

ACEC/NCDOT BRIDGE SUBCOMMITTEE

Minutes of February 6, 2012 Meeting
Structure Design Conference Room C, 10:00 am



Attendees

Greg Perfetti – NCDOT Structure Management Unit (Co-Chair)
Allen Raynor – NCDOT Structure Management Unit
Lonnie Brooks – NCDOT Structure Management Unit
Paul Garrett – NCDOT Structure Management Unit
Eddie Wetherill – Wetherill Engineering
Morris Israelnaim – MI Engineering
Liz Phipps – KCI (Co-Chair)
Paul Barber – HNTB
Tom Harris – Wilbur Smith
Joe Kelvington - Stantec

- 1) **Review of Previous Meeting Minutes** - Minutes of the November 7, 2011 meeting were reviewed and accepted.
- 2) **Bridge Design Workshop Series** – future topics were discussed.
 - a) Feedback on October 27th Steel Girder Software comparison Workshop – Majority like the Design Build Effects and the Predicting Camber workshop.
 - b) Potential Topics from Survey for next Luncheon Seminar –
 - i) **Design Build Effects on Span Length and Girder Spacing** – Liz Phipps discussed topic with David Peterson. We have secured a date of April 4th.
 - ii) **Predicting Camber for Prestressed Concrete Members** research project – Tyler Storm has moved out of state and is no longer available for the presentation. Allen Raynor will contact Dr. Sami Rizkalla to give a presentation on the research results.
 - iii) **Geotechnical and Bridge Engineers discuss piles** – Morris Israelnaim will contact Chris Kryer and/or Scott Hidden on discussing the relationship with the length of pile due to scour, constructability software used, and design concept used to result in a cost effective product.
- 3) **Training Opportunities** –
 - i) NCDOT is planning on hosting a 2 week NBIS course for early summer.
 - ii) KCI will host 3 day NBIS refresher in late June.
- 4) **Structure Policy Memos** – Allen Raynor presented overview of recent changes.
 - i) 42" Vertical Concrete Barrier Rail, December 5, 2011
 - ii) Foundation Conditional Material for Box Culverts, December 12, 2011
 - iii) ADT criterion for Sub-regional Tier bridge type, revised Dec. 22, 2011
 - iv) End Bent Cap Depth, December 21, 2011
- 5) **Anticipated PEF Advertisements**

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- i) R-2633BA - stream crossing – Wilmington Bypass
 - ii) R-2413A – 7 bridges
 - iii) R-2413B – 2 bridges
 - iv) U2579B – 18 bridges – not sure of delivery method, possibly design build
 - v) U2525B – 9 bridges
 - vi) On-Call DDC contracts to expire in the fall. Will advertise soon.
 - vii) 13 more divisions for the express design build bridge replacements.
- 6) Technical Discussions –**
- a) In regards to LIBP, there is a request to release NCDOT’s LRFD Culvert Design and Rating Program to the firms performing these designs for the department. With the program available to firms, firms will have the ability to better meet the expectation of the department with respect to the manhour estimates.
 - i) Release of design programs resulted in technical support problems in the past. Some firms are beta testing other available software- which is capable of rating, too. SMU is willing to provide a design run to use for beta testing of other software.
 - ii) Florida DOT provides a LRFD Culvert Design and rating program on-line.
 - iii) Greg stated that the culvert box sections, showing c bars, etc., would be made available online.
 - b) As a result of the I-35W collapse, AASHTO and FHWA developed QA/QC Guidelines for Design and Plan Preparation. PEF’s will be required to have documented procedures. After discussion, it was suggested that these procedures become part of the prequalification process.
- 7) Future Meetings – 10:00 am Structure Design Conference Room C (unless otherwise indicated)**
- i) May 7, 2012
 - ii) August 6, 2012 – 2012 committee members come in.
 - iii) November 5, 2012
 - iv) February 4, 2012