

ACEC Transportation Committee Meeting Minutes

Monday May 20, 2019 | 3:00 PM | NC Rural Center | Raleigh, North Carolina

1. Welcome and Opening Remarks - Jason Peterson
 - Sponsors: No sponsors this month
 - New chair and vice chairs will start on July 1
2. TAB Meeting Update - Liz Phipps: Meeting held on May 13th
 - 2019 Joint Conference October 28 and 29. FAR training is possible the morning of October 28.
 - SB605 to request transfer from GA's rainy-day fund
 - NCDOT is starting task force for innovative funding and looking for nominees from the industry to be a part.
 - PM training was held in March and included embedded staff.
 - Consultant Rate System (CRS) is operational. Firms will input rates on anniversary date. Will be utilized for the Eastern on-calls
 - "Effective Use of Personnel" memo for CEI discussed. NCDOT to pay attention to on-site staff and to not overstaff projects.
3. UPDATE: NCDOT Preconstruction/Cash Balance
 - Governor Cooper signed Senate Bill 605 on May 16th. This Bill directs the State Controller to transfer \$90 million dollars to NCDOT to reimburse the Department for funds they expended on storm recovery last year. This is a temporary loan until Federal reimbursement for storm damage is received. These funds will immediately lift the Department's cash balance.
 - Council of State voted unanimously to sell \$300 million of "Build NC" bonds this year. This is the first installment of the \$ 3 billion bond package approved by the General Assembly last year. Current plans are to offer \$300 million of bonds for sale in June (fiscal year 2018/2019) and another \$300 million in bonds will be offered for sale later in the year (FY 19/20). (The June bond package identifies \$345 million in projects to allow the Department flexibility in letting in the event some projects encounter delays in the preconstruction process.) The bonds will be offered in June and indications are there is a high demand from investors for these types of bonds.
 - The State Treasurer announced the pending sale of \$600 million in additional "GARVEE" Bonds to go towards federally funded projects. That sale should be complete by the end of May.
 - In summary, the Department is receiving an influx of nearly \$1 billion dollars into their cash balance fund for projects within the next 60 days. In addition, ACEC has been notified by the Department that there is no planned slow-down in their preconstruction program at this time - Good news for our member firms. Recent actions and activities do not portend a slow-down in the preconstruction activities that impact a significant portion of our membership. While some project lettings have been delayed, which may impact some CEI activities, overall, the NCDOT program is strong.

4. Subcommittee Reports

Design Build: Scott Boyles - Meeting held May 7th (See Minutes Attached)

- Updated DB list published (subject to change)
- Ron McCullum to return to the design build unit as deputy director.
- Discussed Cash Balance.
- Discussed revisions to RFP criteria, rearrange bullets. Asked Transportation Committee to provide input.
- Discussed recent changes to the RFP language for sound barriers. New task force with AGC to discuss how to manage the risk and wall changes post award
- Discussed stipends. NCDOT requested input from the industry to outline changes/requirements as DB projects have evolved from the initial program. What is causing the need for additional stipend?
- Next Meeting scheduled for August 6th.

Project Delivery: Tom Goodwin - Meeting held May 2nd (See Minutes Attached)

- Ron Hancock reported NCDOT was throttling down on spending. Projects with right of way 2026 and beyond will be delayed. Projects post 2026 that have started will be brought to a logic termini and stopped.
- PSMU – LSA Master list has been updated
- Technical Services – PSMU and Utilities have been moved to Technical Services.
- Updates and improvements to CE process
- Integrated Project Delivery
- Identified 124 opportunities for improvement
- Consultant Evaluation Process – New process will be 5 point scale and will be electronic. IT working on the platform
- Consultant Rate Schedule – Utilization underway. New language in the contracts to tie to the consultant rate schedule
- Microsoft project training upcoming. All project to utilize in the future. Also experimenting with Projectwise. Six pilot projects underway
- Updates coming to Roadway Design Manual
- Open Roads – No timeframe for full implementation, more pilot projects forthcoming
- Next Meeting August

Construction & Materials: Jeff Thatcher - Meeting Held April 17th (See Minutes Attached)

- NICET training, reciprocate with other states. Will not replace specification based learning
- Nuclear gauges issued to firms for NCDOT projects
- Discussed revised tools of the trade list
- CEI guidelines revisions delayed
- Freeze CEI hiring for remainder of 2019
- Uniformity between Division especially RE's and ARE's
- Discussed technician rates and rates for TE's if below the minimum
- Did not discuss the "effective use of staff" memo
- Next Meeting July

Structures: Josh Taylor - Meeting Held May 6th (See Minutes Attached)

- Bridge Design Workshops
- Staged construction process (Later in 2019)
- Bridge Forum date tentatively set for October 3rd
- PEF Opportunities:
 - 2023 projects have been scoped,
 - 2024 projects about 25 to be pre-screened this summer
- Discussion:
 - Manual revisions not for 3-4 months
 - Research on crash testing for 2 bar rail, corrosion, moment slabs, tapered wing walls
 - Use of temporary bridges discussion
 - Coordination with Area Construction Engineers – submit BSR's directly
 - Coordination of aesthetic components early
- Next Meeting August 5th

Joint Conference: Craig Hyman

- Next Conference October 28-29
- Capped at 1200

5. Other Business: Jason Peterson/Jim Smith

- Legislative Update
- Electric car fees
 - SB 605 – loan from rainy day fund (\$300M)
 - Indemnification and hold harmless – no insurance for it. HB 871
- IT advisory board – looking for 2 people to serve with NCDOT staffers
- STIP delayed until September
- Open Discussion

