

AASHTO/NSBA Steel Bridge Collaboration Meeting



Fall 2018 - Austin, TX

Location

Sheraton Austin Hotel at the Capitol
701 East 11th Street. Austin, TX 78701

Meeting Dates

Monday, October 8 1:00 p.m. - 7:00 p.m.
Tuesday, October 9 8:00 a.m. - 5:00 p.m.
Wednesday, October 10 8:00 a.m. - 3:00 p.m.

Meeting Schedule

The following Task Groups are scheduled for this upcoming meeting. Note that in addition to their respective individual meetings, there will be a combined TG 2, TG 4, TG 10 meeting on Wednesday.

Monday, October 8 (1:00 p.m. - 7:00 p.m.)

Time	Meeting	Room Name
1:00 p.m. - 5:00 p.m.	TG 2 Fabrication and Repair	Capitol View Terrace North
1:00 p.m. - 5:00 p.m.	TG 12 Design for Economy & Constructability	Capitol View Terrace South
5:00 p.m. - 7:00 p.m.	AASHTO T17 - Technical Committee on Metals Fabrication	Capitol View Terrace South

Tuesday, October 9 (8:00 a.m. - 5:00 p.m.)

Time	Meeting	Room Name
7:30 a.m. - 8:00 a.m.	Working Breakfast	Capitol View Terrace Foyer
8:00 a.m. - 12:00 p.m.	TG 8 Coatings	Capitol View Terrace North
8:00 a.m. - 10:00 a.m.	TG 11 Steel Bridge Handbook	Capitol View Terrace South
10:00 a.m. - 12:00 p.m.	TG 15 Data Modeling for Interoperability	Capitol View Terrace South
12:00 p.m. - 1:00 p.m.	Lunch	Capitol View Terrace Foyer
1:00 p.m. - 3:00 p.m.	TG 1 Detailing	Capitol View Terrace North
3:00 p.m. - 5:00 p.m.	TG 10 Erection	Capitol View Terrace North
1:00 p.m. - 5:00 p.m.	TG 16 Orthotropic Deck Panels	Capital View Terrace South
6:30 p.m. - 9:00 p.m.	Dinner (off-site)	Pelon's Tex Mex

Meeting Schedule (Continued)

Wednesday, October 10 (8:00 a.m. - 3:00 p.m.)

Time	Meeting	Room Name
7:30 a.m. - 8:00 a.m.	Working Breakfast	Capitol View Terrace Foyer
8:00 a.m. - 10:00 a.m.	TG 4 QA/QC	Capitol View Terrace North
10:00 a.m. - 12:00 p.m.	Collaborative Meeting (TG 2, TG 4, TG 10)	Capitol View Terrace North
8:00 a.m. - 12:00 p.m.	TG 13 Analysis of Steel Bridges	Capitol View Terrace South
12:00 p.m. - 1:00 p.m.	Lunch	Capitol View Foyer
1:00 p.m. - 3:00 p.m.	Collaboration Main Committee	Capitol View Terrace South

Meeting Registration

All collaboration meetings are free and open to anyone interested in attending. Please indicate your [attendance plans here](#) by **Monday, September 17, 2018**.

Hotel Information

This meeting will take place at the Sheraton Austin Hotel at the Capitol.

Address: 701 East 11th Street, Austin, TX 78701

Please contact sawyer@aisc.org to obtain room block information.

Contact Information

For questions regarding meeting times, attendance plans, or hotel information, please contact sawyer@aisc.org. All other questions can be directed to nsbacollaboration@steelbridges.org.

About the Collaboration

The mission of the Collaboration is to achieve quality and value in steel bridges by standardization of design, fabrication and erection and by the sharing of resources. Through the Collaboration, steel bridge professionals work together in a spirit of cooperation and mutual respect to develop details, specifications and practices and to exchange knowledge, technology and expertise.

For More Information Visit: www.steelbridges.org/CollaborationStandards

Agendas

TG 1



NSBA Collaboration – Fall 2018
Task Group TG 1: Detailing
Sheraton Austin Hotel at the Capitol
701 East 11th Street.
Austin, TX 78701

Task Group Mission: This Task Group is specifically responsible for the creation and maintenance of guidelines and best practices for the creation of clear concise design and fabrication drawings.

