

**Summary Minutes Of The
AASHTOWare Bridge Design-Rating (BrDR) Task Force Meeting
June 25 - 26, 2020
Whitefish, MT (Virtual)**

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General Information – Meeting of the Bridge Design & Rating Task Force

Date: Wednesday, June 25, 2020

Participants:

AASHTO	Judy Tarwater	AASHTO	Project Manager
SCOA	Tim Armbrecht	SCOA	SCOA Liaison
T&AA	Will Holmes	T&AA	T&AA Rep
BrDR Task Force	Todd Thompson	South Dakota DOT	Chair
	Mark Bucci	Louisiana DOTD	Bridge Rating (BrD)
	Joshua Dietsche	Wisconsin DOT	Bridge Rating (BrR)
	Michael Johnson	Idaho TD	Bridge Rating (BrR)
	Dean Teal	Kansas DOT	Bridge Design (BrD)
	Tom Saad	FHWA	FHWA Liaison
	Vinacs Vinayagamoorthy	California DOT	Bridge Rating (BrR)
BrDR Contractor	Herman Lee	ProMiles	BrDR Contractor
	Geoff Trees	ProMiles	BrDR Contractor
	Tim Pilcher	ProMiles	BrDR Contractor
	Subhadeep Ghosh	ProMiles	BrDR Contractor
	Hanjin Hu	Baker	BrDR Contractor
BrM Task Force	Beckie Curtis	Michigan DOT	Bridge Management
Guest	Jeff Ruby	Kansas DOT	Bridge Design (BrD)
	William Metcalf	Louisiana DOTD	RADBUG

Notes Taker: Judy Tarwater and Mark Bucci.

Agenda Item 0: Review Agenda/Assign Minutes

Recorder

Todd Thompson opened the meeting at 9:00am. The agenda was reviewed and no additional agenda items were added at this time.

Agenda Item 1: Prior Business

1a. Review April Meeting Minutes

Minutes from the April 13 - 14, 2020 Virtual Task Force Meeting (Savannah, GA) were reviewed. There was a typo under agenda item 2b. (BrM Modernization should be changed to BrDR Modernization). With this update the meeting minutes were approved.

1b. Review Action Items

Vinacs reviewed the Action Items and provided updates to the Task Force.

ProMiles demonstrated a video snippet “how to” on how to perform an LRFR Rating on a Steel Rolled Beam in BrDR. The Task Force was impressed with the video quality and discussed the possibility of developing similar training tutorials for other functions within BrDR. ProMiles will develop cost estimates for developing video training to support BrDR features for Task Force consideration (for possible use during the 2020 RADBUG meeting).



Agenda Item 2: Financial Overview and Work Plan Summary

2a. Update of the FY2020 MSE Work Plan

ProMiles provided an update of the FY2020 MSE work plan budget as of 05/31/20.

ProMiles reported that there will be no service unit project work charged against the FY2020 BrDR MSE.

2b. Update Modernization Phase 4 Work Plan

ProMiles provided an update of the BrM Modernization work plan budget as of 05/31/20.

Agenda Item 3: Update on BrDR Licenses (FY2020)

3a. Product Report

Judy Tarwater presented a product license summary report developed from the Excel output from AASHTOWare Manager. The report included licenses ordered as of 06/12/2020.

Item	FY18	FY19	FY20	Sponsoring Agency
Bridge Design - 120-Day Evaluation License	5	2	4	
Bridge Design Developer License	2	1	2	
Bridge Design Educational License	11	12	9	
Bridge Design Single Workstation Option	3	4	7	
Bridge Design Special Consultant Option	39	31	35	
Bridge Design Unlimited Option Members	16	16	17	*
Bridge Design Unlimited Option (Non-Members)	N/A	0	0	
Bridge Design/Rating Service Units	94	38	106	
Bridge Rating				
Bridge Rating - 120-Day Evaluation License	16	6	8	
Bridge Rating Agency Sponsored Consultant Licenses	3	4	4	ILDOT, MIDOT, OHDOT, VADOT
Bridge Rating Developer License	6	7	7	