Next Meeting: August 12, 2019 | NC Rural Center

MEETING SIGN-IN SHEET

ACEC/NC TRANSPORTATION COMMITTEE MEETING

Monday May 20th, 2019 at 3:00 PM

Rural Center

Raleigh, North Carolina

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DESIGN-BUILD

NCDOT/ACEC-NC/CAGC DESIGN-BUILD JOINT COMMITTEE – Meeting Minutes

Date: May 7, 2019 at 9:30 AM
Location: NCDOT – Century Center, Building A,
Structures Conference Room C, 1020 Birch Ridge Drive, Raleigh, NC 27610
Attendees: See Meeting Attendee List

- I. Welcome and Introductions (Teresa)
 1. Teresa began meeting with welcome and introductions.
 2. Barry announced Victor Barbour will be replacing his role as a result of his retirement.
- II. NCDOT / NCTA Items (Teresa / Rodger)
 1. NCTA Updates.
 - a. Rodger summarized the NCTA anticipated projects listed in the attached Anticipated Design Build Project List dated May 7, 2019.
 - b. Rodger announced JJ Eden is the Executive Director for the NCTA.
 - c. Teresa notified committee that Ron McCullum has rejoined the DB Unit.
 - d. Lamar provided a brief update on the budget and bond status.
 - e. Barry Jenkins noted the current issue of “Duty to Defend” clause in municipal agreements. This does not affect NCDOT agreements, but Barry wanted the committee to be aware of the terms between the engineering firm and the contractor.
- III. Upcoming Design-Build Projects (Anticipated DB List) (Teresa)
 1. For meeting updates, see the attached Anticipated Design Build Project List dated May 7, 2019
 2. Some highlighted notes by Teresa and Lamar were the letting list and project schedules were still “changing and moving”.
- IV. Carolina AGC Items (Berry)
 1. Price Proposal Due date vs Tech Proposal Due date – Change in guidelines
 - a. Members requested the “DB Guidelines” be updated to include the submittals of the proposal due date and the price/bid proposal due date.
 - b. Teresa acknowledged the “DB Guidelines” need to be overhauled. She offered the dates be defined on a project per project basis.
 2. Updated RFP sections – See Exhibit No. 1 below.
 - a. Changes presented were generally accepted. DB Unit will consider the changes and report on decisions.
 - b. Teresa questioned if the 2nd red bullet should be moved to the MOT section.
 - c. Teresa asked if the ACEC members were notified. Action item for Scott was to distribute an email to the ACEC transportation committee for input to these changes.
 - d. A comment was made to include “Temporary Shoring” in the MOT section.
 - e. A comment was made questioning the requirement in the Management section of listing projects. DB unit response is the Divisions and DB unit desire more specific details of project listing scope.
 3. Use of law enforcement - costly vs safety.
 - a. Item was discussed as a result from a DB project debrief that stated the contractor did not need law enforcement for the project. The cost was included in the bid for safety. Does this remark from the debrief effect the technical score?

- Lamar responded that NCDOT should not be impede safety. Lamar will check the details of this items and report back to the committee.
4. Borrow pits and local zoning or ordinances issues.
 - a. Item was not applicable to the DB Joint Committee and not discussed.

V. ACEC Items

(Scott)

1. RFP language for Noise Walls.
 - a. RFP language for noise walls has been changing over the last year. The language that has been used on several recent RFPs including I-5507 (I-485), U-2719 (I-440), I-3819 (I-40/77) and R-2828 (NC 540) needs some additional clarity so that future RFPs address the intent of the language a little better.
 - b. The original issue that was presented for changing the language was that NCDOT did not want to have a public meeting to hold the noise wall balloting using a final DNR that really wasn't going to be final until the DB Teams were awarded the project and their design changes were incorporated. NCDOT often found themselves going back to the public to re-ballot the walls and the changes.
 - c. The new RFP language puts the full ownership of getting the DNR approval on the DB Teams. The difficulty in submitting a bid based on the TNR is that the changes between TNR and DNR are very often significant and this is a risk to the DB Teams. NCDOT's approach to dealing with the upside risk is to put a ceiling on the quantity. It appears the ceiling is set by including all the TNR square footage of "Potential walls" as well as the square footage of walls that were "Non-Recommended". In a competitive bid environment DB Teams aren't going to put a lot of additional money in the bid for "Non-Recommended" noise walls.
 - d. What is happening is as the noise analysis goes from the TNR to the DNR walls that were previously "Non-Recommended" are changing to "Reasonable" and additional noise walls are also being required based on new development. In some cases NCDOT is also changing the inputs such as Design Speed and % trucks. This obviously changes the output and creates a change condition.
 - e. The wording should be changed to bid the TNR "Reasonable" walls only. Any other walls that are required as part of the approved DNR would be paid for as a change order.
- a. Group had productive discussions on the recent impacts of Noise Walls and DB procurements and current contracts. Teresa noted the wall length provided in RFPs was to reduce the risk to the contractor. Teresa confirmed from Missy that the "Public Balloting" is the breakpoint for determining if walls will be constructed. Contractors are experiencing when changes are made to noise walls (i.e. walls added, walls moved, project limits extended, or change of criteria) the unit price per square foot in the RFP (\$40 or \$45) for extra work due to changes is not sufficient enough to capture all incidentals connected with change. (i.e. fill slope or cut slope conditions, soldier piles, paved shoulders, paved ditches, shoulder items).
- b. Action item for Scott is to schedule a "Noise Wall Workshop" with ACEC, AGC, and NCDOT representatives to discuss in further detail.

