

BrM 7.0 Transition Strategies

The Abridged Version

BrMUG 2024 | Long Beach, CA | September 17-18





CONTACT



ZACHARY BOYLE
zac.boyle@mayvue.com
Text | Voicemail | (801) 450-9716



BrM@mayvue.com
1-877-462-9883

 Jira Service Desk

<http://support.mayvue.com>

2024 BrMUG Annual Meeting
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Presentation



2024 BrMUG Annual Meeting

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All presentations will be available at aashtowarebridge.com

Presentations

2023 User Group Meeting

The 2023 User Group Meeting, hosted by the Idaho Transportation Department, was held in September 2023. All presentations are available by clicking the button below.

[2023 Presentations](#)

Past User Group Meetings

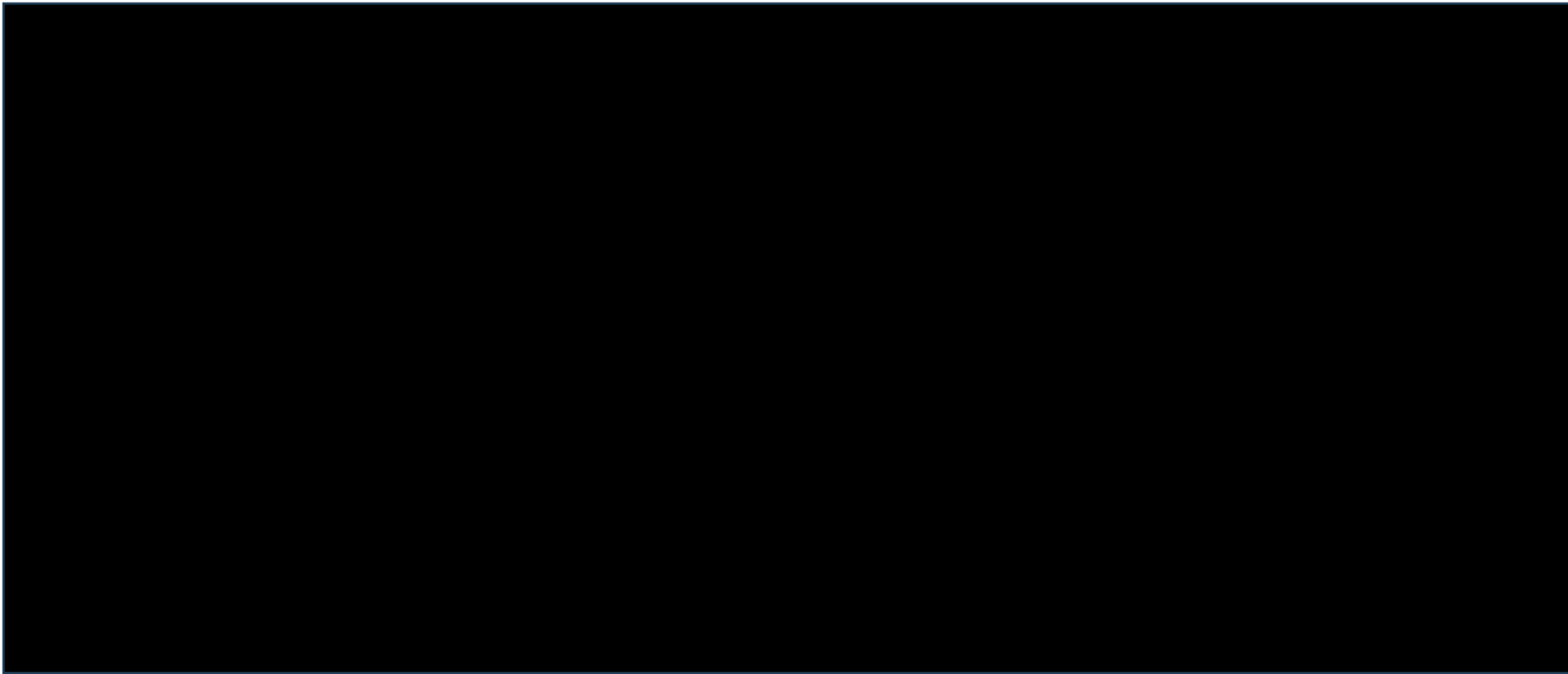
- [2022 User Group Meeting](#)
- [2021 User Group Meeting](#)
- [2020 User Group Meeting](#)
- [2019 User Group Meeting](#)
- [2018 User Group Meeting](#)
- [2017 User Group Meeting](#)
- [2016 User Group Meeting](#)
- [2015 User Group Meeting](#)
- [2014 User Group Meeting](#)
- [2013 User Group Meeting](#)



