

NC DOT / PCI Meeting Minutes

June 21, 2006

Attendees – See Attached List

Presentation - There was not a presentation at this meeting.

Technical Committee Meeting – The minutes from the April 11th, 2006 Technical Committee Meeting were distributed.

Accelerated Construction Workshop - Everyone was reminded of the joint PCI / NC DOT Accelerated Construction Workshop being held at the McKimmon Center on the NCSU Campus on October 31st.

Florida Bulb-Tees - It was noted that the 78-inch Florida Bulb-Tees are a cost-effective shape for many locations, especially over the Intracoastal Waterway. With this shape a fender system may not be required since span lengths may put the bents outside of the navigable channel.

Precast Deck Slabs - The Martin County project with full depth precast deck panel will be let in August. The details were hashed out with considerable input from the industry. The precaster will be required to be PCI certified. There will be no calcium nitrite in the concrete and no special curing requirements. Match marking of the slabs will be required on the precaster's yard prior to shipment.

Web Splitting - There were still some questions about the Department's Special Provision for Web Splitting in the end of girders. Structure Design agreed to take another look at the provision and possibly discuss it with the technical committee.

Detensioning Sequences for Girders - The industry asked if the detensioning sequences for girders could be standardized similar to what was done for cored slabs. Structure Design stated that, from a practical standpoint, there were just too many different strand patterns to do the same thing for girders. However, they agreed to explore putting one possible detensioning sequence for each girder strand pattern combination on the plans. If the producer chose to use the sequence, no submittal was required. If the producer wanted to use some other sequence, they must make a submittal as they do now. It was noted that a submittal will still be required for elongation calculations of draped strands.

Falsework Hangers On Bulb-Tee Girders - The NCSU research is complete and it has revealed the currently available falsework hangers used in bulb-tee girders have considerably less capacity than the manufacturers are claiming. As a result, Structure Design has revised the Falsework Special Provision to require closer spacing of the inserts and prohibiting use of the "2-leg" inserts.

2006 Specifications - Everyone was reminded that the new 2006 Specifications take effect with the July letting.

Precast Barrier Rail for Box Beams - Bridge Maintenance distributed a proposed detail for the connection of their precast barrier rail segments to box beams. They would like to get comments from the industry. Bridge Maintenance also indicated they will start epoxy coating the #8 bars that extent into the precast barrier rail segments on their exterior cored slabs

Stanly County Deck Girders - It was noted that the deck girders on the Stanley County project have developed a transverse crack near each end bent. It is felt this is due to negative moment forces and the ends of the girders being fully restrained. The bridge was designed with integral end bents.

Hauling Permit Issues - The industry indicated that progress has been made on this issue but there are still problems with permits for hauling multiple units.

General Discussion -

NCSU asked for a producer's help in casting two girders, a Type II and a Type III, each 30' long

It was noted that Colorado was building a project with curved tub girders.

Next Meeting - November 1st, 2006, M&T Conference Room at 9:00 AM.

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