

11:00 A.M. Tuesday June 15th, 2021 – WEBEX

Members Attending:

Terry Dunn (Chair)	Atlantic	Byron Nelson	Leland
Kevin Williams (abs)	Atlantic	Dave Watson	Leland
Jason Sherwood	Atlantic	Jim Evans (abs)	Cleveland Cliffs
Randy McDonald	Atlantic	Ian Berry	Warner
Phil Carroll	Atlantic	Mike Mounts	Valfilm
Scott MacRae	Armtec	Lynn Riley	Valfilm
Jason Johnston	Armtec	Todd Gray	ACI
Jason Sutton	Armtec	Derek Niezen (abs)	Ironside
Liz Bouchard	Armtec	Mike Hook	MarMac
Bruce Matheson	Frontier	Mike McGough	NCSPA
Mike Williamson	Hubb-Cap	Diana Brooks	NCSPA
Kamran Derayeh	AMD	Ray Wilcock	CSPI

1. Welcome and Opening Remarks

Terry opened the meeting at 11:00 a.m. and welcomed everyone. Attendance was taken and is recorded above.

2. Review Minutes from March 16th, 2021 and Approve

Minutes were reviewed and a motion for approval was made by **Kamran Derayeh**, second by **Jason Sherwood**.

3. Project List and Approve

1) MTO – Structural Plate Standards Advancement

- a. Regional for Ontario
- b. Dennis Park (AIL), Scott M. and Ray W.

There has been a change in leadership at MTO and they have developed a new portal for communicating on standards, participation, etc. CSPI was involved in assessing the new portal during beta testing. Ray will reach out to Mike Pearsall, Walter Kenedi & Kris Mermigas this summer to continue dialogue on bridge guidelines.

2) Bay of Fundy & Cabot Trail Polymer Coated Sites

- a. Regional for Maritimes
- b. On Hold due to travel

Visits will be made as soon as travel restrictions are lifted.

Site visit to cover:

- Abrasion 4 or tidal waters, ice conditions?
- Water velocity, chemistries, grade of pipe, fish passage design?
- Inlet control to protect sediment from entering pipe. Characterize the upstream water feeding the pipe, sediment load.
- Find out more information and root causes of the abrasion.
- Bay of Fundy (AIL), Cabot Trail (Armtec)
- Pictures are important to determine bedload / velocity
- Port Hardy site to visit – similar abrasion issues. Future visit for site inspection next time in B.C.

3) Buried Bridge Inspection Guidelines - TB

- a. National - use AT Buried Bridge Inspection for Guideline.

Completed – titles to be changed from AT to CSPI Guidelines. Will be posted to website in the technical area.

4) CSA G401 Update

- a. National to be completed in Fall 2021.

Outstanding items being worked on by sub-committee. Target is June month end with plans to take to the broader committee this fall.

5) Fish Baffle Technical Bulletin

- a. National
- b. Scope: Prepare a document that contains the variables that one has to look at:
 - i. Owner to hire the consultant.
 - ii. Show examples of FB across Canada.
 - iii. List benefits of using Steel Culverts for Closed Bottom
 - iv. Show Reference Guidelines – DFO, FP innovations

Agreement was reached to develop a fish baffle guideline. Idea is to list all acceptable / available options in Canada. 6 to 8 case studies were discussed. With every province there are many options along with bedload retention, slopes, etc. Reach out to members across the country for options / projects, etc. Work with Julien Cassie (AIL).

6) Design for Abrasion Technical Bulletin

- a. National
- b. Scope: Ways to calculate water velocity or ways to design for it (open Bottom vs closed bottom)

Abrasion classes, how to measure? Reference documents? What do the NCSPA have in this area? Work with Phil Carroll.

Phil suggested reviewing “Stream Simulation” from the US Forest Services (Turner Fairbanks Lab).

7) CSP Rehabilitation

- a. National
- b. Add onto CSPI Slip line tech bulletins with info from the recent research on other methods.
- c. Need to gain customer confidence for CSP.

Technical Bulletins have been reviewed. A few changes are required based upon latest research. Discuss at PPC with regards to promotion. In the fall / winter conduct a technical webinar on rehabilitation.

8) Geomembrane over structures/pipes Guideline

- a. National
- b. Scope Prepare a document that contains the variables that one has to look at:
- c. Review NCSPA Tech Note: 210
- d. Review NS Spec
- e. Review FHWA Spec
- f. Review CHBDC

Guideline to be produced. Show types of options and reference all documents. Ray to lead.

9) Storm Water Joint Performance

- a. National
- b. Non Recorrugated Ends
- c. MarMac Coupling system
- d. Improve Joint performance – Test current joints!!
- e. Fittings – Develop Standard Fittings to connect to other pipe materials and own. Standardize and potentially test fittings.

Stormwater joint testing was discussed with reference to Queen’s university testing with NCSPA in 2019. Currently MarMac is working with Pacific Corrugated (NCSPA)

on testing non-recorrugated end joints. More discussion is required to determine next steps.

Suggestion was made to form a sub-committee of members to review this area. Mike McGough explained that the NCSPA testing of joints at Queen's university and resulting document a while back, was a defensive move against RCP claims on CSP. Randy suggested a review of the CSA standards for joining systems to determine requirements and to look at how to compare against HDPE. Ray will source members for participation.