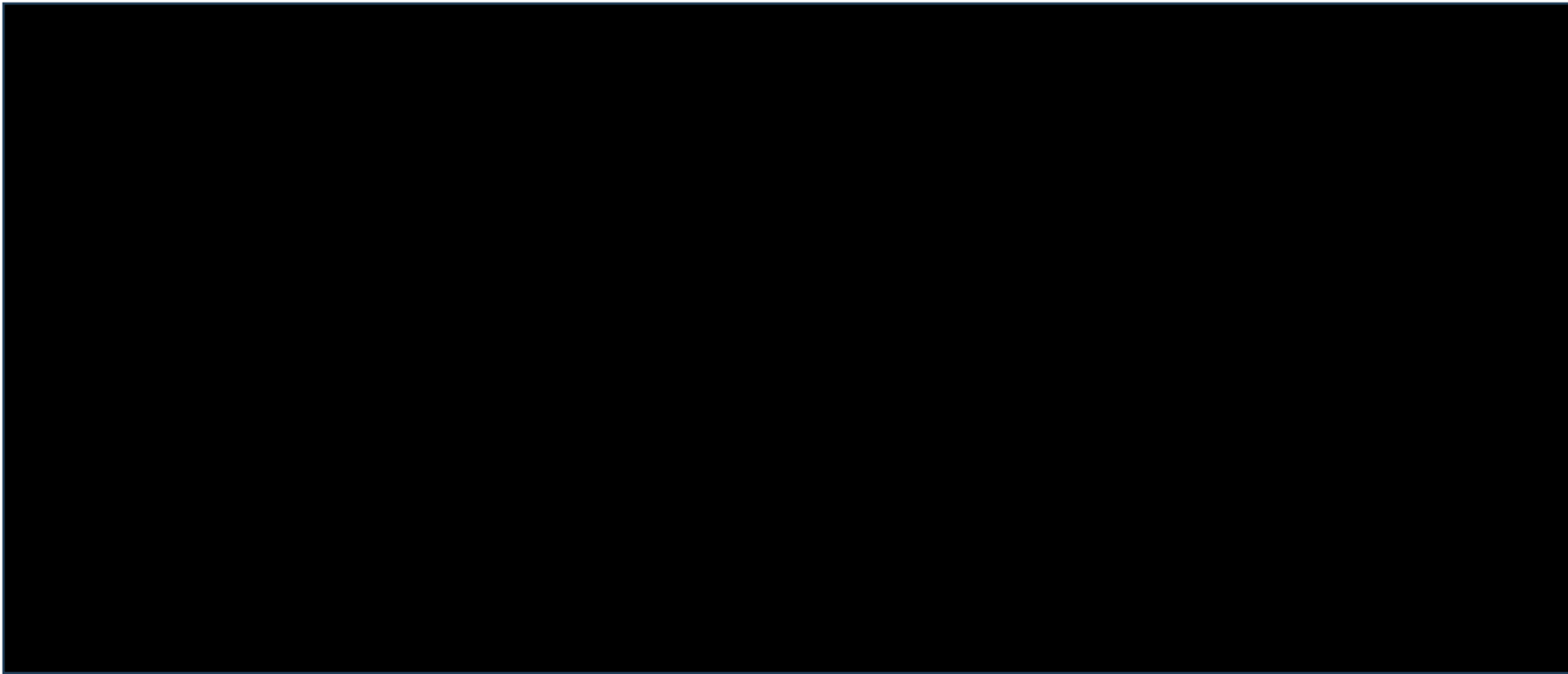
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Database Migration