VI. Open Discussion / Ongoing Items

(Committee)

1. Stipend Status

- a. ACEC and AGC asked for an update to the "Report for Stipend Value Development and Comparisons" presented at the February 5 meeting.
- b. Teresa acknowledged the report and request further information before NCDOT will consider further.
- c. The following was requested:
 - List of factors that have impacted the design build teams from the date of first NCDOT Design Build project up to the present NCDOT and NCTA Design Build pursuits that would justify increasing the stipend amounts. These factors would be considered as the cost impacts in preparing the technical proposal and plans of the technical pursuit process.
- d. Action item was for Scott to solicit a list of factors from ACEC and AGC and submit to NCDOT for further consideration of stipend increase.

VII. Next Meeting

(Scott)

1. 2019-2020 Meeting Schedule:

August 6, 2019
November 5, 2019
February 4, 2020
May 5, 2020

VIII. Meeting Adjourn – 1115am



Exhibit No. 1

NCDOT DB RFP - Technical Proposal Section (Revision 4/29/19)

TECHNICAL PROPOSAL EVALUATION CRITERIA (RED bullets are changes (moved) to the section)

1. Management – X points

Design-Build Team Management

- Describe the Design-Build Team's concept of design management. The proposal shall identify key positions and subordinate organizational units.
- Describe how the various design disciplines will be coordinated, including how designs developed by different firms and offices will be integrated / consistent.
- Describe how design personnel will interface with the construction personnel.
- List projects, including description and similarity to the subject project, that the Design-Build Team's designer(s) have developed Intelligent Transportation System (ITS) Plans, Transportation Management Plans, Pavement Marking Plans, and Signing Plans.
- List projects, including description and similarity to the subject project, that the Design-Build Team's right of way firm has performed right of way acquisition services.
- Describe the Design-Build Team's concept of the project construction management organization and how it interrelates with the other elements of the Design-Build Team's organization for the project.
- Describe the approach that will be used to provide the NCDOT and the Public with construction related information
- Describe the work categories that the Design-Build Team anticipates will be performed by the Design-Build Team's own direct labor force and those categories that will be performed by subcontractors.

Quality Management – No Changes

~~Construction Management~~ – Deleted subsection because bullets moved to other sections

4. Schedule and Milestones – X Points

- Provide a brief narrative description of the Design-Build Team's proposed plan for performing construction on the project. This description shall include at least the following:
 - Indicate if, and how, the Design-Build Team intends to divide the project into work segments to enable optimum construction performance.
 - Describe the Design-Build Team's plans and procedures to ensure timely deliveries of materials to achieve.
- Provide a detailed schedule for the project including both design and construction activities. The schedule shall also show the sequence and continuity of operations.
- Indicate how the Design-Build Team will maintain the project schedule if the right of way acquisition process and/or utility relocations are delayed.
- Identify any self-imposed liquidated damages and associated Intermediate Contract Time(s), if applicable.

- The schedule shall also include the Design-Build Team's final completion date and, if proposed, their substantial completion date. These dates shall be clearly indicated on the Project Schedule and labeled "Final Completion Date" and "Substantial Completion Date".

6. Maintenance of Traffic and Safety Plan – X points

Maintenance of Traffic

- Provide a Transportation Management Phasing Concept (TMPC).
- Describe any traffic control requirements that will be used for each construction phase.
- Describe how traffic will be maintained as appropriate and describe the Design-Build Team's understanding of any time restrictions noted in the RFP.
- Specifically describe how business, school and residential access will be maintained, if applicable.
- **Describe the Design-Build Team's approach to site access and material staging.**
- Address how hauling will be conducted, including but not limited to, hauling of materials to and from the site and hauling of materials within NCDOT right of way.
- If a temporary portable barrier system will be utilized, provide the type and why it is needed.
- Include all proposed road closures, detour routes, justifications and durations.
- Address where and how law enforcement officers will be used.
- Identify a Traffic Control Supervisor and briefly describe their qualifications for this role.
- *Other RFPs have bullets that vary including ICT duration asks.....*

Safety Plan – No Changes

NCDOT / ACEC-NC / CAGC DESIGN-BUILD JOINT COMMITTEE
Anticipated Design-Build Projects
May 7, 2019

- **R-5829A & B** - US 70 from US 70 Bypass to east of SR 2314 (Pondfield Road) - Upgrade to freeway standards
 - Potential June 2019 Advertisement - Division asked to accelerate
 - Preliminary Construction Estimate - \$92 million
- **I-3306AB** - I-40 from NC 86 to Durham County Line
 - Pending funding availability, anticipated August 2019 Advertisement
 - May include ramp reconstruction at the NC 86 interchange
 - Preliminary Construction Estimate - \$46 million
- **R-5777C** - US 70 from Thurman Road to the Havelock Bypass - Upgrade to freeway standards - **Division 2**
 - Potential December 2019 Advertisement
 - Preliminary Construction Estimate - \$123 million
- **I-2513B** - New Route from north of SR 3548 (Haywood Road) to existing US 19 / US 23 / US 70
I-2513D - SR 1477 (Riverside Drive) from NC 251 / SR 1781 to I-40 SR 1231 (Hill Street)
 - Anticipated December 2019 Advertisement
 - May combine with all or a portion of I-2513A
 - Approximately 2.6 miles
 - Preliminary Construction Estimate - \$244 million - Probably low
- **I-2513C** - I-240 / I-40 / I-26 Interchange
I-2513A - I-240 from north of I-26 / I-40 split to north of SR 3548 (Haywood Road)
 - Currently FY 2025 Design-Build Let in the Draft STIP
 - Potential to accelerate as a Design-Build-Finance Project
 - May combine with all or a portion of I-2513A
 - Preliminary Construction Estimate - \$203 million - Probably low