Item	FY18	FY19	FY20	Sponsoring Agency
Bridge Rating Educational License	11	13	9	
Bridge Rating Single Workstation Option	59	26	27	
Bridge Rating Special Consultant Option	438	358	382	
Bridge Rating Unlimited Option (Members)	41	35	37	**
Bridge Rating Unlimited Option (Non-Members)	N/A	12	16	
Sponsored Consultant Licenses (Bridge Rating) - No Fee	139	119	137	ILDOT
Sponsored Consultant Licenses (Bridge Rating) - No Fee	107	94	106	MIDOT
Sponsored Consultant Licenses (Bridge Rating) - No Fee		99	106	OHDOT
Sponsored Consultant Licenses (Bridge Rating) - No Fee	84	78	78	VADOT
PGSuper Professional	2	3	4	KDOT, MassDOT, ORDOT, Caltrans
BridgeLink Professional	1	2	2	ITD, MSDOT

* Caltrans licensed Bridge Design Unlimited since the April Task Force Meeting
 ** Hawaii DOT licensed Bridge Rating Unlimited since the April Task Force Meeting

3b. Service Unit Report

ProMiles presented the service unit summary report. 75 new service units have been purchased in FY2020.

3c. Evaluation Software

The current summary of BrDR software evaluations was reviewed.

Agenda Item 4: Support and Maintenance Report

4a. Incident and Report Summary

ProMiles presented the Defect History Report through release 6.8.4. Twenty-seven (27) new defects have been added since the Task Force



meeting in April 2020. The total number of defects reported were 2815. Currently, 2588 defects have been resolved; 96 defects are not reproducible; 4 defects need more information; and 127 defects are unresolved. One hundred fifteen (115) of the unresolved bugs are categorized as high priority.

ProMiles presented the Task Force with an updated/revamped defect history report. The new format better categorizes the information and removes redundant data. The Task Force liked the new report format and requested ProMiles include the definition of each defect category (Urgent, Critical, High Priority, Low Priority) in future reports. Going forward ProMiles will use the new format.

4b. Progress on Bug Resolution

ProMiles presented the BrDR Maintenance Progress Report. As of 06/22/20 275 bugs have been reported. 148 of the reported bugs have been resolved and the remaining 127 have been assigned.

4c. Enhancement List Update

ProMiles presented an update on the Enhancement List. Two handouts were provided; TAG Enhancements Bucket List and total BrDR Enhancement List. Six (6) additional enhancements have been added to the BrDR Enhancement List since the last Task Force meeting.

Useability	BSSD-2466	Analysis Speed Observation
Useability	BSSD-2467	Saving Rating Results for a large run
Miss Function	BSSD-2486	Provide "Bearing Stiffener Locations" input for Floorbeam member alternatives
Useability	BSSD-2488	Run Time for Floorbeam needs improvement
Useability	BSSD-2518	Load Rating Tool enhancement to precompute without stopping

Miss Function	BSSD-2539	Slab Strip (Line Girder) Live Load Distribution
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The Task Force discussed enhancement ‘bucket’ categories and the need to be able to easily get a handle on the details of the enhancement requests.

The TAG Enhancement Bucket contains all the BrDR Enhancements by category. The Task Force discussed ways to organize the enhancements in the TAG Enhancements Bucket.

4b. Maintenance Issues

BrDR 6.8.4 Maintenance Release 1 was released in May, 2020. The issues identified in BSSD-2488 - BrDR extended run times for floorbeams with wide travelways (Caltrans) and BSSD-2536 – Shear Supports DF being applied at End Bents (MoDOT) were discussed.

BrDR 6.8.4 will be sunset June 30, 2022. BrDR 7.0 will be delivered in January 2021.

Agenda Item 5: Enhancements

5a. Floorbeam Analysis Improvements – AI 2020-BrDR-019

Action Item 2020-BrDR-019: Develop an estimate to update the algorithm BrR is using to improve the speed of analysis for floorbeam with a wide travelway and expose the transverse loading’s vehicle increment in lane and lane increment to the user interface and forward to the Task Force for review and approval.

