

ACEC/NCDOT BRIDGE SUBCOMMITTEE



Minutes of May 2, 2011
Structure Design Conference Room B, 10:00 am

Attendees

Greg Perfetti – NCDOT Structure Design Unit
Allen Raynor – NCDOT Structure Design Unit
Lonnie Brooks – NCDOT Structure Design Unit
Jim Barcomb – URS
Morris Israelnaim – MI Engineering
Liz Phipps – KCI
Paul Barber – HNTB
Dave Charters - PB

- 1) **Review of Previous Meeting Minutes** - Minutes were reviewed, accepted and have been posted to the Structure Design Web Site.
- 2) **Bridge Design Workshop Series** – future topics were discussed.
 - a) Feedback on April 20 Rating Workshop – Joe Kelvington has results from workshop and will distribute summary sheet.
 - b) Topics from Survey –
 - i) Design Build Effects on Span Length and Girder Spacing – Topic too broad
 - ii) Bridge Hydraulic Sizing and Scour – Need to identify speaker
 - c) Schedule Next workshop - Barcomb to discuss Hydrodemolition with Holderman about possible speaker for July. Barcomb will contact to setup Rural Center.
- 3) **Training Opportunities** – Steel Bridge Forum Update. Brian Hanks has tentative agenda and working on a date. There will be seats available for some PEF's dependent on the venue.
- 4) **Structure Policy Memos** – Raynor presented overview of recent changes.
 - Transverse Construction Joints – March 11, 2011 – Addition of new transverse construction joint 4'-0" from the joint seal at the trailing end of the deck pour for simple steel spans. For continuous steel spans, detail the construction joint 4'-0" from the joint seal in the span containing the first deck pour.
 - Pot Bearing Design Loads – March 11, 2011 – Specification of the vertical and horizontal design load requirements on the plans accordance with the AASHTO LRFD Specifications.
 - Longitudinal Construction Joints – March 11, 2011- When it is not possible to locate the longitudinal joint along the bridge crown point, locate the longitudinal joint at least 4 feet from the crown point to facilitate proper forming of the crown in the deck using a screeding machine.
 - Miscellaneous Design Manual Revisions – March 11, 2011
 - (a) 6.2.6.1 Stream Crossings
 - (b) 6.2.2.8 Closure Pours
 - (c) 6.4.1 & 6.5.1 Cored Slabs and Box Beams
 - (d) 6.4.2 & 6.5.2 Top-Down Construction

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- (e) 6.6.1 Structural Steel
- (f) 6.6.6 Fabrication and Construction Details

5) Anticipated PEF Advertisements

- a) R-2633B – Wilmington Bypass, May 2
- b) R-4047 Lake Junaluska, May 15
- c) Greensboro N. Loop at Battleground, July 2011
- d) Durham East Connector, 3-level interchange, August 2011
- e) R-2554 – Goldsboro Bypass, currently advertised

Technical Discussions – use of transformed section properties not allowed. The Department recognizes that there may be site specific project issues that make it beneficial to exceed historical span length practices and standard cored slab span lengths. If atypical analytical practices are employed (transformed strand, simple for dead/continuous for live load, e.g.) the rating sheet shall contain appropriate notes reflecting the techniques employed. In this way, the future ratings can be performed consistently.

Furthermore, for design-build projects the teams are encouraged to explain the benefit of employing such techniques so that the Technical Review Committee members can adequately evaluate any positive or potentially deleterious effects.

6) Other Topics

- a) New Co-Chair for ACEC – Liz Phipps
- b) New Committee Members – Eddie Wetherill, Tom Harris

7) Next Meetings

- a) August 1, 2011, 10:00 am
- b) November 2, 2011, 10:00 am