

ACEC/MaineDOT Bridge Design Subcommittee

MEETING AGENDA

September 26, 2023

Location

Hybrid: Virtual/MDOT HQ Room 317

Time

10:00 AM to 12:00 PM

Purpose of Meeting

3rd Quarter Meeting - 2023

Invitees

- | | |
|---|--|
| <input checked="" type="checkbox"/> Garrett Gustafson, MaineDOT | <input checked="" type="checkbox"/> Keith Wood, Kleinfelder |
| <input checked="" type="checkbox"/> Laura Krusinski, MaineDOT | <input checked="" type="checkbox"/> Ashley Stephens, HNTB |
| <input type="checkbox"/> Ron Taylor, MaineDOT | <input checked="" type="checkbox"/> Andrew Blaisdell, GZA |
| <input type="checkbox"/> Richard Myers, MaineDOT | <input checked="" type="checkbox"/> Ben Toothaker, TYLIN |
| <input checked="" type="checkbox"/> Devan Eaton, MaineDOT | <input checked="" type="checkbox"/> Shannon Beaumont, Fuss & O'Neill |
| <input checked="" type="checkbox"/> Joshua Hasbrouck, MaineDOT | |
| <input checked="" type="checkbox"/> Tim Aguilar MaineDOT | |
| <input checked="" type="checkbox"/> Chad Lewis, MaineDOT | |

AGENDA ITEMS

1. Members
 - a. *Tim Aguilar & Shannon Beaumont new members.*
2. Meeting Minutes Submission – *Q1 and Q3 minutes to be submitted, Q2 meeting did not occur due to scheduling challenges.*
3. Information Dissemination by MaineDOT
 - a. Contracting/workload
 - *Work Plan update – Things are very dynamic as schedule lockdown for 2024. Currently \$230-240 million in 2024 with 65 projects and \$275 million in 2025 with 100 projects. In order to help manage the workload, DOT is looking for bundling smaller projects to minimize administration time. Considering an RFP for total project delivery project – including survey, utility coordination, etc. Multiple projects combined for a design build projects. In general, the number of projects keeps going up and so DOT is looking for solutions to mitigate schedule delays.*
 - *Two staff on bridge CPO when previously it was one.*
 - b. Federal Grants & Federal Funding Updates
 - *Recently received funding for three culverts, mix of bridge and highway culverts as part of resiliency grants and are listed on MaineDOT website.*
 - c. MaineDOT Staffing Update: *Tim A. in new senior structural for Team North, Gary Libby PM on team south, Derrick Carlton is new utility from Highway, Joe Stilwell moved to multimodal and Fabrication is open.*
 - d. Construction Cost Estimating/Bid Result updates – *DOT is using a new program for average bid prices. This could potentially be shared with consultants. Overall, smaller routine projects bid process are going down but very location dependent. Traffic control, cofferdams, phasing and multi-year have been expensive.*
 - *Still not using stainless in any significant way, if there is a specific project that is critical, DOT would discuss it.*
 - e. Standards Update (BDG, PDR/PIC, CADD, Notes) –
 - *BDG update – Chapters 1 & 2 complete with minor review, Chapter 3 has more review and chapter 4 has started.*
 - f. *CSX railroad agreements have been challenging, allow plenty of time for CSX coordination on projects.*

- g. OpenRoads schedule/update – *All project should be in ORD but check with the PM for specific project guidance.*
- 4. Summary of Designer Meetings
 - a. Meeting notes
 - *March 22 – shortening PDR's, rebar topic A706 for A615*
 - *April 19 – Presentation of Precast steel – Precast overhang barrier formwork*
 - *May 3 – Heat straightening from Flame On*
 - *May 17 – Steel conference summary from Tim A. New steel manual coming out. Not using weathering steel on highway, saltwater, open joints*
 - *May 31 – ChromX presentation*
 - *June 28 –*
 - *Shortening PDR's – where possible concise writeups in important, limiting appendices, inspection reports, etc., in-house 60% formalizations*
 - *Field observations – bearing detail issues to ensure bearings are replaceable; using other plan sets as a guide, not justification for your design*
 - *July 20 – RJ Watson presentation – can use stainless steel*
- 5. Geotechnical Update (Laura K.)
 - a. *Follow up with Alex B. for moratorium on micropiles in integral abutments, Laura has some calls into but has not received any feedback on it.*
- 6. Discussion Topics
 - a. *Pedestal type bridge seats with 15% wash. All abutment types, including semi-integral? – Keep it under open joints, could entertain reducing it in case by case.*
 - b. *Curved girder, high skew, detailing fit preference. NLF, TDLF, SDLF.*
 - *Designers should be referencing NSBA for recommendations, but specifically on the high skew curved a Steel dead load fit is required for proper check on cross-frames.*
 - c. Standard details
 - *Standardizing snow fence details – mostly complete*
 - *4-Bar Steel Approach Rail to GR – should not be using on the NHS, contracting with road safe*
 - *MASH railing – official rail policy is all should be MASH as this point; if it's not a typical rail check with PM to see if it's been used. Process can take a while and has to go to Engineering Council. 2-Bar is not OHSA approved. 3-Bar everywhere should be the minimum starting point.*
 - *RRFB – standard foundation/special provision – no Special Provision template, ask Senior Structural for projects*
 - *Large culvert – Minimal cover GR details/guidance – standard plan sheet being developed, 2009 and 2016 details – can ask for electronic details in the interim for active projects.*
 - d. *Sequencing of blocking/deck placement with composite loads – Contractors have been requesting placing some composite dead loads prior to completing non-composite deck on long, multi-span bridges. Consideration shall be given to impacts to blocking if considered and final blocking should be measured after non-composite dead loads in place.*
 - e. *Stainless strand in precast for saltwater bridges or case by case*
 - *Case by case, generally black bar is ok*
 - f. *Boat launch panels – GFRP? – GFRP is preferred reinforcing*
 - g. *Other – Geotech – Question on how Freeport 295 overpass bridges, short piles in sand installation went. Laura to review and provide feedback.*
 - h. *Sidewalk grade in the approaches need to be 1.5% instead on 2%.*
- 7. Future Discussion Topics

- a. Training Areas – OpenRoads training
 - *Suggest topic areas if there is a need*
 - *Regional for 2-D hydraulics*
8. Subcommittee Rotation for Consultants
 - a. Active:
 - Keith Wood, Kleinfelder Q1 2022 thru Q4 2023
 - Ashley Stephens, HNTB Q2 2022 thru Q1 2024
 - Andrew Blaisdell, GZA Q2 2022 thru Q1 2024
 - Ben Toothaker, TYLIN Q4 2022 thru Q3 2024
 - Shannon Beaumont, Fuss & O’Neill Q2 2023 thru Q1 2025
 - b. Future:
 - *Future list coming soon.* Q1 2024 thru Q4 2026
9. The Next Meeting is set for: December 12th.