ProMiles provided detailed information on the estimate to add user input for lane increment and vehicle increment in lane for transverse lane pattern generation related to floorbeam girder line analysis. Lane increment and vehicle increment in lane are currently defaulted to 4' and 2' respectively.



The Task Force asked ProMiles to provide a warning message to alert the user when the processing time is expected to be prolonged. The Task Force approved this enhancement to be included in BrDR 7.0 under Task Force Directed Work.

5b. IFC Converter Tool – AI 2020-BrDR-025

Action Item 2020-BrDR-025: Develop a cost estimate to support the incorporation of the IFC Converter Tool into the BrDR API

ProMiles presented estimates for three (3) approaches to incorporate the IFC Converter Tool into the BrDR API. The Task Force is considering the implementation of one of the three approaches and asked ProMiles to provide additional details on the implementation.

The Task Force discussed possibly moving forward with a request for RIPI funding to support this enhancement and including the enhancement in BrDR 7.1

Agenda Item 6: Modernization

6a. Project Update

ProMiles discussed the current status of the BrDR Modernization Project.

Modernized Engine

- Continued work on the conversion of the substructure engine

Modernized User Interface

- Continued development and testing of the overall framework, Bridge Explorer, Bridge Workspace, Library Explorer and Configuration Browser
- Continued development and detailed window testing of the Bridge Workspace windows

- Continued maintenance of the domain – the domain is finished
- Continued (phased by structure type) Alpha testing of the user interface
- Continued (phased by structure type) Beta testing of the user interface
- Delivered Beta 6 on June 2, 2020

BrDR Modernization development is on schedule and the focus is on the progress and efforts of the Beta Testing.”?

6b. 2020 Q2 Status Report

ProMiles presented the draft quarterly BrDR Modernization Status Report.

6c. TAG Update

The Task Force thanked Dean Teal for his years of dedicated effort serving as the Task Force liaison for the BrDR Testing TAG. Mike Johnson will assume Testing TAG liaison responsibilities going forward.

6d. Beta Testing Update

Beta 6 testing ends 07/17/20.

Agenda Item 7: Miscellaneous Topics

7a. TPF-5(372) Software Vendor Workshop Q2 2020

ProMiles staff attended the TPF-5(372) Software Vendor Workshop on June 17, 2020. Software vendor engagement of the project is forthcoming.

7b. Bridge Design Testing Response – Caltrans

Vinacs reports that Caltrans testing of AASHTOWare Bridge Design is still ongoing. Eight (8) bridge design engineers have been assigned to the load rating branch on rotation to allow them to get exposure to BrDR in order to bring



that knowledge back to the structure design branch. Bridge design engineers who are rotating through the load rating branch have been working on a variety of different structure types. Three (3) of the engineers used BrD software to model steel girder bridges.

7c. BrDR Reports TAG Membership

Vinacs reported that he has been working with folks in the BrDR user community to solicit volunteers to serve on the BrDR Report TAG. He has had a very good response and as secured commitments from 13 volunteers.

Curtis, Beckie	Michigan DOT, Chair
Vinayagamoorthy, Vinacs	California DOT, Co-Chair
Bucci, Mark	Louisiana DOT
Chernioglo, Igor	California DOT
Fuda, Julianne	New York DOT
Iser, A. Craig	West Virginia DOT
Patria, Christopher	Connecticut DOT
Paulson, Steven	Tennessee DOT
Ruby, Jeffrey	Kansas DOT
Stark, Richard	New York State DOT
Thompson, Todd	South Dakota DOT
Waheed, Amjad	Ohio DOT
Wang, Cindy	Ohio DOT

Vinacs will also include ProMiles staff in BrDR Reports TAG communiques and meeting invitations.

7d. BrDR Culvert TAG

Mike Johnson sent out an announcement email and received a lot of feedback from folks interested in serving as a member of the Culvert TAG.