Task Group Chair: Brad Dillman - High Steel Structures (bdillman@high.net)

Meeting Agenda - Tuesday, October 9 (1:00 PM to 3:00 PM)

1. Attendee Introductions - All (1:00 PM – 1:05 PM)
2. G1.1 Ballot Comments (1:10 PM – 2:00 PM)
 - a. Review and Disposition of Comments
 - b. Next Steps for G1.1 Approval
3. G1.2 Update (2:00 PM – 2:30 PM)
 - a. Outline of path forward
 - b. G1.2 Drawing Files – Establish team to update or develop new files
 - c. G1.2 Comments Received to-date – Brief review and call for additional comments
4. BIM for Bridges and Structures Pooled Fund Study (2:30 PM – 2:45 PM)
 - a. Brief Overview
 - b. Establish TG15/TG1 Subtask Group (led by Aaron Costin)
5. 2019 NASCC Presentation on Communication of Design Requirements (2:45 PM – 2:55 PM)
6. Final Discussion
7. Adjourn



NSBA Collaboration – Fall 2018
Task Group TG 2: Fabrication and Repair
Sheraton Austin Hotel at the Capitol
701 East 11th Street.
Austin, TX 78701

Task Group Mission: This Task Group aims to achieve quality and value in the fabrication of steel bridges through standardization of steel bridge fabrication across the nation. Historically, State Departments of Transportation (DOTs) have written their specifications based on AASHTO standards and their own individual experiences.

Task Group Chair: Heather Gilmer - HRV (hgsteelfab@gmail.com)

Meeting Agenda - Monday, October 8 (1:00 PM to 5:00 PM)

1. Attendee Introductions - All
2. Don White to briefly discuss upcoming study of bottom flange thickness limits for steel box girders
3. Updates
 - a. S2.1
 - b. Joint bolting TG
 - c. T-17 meeting
4. AASHTO steel fabrication specification - resolution, in general terms, of discrepancies between S2.1 and AASHTO Chapter 11 approaches
5. Other topics as time permits
 - a. S2.1 Scribing/etching markings
 - b. G2.2 Improper preheat
 - c. S2.1 Slip coefficients
 - d. S2.1 Pre-installation verification
 - e. S2.1 Procedures/submittals
 - f. G2.2 Framing members too short
 - g. G2.2 Orthotropic deck repairs
 - h. S2.1 Splice gap
6. Adjourn



NSBA Collaboration – Fall 2018
Task Group TG 2, TG 4, TG 10: Collaborative Meeting
Sheraton Austin Hotel at the Capitol
701 East 11th Street.
Austin, TX 78701

Task Group Mission: The Task Group itself is a collaboration of other Task Groups like TG2, TG4 and TG10.

Task Group Chairs: - Heather Gilmer – HRV (hgsteelfab@gmail.com), Steve Duke - Florida DOT (Steve.Duke@dot.state.fl.us) and Jason Stith - Michael Baker International (Jason.Stith@mbakerintl.com)

Meeting Agenda - Wednesday, October 10 (10:00 AM to 12:00 PM)

1. Attendee Introductions - All (10:00 AM – 10:15 AM)
2. Review Subcommittee Direction (10:15 – 10:30)
 - a. Change of direction at last meeting with new theme:
We have a system to qualify welders, why not something similar for bridge bolters?
 - b. Formed to subcommittee 2 subcommittees chaired by Anna Petroski and Karl Frank
3. Qualification of Bridge Bolters (Chair: Anna Petroski) (10:30 – 11:15)
 - a. Summary of interim meetings
 - b. Current action items
 - c. Path forward / Discussion
4. Outline of Instructional Material (Chair: Karl Frank) (11:15 – 11:45)
 - a. Current action items
 - b. Path forward/ Discussion
5. General Discussion (11:45 – 11:55)
6. Adjourn (11:55 – 12:00)



NSBA Collaboration – Fall 2018

Task Group TG 4: QA/QC

Sheraton Austin Hotel at the Capitol
701 East 11th Street.
Austin, TX 78701

Task Group Mission: This task Group primarily focuses on the requirements for a Fabricator’s quality control program, with emphasis on the development and implementation of a quality control plan and minimum requirements for an Owner’s quality assurance program.