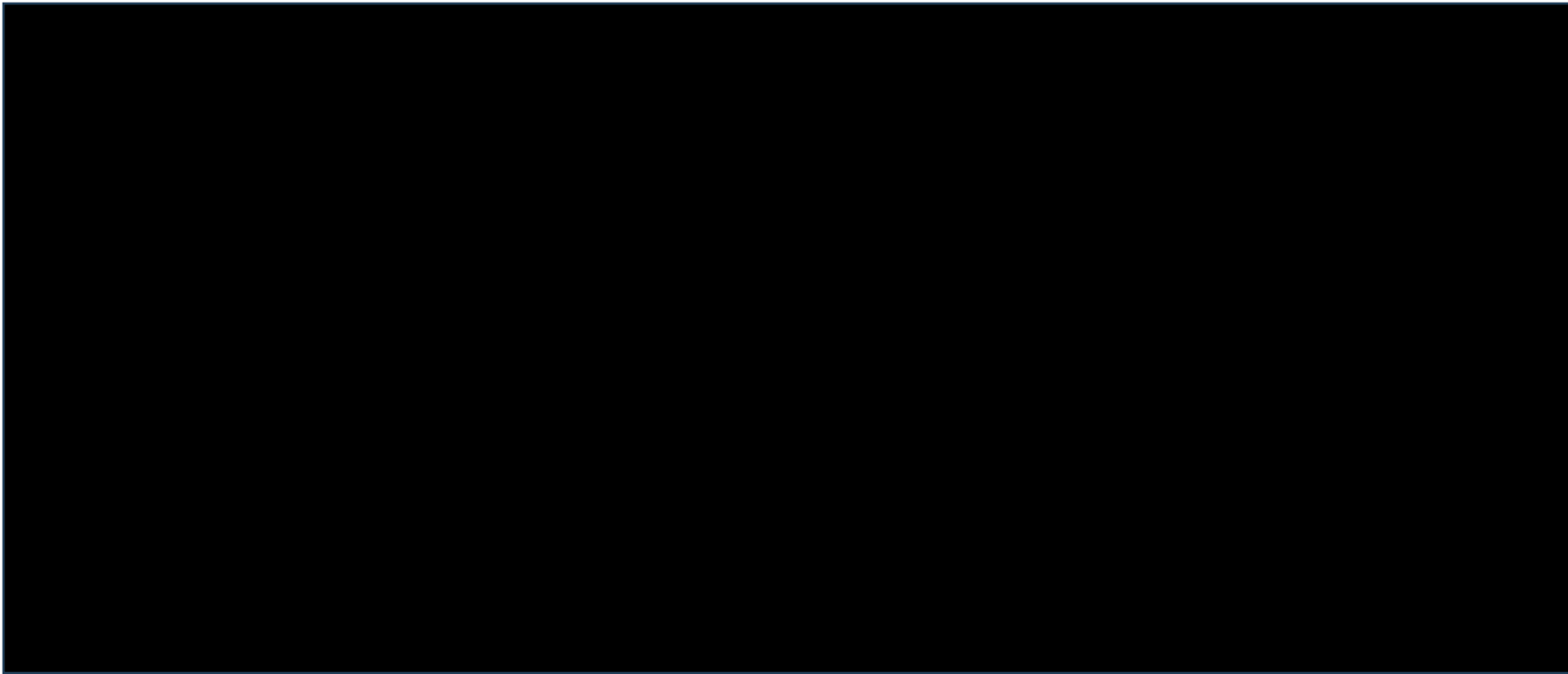




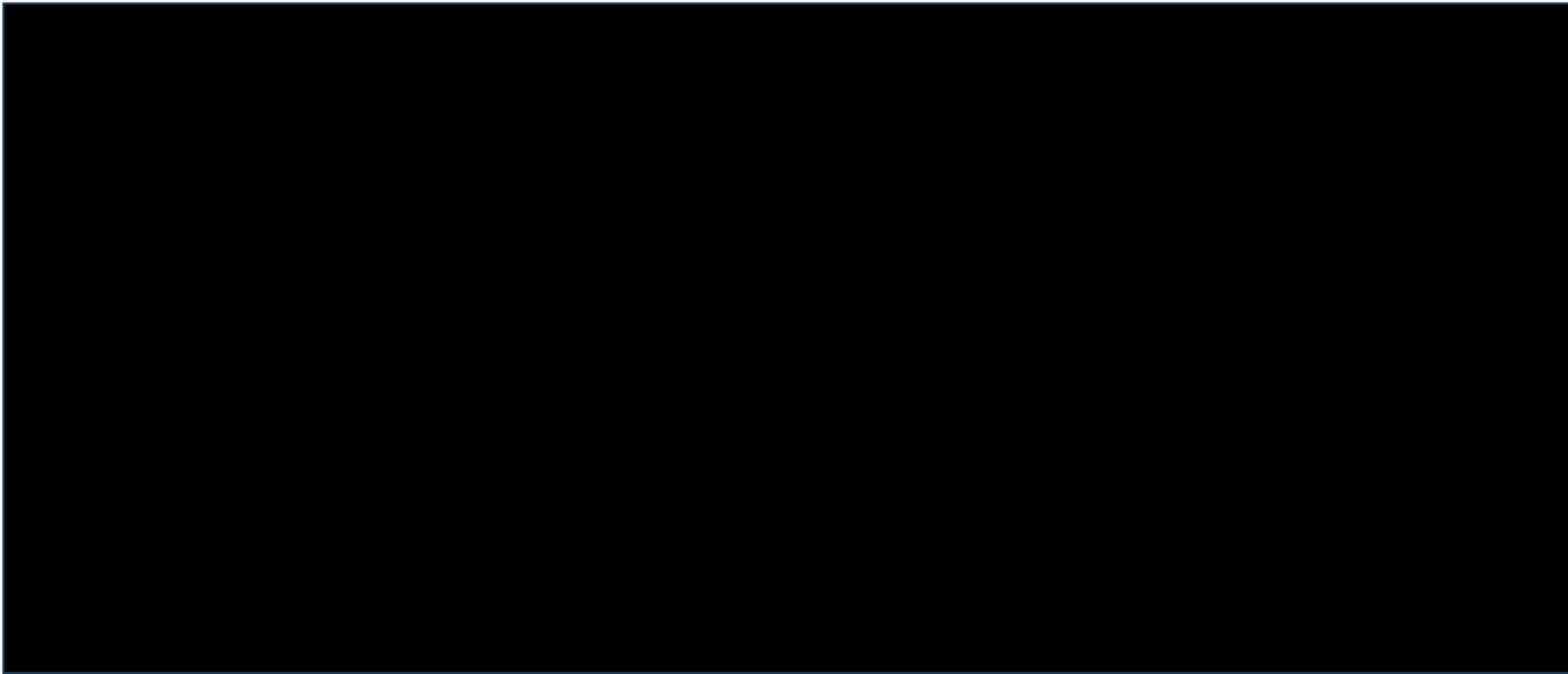
It's time to
move to the
SNBI



Pack Up



One Time Move



Settle In



Pack up

- Inventory any tables that are not standard BrM tables – these will need to be manually copied.
- Inventory any pages that are not standard BrM pages – these will need to be created in 7.
- Every active user has a unique email address. If your user does not have an email address, a fake one will be provided for you as your BrM7 login.
- Queries used in the following parts of BrM, since these will need to be recreated.
 - Bridge List
 - Qualifications
 - Dashboards
- Triggers and scheduled tasks, since these will need to be created in 7.
- Know where your multimedia is stored, you will need this information during migration.
- List out the following and determine if these will be needed in BrM7.
 - Custom reports and dashboards
 - Custom fields (userbrdg, userway ...)
- Prepare policies for the following modules.
 - Qualifications
 - Inspection Review
 - Critical Findings reporting
 - Equipment types
 - Inspection procedures



One Time Move

BrM is moving to a new database. The migration script will move your past inspections to the SNBI format and then transfer them across. If your data is in the `UsrBrdg`, `UserRway`, `UserInsp` tables, then they will move across to the new `Bridge`, `Highway` and `BridgeInspection` tables. If you have other custom tables and views, they will need to be moved manually.

