

NCDOT - G/C PCI Joint Meeting

Wednesday, March 12, 2014; 1:30pm

Draft Minutes

1. Self-introductions were made.

Chris Peoples	NCDOT – MTU	cpeoples@ncdot.gov
Peter Finsen	G/C PCI	peter.finsen@gcpci.org
Brian Hanks	NCDOT – SMU	bhanks@ncdot.gov
Tom Koch	NCDOT – SMU	tkoch@ncdot.gov
Trudy Mullins	NCDOT – MTU	tmullins@ncdot.gov
Darren Scott	NCDOT – MTU	dscott@ncdot.gov
Jeff White	Prestress of the Carolinas	jeff.white@prestresotc.com
Ken Foster	Utility Precast, Inc.	kenfoster@outlook.com
Reid Castrodale	Castrodale Engineering / G/C PCI	reid.castrodale@castrodaleengineering.com
Gary Shrieves	Bayshore Concrete Products	gary.shrieves@skanska.com
Richard Potts	Standard Concrete Products	rpotts@standardconcrete.org
Andy Circlis	Utility Precast, Inc.	andrewupi@yahoo.com
JR Parimua	Florence Concrete Products	jrparimua@yahoo.com
Shannon Burns	NCDOT – MTU	Srburns1@ncdot.gov

It was announced that Brian Hanks is now serving as Assistant State Structures Engineer – Program & Policy (position formerly held by Alan Raynor). Dan Muller is now in Brian's former position (Project Engineer – Policy Development). Brian Hanks and Tim Sherrill (Project Engineer – Preservation & Repair) will no longer be handling NCRs – a replacement will be named. Gichuru Muchane is now Project Engineer – Analysis & Permits, and should be able to assist with permitting issues.

2. Approval of Minutes - November 21, 2013 Meeting - The minutes were approved as distributed.

3. Technical Committee Report

The items listed below were placed on the agenda for the next Technical Committee Meeting, to be held July 17, 2014. It was suggested that Darren Scott and Trudy Mullins represent MTU; and Dan Muller and Paul Lambert represent SMU on the Technical Committee, at a minimum. Industry agreed to prepare and distribute presentations and proposals on topics before the next technical committee meeting for discussion at the meeting.

- a. Stressing strands in draped position
- b. Debonding top stands
 - Area BCEs and AGC members need to be educated on this concept and its use.
 - Need to collect notes and details.
- c. Deeper girder sections (PCEF/FIB)
 - NCDOT indicated that it may be possible to get approval to haul deeper girder to address 150ft+ spans.

4. Old Business

a. *Plant Inspections*

PCI indicated a willingness to allow PCI's 3rd party inspectors (Ross Bryan Associates) and NCDOT inspectors to communicate (debrief) at the plant following the semi-annual PCI unannounced inspections.

The intent of such meetings would be to identify items of interest to NCDOT that could be added to the PCI inspections as state-specific items.

PCI has agreed to work out a process to alert NCDOT (Trudy) when PCI inspectors will be at a specific plant through Dean Frank (PCI Director of Quality Programs). NCDOT was fine with receiving last-minute notice of plant inspections. Chris thinks that unannounced audits are best.

b. Top Strand Debonding

To be discussed at Technical Committee Meeting.

It was noted that top strands were added by the design/build team to girders on the Washington Bypass after girders experienced cracking.

c. Standard Elongation and Detensioning Sequences

During discussion of the minutes of the last meeting, Trudy mentioned that elongation calculations could be provided for inspectors to see as reference, but that these submittals are not for review. She also clarified that detensioning sequences for typical strand patterns could be submitted for one time approval to expedite the process. Several producers reported that they had submitted packages of detensioning sequences, but had not received notice of approval. Trudy agreed to speak with Paul Lambert to clarify handling of these submittals.

5. New Business

a. Bearing Plates on Bulb Tee Girders

There was a discussion on the length of plates and how to position.

The PCEF Committee has been working on standard details between 3 states. Industry has prepared a sheet to circulate between the states, to solicit feedback.

b. Cored Slabs - Exterior Slabs Rolling

Darren Scott indicated that he was advised of this issue from engineers in the field. He will work with BCEs to get more details on the issues seen in the field with exterior slab rolling (what are the causes, how are slabs cast, is the PVC tube in the right location?).

The problem has not been noted on box beam bridges, possibly because they use top & bottom strands.

c. Proposed Bridge Design Seminar - Topics & date TBD

Brian Hanks & Peter Finsen will work together on topics that would be of interest to draw people to the seminar. There are lots of new engineers in the Department, thus a need for some basic topics. Possible partners include ACEC, AGC, FHWA. Possible topics include: virtual plant tours, case studies, how are girders made, draped strands, rolling of cored slabs.

Look at early November for possible date. Need to get on calendar for McKimmon Center.

d. Details for Cored Slab Rebar and Standard Lengths

Ken Foster raised the issue of seeing different bar extensions for the barrier bars on different plans – some are 1'-11" and others are 2'-0". Ken suggested it would be helpful to standardize the extension. Brian Hanks thinks that consultants are changing the bars. Original standards for 24" deep cored slabs had longer bars than the 21" cored slabs, but it appears that engineers are mixing them. Prestressers may submit a change for bar extensions for a project if desired. Brian Hanks will check the standards.

Brian Hanks mentioned that cored slab standards show lengths in 5 ft increments. However, for design/build projects, the contractor is paid for the bridge length shown, so cored slabs are being detailed to the actual length. He has brought this up with AGC, encouraging them to use the standard 5 ft increments, but has not been successful, since it is a contracting issue. Brian suggested that prestressers encourage contractors to use the standard lengths if it would be to their benefit.

6. Project Updates

- a. R-3307 US 70 over Gallant's Channel-awarded – with spliced girder unit (January letting)
- b. R-2633 BB-Wilmington-awarded – with spliced girder unit (September letting)
- c. R-2633 BA-Wilmington-awarded
- d. U-71 Durham County, scissor bridge (September letting, d/b/b)
- e. U-2525B Greensboro project (May or June letting, d/b/b)
- f. U-2579 Winston Salem (October letting, large job)
- g. U-2519 CB Fayetteville (August)
Bonner Bridge – appeal hearing is set for May

7. Other Topics

- a. A Technoquest on Curved Prestressed U-girders is being planned for June/July time frame in Orlando – Peter will get details from William Nickas at PCI and send to Chris and Greg.
- b. PCI Annual Convention and National Bridge Conference, September 6-9, 2014, in Washington, DC. G/C PCI will continue to sponsor DOT attendees, although it may be limited this year due to budget constraints. Chris will discuss potential attendees with Greg and Kevin.

8. Action Items

- a. Date and topics for proposed Bridge Design Seminar – Peter and Brian
- b. Reid to lead the effort to put together information for NCDOT on the 3 topics for the Technical Committee Meeting. (NCDOT does not need to co-chair, but Dan Muller would be one to help.)
- c. Darren to report on investigation of rolling of cored slabs. NCDOT may distribute minutes from Structures Workshop which would contain discussion of the topic, or provide summary of the discussion.

9. Future Meetings

- a. Technical Committee – July 17, 2014 (1:30 pm) at NCDOT, Structure Management
- b. NCDOT – PCI Joint Committee – November 20, 2014 (1:30 pm) at NCDOT, Materials & Tests

10. Meeting Adjourned - 3:05pm