

# ACEC-DOT BRIDGE SUBCOMMITTEE

Minutes of November 1, 2004 Meeting

## **Attendees:**

Greg Perfetti, NCDOT (Co-Chair)  
Allen Raynor, NCDOT  
Lonnie Brooks, NCDOT  
Tim Rountree, RWA  
Tom Tallman, WSA  
Chris Glass, McKim and Creed (Co-Chair)  
Kevin Austin, BHME  
David Ruggles, Stewart Engineering  
Eddie Wetherill, Wetherill & Associates

## **I. Joint Training Opportunities**

There is a seminar scheduled at the McKimmon Center on 11/17/04. The seminar is being conducted by the Georgia/C Carolinas chapter of PCI and is titled PCI Bridge Design Manual Seminar. Registration for the seminar is available on the PCI web site [www.gcpci.org](http://www.gcpci.org).

Allen also mentioned that FHWA was continuing to develop several LRFD related courses (through NHI). The target date for those courses is now spring of 05.

## **II. Bridge Policy Changes**

Allen stated that there were several policy memos' that had been issued since the last meeting:

**Cored Slab Top Down Construction** – Requires plan notes indicating HS 25 design capacity when top down construction is to be used.

**Bond Breaking Tape on Cored Slabs** – Eliminates use of bond breaker tape over joints in cored slab bridges with asphalt overlays. Joints will be detailed with joint sealer material over a backer rod in the joint and then paved over.

**FHWA Oversight Submittal Policy** – The policy updates the procedures for submittal of plans to the FHWA. This policy is primarily an internal memo.

**Design Guidelines for Box Beams** – New guidelines have been posted on the web site. Box beams shall be 36” wide and have depths of 27”, 36” or 39”.

**Grout Cans for Elastomeric Bearings** – Requires grout cans to be detailed to accommodate anchor bolt placement for steel spans greater than 120’ when steel girders are used.

**Lump Sum Projects with Drilled Piers** – Eliminates additional payment for steel required in the construction of drilled piers as the cost should be incidental to the liner foot price for piers.

**Web Splitting in Bulb-Tee Girders** – To mitigate web splitting on bulb tees with draped strands, de-bonding is to be in accordance with Article 1078-12 of the Standard Specifications. The policy requires that de-bonding patterns be detailed on the plans.

**Evazote Joint Seals** – Requires sawed joints to be detailed with elastomeric concrete starting with the October 04 letting.

**Bearing Stiffener/Connector Plate** – If the bearing stiffener is used as a connector plate and extends outside the bottom flange, coping of the plate should be used to avoid conflict with anchor bolts.

**Slope Protection Elevations** – Requires that toe of slope elevations be shown on the slope protection details sheet.

**PVC Pipe Drains in End Bent Caps**– Pipe drains through end bent caps are to be eliminated.

All of these memos are available on the Structure Design Web Page at:

<http://www.doh.dot.state.nc.us/preconstruct/highway/structur/polmemo/oldmemo.htm>

### **III. Design Build Unit and Status of upcoming Design-Bid-Build/Design-Build**

Design build Information is available on the Project services Unit Web page at:

[http://www.doh.dot.state.nc.us/preconstruct/highway/dsn\\_srvc/contracts/design\\_build/](http://www.doh.dot.state.nc.us/preconstruct/highway/dsn_srvc/contracts/design_build/)

As far as Design/Bid/Build projects, one project has been advertised with letters of interest due November 2<sup>nd</sup>. Six additional projects are to be advertised over the next year with a total of 28 bridges.

#### **IV. Microstation V8 Implementation**

The structure design unit is now training on microstation V8. This will be the first unit in the DOT to convert over to V8. Once training and conversion of existing files is completed, Structure Design will start requesting files in V8. Conversion is estimated to be completed within the next 6 months.

#### **V. Next Meeting**

The next bridge subcommittee meeting will be on **Monday February 7, 2004** at 9:00 a.m. in Structure Design Conference Room B