Agenda Item 8: User Group

8a. Summary Minutes from the April Task Force Meeting

The summary minutes for the April BrDR Task Force Virtual (Savannah, GA) were provided. Judy Tarwater will post these on the SharePoint site for Task Force review and comment. Once in final form, the summary minutes will be forwarded to David Schroeder (RADBUG Secretary) for posting on the RADBUG website.

8b. 2020 RADBUG Meeting

The Task Force walked through the draft 2020 RADBUG meeting agenda and made recommendations for changes and additions. Billy Metcalf, RADBUG President, advised that he plans to finalize the presentation topics and presenters by the end of next week. Once complete, Billy will forward the final agenda to Judy Tarwater for distribution to the Task Force.

The Task Force made the decision to send RADBUG virtual meeting invitations to states who currently do not license either of the BrDR products. The following folks will be added to the member agency invitation list.

States not currently licensing BrDR:

Alaska	Elmer Marx
Arkansas	Rick Ellis Dennis Vire
Delaware	Jason Hastings
Georgia	Bill Duvall
Maine	Wayne Frankhauser
Maryland	Maurizio Agostino
Nevada	Jessen Mortensen
New Hampshire	David Scott
North Carolina	Brian Hanks
Oregon	Ray Mabey
Texas	Graham Bettis Steven Austin Yi Qiu Mark Wallace



Vermont	Kristin Higgins
Washington	Mark Gaines
Wyoming	Michael Menghini

8c. 2020 RADBUG Survey

Judy Tarwater provided the Task Force with the draft 2020 BrDR survey for review and discussion. The current draft is the result of feedback provided by ProMiles and AASHTOWare’s Customer Success Manager. Two new questions have been included in this survey.

- What are your agency's plans to upgrade to the modernized AASHTOWare BrD/BrR products scheduled to be released in December 2020? (less than 3 months, 3 to 6 months, 6 to 12 months, more than 12 months, unknown, other, please specify) This question will be asked of all member agency and local agency survey respondents.
- What is the likelihood that you would recommend the AASHTOWare Bridge Design-Rating software to a peer or colleague? On a scale of 1 (low value) to 10 (high value). This question will be asked of all survey respondents.

All questions from the 2019 are included.

The Task Force approved the survey with the two additional questions included.

8d. Updated BrDR Product Brochures

Judy Tarwater presented the updated Bridge Design and Bridge Rating product brochures to the Task Force for review and comment. The brochures were approved as-is.

Agenda Item 9: Work Plans

9a. Planning Estimates

Included under agenda item 9b.

9b. 7.1 and 7.2 Work Plans

Items noted with an **FP** number are enhancement tasks from the previous BrDR 7.1 Work Plan.

BrDR 7.1 is targeted for June 30, 2021. BrDR 7.2 is targeted for June 30, 2022. The anticipated release dates are based on current ProMiles staffing (to include the 4 developers recently hired) and work starting in October, 2020. ProMiles will continue to subcontract with Baker through

Tim Pilcher advised that ProMiles is working to increase development capacity by the summer of 2021.

None of the recommendations from the Reports TAG are included in the tasks for BrDR 7.1 or 7.2 given the preliminary nature of the defined requirements. The estimates are from the original estimation documents and do not include costs for automated testing. A majority of the estimates will increase by no more than 5% to support automated testing activities.

The Task Force advised that they would support delaying the delivery of BrDR 7.1 to August or September of 2021. Vinacs advised that if 7.1 could be delivered by June or July of 2021, Caltrans may be in a position to commit additional service units next summer to support additional BrDR enhancements.

ProMiles suggested looking in to the possibility of sending the final release candidate to all the states prior to the production release to catch any remaining bugs so they can be corrected before the final release.