- Upgrade your BrM6 database to BrM 6.7.1 by running the 6.7.1 upgrade script. Please pay attention to errors in the log if they occur.
- **Migrate to BrM 7.** Remember there is a setting at the top of the migration query to designate the agency acronym. (Example: if the MayDOT acronym is MY, this will turn `userbrdg.[agency_field]` to `bridge.MY_[agency_field]`. If this is not edited, all agency columns will be named `USR_[agency_field]`.)
- Custom SNBI Migration. If any of the agency fields have data to populate now-core SNBI fields, this is the ideal time to move that data over to the new field. Mayvue can help with this but reach out early because your place in line may dictate when you can migrate.
- Data merge from SNBI Collector. If you used the Mayvue SNBI Collector to collect SNBI data, this is the time when you want to merge those values in. This sequence assumes the SNBI Collector values trump those in the custom migration.
- Verify Migration. Check that the migrated data looks correct.
- Data schema changes. If your agency has decided to remove agency-fields or would like to add new ones, this is the ideal time to make those changes.
- Configure single sign-on (optional).
- Set up multimedia directory.
 - Multimedia file path – where is the multimedia stored.
 - Reports directory (if they use a different path, otherwise uncheck the box)



Settle In

- Users / roles / groups
- Certifications (optional)
- Inspection Types
- Inspection Page Setup
- Reports
- Inspection Review (optional)
- Inventory Review
- Inspection assignment (optional)
- Begin Inspections

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Users, Roles & Groups





Parameters: Settings > General Configuration > Parameters, Global Sets tab.

- Configure / audit the Agency parameter set with the agencies that BrM users will be associated with. (Example: MayDOT, FHWA, Murata Consultants, Boyle Engineers, etc)
- Configure / audit the District parameter set with the districts that BrM users will be associated with. (Example: District 1, 2, 3 or Region 1, 2, 3 ...).

AASHTOWare™ Bridge Management

Settings > General Config > Parameters

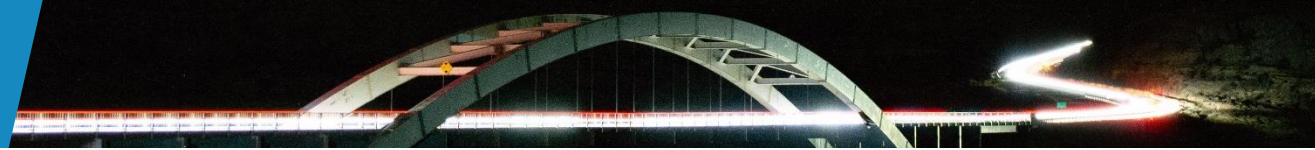
Parameters

Asset/Event | Global Sets

Search [] Export [] Add New []

Name ↑	Description ↑↓	Active ↑↓	Standard	
Action Type	Action Type parameter set	True	True	[] []
Agency	Agency parameter set	True	True	[] []
Analysis Type	Load Rating Analysis Type parameter set	True	True	[] []
Deck Interaction	Design SuperSet Deck Interaction parameter set	True	True	[] []
Deck Material and Type	Design SuperSet Deck Material and Type parameter set	True	True	[] []
Deck Protective System	Design SuperSet Deck Protective System parameter set	True	True	[] []
Deck Reinforcing Protective System	Design SuperSet Deck Reinforcing Protective System parameter set	True	True	[] []
Deck Stay-in-Place Forms	Design SuperSet Deck Stay-in-Place Forms parameter set	True	True	[] []
District	District parameter set	True	True	[] []

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Users: *Settings > Security > Users*, change the filter list to all (active and inactive users) and then export the list of users to excel. For agencies with lots of users, it is easier to perform the next checks in excel format.

- ❑ Verify that the BrM administrator’s account exists with the correct email. If that user does not exist, add that user to BrM. (Example: if I am Zac Boyle, my first task is to verify that zac.boyle@mayvue.com is an active user in the list and add that account if it doesn’t exist.)
- ❑ Audit the list of users, verify that the agency users who need access have access to the system. Add users if any are missing.
- ❑ During migration to the new system, an email address was required in BrM6. If the user did not have one, the account was created using the template [user].#####@mayvue.com to create a unique email address. These accounts should be marked inactive (Active = false) and a new user should be created with a valid email address.
- ❑ Audit the Active setting. Users who performed past inspections but are no longer inspecting should have their account deactivated for security.
- ❑ Mark the default account inactive for security. This login is common among all BrM sites in all DOT’s. It is best practice to mark it inactive to prevent unauthorized login.

