corrugated steel pipe institute

TECHNICAL ADVISORY COMMITTEE
Meeting Minutes

10:30 A.M. to Noon EST, Wednesday, September 23rd, 2026
WEBEX

Committee Attendance:

Pat Mayne (Chair)	Atlantic	Bruce Matheson (abs)	Frontier
Todd Gray (abs)	ACI	Derek Niezen (abs)	Ironside
Kamran Derayeh	AMD	Cameron Hock (abs)	Island Culvert
Sarodha Rajkumar (abs)	AMD	Byron Nelson (abs)	Leland
Scott MacRae	Armtec	Mike Green (abs)	Leland
Graham Nickerson	Armtec	Richard Northcutt (abs)	MarMac
Dominic Turner	Armtec	P.C. Drouin (abs)	SDI
Terry Dunn	Atlantic	Mike Mounts	Valgroup
Oliver Kearns	Atlantic	Jonathan Paton (abs)	Warner
Mitchell Swisher	C. Cliffs	Mike McGough	NCSPA
Mike Williamson	E.S. Hubbell	Ray Wilcock	CSPI

1. Welcome and Opening Remarks

Pat opened the meeting at 10:30 a.m. and welcomed everyone. Attendance was taken and is recorded above.

2. Review Minutes from June 15th, 2026, and Approve

Minutes were sent to all committee members and those in attendance. A motion for approval was made by **Kamran Derayeh,** second by **Terry Dunn** and was carried unanimously.

3. Project List Update

a) CSA G401-24 update

CSA Committee – 23 members

DOT's	8
Cities	1
Consultants	3
University	1
Manuf. & Producers	8
CSA	1
CSPI	1

Standard contains 95 updates – some errata, some new

Key updates include:
1. References
2. Definitions
3. Differentiate metric versus imperial
4. Explanation of wet storage stain
5. Polymer laminated field repairs
6. New watertight / dissimilar couplers
7. Nuts & Bolts drawings
8. Tunnel Line Plate drawing updates

Next steps:

- Ballott closed on Friday September 11th
- We have a quorum of affirmative votes
- Meeting of Committee for disposition of comments expected soon
- Final Editing and French Translation
- Publication – hopefully by end of year

Discussion / Action:

- Table 1 "Chemical Composition of Steel" contains the following note:
- *"Boron maximum limit of 0.0008%."*
- This is not an issue for AMD but could be for other producers and has been an issue with two provinces in the past.
- Scott & Terry to meet and resolve whether it stays or is removed prior to CSA committee meeting.
- Scott to review proposed bolt figures (1, 2, & 3) changes and TLP clause 5.7.3.3.5 and figures 13 b & c, for proposed changes.

b) EPD's update

1. Green Public Procurement Tool (GPPT)
   a) Tool for federal procurement officers and other buyers
   b) Accepted the posting of the EPD for CSP (North American Producers)
   c) AMD must submit for the EAF production EPD. Meeting scheduled with GPPT on Monday September 28th to discuss submission.
   d) https://canada.ecomedes.com/product/corrugated-steel-pipe-institute/COR132

2. Next Steps
   a) Carbon Calculator – use ChatGPT to convert excel to app

Discussion / Action:

- Mike McGough brought up that when he clicks on that link, the NCSPA EPD appears.
- Will check with GPPT on Monday to determine if this is North American and it determines country from IP address.

c) MTO – OPSS for Structural Plate Package

Specification on Buried Bridges, OPSS 960 – Construction, 1805 – Materials, 1863 – Geomembrane Liners released in May 2026.

- Virtual meeting held on June 30th attended by 4 MTO personnel and 4 members.
- Internal meetings held with Armtec & Atlantic on July 9th and 23rd.
- Comments made by Atlantic (Pat) and Armtec (Scott).
- Reached out to Kris Mermigas in September to determine format of response expected – pending.

