

8:30 A.M. to 10:00 A.M. EST, Thursday November 18th, 2021
Homewood Suites by Hilton, Cambridge, ON

Present:

Jason Sherwood, Chair	Atlantic	Ian Kalverda	Hubb-Cap
Terry Dunn	Atlantic	Mike Williamson	Hubb-Cap
Gerald Quinlan	Atlantic	Kamran Derayeh	AMD
Greg Wilkinson	Atlantic	David Newbigging	AMD
Sam Mitra	Armtec	Lucas Cooper	AMD
Liz Bouchard	Armtec	Dave Watson	Leland
Roger Leger	Armtec	Mike Mounts	Valfilm
Scott MacRae	Armtec	Mike McGough	NCSPA
Bruce Matheson	Frontier	Ray Wilcock	CSPI

1. AISI Antitrust Guidelines - Ray

Ray presented the AISI Antitrust Guidelines that are in effect for all CSPI meetings.

2. Welcome and Opening Remarks – Jason

Jason opened the meeting and welcomed all members. Attendance was taken and is recorded above.

3. Review Minutes from June 14th, 2021, and Approve

Minutes were reviewed and accepted. A motion for approval was made by **David Newbigging**, second by **Kamran Derayeh**.

4. Strategic Plan Overview

a) Market focus - DOT and key municipalities

Covered under the KPI results below.

b) Educate colleges and university students (in person / webinars)

Covered under the KPI results below.

c) Review top 10 reasons – why steel?

Discussion:

Light weight #4 – 95.7% less, put in bold
Send to Liz for call outs
Put a space between 900 and m
Rank advantages from largest to smallest
A slide following a graph showing the differences – Liz
Use a \$ number in savings
Add design life – based upon 75 years – bullet point
#5 – change gauge to design thickness
#6 – put in \$ “amount of half million”
#8 – Change burry to bury
Use the Tubao picture of storm sewer in Swiss mountains

Make changes for review with release of minutes.

5. Key Performance Indicators (KPI)

a) DOT update

<u>NF</u>	Standards currently being updated to include polymer materials and NZF3000 bolts with all information provided.
<u>PEI DOT</u>	Standard proposals sent in 2020. Accepted Galvanized S.P. in bridge standards and Aluminized Type II in culverts. Polymer laminated and coated will be in next update.
<u>NB</u>	Serge Gagnon has requested polymer laminated / coated projects within NB. Have reached out to members for projects.
<u>NS</u>	Latest standards published include polymer coated plate.
<u>MTQ</u>	Drafted recommendations for Tome III – polymer 75 years-service life. Working with a flexible pipe consortium group (CSPI, ADS & Soleno). Translation of bolt test report into English.
<u>MTQ</u>	Sharon Berg – no present changes to the Gravity Pipe Design Guidelines. Walter Kenedi – held initial meeting, on November 12th and discussed the Bridge File. Agreed to start with review of Culvert & Structural Plate Planning guidelines and make recommendations in the new year.
<u>MIT</u>	Recommendations submitted – Danielle Salem now in charge. Future discussions to take place.

BCMOT

WEBEX meeting held on the Oct 19th to discuss proprietary structures. CSPI (BC Members) responded to requests mid-November.

DOT Table

Owner	Gal. CSP	AL2 CSP	PL CSP	Gal. SP	TP SP	HDPE	RCP	Certification	Value Eng.
NL	No	Yes	YES	Yes	YES	<600mm	Yes	YES	Yes
PEI	Yes	YES	No	YES	No	Yes	Yes	Submitted	No
NS	Yes	Yes	No	Yes	YES	Yes	Yes	Submitted	Yes
NB	No	Yes	No	Yes	No	Yes	Yes	Submitted	Yes
QC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes – CSP	Yes
ON	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MB	Yes	No	No	Yes	No	?	Yes	No	Yes
SK	Yes	YES	YES	Yes	YES	Yes	Yes	Yes	Yes
AB	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NT									
YT									
NU									

b) Municipality Update

Kawartha Lakes ON Presented storm sewer on March 17th with 10 regional staff attending.

Hamilton ON

Received an approval for spiral rib pipe (aluminized and polymer laminated) for culvert installations. Response to disallowing spiral rib into storm sewer standards is unacceptable. SWAT team to review submission and respond.

Calgary AB

City confirmed that CETA has had no impact on product approvals at this time. (Canadian / European Trade Agreement)

Guelph ON

Met with the Environmental Engineering Department on the 20th for a tour of highway drainage and SWM infrastructure from 1972 & underground SWM tanks from 1990.

Barrie ON

Target Engineering dept with virtual presentation later this year as they are considering starting a new stormwater climate action fund.

