

ACEC/NCDOT
STRUCTURES SUBCOMMITTEE

Structures Conference Room C
November 3, 2025, 10:30 PM

MEETING AGENDA

1) Attendees

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|--------------------|---|
| a) David Snoke | h) Emily Murray - Volkert |
| b) Gichuru Muchane | i) Paul Jacob (for Jeff Loftus) – McAdams |
| c) Trey Carroll | j) Tony Laws – RS&H |
| d) David Stutts | k) Joshua Gentry – RK&K |
| e) Hoang Dieu | l) Ani Vasudevan (for Greg Cols) - AECOM |
| f) Jeremy McCartha | m) David Ragan – H&H |
| g) Nick Pierce | |

2) Meeting Kick-off

- a) Previously approved minutes were published and available on ACEC website
- b) Subcommittee Updates
 - i) Jeremy McCartha has been promoted to PEF Coordination Team Lead (formerly held by Tierre Peterson)

3) Bridge Design Workshop Series

- a) Review Bridge Design Workshop tracking spreadsheet
 - i) Held the Hurricane Helene Recovery Update on October 15, 2025.
Many thanks to Adam, Aaron, and Kristy for a great presentation.
- b) Update current potential topics and add new potential topics
- c) Identify next workshop to schedule
 - i) Next workshop will be Bridge Rehabilitation and Repair in January 2026. Emily will reach out to ACEC for McKimmon Center dates.
 - Ideas include discussion of draft manual, funding sources, common repairs and general practices, virtual field trip
 - ii) Discuss potential candidates for next topics
 - Alligator River Bridge Replacement (Summer 2026)
Possible topics include project overview, pile operations, large girders.
 - NCDOT Standard Cored Slab, Box Beams, and In-Kind Timber Bridge. These topics could be combined for a workshop or other presentation. NCDOT to consider timing of presenting In-Kind Timber Bridge material as it may be a good topic to address soon.
 - Timber bridge standards not intended for superlevation and not intended to have

guardrail on bridge.

- Items of interest from cored slab/box beam standard design criteria include a summary of assumptions for items such as distribution factors, prestress losses.

4) **Training/Professional Development Opportunities**

- a) PCI Bridge Forum identified for Spring 2026
 - i) Set target date for event (Tentative May 5)
 - ii) Coordinate with Marti Harrell of Georgia/Carolinas PCI
 - Topic Ideas include Helene updates from fabricators, Girder stability, Web splitting in FIBS
- b) Other training opportunities
 - i) NCLUG SMU Training on PGD development was excellent. The PowerPoint slide deck is available from Nick Pierce.
 - ii) NCDOT is looking at ways to offer recorded training across disciplines in the future – possibly via YouTube.
 - iii) Technical Services has issued a Request for Pilot Projects for Construction-Ready Electronic Files and 3D Review. SMU also has pilot project for digital delivery trials. Reach out to Nick and James Hawk with any questions.

5) **Anticipated PEF Opportunities**

- a) Updates from SMU- anticipate that SMU will advertise next summer. Will still have planning and design component. Using firms for GESC plan review. Can contact Jeremy or David Stutts to participate.
- b) Helene bridge replacement update – no updates.
- c) Other opportunities – no updates.

6) **Technical Topics**

- a) Recent revisions to manuals, standards, etc. - New PSP for Cored Slab and Box Beam Post Tensioning Dated 8-25-25 addresses requirements for calibration of equipment and tensioning force.
- b) Upcoming revisions to manuals, standards, etc. Integral end-bent design manual revision is still pending.
- c) Digital Delivery, OBD/Open X, and ProjectWise implementation – there will be a new workspace implemented when NCDOT switches to the next version of Open X. The update will implement line styles and eliminate roles. Per the October 2023 memo from the Chiefs office, firms should be placing deliverables on the NCDOT PW server. Some firms are doing project work on NCDOT PW.
- d) Research project updates – NCSU FRP about to finish.

7) **Open Discussion/Other Topics**

- Hot topics – SMU is addressing the following topics regularly:

- timber bridge standards
- cored slab/box beam post-tensioning memo
- integral end bents
- Structures QA/QC – QA part is reserved for the reviewer. Design firm should only post the QC checklist.

8) **Next Subcommittee Meeting:**

- a) February 2nd, 2026