Discussion / Action:

- Scott to review Pat's comments / updates.
- Follow up with Kris to determine next steps.

d) MTQ Standards update

- Clarification on drawings required by consultants on standard CSP projects accepted.
- Non shrinkable fill equivalency to Group I as per CHBDC supplied to MTQ which questioned its use on a current project. Big thanks to Tony Tekly from Armtec who took the lead on this.

- Outstanding issues:
- The ministry is open to receiving some examples covering the roles within bridge projects. (AIL & Armtec to obtain).
- Completion of Height of Cover (HOC) tables.

Discussion / Action:

- Pat suggested that HOC be listed as a separate project list for TAC. This will be done for the next meeting.

e) AT Standards update

Standard Specification for Bridge Construction (SSBC)

- AT has accepted the majority of CSPI's recommendations made earlier this year.
- Next step is posting for public review with plans to publish in the 1st Q of 2027.

f) DOT updates

MTO North Bay ON

- Responses sent on coatings, bolts, plate lapping, field repairs, water proofing, and map containing PH & resistivity. Positive feedback received.

Saskatchewan

- CPD certificates (16) sent to ministry staff who attended 2-hour session earlier this year, along with responses to Technical Bulletin 1, online calculator, and the plastic section modulus Z for the 152 x 51 mm profile. Positive feedback received.

Prince Edward Island

- Responses sent on Polymer Laminated CSP, Spiral Rib profile, and field installations.

g) Handbook Committee update

a) 2 Year Project
b) Member participation
c) Chapter by chapter

- Work underway on design / HOC / standard references / compaction tables / culvert location / rehabilitation.
- Plan is to keep HOC to ASTM <3M, CHBDC >3M

Discussion / Action:

- Scott has completed some work on certain chapters and suggested due to workload; we may have to contract some chapters to a 3rd party. To be discussed.
- Next Meeting – Fall / Winter TBD.

h) SWM Committee update

Meeting held on September 22nd

Attendance:	Kamran Derayeh	AMD	William Khuu	AMD
	Matthew Winters	AMD	Pat Mayne	AIL
	Matt Field	AIL	Dominic Turner	Armtec
	Ray Wilcock	CSPI		

Points discussed:

- AMD Stelligence program
- Reviewed and will explore turning CD into an app
- TUBAO - why are they so successful explained

Next steps:

- AMD to summarize talking points / understanding for all.
- Members to review and update.
- Members to choose a consultant – nation wide known.

- Next meeting by mid October.

4. Member / Ongoing Items update

a) AMD – T.B. on using CSP in Rural Areas versus HDPE

Discussion from last meeting:

Centered on water storage tanks in development areas where TUBAO in France have had great success. An issue brought up concerned the water tightness of the tanks and susceptibility to leaking.

TUBAO response:

- We supply sealed reserves that are air tested and reach 99 per cent tightness, and that test is part of what we hand over to the client.
- That performance level is precisely what allows us to address fire defense water storage and rainwater harvesting and reuse.
- It is a specification choice made at the design stage.

Action Item:

- Approval of technical bulletin deferred to November meeting.

b) Cleveland Cliffs

Mitchell – no update.

c) Valgroup

- Kamran asked Mike if there was an EPD for polymer laminated material as this would most likely be the material we would use in the AMD Stelligence report.
- Mike stated to his knowledge there was no EPD, however he explained certain facts that would lead to smaller carbon footprints.
- Mike will reach out to Valgroup for more information.
- This will be tabled at the next meeting in November.

d) Leland

Byron / Mike - absent.

e) Warner

Jonathan – absent.

f) Ironside

Derek – absent.

g) ACI

Todd – absent.

h) MarMac

Richard – absent.

i) Steel Dynamics

P.C. – absent.