- **R-2576** - Mid-Currituck Toll Bridge - **NCTA**
 - Based on 12-Month Let List, July 2019 Let Date - Schedule will be updated once details have been resolved - Potential to Advertise late 2019
 - Approximately 9.9 miles
 - Procurement Type to be Determined - Design-Build / Design-Build Maximum Cap / Design-Build Finance
 - Preliminary Construction Estimate - \$415 million

- **U-2509A** - Improvements to routes that parallel US 74 - Independence Pointe Parkway, Northeast Parkway, Arequipa Drive and Krefeld Drive
U-2509B - US 74 from NC 27 (Albemarle Road) to Idlewild Road - One managed lane in each direction
U-6103 - US 74 from I-277 to NC 27 (Albemarle Road) - One managed lane in each direction - **NCTA**
 - U-2509A, a **Design-Bid-Build Project**, will be partially completed / completed prior to U-2509B and U-6103 procurements - Possible May 2022 Let Date
 - U-2509B - Potential June 2023 Let Date
 - U-6103 - Potential January 2023 Let Date
 - U-2509B and U-6103 will more than likely be two separate Design-Build projects

- **I-5719** - I-85 from US 321 to NC 273 - Widen to eight lanes
U-3608 - NC 7 (North Main Street) from I-85 to US 29 / US 74
 - Anticipated June 2020 Advertisement
 - Preliminary Construction Estimate - \$219 Million

- **R-3410** - NC 42 from NC 50 to US 70 Business - Widen to multi-lanes - **Division 4??**
 - Anticipated July 2020 Advertisement
 - Approximately 8.6 miles
 - Preliminary Construction Estimate - \$49 Million

- **I-5703** - Reconstruct I-40 / I-440 / US 1 / US 64 Interchange
 - Anticipated January 2022 Advertisement (Previously April 2021 Advertisement)
 - Preliminary Construction Estimate - \$130 Million

- **U-5307** - US 1 from I-540 to south of NC 98 Bypass - Includes U-5307A, B & C
 - Anticipated 2022 Advertisement (Previously August 2020)
 - Preliminary Construction Estimate - \$270 Million

- **I-5718** - I-77 from I-485 (Exit 1) to I-27 / NC 16 (Brookshire Freeway) (Exit 11) - Add managed lanes - **NCTA**
 - Will be divided into multiple projects
 - Currently FY 2028 in Draft STIP - May be accelerated to FY 2025 if funds become available
 - Preliminary Construction Estimate - \$1.1 Million

- **I-5870** - I-440 / US 1 from west of Ridge Road to east of US 70 (Glenwood Avenue) - Construct new I-440 / US 1 / Ridge Road interchange to connect with Crabtree Valley Avenue - Realign I-440 / US 1 / US 70 (Glenwood Avenue) interchange - Realign and widen Crabtree Valley Avenue between SR 3009 (Edwards Mill Road) and Ridge Road
 - Currently FY 2025 Design-Build Let in the Draft STIP
 - Preliminary Construction Estimate - \$150 million

- **R-2247EA** - Winston-Salem Northern Beltway from NC 67 to south of US 52
 - Converted to Design-Bid-Build - Potential to revert back to Design-Build

NCDOT/ACEC-NC/CAGC Design-Build Joint Committee – Meeting Sign-in

May 7, 2019

Please initial your name if all correct. Provide updates as needed. If name not included, please add your information.			
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PROJECT DELIVERY

ACEC/NCDOT Transportation Delivery Subcommittee
May 2, 2019 Meeting Minutes
Chief Engineer's Conference Room, Raleigh, NC

Attendees:

Scott Cole (Co-Chair)	NCDOT Division 10
Ron Hancock	NCDOT Chief Engineer's Office
Michelle Long	NCDOT Chief Engineer's Office
Robert Stroup	NCDOT PSMU
Terry Farr	NCDOT PSMU
Terry Canales	NCDOT Technical Services
Brandon Jones	NCDOT Division 8
Bryan Edwards	NCDOT CADD Services
Tom Goodwin (Co-Chair)	Gannett Fleming
David Keiser	CDM Smith
Phillip Rogers	HDR
Tim Reid	Moffat & Nichol
Mike Lindgren	Stantec
Doug Taylor	Stewart Engineering
Reese Schuler	Vaughn & Melton
Greg Purvis	Wetherill Engineering

Phone:

Sterling Baker	NCDOT Division 1
Matt Clarke	NCDOT Division 4
Russell Broadwell	NCDOT Division 4
James Green	NCDOT Division 4
Ben Upshaw	NCDOT Division 5
Chris Smitherman	NCDOT Division 7
Jennifer Evans	NCDOT Division 7
Brett Abernathy	NCDOT Division 9
Tim Anderson	NCDOT Division 13

I. Welcome and Introductions

- Scott Cole welcomed the group to the Chief Engineer's Conference Room for the Quarterly Transportation Delivery Subcommittee Meeting.
- Everyone introduced themselves.

II. Review of the 02/07/2019 Transportation Delivery Subcommittee Meeting Minutes

- No comments were provided / recorded.

