

MINUTES OF DOT-AGC BRIDGE DESIGN SUBCOMMITTEE MEETING

The DOT-AGC Joint Bridge Design Subcommittee met on November 28th 2001. Those in attendance were:

Berry Jenkins	Manager of Highway Heavy Division, Carolinas Branch AGC (Co-Chairman)
Richard Holshouser	Sanford Construction Company
Ron Shaw	Lee Construction Company of Carolinas
Michael Dane	Dane Construction, Inc.
Kevin Burns	R. E. Burns & Sons Co.
Ron Hancock	Area Bridge Construction Engineer
Greg Perfetti	Assistant State Bridge Design Engineer
Paul Lambert	Structure Design Project Engineer
Tom Koch	Structure Design Project Engineer
Mohammed Mulla	State Soils and Foundations Engineer
Chris Kreider	Soils and Foundations Engineer
Nilesh Surti	Soils and Foundations Engineer

The following items of business were discussed:

1. The minutes of the September 26, 2001 meeting were accepted.
2. *Standard Shoring Design Update*

Mr. Surti distributed the final package of standard shoring to be used as temporary shoring for the maintenance of traffic. The package consisted of a standard drawing, notes, special provision, standard special provision and a shoring selection form. The new special provision and standard special provision have been included with contracts let in the December 2001 letting.

Mr. Hancock stated that he would ask the Area Bridge Engineers to alert the Contractors to the provision changes at Preconstruction Conferences.

3. *Shear Stud Update*

Mr. Jenkins gave an update on AGC's efforts to relax the recent Federal OSHA policy change requiring shear studs to be field welded. Mr. Jenkins passed out a proposed NC OSHA amended rule, drafted by an attorney for the Department of Labor, which would allow the use of shop welded shear studs but would reduce the height from where fall protection is required to 6 feet.

Mr. Hancock stated that he would follow up with Bob Andrews of Safety and pursue acquisition of written authorization to allow proceeding with shop welded studs.

4. *Precast Box Culverts*

Mr. Perfetti discussed a proposed revision to the Department's policy for Precast Box Culverts. Due to problems with fit-up of the precast segments and settlement of the boxes, the policy will limit the use of the precast option to Divisions 5, 7 and 9-14. In addition, the policy will now specify:

- A 5" concrete leveling pad to be placed on top of the Foundation Conditioning material
- Cast in place wings ---- precast wings will not be allowed.
- The precast segments are to be jacked together. The jacking method is to be proposed by the Contractor.
- Transverse joints are to be wrapped with 9" sealer wrap, then filter fabric.

Mr. Perfetti asked the contractors for their thoughts on shortening contract times, should they opt to construct the precast culvert. The contractors were in agreement that this was not feasible as culvert construction was typically incidental to other project construction operations.

This policy will affect projects in the January 2002 letting. The Department committed to advising fabricators of these new guidelines, and to encourage them to develop some improved details and construction techniques.

5. *Other*

i. Pile hammer submittals

Mr. Mulla stated that Soils and Foundation were going to institute a policy allowing no more than 2 hammers per bridge to be submitted for approval. Also, Contractors need to allow 30 days approval, although in certain emergency situations Soils will try to give approval in as little as a week.

ii. Test Cylinder storage

Mr. Burns stated that there have been problems with concrete test cylinders being damaged on the job site, and request that the specification address the building of a "curing box" on the site for holding the cylinders. Mr. Hancock agreed that this was a problem and will work on adding instructions for cylinder protection and storage to the specifications.

iii. Submittal for Miscellaneous steel items

Mr. Lambert stated that suppliers have requested that they not be required to make formal shop drawing submittals for tie rods and sole plates.

iv. Next meeting

The next meeting is scheduled for January 23rd at 10:00 am in the Structure Design Unit Conference Room C.