10) Carbon Neutral

- a. How do we take it to the next level?
- b. Find an EPD for HDPE once Published.
- c. Make it more project related with budget pricing to compare costs and CO2
- d. What else can CSPI do to promote and lobby steel over other building materials?
- e. Do we need to do more lobbying?

Ideas included future webinars with provincial associations similar to OGRA. Reach out to European members for feedback on their initiatives or needs from CSPI.

Jason Sherwood recommended we lobby at the highest level (Federal, Provincial & Municipal). Recommendation was made for a sub-committee. Kamran suggested that Stan Lipkowski be included. Phil mentioned the Federal Government's "Climate Lens" a good place to start. Phil will provide the link. Jason suggested the sub-committee come up with a way to report annually on the industry's carbon footprint. The how to measure needs to be explored and have all member commitment. Ray will discuss with Stan to determine if this is doable.

11) Green Handbook Update

- a. National
- b. Commence after CSA G401 is complete
- c. 2 Year Project
- d. Member participation
- e. Chapter by chapter

To be discussed at a future meeting. Any ideas or comments at this time?

12) Mitacs Opportunity – Municipal Storm Sewer Standards

Mitacs Opportunity - Work with a university student, similar to what was done with rehab. Maybe something in the storm sewer market. A review of what is required by municipalities and where spiral rib falls short if at all. Something to back us up in our fight to get included in municipal standards.

Discussion, thoughts?

Cost \$7,500 - \$10,000.

Recommendation was made to prepare an overview of the project for committee review at the next TAC meeting.

4. Member / Ongoing Items update

a) AMD – carbon / galvalume update (Kamran)

Nothing to report.

b) Valfilm – Lighter polymer laminate (Mike Mounts)

Testing is underway in line with ASTM A742. Mike mentioned using thinner samples G90 versus G210, however has not been able to find G165. Lab testing to take place later on this year.

c) Leland - Bolt & Nut Research update (Byron)

Dave mentioned that all was going well at Leland and would refer to Byron on updating research at the next meeting.

d) Warner – alternative polymer coating update (Ian)

Ian will be reaching out to Armtec & AIL for direction before commencing any new testing on coatings or thickness changes.

e) Ironside – machinery update (Derek)

Derek was not present at the meeting.

f) ACI update (Todd)

Todd stated that samples of thinner coating were available to all members for testing. He mentioned that there has been a demand of wider material up to 50" (1.3 meters). Maximum width is 50".

g) MarMac Joint Testing of non-rerolled ends (Mike H)

Mike stated that testing of 24" (600 mm) currently underway with Tim Hahn of Pacific Corrugated is going well. He stated this could be a game changer, eliminating future rerolling of ends. He is looking for a CSPI member to conduct testing in Canada. Members can reach out directly to Mike or through Ray. Mike suggested all to check out their Linked in page <https://www.linkedin.com/company/marmac-construction-products-co-inc/>.

h) PPI Carbon Document review (Ray)

The Franklin report which was used by PPI to report on HDPE, CSP & RCP is still being reviewed. Ray Will report to the committee once completed.

5. Other Associations - Updates

a) NCSPA update (Mike)

- Polymer project underway as discussed previously by Mike Mounts
- Field research on Aluminized Type II & Polymer sites from 10 years ago to refresh data
- Holding in person meetings in July in Dallas (Board & Strategic)
- Annual meeting moved to October – in person
- App & web version of carbon footprint calculator ready for launch

b) ASTM update (Mike)

- May meetings held via WEBEX
- Update to A796 – section properties on 18 (1.3 mm) gauge
- Update to A742 – abrasion method on polymer coated plates

c) TAC update / Spring meetings (Ray)

- Following meetings were attended:

Apr 20 th	Climate Change Integrated Committee
Apr 21 st	Environmental Legislation Committee
Apr 23 rd	Climate Change Council
Apr 29 th	Structures Committee
May 11 th	Small Municipalities Integrated Committee

d) TRB update (Mike)

- Committees have been combined into one with two subs
 - Buried Bridges
 - Resiliency
- Focus is on research

e) AREMA (Mike)

- Nothing to report

g) AISI News (all)

- Construction Sustainability Council to meet July 13th

6. Discussion / Old / New Business

a) Sizing of culverts – impact of climate change (address in HB)

Move to HB project.

b) Tolerances over arched culverts/can all manufacturers meet standards?

Question was raised by Jason with regards to internal versus external machines and metric versus imperial as to manufacturers meeting tolerances in the HB. Scott recommended moving this to G401 and then carry over to the HB once completed. There was agreement to move this into G401.

c) CO2 calculator in French

Committee approved translation. Once complete, reach out to Quebec members for confirmation before posting.

d) Training course on water testing – sponsored by CSPI

Turn into webinar for DOT's, consultants via provincial associations. Include material selection / service life and tie in inspection guidelines. Move to national versus provincial.

7. Adjourn & Next Meeting at the call of the chair

The meeting was adjourned at **12:37pm** motioned by **Jason Sherwood** and second by **Scott MacRae**. Next meeting scheduled at the call of the chair or November fall meeting, whichever comes first.

Terry Dunn
Chair

Ray Wilcock
Executive Director