

ACEC/NC/DOT BRIDGE SUBCOMMITTEE

Minutes of May 5, 2008 Meeting
Structure Design Conference Room C
May 5, 2008, 10:30 am

Attendees

Greg Perfetti – NCDOT Structure Design Unit
Allen Raynor – NCDOT Structure Design Unit
Lonnie Brooks – NCDOT Structure Design Unit
Zaki Wafa – NCDOT Bridge Maintenance Unit
Michael Summers – NCDOT Bridge Maintenance Unit
Jerry Carter – Vaughn & Melton
David Peterson – RK&K
David Simpson – Simpson Engineers
Tim Rountree – LPA
Domenic Coletti – HDR
Rodney E. Money – T.Y. Lin International

Bridge Design Workshop Series

Domenic Coletti indicated that the results of the LRFD Bridge Foundation Design workshop were positive. The next workshop may target LRFD prestressed superstructure design. The proposed timeframe for the next workshop is September/October.

LRFD Joint Training

A one day LRFD substructure seminar is scheduled for July 9, 2008. Reggie Holt, with FHWA, has prepared a presentation that includes design examples of a hammerhead pier and a multi-column pier. The day long seminar will be held at the Wake Commons building.

Structure Policy Memos

Allen Raynor indicated that two new policy memos have been issued.

- Initial Girder Rating
 - Girders shall be rated following the LRFR provisions from AASHTO.
 - Standard drawings of summary tables are available.
 - Allen provided a list of legal loads for North Carolina bridges.
- Sub-Regional Tier Bridge Approach Slabs and Approach Fills
 - Guidelines should be followed for use with sub-regional tier bridges.
 - Standard drawing for approach slab is available.

Anticipated Advertisements/Workload

Lonnie Brooks identified the following projects as potential advertisements for PEFs.

- R-4047 (NC 209 at Lake Junaluska)
 - Project has been delayed.
 - Railroad underpass advertisement unknown.

- I-3819 (I-40/I-77 Interchange)
 - Project may be scaled down and constructed in phases
 - Initial phase may contain only necessary movements and include grade separations.
 - Advertisement unknown.

Technical Discussion

- Bicycle Rail Height Requirement
 - 54-inch two bar metal rails are required when bicycles are allowed.
 - Sub-Regional Tier designs for a total bridge length of less than 100-feet may allow a 42-inch flat face parapet with no metal rail.
 - Sidewalks do not accommodate bicycles.

Next Year Subcommittee

Peter Graf volunteered to co-chair the subcommittee and David Simpson volunteered to coordinate the Bridge Workshops. Individuals that have expressed interest in volunteering for the subcommittee have been placed on a waiting list. Those who have not served on the subcommittee before will be considered first.

Following the meeting, it was decided that Dave Charters, with PBQ&D, and Jim Barcomb, with URS, will serve as the new members for 2008/2009.

Other Topics

North Carolina DOT employees have new email addresses. The new email address will be First Initial, Last Name @ncdot.gov.

Meeting Schedule

The next meeting is tentatively scheduled for Monday, August 4, 2008 at 10:30am in the Structure Design Conference Room B.