Description	Source	Benefit	BrDR 7.1	BrD R 7.2
FP 1 Prestressed Concrete Design Tool Phase 2	TF	BrD	x	
FP 2 Steel Design Tool	TF, RIPI	BrD		x
FP 25 AASHTO Timber Engine for ASR and LRFR	TF	BrR		x
FP 38 Allow user to specify custom file paths for various output	TF	Both	x	
FP 36 BrM Web Service Integration	RIPI	BrR	x	
FP 3 BRDRSUP-1619 Schedule based RC I beam with post tensioning	CA 1, MS	BrR	x	
FP 4 BRDRSUP-1620 Phi factor for moment MCB PT	CA 2	BrR	x	
FP 5 BRDRSUP-1621 LLDf for one or two cell box girder bridges	CA 3	Both	x	
FP 6 BRDRSUP-1622 Limiting lever rule on single lane	CA 4	Both	x	
FP 7 BRDRSUP-1623 Limit applicability range values to lever rule	CA 5	Both	x	
FP 8 BRDRSUP-938 User-defined load distribution (DC2) to MCB webs	CA 6	Both	x	
FP 9 BRDRSUP-1624 Establish LLDf using full box case	CA 7	Both	x	
FP 10 BRDRSUP-936 Difference in skew between adjacent supports override	CA 10	Both	x	
FP 11 BRDRSUP-1627 Range of applicability for slabs	CA 11	Both	x	
FP 12 BRDRSUP-1628 Report writer for girder-floorbeam-stringer systems	CA 12	BrR	x	
FP 13 BRDRSUP-695 Analyze local web yielding and local web crippling for steel beam ends	MTAG 1	Both	x	
FP 14 BRDRSUP-1029 LLDf for steel beam-timber deck	MTAG 3	Both	x	

Description	Source	Benefit	BrDR 7.1	BrD R 7.2
FP 15 VI 9313 Steel channel for exterior girders	MTAG 4	Both	x	
FP 16 BRDRSUP-581 Hinges in girder floor systems	MTAG 5	BrR	x	
FP 17 BRDRSUP-641 Model section loss in PS girders	MTAG 6	BrR		x
FP 18 BRDRSUP-728 and 1435 Girder profile schematic for cross-section based members	MTAG 7	Both		x
FP 19 VI 11366 Cover plates on both surfaces of flange	MTAG 9	Both		x
FP 20 BRDRSUP-1444 Slab section schematic including reinforcing steel	MTAG 10	Both		x
FP 21 BRDRSUP-1431 Show PS strands on girder profile schematic	MTAG 11	Both		x
FP 22 BRDRSUP-1436 Option to account for 100% section loss	MTAG 12	BrR		x
FP 23 BRDRSUP-97 Allow MPF reduction due to low ADTT	MTAG 13	Both		x
FP 24 BRDRSUP-732 Rate culverts with variable thickness slabs and walls	MTAG 14	Both		x
FP 26 Report TAG Recommendation: 1 and 2	RTAG	Both		
FP 27 Report TAG Recommendation: 3, 4, 9 and 21	RTAG	Both		
FP 28 Report TAG Recommendation: 5 and 8	RTAG	Both		
FP 29 Report TAG Recommendation: 6	RTAG	Both		
FP 30 Report TAG Recommendation: 10, 12, 13, 16 and 17	RTAG	Both		
FP 31 Report TAG Recommendation: 15	RTAG	Both		
FP 32 Report TAG Recommendation: 24	RTAG	BrR		
FP 33 Report TAG Recommendation: 25	RTAG	BrR		
FP 34 User Requested Enhancements	UG	Both		x



Description	Source	Benefit	BrDR 7.1	BrD R 7.2
FP 35 BRDRSUP-553 3D analysis for superstructure with hinges	IL	Both	x	
FP 37 Load Rating Tool's Permit Analysis Settings	MN	BrR	x	
Allow user to log into BrDR with Active Directory accounts	TF	Both		x
Rating Tool LRFR MCB, LRFR Multi-girder (RC, PS, Steel)	UG	BrR		x
Support Oracle Container database	TF	Both	x	
Corrugated Metal Pipe (CMP) modeling and LRFR analysis	UG	BrR		x
Floorbeam transverse lane generation user controls	TF	BrR	x	
IFC Converter Tool - Standalone	TF	Both		
IFC Converter Tool - BrDR API and UI Integration	TF	Both	x	
IFC Converter Tool - IFC 4.3	TF	Both		x
Move licensing mechanism to the BrDR API	TF	Both	x	

Agenda Item 10: FHWA Update

Tom Saad provided the following FHWA update.