Municipalities Table

Municipality	Gal. CSP	AL2 CSP	PL CSP	HDPE/ PVC	RCP	Value Eng.
Vancouver Storm Sewer Culverts	No No	No No	No No	? ?	Yes Yes	
Langley	Follow Van					
Victoria						
Edmonton Storm Sewer Culverts	No Yes	No No	No No	PVC PVC	Yes Yes	
Calgary Storm Sewer* Culverts	Yes Yes	Yes No	Yes No	PVC & PE App. Req.	Yes No	
Saskatoon						
Regina Storm Sewer Culverts	No Yes	No Yes	No Yes	PVC<450mm HDPE	? Yes	
Winnipeg	Pending	No	No	PVC<900mm	Yes	
Thunder Bay Storm Sewer Culverts	No No	No Yes	No No	PVC<375mm HDP<900mm	Yes No	
Sudbury						
Toronto Storm Sewer Culvert	No	No	No	PVC	Yes	
Hamilton Storm Sewer Culvert	No Yes	No Yes	No Yes	PVC HDPE	Yes Yes	
London	No	No	No	Yes	Yes	
Windsor Storm Sewer Culverts	Yes No	Yes No	Yes No	Yes PVC & PE	Yes Yes	
Reg. Waterloo Storm Sewer Culverts	No No	No No	No No	PVC Yes<600mm	Yes Yes	
St. Catharines Storm Sewer Culverts	No Yes	No Yes	No Yes	Yes Yes	Yes Yes	
Kingston	No	No	No	PVC	Yes	
Ottawa						
Oshawa						

Montreal						
Sherbrooke						
Quebec City						
Trois- Rivieres						
Saguenay						
Fredericton Storm Sewer Culverts	No No	No No	No No	Yes No	Yes Yes	
Moncton						
Halifax Storm Sewer Culverts	No No	No No	No No	Yes HDPE/PE	Yes Yes	
St. Johns	No	No	No	Yes	Yes	

* Mains only, requires approval from Water Resources on a case-by-case basis

c) Number of Students/Institutions presented in last 12 months

<u>Date</u>	<u>University / College</u>	<u># of Students</u>
Jan 25 th	University of BC	100
Feb 1 st	BCIT BC	10
Feb 3 rd	Lakehead University T.B.	12
Feb 3 rd	York University ON	80
Feb 4 th	University of BC (Forestry)	16
Feb 8 th	Niagara College ON	14
Feb 8 th	Sask Polytech SK	33
Feb 23 rd	University of Waterloo ON	105
Feb 25 th	Ryerson University ON	65
Mar 1 st	St. Clair College ON	30
Mar 2 nd	RMC University ON	10
Apr 6 th	University of Guelph ON	23
May 21 st	University of Windsor ON	60
Jul 26 th	SAIT College, Calgary AB	13
Oct 7 th	Ryerson University Toronto ON	150
Oct 14 th	Western University London ON	65
Oct 29 th	Queen's University Kingston ON	10

17 Guest Lectures 796 Students

Discussion:

Look at Environmental courses, etc., reach out to Dean of Engineers
Start tracking those universities who teach steel, etc.

6. Assessment

a. Feedback from DOT's & Municipalities

<u>DOT</u>	<u>Date</u>	<u>Comments</u>
NL	Jul 2021	Standards currently being updated, to include polymer materials and NZF3000 bolts with all information provided.
PEI	Jun 2021	Standard proposals sent in 2020. Accepted Galvanized S.P. in bridge standards & Aluminized Type II in culverts. Polymer laminated and coated will be in next update.
NS	Dec 2020	Latest standards published include polymer coated plate.
NB	Nov 2020	Serge Gagnon has requested polymer laminated / coated projects within NB. Have reached out to members for projects.
MTQ	May 2021	Drafted recommendations for Tome III – polymer 75 years-service life. Working with a flexible pipe consortium group (CSPI, ADS & Soleno). Translation of bolt test report into English.
MTO	Nov 2021	Sharon Berg – no present changes to the Gravity Pipe Design Guidelines. Walter Kenedi – held initial meeting, on November 12th and discussed the Bridge File. Agreed to start with review of Culvert & Structural Plate Planning guidelines and make recommendations in the new year.
MIT	Nov 2020	Recommendations submitted – Danielle Salem now in charge. Future discussions to take place.
SK	Jul 2020	Accepted material updates (A2 and PL) to standards. First PL project released. Outstanding items include: 1) 2010 report on maximum lengths of CSP, 2) study on unbalanced skews C.D. Smith's book
AT	Oct 2020	Bridge Fabrication Inspection Guidelines to include an appendix for diameters >1500mm. AT accepted the majority of our recommendations.
BC	Nov 2021	WEBEX meeting held on Oct 19th to discuss proprietary structures. CSPI (BC Members) responded to requests mid-November.