Settings > Security > Users

Users

Filter: Active

Search [] [Export] [Add New]

Email ↑↓	Last Name ↑↓	First Name ↑↓	Roles	Groups	Active
zac.boyle.8692@mayvue.com	Boyle	Zac			True
Ma...@dot.ri.gov	Bradburn	Martin	Admin	Default	True
martin.bradburn.3751@mayvue.com	BRADBURN	MARTIN			True
p...@llc.com	BRADLEY	PATRICK			True
M...@aecom.com	BRASSARD	MICHAEL			True
Ry...@cobs.com	BREEN	RYAN			True
tb...@.com	BRETT	TYLER			True
ac...@.com	BRIDGE	NEBB			True
N...@wsp.com	Brisbois	Nicholas			True

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Roles: *Settings* » *Security* » *Roles & Permissions*, change the filter to all (active and inactive roles) and then export the list of roles to excel. For agencies with many roles, and legacy roles, they can be easier to review in excel. If your agency has only a few roles, they can be reviewed in the BrM UI.

Settings » Security » Roles & Permissions

Roles & Permissions

Filter: Active

Search: [] Export Add New

Name ↑	Description ↑↓	Active ↑↓	Standard ↑↓	
Admin	Administrator	True	True	
ADMIN_A		True	False	
AdminAnalysis	Analysis Administrator	True	True	
Advanced	Advanced User	True	True	
Analysis	Basic User	True	True	
AncillaryAdmin	Ancillary Administrator	True	True	
Ancillary-Consultant		True	False	
Basic	Basic User	True	True	
BrM_PORTAL		True	False	

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- Verify that the roles migrated from BrM6 are the roles used by the Agency.
- Add/inactivate the roles as needed.
- Roles for different security levels. (Example: access to Scour Plan of Action, Load Ratings, Optimization, settings ...)
- Roles for Inspection Assignment (optional). If you plan to use the Inspection Assignment module, you will probably want a role for the users who access that module.
- Roles for Inspection Review (optional). If you plan to use the Inspection Review module, roles to support your QC practices will be needed.
- Read only roles for FHWA reps (optional), which read-only access to inspections, critical findings and certifications.
- For each role, review the users, report access, the permissions & multimedia security.



Groups: *Settings* » *Security* » *Groups*. There is also an excel export for groups, but your agency may not have quite so many groups.

- ❑ Verify the existing groups which migrated from BrM 6.
- ❑ Add / inactivate the groups as needed.
- ❑ Groups for access (Example: Groups for District 1, 2, 3 ... etc. so those groups only have access to the structures in their responsibility.)
- ❑ Consider groups for inspection assignment (optional. Example: Groups for consultant inspection teams so they only have access to their assignments)
- ❑ Consider groups for inspection review (Examples: District 1 reviewers, central office reviewers ...)

AASHTOWare™ Bridge Management

Settings > Security > Groups

Groups

Asset Type: All Filter: Active

Search Export Add New

Name ↑	Description ↑↓	Asset Types	Active ↑↓	Standard ↑↓	
Default	Default Group that ships with BrM.	Bridge	True	True	

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- ❑ **Users:** *Settings* » *Security* » *Users*, regenerate the excel spreadsheet of users to have an easier way to review the roles and groups at a glance.
- ❑ **Password Rules:** *Settings* » *Security* » *Password Rules*. If Single sign-on is not configured, establish the agency rules for how often passwords expire and what character types are required.
- ❑ Users may now log in and update their passwords and contact information.

