

10:00 A.M. to Noon EST, Thursday, March 6th, 2025
WEBEX

Committee Attendance:

Pat Mayne (Chair)	Atlantic	Mitchell Swisher (abs)	Cleveland Cliffs
Terry Dunn	Atlantic	Colin Rojahn	Cleveland Cliffs
Scott MacRae (abs)	Armtec	Jonathon Paton (abs)	Warner
Darren Bauman (abs)	Armtec	Mike Mounts	Valgroup
Bruce Matheson (abs)	Frontier	Todd Gray	ACI
Jaclyn Pittman	Hubb-Cap	Derek Niezen (abs)	Ironside
Kamran Derayeh (abs)	AMD	Chuck Skeen (abs)	MarMac
Babak Mohammadi	AMD	Richard Northcutt	MarMac
Byron Nelson	Leland	Mike McGough	NCSPA
Dave Watson	Leland	Ray Wilcock	CSPI

1. Welcome and Opening Remarks

Pat opened the meeting and welcomed everyone. Attendance was taken and is recorded above.

2. Review Minutes from November 6th, 2024, and Approve

Minutes were reviewed and a motion for approval was made by **Mike Mounts**, second by **Terry Dunn** and was carried unanimously.

3. Project List Update

a) CSA G401-24 update



CSA G401:24
National Standard of Canada



Corrugated steel pipe and buried structures

BALLOT DRAFT – NOT FOR FURTHER DISTRIBUTION /
ÉBAUCHE : TOUTE DISTRIBUTION INTERDITE



scc  ccn

- Over 100 revisions to 2014 standard
- 3 main highlights:
 - Change to product lookup versus material / fabrication lookup
 - New annex on Sustainability
 - Added Zinc Flake coated bolts & nuts
- Errata completed in November
- 137 updates to references, clauses, tables and figures

Discussion / Issues:

- [CSA has confirmed that English and French versions will be completed by end of April](#)
- [Will be posted to the member section of the website and available to all on request](#)

- Tensile testing of lockseams in the standard is referred to as the “testing machine”. Should we be more specific?
- Mike Mounts stated that they use Instron equipment. To be reviewed and noted for discussion next update of standard.

b) EPD’s update

- Post both EPD’s to CSPI website
- AMD’s XCarb shows a 45% reduction in carbon footprint
- NA average productions show similar results as 2018
- Start promoting both
- Presently updating the carbon calculator to show industry average, XCarb & RCP

c) MTO – OPSS for Structural Plate Package

- Meetings were held on January 8th & 14th with 9 members attending to discuss response to the OPSS draft covering spans greater than 3 meters.
- 98 comments were made and sent to MTO.
- CSPI has requested a meeting in March to review and move the specification forward.
- [Follow up with MTO & request a meeting in person at the St. Catharines office](#)

d) MTQ Standards Update

Discussions with Quebec members took place on the following:

- Suppliers versus owners’ s consultant designing foundations
- Height of cover min of 600 mm in Quebec versus 300 mm in CSA, ASTM, OPSS
- Response sent on February 10th pertaining to responsibilities for the geotechnical consultant, structural engineer, manufacturer, & contractor to clear up foundation design confusion.
- **Win** - We received notice that MTQ has updated its standard, granting polymer coated structural plate 75-year service life, the same as concrete.
- [Follow up with MTQ & request a meeting later this year](#)

e) BCMOT ½ day seminar

The ½ day seminar is confirmed for April 4th in Coquitlam with the following agenda:

9:00	Introduction to CSPI / Industry – Ray CSPI
9:30	Structural Design of Corrugated Steel Buried Bridges - Stuart Murphy AIL
10:30	Installation & Construction Procedures – Ron Prychitko Armtec
11:00	Inspection, Maintenance & Rehabilitation – Ron Prychitko Armtec
11:30	Durability & Sustainability – Ray CSPI

- [Suggestion was made to do a similar ½ day for members and potentially expand this to other provinces](#)

f) Handbook Update

- 2 Year Project
- Member participation
- Chapter by chapter

Meetings held on:

- Jan 16th
- Feb 27th
- Work underway on design / HOC / standard references
- Invite relevant members for specific chapters
- Next Meeting is on March 24th
- Mike McGough stated the NCSPA has started revisions of their handbook with new chapters on sustainability and resiliency.

e) SWM discussion - update

Action & Discussion:

1. Hold two webinars in 2025 – Internal for members (sales training) and external for consultants and others in the CSPI database. Deal with all misconceptions.
2. Include conservation authorities who have the authority to approve.
3. Emphasize the issues that plastic will have with creep and fire.
4. Explore the strategies that Contech & TUBAO use. TUBAO will be making a ½ presentation at the AGM in June.