Task Group Chair: Jamie Hilton – KTA-Tator, Inc. (jhilton@kta.com) –

Co-Chair: Tim McCullough - Florida DOT (Timothy.McCullough@dot.state.fl.us)

Meeting Agenda - Wednesday, October 10 (8:00 AM to 10:00 AM)

1. Attendee Introductions - All (8:00 AM – 8:10AM)
2. Address AASHTO T-14 Comments on G4.1 Document if they become available (8:10am to ?)
3. G4.2 Recommendations for the Qualifications of Bolting Inspectors – discussion on where it belongs. Remain in TG4 or move to the new TG2-TG4-TG10 Collaboration
4. Discussion on what’s next for TG4 and what QC/QA issues should be addressed
 - a. Possible subjects:
 - i. Develop a sample QC Plan
 - ii. Develop a sample QA Plan
 - iii. Advance inspection techniques
5. Adjourn (10:00am) (TG2-TG4-TG10 Collaboration to meet immediately afterwards)



NSBA Collaboration – Fall 2018
Task Group TG 10: Erection
Sheraton Austin Hotel at the Capitol
701 East 11th Street.
Austin, TX 78701

Task Group Mission: This Task Group develops guidelines that establish and define the basic, minimum requirements for the transportation, handling and erection of steel bridge components to ensure safe and accurate steel erection as well as quality and value in the completed bridge structure.

Task Group Chair: Jason Stith - Michael Baker International (Jason.Stith@mbakerintl.com)

Brian Witte – Parsons (Brian.Witte@Parsons.com) Future Chair

Meeting Agenda - Tuesday, October 9 (3:00 PM to 5:00 PM)

1. Attendee Introductions - All (3:00 PM – 3:15 PM)
2. NCHRP 20-07/Task 415 Bottom Flange Limits for Steel Boxes (3:15 – 3:45)
 - a. Introduction and investigation inquiry
 - b. Pass out and complete survey
 - c. Open discussion
3. S10.1 Revisions (3:45 – 4:00)
 - a. Updates to Appendix A-C (align with new ASTM F3125)
 - b. Cover Pictures
 - c. Next Steps (Collaboration Balloting, AASHTO review, etc.)
4. Bolting for Bolter Update (4:00 – 4:20)
 - a. System exist to qualify welders, need a system to qualify bolters
 - b. Group to develop a document that describes the qualifications for bridge bolters to be chaired by Anna Petroski
 - c. Group to develop initial training outline to use chaired by Karl Frank.
5. Subcommittee on Geometric Tolerances (4:20 – 4:50)
 - a. Did not meeting in the interim.
 - b. Need to identify point person for group.
 - c. Next steps
6. Adjourn and summary (4:50 – 5:00)



NSBA Collaboration – Fall 2018
Task Group TG 11: Design
Sheraton Austin Hotel at the Capitol
701 East 11th Street.
Austin, TX 78701

Task Group Mission: This Task Group is primarily responsible for the development and maintenance of consensus guidelines to assist with the design of steel bridges and their components.

Task Group Chair: Brandon Chavel - HDR (brandon.chavel@hdrinc.com)

Meeting Agenda - Tuesday, October 9 (8:00 AM to 10:00 AM)

1. Attendee Introductions - All (8:00 AM – 8:10 AM)
2. Administrative Items (8:10 AM – 8:15 AM)
 - a. The Task Group name has been changed to “Design”
 - b. Review of Vision and Mission of the Task Group.
3. Don White (8:15 AM – 8:30 AM)
 - a. NCHRP 20-07/415, Proposed AASHTO Guidelines for Bottom Flange Limits of Steel Box Girders.
 - b. Discussion and Survey
4. Guidelines for the Design of Cross Frames progress (8:30 AM – 9:30 AM)
 - a. Review status and revisions, and open comments from 1st draft
 - b. Timeline for 2nd draft of document
 - c. Interim meetings between Collaboration Meetings, Go-To Meetings. Dates to be scheduled.
5. Open Discussion for TG regarding design issues (9:30 AM – 9:55 AM)
6. Adjourn



NSBA Collaboration – Fall 2018
Task Group TG 12: Design for Constructability and Fabrication

Sheraton Austin Hotel at the Capitol
701 East 11th Street.
Austin, TX 78701

Task Group Mission: This Task Group primarily focuses on addressing the questions that have been and are continually asked concerning the constructability of steel bridges according to the latest practice for steel mills, fabrication, detailing, erection, and design.