The FHWA Notice of Proposed Rulemaking (NPRM) updating the national bridge inspection standards was published on November 12, 2020 at <https://federalregister.gov/d/2019-23929>. The original 60-day comment period for the public to offer suggestions to the proposed regulation was extended an additional 60 days, at the request of AASHTO. The due date for comments was March 13, 2020. The Moving Ahead for Progress in the 21st Century Act (MAP-21) required the Secretary to update the National Bridge Inspection Standards (NBIS). Through the NPRM, FHWA proposes to update the NBIS to

address MAP-21 requirements, incorporate technological advancements including the use of unmanned aerial systems, and address ambiguities identified since the last update to the regulation in 2009. In addition, this was also the due date for comments on the proposed Specifications for the National Bridge Inventory (SNBI), which will update and replace the *Recording and Coding Guide for the Structure Inventory and Appraisal of the Nation's Bridges*. Thousands of comments were received and FHWA has established two teams to review, compile and address all comments to draft and publish a final rule and SNBI.

FHWA has a goal to launch Bridge and Tunnel Inspection Critical Finding Databases (CFD) later this year. The databases and associated procedural guides that have been developed address a requirement in MAP-21 legislation to report structural or safety related deficiencies and monitor bridge and tunnel inspection critical findings and corrective actions. The CFD for bridges and tunnels were piloted with the assistance of several States in the first two quarters of fiscal years 2019 and 2020, respectively. Webinars will be held to roll out the databases and procedures and the guidelines will define the critical findings that are to be captured and monitored in the databases.

FHWA has recently updated the National Highway Institute (NHI) Course No. 130092, *Load and Resistance Factor Rating of Highway Bridges*, to bring the course up-to-date with MBE revisions that have been adopted in recent years and to add content on gusset plate, culvert and timber bridge load ratings, among other content. This course was delivered in Rhode Island, Texas and Tennessee in recent months and was



scheduled to be delivered in Utah, South Carolina, Washington, North Carolina, New Jersey and Kansas in upcoming months. However, with travel restrictions due to COVID19, NHI has postponed the delivery of this 4-day instructor led course. In the meantime, NHI is considering offering the course, virtually, if States request the training in a virtual format. Please contact Thomas.saad@dot.gov if your agency is interested in hosting this 4-day course, virtually. You may track the availability of courses and open seats at <https://www.nhi.fhwa.dot.gov/course-search?tab=0&key=130092&res=1>. Additionally, you can find excellent Reference Manuals that coincide with many of the FHWA NHI Course curriculum for bridge design and analysis engineers at <https://www.fhwa.dot.gov/bridge>.

The FHWA Office of Bridges and Structures hosted a webinar on April 9th on Bridge Load Testing. This was the 30th webinar in the FHWA Bridge Load Rating Series to support advancements in best practices and technologies for bridge load rating. The goal of the webinar was to provide information on TRB's engineering circular *Primer on Load Testing* and present case studies and protocols of load tests. The engineering circular can be found at <http://onlinepubs.trb.org/onlinepubs/circulars/ec257.pdf>. The webinar was recorded and is available at <https://www.fhwa.dot.gov/bridge/loadrating/>, along with the previous 29 webinars.