5. Member / Ongoing Items update

a) AMD

- No update.

b) Cleveland Cliffs

- No update.

c) Valgroup – Lighter polymer laminate & galvanize

- The promotion on lighter polymer and galvanized coatings for the storm sewer market are on hold due to the issues in Ohio and Montana.
- Inspections will be made in the spring.

d) Leland

- Dealing with potential fallout of the tariff situation.

e) Warner

- No Update.
- Schedule a meeting with Warner to discuss ongoing items.

f) Ironside

- No update.

g) ACI update

- Evaluating new polymer chemicals & laminating machines.

h) MarMac

- Dealing with potential fallout of the tariff situation.
- Harmonize code 2715.00.00 may preclude tariffs on MarMac products
- Richard will advise next week

6. Other Associations - Updates

a) NCSPA update from Mike McGough

- The redraft of the handbook is in progress with chapters lead by different members
- The simple chapters are being reviewed
- Design work is based upon tech notes and other projects including tracked vehicles, seismic, sustainability, resilience, etc.
- Next meeting is in April with target for completion early next year if all goes well

b) ASTM update

- Recent ballots submitted by Contech have passed
- Revision Of A0979/A0979M-2003(2019) Specification for Concrete Pavements and Linings Installed in Corrugated Steel Structures in the Field WK93939 – submitted by Lane Enterprises
- Spring Meetings - Sheraton Hotel in Toronto
- Scheduled May 5th & 6th

c) TAC update / 2025 Spring Meetings & Fall Conference

- 1 abstract on sustainability submitted for October conference in Quebec City
- Attend as a delegate only

Spring Meetings (virtual)

- Apr 9th Structures Committee
- Apr 10th Environmental Issues Committee

- Apr 16th Environmental Legislation Committee
- Apr 22nd Climate Change Integrated Committee
- Apr 24th Environmental & Climate Change Council

d) TRB / AREMA / AISI

TRB	The last meeting was held on January 25 th . TRB are looking for new members for the soil structures committee as terms for many members are expiring.
AREMA	Joel Hahm from Contech is the contact when required.
AISI	NCSPA's association is with the Short Span Bridge Alliance.

7. Discussion / Old / New Business

a) Polymer repair TB's to be reviewed / approved.

- Updates to TB 02 Field Repair of Polymer Coatings & 17 Polymer Laminated CSP Guidelines were submitted with the agenda for members' review.
- They included equivalent repair solution and addressed weather conditions.
- Mike was asked about Flex Seal Spray. He stated the liquid has been used; however, results have not been comparable to either Ranvar or the tape.

Action:

- Open until the end of March for further comments before final posting
- All agreed that the footer should be changed to *"THIS DOCUMENT PERTAINS TO CSPI MEMBERS AND STAKEHOLDERS ONLY"*.

b) Bolt issue identified in Newfoundland and Labrador with salt seepage. Visit with Dave planned for June 24th.

- Date scheduled following AGM.

c) Alberta Transportation - Open Bottom Structures. Cookie cutter design, headwalls, cross sectional drawings, standard drawings, this number of boxes, arches, etc. Mimic concrete. ISG Engineering coordinating.

- No update currently.

d) Technical Bulletin #13, Performance Guideline for Buried Steel Structures – reference to AASHTO electrochemical tests to previous version. Update completed – review / approve.

- Updates to TB 13 were submitted with the agenda for members' review.

- They included references, clarifications, edits, etc.

Action:

- Pat will send in some AIL comments
- Open until the end of March for further comments before final posting

**e) Canadian Water Resources Association – ½ day workshop on culvert design.
Date suggested May 21st or 22nd.**

Suggested ½ day online seminar:

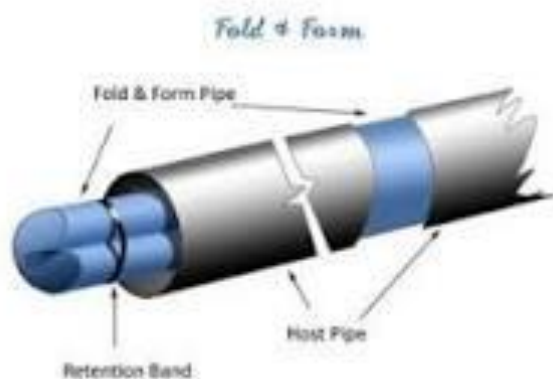
9:00 Introduction to CSPI / Industry (Applications, Product Details, Fabrication)
 9:30 Structural Design of Culverts & Storm Sewers
 10:30 Installation & Construction Procedures
 11:00 Inspection, Maintenance & Rehabilitation
 11:30 Durability & Sustainability

Discussion / Action:

- May 22nd is the preferred date
- Pat volunteered to speak on design
- Reach out to Scott MacRae and Mike Williamson to ask for their participation

f) Fold and form and CIPP liners used for rehabilitation. Update.

- A liner is folded to reduce its size before insertion and reversion to its original shape by the application of pressure and/or heat. (Polyethylene or PVC), but their effectiveness is uncertain.



- No experience from the group.
- Pat suggested to reach out to Ian Moore from Queens University to determine if any tests have been conducted on this method.
- Will also reach out to Robert Cichocki, a former Queen's PHD student who worked on a CSPI funded MITAC's project on rehabilitation

New Business

- a) Roundel (CSPI member) from Australia reached out to ask if there was any research or bulletins on silt traps attached to culverts in the upstream section.
- No awareness by the committee
 - Will reach out to some former members (retired) of CSPI to gauge any knowledge or understanding.

8. Adjourn & Next Meeting at AGM in St. John's NL on June 23rd.

The meeting was adjourned at **11:30 am** motioned by **Dave Watson** and second by **Terry Dunn** and was carried unanimously. Next meeting June 23rd, 2025 (in person) at a time TBD.

Pat Mayne
Chair

Ray Wilcock
Executive Director