III. Legislative Update / Chief Engineer's Comments – Ron Hancock

- The House is looking at two additional funding sources
 - Transportation Network Privilege Tax (Uber / Lift Tax)
 - Annual registration fee for electric and hybrid vehicles, a little less than the average approximate gas tax paid per vehicle.
- The Senate and House are looking at bills to shift funds from the Rainy Day Fund to the help offset the \$300M spent in storm relief last year. The reimbursement from FEMA would replace the funds back to the Rainy Day Fund.

- There is a Federal funding bill being considered on the National level but no details are known at this time.
- The Council of State has approved the release of \$600M in Garvey Bonds for June
- Build NC Bonds for \$300M are expected to be released soon.
- The Draft STIP was anticipated to be approved in June. It has been delayed until September to allow time to adjust to bond sales and possible Rainy Day Fund
 - NCDOT is going to throttle back on Preliminary Engineering (PE) to approximately 65% - 75% of the current spending level.
 - Projects committed through 2025 in Draft 2020-2029 STIP will continue to move forward.
 - In General, PE under way for projects beyond 2025 will be brought to a logical point and shelved or placed on hold if it has not started. Projects may be addressed on a case by case basis.
 - The five year committed window is expected to be revised to six years, to 2025 as noted above.
 - Maintenance has been slowed due to the low cash balance.
 -

IV. “Master Plan” Update, Regional LSC/GESC’s – Robert Stroup

- The selection results for the Eastern Divisions On-Call is anticipated to be released by the end of May or first of June.
- The Central Planning & Design On-Call is anticipated to be advertised mid-February 2020. The RFLOI will be similar to the requirements of the 2018 Western Divisions and 2019 Eastern Divisions On-Call RFLOI.
- The format of the “Master Plan LSC’s” has been revised. There is an active sharepoint list on the Connect site which will be revised and kept up to date. It will replace the old pdf of the spreadsheet.

V. Technical Services Update – Terry Canales

- Technical Services has gained 2 additional units...PSMU with Robert Stroup and Utilities with Carl Barclay.
- Chris Werner is scheduled to return to the TS Director position next week but will continue to work with the new Turnpike Director for a few weeks as needed.
- J.J. Eden has been announced to be the new Turnpike Executive Director
- Some unit updates:
 - Jamie Lancaster is the new lead over Cultural Resources under EAU and he is currently looking at the processes for any improvement.
 - EPU is working with FHWA to update the CE Agreement to include areas that were not addressed in 2017 like maintenance and signal items. They are also updating the Merger Process and are now in the recommendation stage and departments are briefing their management (i.e. DEQ)

VI. Consultant Evaluation Process Update – Scott Cole for Brenda Moore

- Chris Werner has completed his review and the team is working to address his comments.
- The release of the finalized Policy and Form is on hold until conversations have been held with IT to determine a platform for the information to reside.
- The rating scale has been adjusted to 1-5 instead of 1-10

VII. Consultant Rate Schedule (CRS) – Michelle Long

- The CRS is up and going, with 35 firms in the process of inputting info.

- There are still a few bugs that are being worked out.
- There will be new contract language in the upcoming Roadside Environmental and Eastern Divisions On-Call Agreements that will reference the rate process.
- Initial entry will be in conjunction with Prequalification renewal. After initial entry, firms can choose a date to update that is conjunction with their annual salary adjustments.

VIII. Project Manager Training – Terry Canales

- In March NCDOT held the 2nd annual Preconstruction Workshop. During the workshop one of the main focuses was on IPD (Integrated Project Delivery).
- They are currently in Phase II (Phase I was to map out the current processes and see where there are disconnects, etc) and are hitting on 4 phases of project delivery: Planning, Environmental, Design, and Construction in this next update. The main initiative is to provide flexibility in the development of a project (i.e. not every project needs to be treated the same) and have consistency whether it is a centrally or division managed..
- To date, the committees in each of the 4 phases have come up with 124 opportunities for improvement. They will be looking at evaluating each opportunity and prioritizing them, then begin working with NCDOT personnel for implementation. As they move forward the thought is to have a few pilot projects in place this year with the new process(es) so they can see if there are any concerns.
- Training:
 - Roles and Responsibilities: NCDOT has trained staff on Roles and Responsibilities with the initial focus on Project Managers (again central and division) and the Technical Units that feed info into the project.
 - PM Training: They are starting a 2-day PM training specifically for their project managers across NCDOT next week.
 - MS Project Schedule Training: the IPD team is in the process of developing MS Project templates for their PMs to use so they are not starting from scratch. They are also providing training across NCDOT on this software so everyone is aware of what is included in a schedule, why it is important, and how to utilize on a daily basis.
- Each month they send out an IPD Newsletter that updates folks both within and outside NCDOT on what the team is doing. If you are interested in getting this newsletter just let Terry know.
- The next steps to work on the improvements and integrate them into a new process flow map.
- The plan is to have the initial prioritized tasks fully developed, implemented and training and tools available by the end of 2019.

IX. Division Comments and Open Discussion

- Matt Clarke requested that as a part of the IPD revisions that they consider including drainage and all required easements with the Field Inspection.