5. Other Associations - Updates

a) NCSPA update – Mike McGough

1. Design Manual – 3rd edition of 600 pages with over 150 updates including seismic in design, tracked vehicles, sustainability, resiliency, and colour photos (some old / new). Expect to be published by year end and presently accepting pre-orders.
2. EPD – published in July and presently promoting. The calculator is currently being tested which will compare CSP to concrete and HDPE (ADS). Plan is to turn into an app using AI if doable.
3. Fall meetings will dovetail ASTM meetings from November 3rd to 5th.

b) ASTM update – Mike McGough

1. Fall meetings November 1st – 3rd in Jacksonville Florida.
2. AO5-17 CSP Committee – A796/A796M *(Structural Design of CSP, Structural Plate and Deep Corrugated Plate for Culvert, Storm Sewers & Buried Bridges)* chaired by Kevin Williams was balloted. This will now go to the main committee A05.

c) TAC update / 2026 Spring Meetings & October Conference in Winnipeg

Spring Meetings (virtual)

- Oct 2nd Environmental Issues & Legislation Committees
- Oct 2nd Climate Change Integrated Committee
- Oct 3rd Structures Committee
- Oct 3rd Environmental & Climate Change Council

Conference

- Abstract on "Buried Bridges" accepted.
- Paper & Presentation submitted – speaking at 2 pm on Oct 5th
- Moderator at 4 pm on Oct 5th for Climate Change sessions

d) AASHTO / TRB / AREMA / AISI – Mike McGough

AASHTO Still waiting on moving forward with updates on seismic, etc.

TRB Meeting in January.

AREMA Nothing to report.

AISI Meeting in October.

e) Other Associations

Canadian Galvanizing Institute (CGI)

- Spoke on September 14th at their annual galvanizing day (virtually) on the oldest galvanized structures in Canada dating back to 1934.

6. Discussion / Old / New Business

a) Polymer Repair Technical Bulletin review report

- Draft submitted with agenda to all committee members.
- Deferred to November meeting for approval.

b) Bolt issue identified in Newfoundland and Labrador with salt seepage. Review report.

- No comments.
- Will be posted in the members section of the website and removed from November meeting agenda.

c) Technical Bulletin #13, Performance Guideline for Buried Steel Structures – reference to AASHTO electrochemical tests to previous version. Update in progress.

Updates include:

- References & definitions
- Grammar consistency
- AASHTO test methods
- New profiles added
- Bolt coatings

Outstanding:

- Soil environments, zinc & carbon loss rates, corrosion allowance
- Update to CHBDC S6:25, table 2.5, etc.

- Pat looking after the update with regards to CHBDC.
- Deferred to November.

d) Technical bulletin for safe handling, stacking, bundling of CSP. Review report.

- Draft submitted with agenda to all committee members.
- Deferred to November meeting for approval.

e) Online calculator to align with technical bulletins

Not yet started.

f) CHBDC – Table 5, 7.6 – update

Pat will reach out to Kevin Williams who is the chair of this section within CHBDC.

g) Update Technical Bulletin #31 (Geomembranes over Buried Bridges & Culverts) to align with CHBDC

Draft underway and will be reviewed at the November meeting.

New Business

a) Region of Waterloo ON
- Product applications for spiral rib profile for storm sewer market sent to Armtec & AIL for completion.

b) City of Hamilton ON
- Product applications for spiral rib profile for storm sewer market sent to Armtec & AIL for completion.

c) Hot Dipped Galvanizing Bolt Issue – Leland
- No update

Graham stated that the applications will be completed by the end of October and Pat will follow up with AIL. Once completed and sent, Ray will touch base with the contacts and set up presentations. Graham also mentioned that he reviewed all of Ontario and that not all municipalities follow this same doctrine.

7. Adjourn & Next Meeting on November 17th in Waterloo ON – Delta Hotel

The meeting was adjourned at **11:45 am** motioned by **Scott MacRae** and second by **Kamran Derayeh** and was carried unanimously.

Pat Mayne	Ray Wilcock
Chair	Executive Director