

NC DOT –PCI Joint Committee Meeting
Thursday, March 21, 2013; 1:30 PM

Agenda

1. Attendance

Self-introductions were made – Attendees included the following:

Name	Organization	Email	Phone
Chris Peoples	NCDOT- MTU	cpeoples@ncdot.gov	919-329-4000
Jack Cowser	NCDOT – MTU	jcowser@ncdot.gov	919-329-4000
Trudy Mullins	NCDOT- MTU	tmullins@ncdot.gov	919-715-1746 x 201
Allen Raynor	NCDOT – SMU	araynor@ncdot.gov	919-707-6403
Brian Hanks	NCDOT – SMU	bhanks@ncdot.gov	919-707-6419
Jeff White	Prestress of the Carolinas	jeff.white@prestressofofc.com	704=309-4146
Peter I. Finsen	Georgia/Carolinas PCI	peter.finsen@gcpci.org	678-638-6220
Reid Castrodale	Castrodale Engineering Consultants	reid.castrodale@castrodaleengineering.com	704-904-7999
Richard Potts	Standard Concrete	rpotts@standardconcrete.org	912-233-8263
J. R. Parimuha	Florence Concrete	jrparimuha@yahoo.com	803-775-4372
Chip Harris	Utility Precast, Inc	utilityprecast@hotmail.com	704-721-0106
Gary Shrieves	Bayshore Concrete	gary.shrieves@skanska.com	757-331-2300 x 401
George Hiddemen	Bayshore Concrete	george.hiddemen@skanska.com	757-331-8837
Jason Moore	Tekna Corporation	jason.moore@teknaprecast.com	843-514-1091
Dyke Starnes	Insteel Wire Products	dstarnes@insteel.com	919-773-1121
Dean Hatley	Insteel Wire Products	dhatley@insteel.com	336-918-5003
Randy Plitt	Insteel Wire Products	iplitt@insteel.com	336-403-8602
Jimmy George	Insteel Wire Products	jgeorge@insteel.com	336-918-4729

2. Minutes of November 7, 2012 NCDOT-PCI Joint Committee Meeting

Minutes were approved after the following items of discussion:

Industry made a request for the Department to provide standard design plans on the web site in PDF format (in lieu of Microstation format) because Microstation documents are difficult for some producers to view. The Department replied that it would be a very tedious task to accomplish this, but producers can contact the Department if they need help with specific details.

The discussion then turned to dimensions of precast caps. The Department is trying to limit the weight of cap pieces to about the same weight as a 50 ft. cored slab.

Discussion also surrounded the 12 month Structures plans on the Department’s web site. It was not available for a period of time, but that seems to have been resolved.

The Bridge Design Seminar was also discussed, and Industry stated they would like to collaborate on that for November of this year, and that topics could be identified for the seminar.

Also discussed was the use of carbon fiber strand. The Department has selected NCSU to conduct a research project on the topic. Gary Shrieves mentioned that test piles with carbon strand have been produced as part of a VDOT project, but they may not be driven until September. The use of stainless steel strand was also briefly mentioned.

3. Technical Committee

A Technical Committee meeting was not held since the last meeting. It was recommended that the date for the next full committee be utilized for the Technical Committee. It was also decided to hold two Joint Committee meetings and one Technical Committee meeting each year (in lieu of the current 3 Joint Committee meetings per year). It was decided that March and October were good months to schedule these Joint Committee meetings. NCDOT Technical Committee participants would be Brian Hanks (and others as expertise is needed) and Trudy Mullins (Jack Cowsert as alternate). Peter Finsen and Jeff White will coordinate. The Technical Committee will typically limit the agenda to no more than 3 items, as determined by the Joint Committee, in an attempt to reach resolution on items prior to engaging new topics. An agenda will be distributed in advance of all meetings.

Topics for the next Technical Committee Meeting will be:

- Debonded Top Strands
- Draped Strand Process (stressing strands in the draped position)
- and possibly another issue that Industry will bring forward at a later time.

4. Old Business

a. State-Specific Certification – Trudy Mullins

Trudy has looked through the PCI-Illinois DOT document, and is trying to contact Dean Frank (PCI) to discuss. Trudy would like for the Department to be notified of the PCI audit results. Peter suggested the Department develop a bulleted list of points for discussion to share with Dean (and Peter) prior to a telephone conversation. The Department will gather information on how audits from other industry groups (NPCA, NRMCA, etc.) are handled and will include in the communication with Dean. It was suggested that it would be helpful if Dean could get the list in the next few weeks so it could be discussed at PCI Committee Days.

b. Other

Detensioning sequences – Trudy suggested that detensioning sequences could be submitted by Producers on commonly used strand patterns for approval as a standard, and not submitted for individual projects. Industry inquired whether a process can be submitted describing the symmetrical sequence but not name individual strands.

Question arose about the results of research on camber prediction, and the Department responded that Structures Management is working with IT to implement the

recommendations of the research report. Producers were asked, that when camber is much less than predicted for the majority of the elements in a span, to communicate this with the inspector.

5. New Business

- a. Presentation - WWR (Insteel Wire Products)
Dyke Starnes made a presentation on welded wire reinforcement. Welded wire reinforcement can be produced with as small as a 2" on center spacing and with up to a 5/8" diameter wire. AASHTO LRFD allows design using a strength of 75 ksi, which is the strength for WWR (ACI 318 allows use of 80 ksi). Benefits include faster production, less supervision, less inspection and results in lower cost. The Department stated the Welded Wire Reinforcement has been utilized in NC, although it does require approval, and is not the standard practice.
- b. Top Strand Location – discussed at February 21, 2013 PCEF Committee Meeting
The issue is the top strand location, and Georgia DOT was fine with that change. Industry wants to limit draped strands at the end of the beam to be no higher than 8" from the top of the beam.
- c. PCI items - Publications (Precast Pavements)
G/C PCI previously indicated they would provide the Department with 4 copies of the new PCI "State of the Art Report, on Precast Pavements". Recently, however, PCI has secured funding through FHWA for copies to be distributed (through FHWA state offices) to each State DOT. It was requested that Industry let the Department know when that happens. Chris will send a message to Brad Hibbs to remind him to be on alert for these documents.
- d. PCI Convention and National Bridge Conference
The industry will invite and sponsor up to four participants again this year. The Convention will be held at the Gaylord Texan in Grapevine, TX from September 21 – 24 2013.
- e. Other
Embedded end plate (Bearing Plate) – The Department stated that we were fine with modifications discussed at the PCEF meeting, toward standardization among the 3 states. Industry requested eliminating the bevel on NC's standard, and the Department agreed with eliminating the bevel.

6. Project Update

The following projects are planned in the near future:

- I-3802A, Design-Build I-85 in Cabarrus County (includes many bridges) - September award.
- U2579B in Winston-Salem Northern Beltway Oct 2014 let
- Greensboro - U2525B, I-840 extension to US29 – May 2014 let

- I5110 (along with R-2413A/B) ties into I-73, there is also a taxiway bridge (GWO Airport) over a highway.
- U-0071 Durham Freeway connector
- ARRA Rail Division are coming up with 10 to 12 grade separations of highway over rail starting this month through next year. ARRA money must be spent by 2017.

Question was asked if the Department might consider precast curved U girders in lieu of steel, but the Department has not made a decision. A presentation on these was suggested as a possible topic for the planned seminar.

7. Future Meetings

- Technical Committee Meeting - July 18, 2013 (1:30 PM)
NCDOT-PCI Joint Committee Meeting - October 17, 2013 (1:30 PM)

8. Adjournment – meeting was adjourned by consensus at 3:40 PM