X. Industry Comments and Open Discussion

- The ACEC / NCDOT Joint Conference is scheduled for October 29, 2019
- NCDOT is hosting the Highway Engineering Exchange Program (HEEP) conference in Asheville on September 8 -12. The conference is a venue for state agencies to get together and share technology updates in transportation. Will be open to private firms.
- The 2020 National ASHE conference is schedule for June 3-7, 2020 in Raleigh and is being sponsored by the local Carolina Triangle Section.
- Bryan Edwards gave a brief update on IT items

- NCDOT currently has a license for Blue Beam, which is a pdf markup / review tool. However, it is not currently being used by many units. Bryan will look to distribute the license further through the Chief's Office and offer initial training. The cloud component is not currently being used for security reasons.
- NCDOT is looking to use ProjectWise as a document management system on 6 pilot projects. They are looking at ways to bring project info from the existing SAP to ProjectWise and also how to share deliverables from ProjectWise to Sharepoint.
- Open Roads (ORD) Update.
 1. Roadway has completed Phase 1 testing.
 2. Hydro is just beginning their process of testing and review.
 3. More information on NCDOT Connect site.
- NCDOT is updating the Roadway Design Manual based on the new Green Book. Further updates will be needed as IPD initiatives and ORD are implemented.
- It is anticipated that ATLAS will be rolled out in June.

XI. Next Meeting

- Thursday, August 8, 2019 at 1:30pm in the Chief Engineer's Conference Room.

CONSTRUCTION & MATERIALS

ACEC / NCDOT JOINT SUBCOMMITTEE ON CONSTRUCTION & MATERIALS

April 17, 2019 Meeting Minutes

- *Note: These minutes reflect discussion in both the NCDOT Committee Meeting (4/17/19) and Industry Group Meeting (5/13/19).*

The meeting was held on April 17, 2019 at NCDOT Materials and Tests Unit Conference Room, located at 1801 Blue Ridge Road, Raleigh, North Carolina at 2:00 p.m. In attendance were:

NAME:	REPRESENTING:	EMAIL ADDRESS:
Eddie Bishop	HNTB	ebishop@hntb.com
Kevin Bowen	NCDOT – Division 3	kgbowen@ncdot.gov
Davis Diggs	Kleinfelder	ddiggs@kleinfelder.com
Adam Gosselin	RS & H	adam.gosselin@rsandh.com
Wiley Jones	NCDOT – Construction Unit	wwjones1@ncdot.gov
Michelle Long	NCDOT – Chief Engineer's Office	mglong@ncdot.gov
Tom Payne	NCDOT – PSMU	tpayne@ncdot.gov
Allen Pope	S & ME	apope@smeinc.com
Jim Sawyer	NCDOT- Materials and Tests Unit	isawyer@ncdot.gov
Robert Stroup	NCDOT – PSMU	rstroup@ncdot.gov
Jeff Thatcher	Gannett Flemming	jthatcher@gfnet.com
Sherell Williams	NCDOT – Construction Unit	sherellwilliams@ncdot.gov

SUBCOMMITTEE BUSINESS

Review of Minutes of January 23, 2019 Meeting – Group

The committee reviewed and approved the minutes as submitted.

New Subcommittee ACEC Committee Members

Mr. Jeff Thatcher announced he and Adam Gosselin, are rotating off the committee. The ACEC is in the selection process for new members to replace the vacancies. The new members should attend the next scheduled meeting. Alan Pope will serve as the Industry Co-chairman.

- *ACEC has accepted resumes for the two replacement subcommittee members. Selection has not been made at this time.*

TRAINING

Materials and Tests Training Updates

Mr. Jim Sawyer advised CVent will replace Reg Online for registering for certification classes. M&T proposes to have training for CVent in May 2019 and switching to CVent in June 2019. Once the CVent has replaced Reg On-line, the classes will be posted for the remainder of the year under CVent. Use the M & T website to access CVent.

- *CVent will allow M&T to have more bells & whistles like prerequisites.*

Discussion Items

Memorandum for Nuclear Gauges Monthly Rental Rates

Ms. Sherell Williams advised the letter to the Private Engineering Firms regarding the Monthly Rental Rates reimbursement for nuclear gauges furnished by the firms has been drafted and is being reviewed by Lamar Sylvester, State Construction Engineer.

- *No memorandum has been produced at this time.*

Uniform Timesheet and Invoice Coversheets

Ms. Michelle Long advised the invoice cover sheet will be updated with changes discussed in previous meetings and distributed to the committee.

- *No activity since last meeting. Ms. Long noted due to workload, this item of business has been set aside.*

Tools of the Trade

Ms. Williams presented the results from the NCDOT workgroup for the update of the Tools of the Trade. After discussion the draft 2019 Tools of the Trade are as follows.

Vehicle Items:

Truck tool Box or Camper Shell

Fire Extinguisher

First Aid Kit

Water Cooler

Caution lights – (23” or 48” LED – A light bar and four (4) LED – perimeter

Basic Inspection Tools:

Calculator	Hard Hat
Chase Air Indicator	Safety-toed shoes
iPad/Tablet/Laptop (with data service)	Earplugs / ear protection
Clipboard	Flat shovel
Engineer’s Scale	100 foot tape with case
Flashlight	Digital Asphalt thermometer
Folding ruler	Concrete thermometer
Safety goggles	Miscellaneous office supplies
Safety vest	

Ms. Williams will research requirement of the water cooler and required size of the fire extinguisher. The changes include the removal of the plumb bob with sheath and the 30 meter tape with case and the addition of the highlighted items on the list above.

- *All other items will be negotiated at task order time. Expectation is that Technician show up at the RE office with these items. This list will be included within the new CEI Guidelines.*

CEI Guidelines

Ms. Sherell Williams advised the Department began the review of the current CEI Guidelines to identify updates. NCDOT will continue to update on the guidelines and will provide the Industry a draft for review.