The screenshot shows the AASHTOWare™ Bridge Management web application. The top navigation bar includes the application name and a user profile icon. A breadcrumb trail reads 'Settings > Security > Password Rules'. The left sidebar contains a menu with 'Password Rules' selected. The main content area is titled 'Password Rules' and features a text input field for 'Minimum Total Characters' with the value '0'. Below this are several checkboxes for password requirements: 'Minimum Lowercase Letters', 'Minimum Uppercase Letters', 'Minimum Numbers', 'Minimum Special Characters', 'Password Cannot Contain User ID', and 'Expiration Window'. At the bottom of the form are 'Save' and 'Cancel' buttons. The footer contains copyright information for the American Association of State Highway and Transportation Officials and links to 'aashtoware.org' and 'AASHTO Publications'.

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Certifications

Optional





Settings » *General Configuration* » *Inspection* » *Certification Types*. If your agency plans to use the certifications and/or qualifications modules, then this is the time to review and establish the certification settings.

- Modify Certification Types (Examples: Inspection training, NHI, Safety courses ...)
- Modify Experience Types (Examples: Inspection, Complex Inspection, Tunnel Inspection, PE, EIT, etc.)
- Create/Modify Certifications. Consider that certifications can be set for users to enter for themselves on the user profile page, or they can be left for those with access to the security page to enter for them.
- Qualifications. In order to use the qualifications module to ensure that only qualified individuals start particular inspection types, the agency's logic needs to be added to the *Qualification.SQLStatement* field on the database. Queries from BrM6 will need to be updated for the BrM7 syntax.
- Users may now update their experience and upload their qualifications and upload certs, stamps and signatures
- Review the *Inspection Management* » *Manage Certifications* page to grant temporary qualifications where needed and to see the user certifications that have been uploaded so far.

AASHTOWare™ Bridge Management

Settings » General Configuration » Inspection » Certification Types

Filter: Active

Search: [] Export Add New

Name	Description	Active
Test Category 1	111	True

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Certifications

Filter: Active

Search: [] Export Add New

Category	Name	Description	Hours	Valid For (Months)
Test Category 1	15-month Certification	test description	23	15
Test Category 1	Test Certification 1	test description 1	23	
Test Category 1	Test Certification 2	test description 1	13	7

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Inspection Types





Settings » General Configuration » Inspection » Inspection Type.

Agencies can create their own inspection types which will roll up to the reportable types at the time of submittal to FHWA. At this stage, and before inspections begin, this is the most ideal time to adjust the types beyond the default.

- **Decision:** Are you going to use Inspection Assignment? Are you going to use the QC module? Will you need to create any inspection types to accommodate different assignment methods, qualifications or different review methods. (Example: separating Wader Underwater from SCUBA Underwater where SCUBA inspections require a dive qualification, or separating Complex Routine from Routine where ropes equipment is required)
- Create Types
- Assign structures to those created types.

The screenshot shows the AASHTOWare Bridge Management software interface. The breadcrumb trail is: Settings » General Configuration » Inspection » Inspection Types. The main content area displays a table of inspection types with columns for Name, Description, Default Interval (months), and Reportable Inspection Type. The table includes rows for Damage, In-Depth, Initial, NSTM, Routine, Routine Complex, Scour Monitoring, Service, and Special. The 'Routine Complex' row shows a default interval of 12 months and is reportable as 'Routine'. The 'Special' row shows a default interval of 12 months. The interface also features a search bar, an 'Export' button, and an 'Add New' button.

Name	Description	Default Interval (months)	Reportable Inspection Type
Damage			
In-Depth		24	
Initial			
NSTM		24	
Routine		24	
Routine Complex		12	Routine
Scour Monitoring			
Service			
Special		12	



AASHTOWare™ Bridge Management

Settings > General Configuration > Inspection > Equipment Types

Equipment Types

Inspection Type: All | Filter: Active

Search: | [Export](#) | [+ Add New](#)

Name ↑	Equipment Roll-Up ↑↓	Inspection Types	
A07 Snorkel			✎ 📄
A08 SCUBA			✎ 📄
A09 Surface supplied air			✎ 📄
A10 Remotely Operated Vehicle (ROV)			✎ 📄
A11 Video pole			✎ 📄
A12 Borescope			✎ 📄
AX ATV	AX Other	Damage, In-Depth, Initial, N:	✎ 📄
AX Other			✎ 📄
I01 Ultrasonic			✎ 📄

