACEC/NCDOT BRIDGE SUBCOMMITTEE



Minutes of February 4, 2013 Meeting
Structure Design Conference Room C, 10:00 am

Attendees

Allen Raynor – NCDOT Structures Management Unit
Kevin Fischer – NCDOT Structures Management Unit
David Stutts – NCDOT Structures Management Unit
David Stark – NCDOT Structures Management Unit
Henry Black - NCDOT Structures Management Unit
Tom Harris – Parsons
Eddie Wetherill - WEI
Jim Barcomb for Michael Craig – WSP Sells
Domenic Coletti – HDR
Paul Barber –HNTB
Joe Kelvington – Stantec (Co-Chair)

- 1) **Review of Previous Meeting Minutes** - Minutes of the November 5, 2012 meeting were reviewed and accepted.
- 2) **Bridge Design Workshop Series**
 - a) Preparations for workshop on 2/20/13 are underway. Max Price (WEI) and Stephen Morgan (NCDOT Hydraulics Unit) will present on hydraulic sizing and scour for bridge design.
 - b) Venue has been set for workshop on April 3, 2012 (Rural Center). Topic is tentatively scheduled for LRFR for culverts and pipes pending NCDOT review and approval of the study. Satrajit Das (WSP Sells) will present findings from load tests on multi-cell boxes. Matt Clark is to present for NCDOT.
 - c) Potential Topics from Survey for next Luncheon Seminar –
 - i) **Accelerated Bridge Construction in NC** – Greg Perfetti is to approve.
 - ii) **Corrosion Study @ Albemarle Sound Bridge** – Henry Black has the report developed by WSP Sells. Brian Hanks was mentioned as a possible presenter from NCDOT.
 - iii) **New Topic for Consideration** – Steel railroad bridge design was mentioned as a potential topic of interest in a comment received from evaluations on the October 15 workshop.
- 3) **Training Opportunities** –
 - a) Week of April 20, 2013 NCDOT will host two (2) ½ day training sessions on GRS technology for modular block wall and reinforced soil embankment fill design. Sessions will be conducted in Asheville and Raleigh. NCDOT is looking for a pilot project to develop design criteria. Division & Geotechnical Unit input will be needed.

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- b) NCDOT is contemplating a 1 day seminar some time in the fall of 2013 to be conducted jointly with PCI. NCDOT is to meet with Georgia/Carolinas PCI to discuss.
- c) Element Based Inspections: NCDOT in-house training on March 20-21. Training sessions for PEF's is still to be determined.

4) Anticipated PEF Advertisements

NCDOT is still working through the list of projects to be assigned under LSA's. The following list is what is scheduled to go next:

- a) I-914 BA&BB – I-85 Rehabilitation in Warren County. Four (4) grade separations (GS) on the BB project and four (4) GS on the BA project.
- b) U-2519CB – Fayetteville Outer Loop. Four (4) stream crossings will be assigned. NCDOT has added four (4) additional structures to the project for private firms. These additional four will go out shortly.
- c) R-0623 – NC 24 & NC 27 in Montgomery County. Two (2) SX.

Current Limited Services Agreements with Structures Management Unit will expire this year. NCDOT will be re-advertising for services in late summer 2013.

5) Technical Discussions

- a) Policy Memorandums are now broken down under the following categories on the Department's web site:
 - i) Design
 - ii) Inspection
 - iii) Maintenance
- b) Policy Memos – Latest issued by the Structures Management Unit include:
 - i) 12/6/2012 – Coding for condition rating of bridge decks, superstructures, substructures, and culverts has changed. Four inspection items are returning to the traditional numerical ratings. Changes will not affect WIGINS.
 - ii) Element Based Inspections – NCDOT has very tentatively set the date to migrate into this program by 9/1/2013. This date is subject to change. Element Based Inspections in NC will differ from National/AASHTO standards. NCDOT is going into more reporting detail. The Department anticipates increased work load with the 1st cycles of EBI as more data is to be collected and entered into the system. Data entry for new projects will also be required. Further developments are anticipated.
 - iii) QA/QC requirements for consultants – Per recent policy memo, plans will need an additional line in the signature block for the Design Engineer of Record. The Department will accept typed names and dates for the Design Engineer of Record. The name in the block must be legible.



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6) Invoicing

There has been a rash of duplicate invoices that are coming in to the Department. The problem is widespread and will precipitate changes in the numbering system NCDOT uses to track invoices. NCDOT is looking to simplify the numbering system to reduce these occurrences. Scott Blevins and Fiscal staff are working out a system that will flag duplicate invoices. Changes are coming in the way invoice numbers are set.

7) General Topics of Discussion

Low Impact Design-Build projects: There is an issue arising from changes in scope from cored slab to box beam bridges. Current contracts do not recognize a difference between these two types of structures. In reality, there is a big difference in the cost of construction when these structure types are changed in design. This is most problematic on Express Design-Build projects. Roger Rochelle is aware of the problem and working to resolve the issue within the Department's Design Build Group.

8) Future Meetings – 10:00 am Structure Design Conference Room C (unless otherwise directed)

- i) May 6, 2013**
- ii) August 5, 2013**
- iii) November 4, 2013**