- *No activity since last meeting. Ms. Williams noted that since the Workshops have been completed, her intent is to put more effort on this item. Plans to send a draft to the subcommittee.*

2019 Increase in Billable Rates for Technicians

- *Rate Adjustment Calculators*

Ms. Williams referenced the memorandum from Lamar Sylvester dated April 5, 2019 regarding the salary calculators for the increase in billable rates for technicians. Ms. Williams advised the 2019 Conversion Salary Calculator is assessable on the Consultant webpage. The 2019 Salary Calculator will be uploaded to the Consultant website and should be used as guidance for setting hourly rates for technicians assigned after June 30, 2019.

- *2019 Billable Rate Increase – April 2019, 2019 Billable Hourly Rate Conversation April 2019, & Salary Calculator 2019 (5/1/19) are on the Consultant ‘Guidelines & Forms’ webpage.*

- *Engineering Technician I Trainee Reimbursable Rates*

The 2019 rates for Engineering Technician I Trainees have been established. NCDOT will send a letter to the Industry in the next couple of weeks.

- *No memorandum has been produced at this time.*

- *Evaluation of Technicians Years of Service*

Mr. Jeff Thatcher stated for the last two years the Department has increased the billable hourly rates for engineering technicians and the Industry was provided a conversion calculator to determine the new rate for each technician. His concern is the technicians are not being evaluated or compensated for years of experience gained. Ms. Sherell Williams advised the 2015 CEI Guidelines in the section titled Increases in the Billable Hourly Rates states “the Department does not promote CEI personnel in place due to gained experience or knowledge.” The guidelines also state technicians may receive an increase in the billable hourly

rates if the technician is promoted to a higher classification due to a vacancy on the project (Project Specific Agreement) or assignment (On-Call Task Order) or in accordance to the guidance for adjustments provided by the State Construction Engineer through written correspondence.

- *Industry and Division Committee members noted that Divisions are not applying this practice equitable. It was also asked what/when is the appropriate time to reevaluate a technician for additional experience and skillsets?*

Billable Rates for Engineering Positions

Ms. Williams advised the Department will allow firms to increase the billable hourly rates of CEI personnel, currently assigned and classified as Assistant Resident Engineers or Senior Assistant Resident Engineers and whose billable hourly rates are lower than the billable hourly rates as listed below. The State Construction Engineer will provide guidance through written correspondence.

Engineering level	Billable Hourly Rate
Assistant Resident Engineer	\$34.32
Senior Assistant Resident Engineer	\$38.44

- *No memorandum has been produced at this time.*

Upcoming Projects

Ms. Sherell Williams advised the letting of the following projects have moved.

- T.I.P. Project I-4400BB/C – I-26 Widening in Henderson County. The revised letting date is September 2019 and proposed advertisement is May 1, 2019.
- I-5877, I-5986A – I-95 in Cumberland and Harnett Counties. The revised letting date is July 2019 and the proposed advertisement date is July 15, 2019.
- R-5777A/B, U-5713 US 70 at James City in Craven County. The revised letting date is September 2019 and the proposed advertisement date is November 1, 2019.

The updated list of all anticipated advertisements will be uploaded to the NCDOT Consultant website listed below.

<https://connect.ncdot.gov/business/consultants/Pages/Guidelines-Forms.aspx>

Next Meeting: Wednesday, July 17, 2019 at 1:30pm

- *Prior to the subcommittee meeting, subcommittee members were presented with a skype meeting with the National Institute for Certification in Engineering Technologies (NICET). The presentation was to look of a potential pilot for M&T provisional certifications for out of state certifications. Possible utilize the NICET certification as NCDOT certification with a NC short course. The current certifications for Soils, Concrete and Asphalt with levels of I thru IV. Each level has minimum directly related experience (6, 24, 60 & 240 months), performance verification measures and written test (100-165 questions & ~240-420 minutes). The Industry Group noted that unless this takes place of the NCDOT certifications, we did not feel the additional expense was worth the efforts.*

STRUCTURES

ACEC/NCDOT BRIDGE SUBCOMMITTEE



Structures Conference Room C

May 6, 2019

10:30 am

MINUTES OF MEETING

Meeting was called to order at 10:30 am. In attendance were:

Brian Hanks – NCDOT Structures Management Unit
David Stutts – NCDOT Structures Management Unit
Kevin Fischer – NCDOT Structures Management Unit
Gichuru Muchane – NCDOT Structures Management Unit
Galen Cail – NCDOT Hydraulics Unit
Josh Taylor – Parsons (Co-Chair)
Seth Denney – Kimley Horn
Ricky Keith – RK&K
Sam Callum – KCA
Jennifer McRoy – Volkert
Sam Al-Jamal – ICE

- 1) Review of Previous Meeting Minutes
 - a) Minutes (previously distributed) were approved.
- 2) Bridge Design Workshop Series
 - a) Recapped recently delivered presentation on bridge aesthetics. NCDOT's Aesthetics Guidance Manual and additional aesthetics resources can be accessed here:
<https://connect.ncdot.gov/resources/roadside/Pages/Aesthetic-Engineering.aspx>
 - b) Proposed staged construction presentation delivery date pending speaker and facility availability.
 - c) Decided no additional workshops to be offered in 2019.
- 3) Training Opportunities
 - a) 2019 Steel Bridge Forum: Coordination with John Hastings continues on the forum agenda. Proposed date(s) for steel fabricator facility tour pending. It was noted that Trey Carroll will be the Department's point of contact for Steel Bridge Forum coordination. A Steel Bridge Forum kick off meeting is planned for this summer.

ACEC/NCDOT BRIDGE SUBCOMMITTEE



Structures Conference Room C

May 6, 2019

10:30 am

- b) It was noted that coordination for the 2020 Prestressed Concrete Seminar to begin this summer.