The FHWA's Office of Bridges and Structures awarded a contract to compile and develop bridge load rating best practices in a project entitled *Advancing Bridge Load Rating: Best Practices and Model Frameworks*. Over the past

decades, as States strive to meet the regulatory requirement for bridge rating and posting, they have been constantly improving their state of practice. States have aggregated high-quality load capacity data and computer models for their bridge network. The data and models constitute precious digital assets to manage and operate the bridge network. The power, functionality and efficiency of bridge rating computer software has improved, along with other technological advances in automated rating and load permitting and routing. Use of Weight-in-Motion (WIM), advanced sensor and sensing technologies in highway load characterization and bridge performance monitoring is growing. This project will capture current best practices in load rating and look forward to identify opportunities for bridge owners to most effectively utilize the data that results from bridge load rating to build advanced load rating programs.

States are routinely allowed to issue non-divisible overweight load permits on the Interstate system. When the President declared a national emergency to manage the COVID-19 pandemic, several States requested the option to issue permits for divisible loads on the Interstate, during the emergency declaration. FHWA has worked closely with the legislature to modify current law allowing the States the opportunity to issue divisible overload permits on the Interstate, while the national emergency is in effect. Please work closely with your FHWA Division office to implement this provision, as you deem necessary.



Agenda Item 11: FY2020 Quality Assurance Review for Bridge Design-Rating

The Task Force reviewed the FY2020 BrDR QR Report.

Agenda Item 12: AASHTOWare License Fee Strategies and Customer Success Roadmap

The Task Force discussed the content of the final report and conveyed the following feedback.

- Regarding the idea of combining the licensing structure for Bridge Design and Bridge Rating, the Task Force discussed the basic roots of Virtis/Opis and the original premise that the BrDR product would not be in the engine business; however, we had to incorporate an engine into the product since the third party Brass engine, which was adopted by a large majority of the user community, was not able to completely fulfill the users' needs.
 - The design of BrDR supports the incorporation of multiple engines. The Task Force continues to reach out to third party engine providers to look for opportunities to 'connect' their engine to BrDR.
 - Many of the current Bridge Design licensees use BrD to check designs developed from other bridge design systems. BrD is also used to check their designs for conformance to AASHTO code.
 - The report included the concept of a license fee reduction for organizations that license both BrD and BrR. The Task Force may consider this recommendation in the future; however, the current BrDR fee structure is much lower than the cost of similar competitive products.
 - The information in the report supports the Task Force's decision to increase license fees in FY2021.
- Regarding User Perception - The Task Force discussed the fact that placing a hold on enhancements to BrDR during the multi-year modernization project may have been the culprit for the reported poor user perception. In addition, bug fixes are incorporated into the code immediately; however, the user has to wait until the next release in order to see the fix. The Task Force and ProMiles will continue to discuss this issue to look for opportunities to make bug fixes available sooner.
 - The Task Force will review the report again during the October meeting to make decisions for FY2022.

Mike Johnson advised that the Idaho TD has recently started using BrD. The decision to license the software was based on their need to design with a third party software, check their designs with BrD, and then move to BrR for rating. (design with another software... import to BrD so the model is there for rating.) IDT can no longer rely on MDX going forward. SIMON is great for line girder analysis but isn't good for other bridges. Midas is very complex and post processing is very difficult.

The Task Force also discussed that BrD is prime to move forward with Steel Design and Multi-Cell boxes once we get the BrDR report tools set up to support end user needs. Other multi cell box solutions have issues so BrDR could be on the forefront of designing structures.

The Task Force also discussed the fact that users believe responsiveness is an issue. Users feel that issues are entered in Jira and they are not addressed for extended periods. If the Task Force doesn't plan to address items entered in



Jira directly, we may want to revamp the process to include sending Jira enhancement requests to the user group to see if there is interest in the suggestion (documented in Jira).

After much decision it was decided to look into establishing a new TAG to review Jira enhancement suggestions and make recommendations to the Task Force to potentially move the enhancement requests forward. The Jira TAG could rank suggestions submitted once a month, make ranking decision and forward the ranking information to ProMiles to rank/respond accordingly.

Agenda Item 13: Review Action Item list from this meeting

Judy Tarwater read the action items recorded during the meeting.

Agenda Item 14: Task Force Executive Session (as needed)

Meeting was adjourned at 5:20pm.