Municipality Feedback

<u>Municipality</u>	<u>Date</u>	<u>Comments</u>
St. John's NL	Mar 2020	<i>"Our position at this time on CSP is that we will use structural plate for structures but have not moved towards using it for storm sewers or culverts."</i>
Halifax NS	Sep 2019	Refused our application (not interested). Subsequent follow ups have received zero attention. Sent letter to Mayor – heard from G.M. Evasive and dismissive and quite rude.
Fredericton NB	Mar 2020	Met with Jody Boone on Mar 11 th . Documents sent on March 22 nd . Follow up cancelled due to COVID.
Hamilton ON	Oct 2021	Received an approval for spiral rib pipe (aluminized and polymer laminated) for culvert installations. Response to disallowing spiral rib into storm sewer standards is unacceptable. SWAT team to review submission and respond.
Barrie ON	Oct 2021	Target Engineering dept with virtual presentation later this year as they are considering starting a new stormwater climate action fund.
Kingston ON	Jul 2020	Product application sent. No response to date.
Windsor ON	Dec 2019	Application sent along with backup documents. Follow ups have received no feedback. Elevate.
London ON	Dec 2019	Application sent along with backup documents. Informed that committee has not met yet. Followed up with Jane Fullick who passed it on to Marcus Schaum. Waiting to hear back. F/U.
St. Catharines ON	Dec 2019	Application sent along with backup documents. No response from Dan Dillon who retired. Made contact with replacement, Anthony Martuccio. Waiting for response. F/U.
Thunder Bay ON	Jul 2020	Storm sewer presentation to Rick Harms and staff. AIL & Armtec attended. Will f/u.
Waterloo Region ON	Aug 2019	Storm sewer presentation to the committee on May 14 th . Received email on Aug 30 th that our application had been denied. Sent email to William Kinnaird requesting a reason for their decision. Will be discussed in PPC/TAC meetings.

<u>Municipality</u>	<u>Date</u>	<u>Comments</u>
Welland ON	Aug2020	Storm sewer presentation to Marvin Ingebrigsten and staff. AIL & AMD attended. Well, received. Suggested trial runs. Members to f/u.
Winnipeg MB	Jul 2020	Application and documents mailed on Dec 21 st , 2018. Spoke with Tyler Phillips in Dec 2019, the committee has yet to review our application. Will follow up in 2021.
Calgary AB	Feb 2021	City confirmed that CETA has had no impact on product approvals at this time. (Canadian / European Trade Agreement).
Vancouver BC	Mar 2020	Met with Dane Doleman on Mar 29 th . Standards are in disarray and are being consolidated. He asked if we would wait until published. Will follow up in 2021.

b) Storm sewer market issues – SWAT Team Feedback

- Objective: Develop a strategy to penetrate municipal storm sewer market.
- 17 Members on the Team
- 5 Meetings held thus far in 2021

Past Discussion Points

- Target municipal associations and educate.
- Significant campaign which includes elected officials. Political campaign targeted to cost savings and carbon footprint.
- Case studies – one-page snapshots of polymer projects. (CSP, SRP & SPCS)
- Focus on municipalities where installations have taken place.
- Reinforce time savings of installation and transportation versus RCP
- Urban – polymer laminated only.
- Campaign on carbon calculator and coatings of materials
- Hashtag cities, municipal associations (e.g., BC Union of Municipalities & Public Works)
- Promote the Handbook and downloading capabilities

New Discussion Points

- City of Hamilton has accepted spiral rib pipe into their culvert standards, following up on storm sewers. AMD to help later this year.
- Have received 3 one-page snapshots from Liz and 1 from Mike Desautels. We are looking for a minimum of 3 per province.
- Abstracts submitted to MEA (ON), CSCE, SMSB & CEA (AB). Thus far, accepted by MEA - presentation on Nov 24th on Spiral Rib Pipe for Storm Sewers.
- Please send me any provincial associations calling for speakers / papers.
- OGRA webinar on storm sewers will be scheduled later this year.
- Approved MITACS project for Municipal Standards Review – Pitfalls & Barriers

New Discussion:

- Add municipalities to the list who accept SWM systems
- Put out call for student on Linked In – work with Liz to edit
- Sam - send it to Public Policy schools
- Gerald – Municipalities have not been making the case of the Environmental cost of concrete pipe. Focus on large municipalities, Peel, Halton, Waterloo, Ottawa regions. Stop the Quarry – political.

c) Academic Education feedback

No feedback

7. Discussion / New Business / Old Business

Kamran – “Steligence department”. Case studies comparing steel versus other materials for buildings. They look at social, cost, schedule & environment. Use 3rd party consultant to look at the two materials for a storm sewer project. Kamran to take this up with AMD team and report back. Members to look at actual projects that have potential to be compared.

8. Strategic Plan Adjustments

No change to current strategy of targeting DOT’s, Municipalities, and education.

9. Adjourn & Next Meeting

The meeting was adjourned at **10:20am EST** with a motion from **Mike Williamson**, second by **Terry Dunn**. The next meeting will be held in June 2022 at the annual meeting in Victoria BC, dates, and place to be determined.

Jason Sherwood
Chair

Ray Wilcock
Executive Director