4) Anticipated PEF Opportunities

David and Gichuru presented the following:

- a) Year 2023 Bridge Program: All Orange projects have NTPs issued. Currently scoping all Green and some Orange projects. Anticipate outstanding Green projects to be scoped within the next two months and remaining Yellow projects to be completed by early summer.
 - b) Year 2024 Bridge Program: Prescreening commencing early this summer to classify Green-Yellow-Orange projects with scoping to begin this fall. The number of projects is approximately 25, with the potential for Division additions or removals to the total number of projects.
 - c) Preservation / Rehabilitation Program: Presently finalizing the funding allocations to lock in the number of projects planned for next year. Anticipate the size of next year's program to be comparable to the current year. It was also noted that multiple Lets are planned for July, August and September of this year.
- 5) Technical Discussion led by Brian:
- a) Manual Revisions:
 - i) Trey Carroll will continue work of his predecessor (Dan Muller) and revisit planned Manual revisions for multiple Department manuals.
 - ii) No published revisions are anticipated for 3 to 4 months.
 - iii) Noted that the planned revisions for the Chapters 9 and 10 of the Structure Design Manual are nearly complete.
 - b) Research Projects:
 - i) Crash testing of the two-bar metal rail expected to occur within next two weeks.
 - (1) It was noted that accompanying this research is an assessment of similar rails utilized by other State DOTs, which potentially adds to NCDOT's library of railing options.

Structures Conference Room C

May 6, 2019

10:30 am

- ii) It was noted that UNCC's Corrosion Policy research is ongoing, entering the 9th month of the work.
- c) Moment Slab Discussion:
 - i) During the recently held 2019 Structures Workshop, an order-of-preference was established regarding protecting traffic above MSE walls. In order of preference:
 - (1) Avoid using moment slabs. Use guardrail instead where possible.
 - (2) Use moment slabs without the moment slab functioning as wall coping. Rather, provide a lateral offset between the MSE wall and the moment slab.
 - (3) Not preferred: Position the moment slab directly above the MSE wall with the back edge of the moment slab functioning as wall coping. When this approach is utilized, align the expansion joints between adjacent moment slabs with expansion joints in the MSE wall to help mitigate field-observed damage to wall panels. It was noted that while the GEU publishes a detail depicting this condition, it is not the Department's preference to utilize this approach by default.
 - ii) Additionally, it was noted that when a moment slab terminates at a bridge abutment, provide additional width to the slab-mounted barrier rail base to support the screed rail. Providing an additional 3" of width was identified as sufficient to provide the screed rail support.
- d) Temporary Bridge Discussion:
 - i) During the recently held 2019 Structures Workshop, a best-practice was discussed to mitigate potential constructability issues when using temporary bridges. Provide 10 FT of lateral clearance between the gutterline of the temporary bridge and any surrounding obstruction or other project limit (such as an adjacent bridge, or right-of-way line). Providing a clear zone of this magnitude will help ensure adequate room is available for construction of temporary and/or permanent substructure units, installation of temporary shoring, and may also provide needed flexibility in the event a field identified conflict requires a slight shift in the temporary bridge alignment.

Structures Conference Room C

May 6, 2019

10:30 am

e) Test Project Discussion:

- i) The Department is evaluating an abutment foundation alternative for projects which utilize a sheet-pile curtain wall embedded into, or immediately adjacent to, the front face of an abutment. Research indicates that the sheet piles themselves can provide sufficient capacity to function as the foundation element and thereby replace the H-pile foundation elements otherwise installed immediately behind the sheet piles. It was noted that multiple test projects are currently in progress for smaller bridges utilizing cored slab superstructures. In these projects, the maximum design height of the wall from the design scour elevation to the cap is approximately 10 feet, and the pile section utilized is PZ27.

f) Wingwall Discussion:

- i) Reinforced bridge approach fill constructability issues have accompanied the use of wingwalls tapered along the bottom edge to reduce wingwall weight. The approach fill aggregate can spill out below the tapered wing, requiring installation of temporary support in the tapered region to prevent such spillage. Preference is now given to not tapering the bottom edge of wingwalls.
- g) It was noted that the Department does not have a policy addressing the depth of CIP concrete to use in the upper portion of precast concrete cylinder piles. A policy or standard addressing this issue is not planned. Designers are invited to refer to FDOT practices on this question.
- h) Finally, design engineers are reminded to engage Area Construction Engineers (Cameron Cochran or Aaron Earwood) as stipulated in the Structure Design Manual and encouraged to engage ACEs for any other potential constructability concerns. In particular, designers are encouraged to cc the appropriate ACE when working on Division projects, and to submit preliminary BSRs to the ACEs.

ACEC/NCDOT BRIDGE SUBCOMMITTEE



Structures Conference Room C

May 6, 2019

10:30 am

6) Other Topics

- a) Design engineers are encouraged to ensure early coordination on aesthetic details, where applicable, particularly when working with municipalities and Divisions.
- b) It was noted that the Green River bridge will be coming up soon, where the work will eliminate fracture critical conditions present.

7) Election of new ACEC Co-Chair

- a) Sam Callum was elected as ACEC/NC co-chair for the 2019-2020 term.
- b) Note that Josh Taylor and Seth Denney are rolling off the committee. Sam Callum and Ricky Keith are entering their third year. Jennifer McRoy and Sam Al-Jamal are entering their second year. Two individuals to be named will be entering their first year.

8) Next Meeting: August 5, 2019

Meeting adjourned approximately 11:30 pm.