Task Group Chair: Allan Berry - RS&H (allan.berry@rsandh.com)

Meeting Agenda - Monday, October 8 (1:00 PM to 5:00 PM)

1. Attendee Introductions - All (1:00 PM – 1:10 PM)
2. Updated G12.1 Guidelines to Design for Constructability and Fabrication – Allan Berry, RS&H (1:10 PM – 2:10 PM)
 - a. Status of document revisions.
 - b. Process and timetable for document review and approval by the full Collaboration, AASHTO T-14, SCOBS, and AASHTO publishing.
 - c. Discussion of outstanding comments and issues.
3. NCHRP 20-07/415, Proposed AASHTO Guidelines for Bottom Flange Limits of Steel Box Girders Fabrication – Don White, Georgia Institute of Technology (2:10 PM – 2:30 PM)
 - a. Summarize the project and request input from the group.
4. Break (2:30 PM – 2:45 PM)
5. New Task Group 5: Develop a Steel Repair and Rehabilitation document – Kyle Smith, GPI (2:45 PM – 4:30 PM)
 - a. Discuss objectives and determine mission statement.
 - b. Outline list of topics to be addressed and discuss potential additional/replacement items.
 - c. Solicit volunteers for writing assignments.
6. *AASHTO Guide Specification for Internal Redundancy of Mechanically-fastened Built-up Steel Members* - Jason Lloyd, NSBA (4:30 PM – 5:00 PM)
 - a. Presentation for a proposed evaluation guide.
 - b. Open-floor discussion for feedback on proposed guide.

7. Adjourn



NSBA Collaboration – Fall 2018
Task Group TG 13: Analysis of Steel Bridges
Sheraton Austin Hotel at the Capitol
701 East 11th Street.
Austin, TX 78701

Task Group Mission: This Task Group focus has been the development of guidance on the issues related to steel girder bridge analysis and to educate Engineers so that they can better make decisions for their own projects.

Task Group Chair: Deanna Nevling - Michael Baker International (DNeuling@mbakerintl.com)

Fall 2018 Meeting Chair: Frank Russo – Michael Baker International

Meeting Agenda - Wednesday, October 10 (8:00 AM to 12:00 PM)

1. Attendee Introductions - All (8:00 AM – 8:15 AM)
2. Housekeeping (8:15 AM – 8:30 AM)
 - a. Sign-in Sheet
 - b. Turn Off/Mute Cell Phones and Type Softly on Computers
 - c. Meeting Minutes – Minneapolis, MN – May 1, 2018
3. General Announcements (8:30 AM – 9:00 AM)
 - a. Conferences/Research/Publications
 - b. NSBA Update
 - c. FHWA Update – Dayi Wang, FHWA Steel Specialist
 - d. TRB AFF20 (Steel Bridges Committee) Update – Domenic Coletti, Chair
 - e. AASHTO SCOBS Update (T-14 Structural Steel Design) – Frank Russo
4. G13.1 *Guidelines for Steel Girder Bridge Analysis* – Domenic Coletti (9:00 AM – 9:30 AM)
 - a. Path Forward
5. Presentation: ““Accelerated CSX Truss Bridge Replacement,” – Joshua Orton (9:30 AM – 10:00 AM)
6. Break (10:00 AM – 10:15 AM)
7. G13.2 *Guidelines for Steel Truss Bridge Analysis* (10:15 AM – 12:00 PM)
 - a. Purpose Statement: *The Guidelines for Steel Truss Bridge Analysis provides engineers with guidance on methods of analysis for steel trusses and can be used for analyzing the trusses for design, erection, rehabilitation, or load rating.*
 - b. Volunteers to Write Sections

- c. Review Comments Received from TG 13
 - d. Path Forward: Submit New and Revised Section by January 31, 2019
 - Revised Document Sent out for Review by February 28, 2019
 - Comments Compiled and Discussed During Spring 2019 Meeting
8. Adjourn (12:00 PM)



NSBA Collaboration – Fall 2018
Task Group TG 16: Orthotropic Deck Panels
Sheraton Austin Hotel at the Capitol
701 East 11th Street.
Austin, TX 78701

Task Group Mission: This Task Group aims to establish an Orthotropic Steel Deck (OSD) panel design that can be cost effectively produced in the United States for the bridge market.

Task Group Chair: Duncan Paterson - HDR (Duncan.Paterson@hdrinc.com)

Meeting Agenda - Tuesday, October 9 (1:00 PM to 5:00 PM)

1. Attendee Introductions - All (1:00 PM – 1:10 PM)
2. General updates and announcements, review of previous meeting minutes (1:10 PM – 1:25 PM)
3. Presentation from Vigor on Orthotropic Deck Fabrication (1:25 PM – 2:00 PM)
4. Task Group updates (2:00 PM – 4:00 PM)
 - a. Rolled formed ribs
 - b. State of Practice Synthesis
5. Old business and additional discussion (4:30 PM – 5:00 PM)
 - a. Floorbeam and diaphragm details
 - b. Rib Standardization
6. Adjourn