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- Equipment Types (optional). *Settings > General Configuration > Inspection > Equipment Types*. Create the equipment types that will help with inspection management. (Example: is snooper going to just be an equipment type required for certain inspections? Or will it be a separate inspection type that requires snooper-qualified inspectors?) Equipment needs will need to be assigned to the required inspection types. This can be done over the next inspection cycle or by database script from existing data.
- Procedures Types (optional). *Settings > General Configuration > Inspection > Procedures Types*. An agency can input particular inspection instructions for each bridge and inspection type. They can be customized at the bridge level, but to begin with they can be made as agency templates. (Examples: NTSM procedures, Complex procedures, Underwater procedures, Posting – like ‘Take photos of posting signs’, Cross sections, etc.)

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Inspection Page Setup





Now that the inspection types are established, we can move on to creating the other support settings around performing an inspection.

- **Filters:** *Settings* » *General Configuration* » *Pages & Dashboards* » *Filters UI*. You will need to refactor the filters created in BrM6 to work in the BrM7 database, but the filters created and used by the agency in BrM6 should guide which ones are needed here. This includes bridge list filters and access filters.

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- **Pages:** *Settings* ➤ *General Configuration* ➤ *Pages & Dashboards* ➤ *Page Builder*. If your agency opts to copy a default page and modify it to add agency fields, or reorganize them to work in a different manner, this is the time to create those pages. Consider that you might want to create pages for a particular inspection type. (Example: Creating an NSTM inspection condition page that does not include Deck, Super, Sub or Culvert rating if that is agency policy.)
- **Page Order & Security:** *Settings* ➤ *Security* ➤ *Navigation Security*. This is the ideal time to change the order of pages and to control which items appear in certain inspection types or are accessible to certain roles. Security of default pages can be adjusted without having to create copies. (Examples: Inspection Management is only accessible to the Inspection Manager role, or the bridge number field is not editable to the inspector role)

The screenshot shows the 'Edit Form' interface for 'ALDOT Custom' in the AASHTOWare Bridge Management system. The breadcrumb trail is 'Settings > General Configuration > Pages & Dashboards > Page Builder'. The left sidebar lists 'Pages & Dashboards', 'Dashboard Chart Templates', 'Filters SQL', 'Filters UI', 'Layouts', and 'Page Builder' (which is selected). The main content area shows the form structure for 'ALDOT Custom'. It includes an 'Asset Selector' field, a 'Scour' section with a 'Scour Crit Desc (113B)' dropdown, and three columns for 'Scour CM Req', 'Scour CM Planned', and 'Scour CM Completed', each with a date field. Below these are 'Foundation' and 'Streambed' fields. At the bottom, there are 'Cancel' and 'Delete' buttons. The footer contains copyright information for the American Association of State Highway and Transportation Officials and links to 'aashtoware.org' and 'AASHTO Publications'.

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Reports



The most critical report to prepare for inspection is the **inspection report**. Consider the default inspection report that ships with BrM7 to decide if that meets your agency's needs. If not, evaluate what needs to be changed about it. Other reports and dashboards to support inspection, review and other DOT processes can be developed with time – they are less critical to beginning inspection.

The 07/17/2024 Inspection Report for Structure 00110, C.L. Hussey Memorial

07/17/2024 - C.L. Hussey Memorial

Summary Sheet

Summary Location

Bridge Number (B.ID.01): 00000000000110 Agency Bridge ID: 00110

Bridge Name (B.ID.02): C.L. Hussey Memorial Commonly Called: C.L. Hussey Memorial

Report Bridge to FHWA: 1 Report Elements to FHWA: 1

Owner (B.CL.01): 501 State transportation department Maintenance Responsibility (B.CL.02): 501 State transportation department

District:

Summary Condition

Structure Overall	Deck	Super	Sub	Culvert
6	8	7	6	?
	Railing	Transition	Bearing	Joints
	4	5	6	7

Summary Schedule

Inspection Type	Required for Bridge Inspection (B.E.07) (B.E.07)	Inspector	Most Recent Inspection Date	Interval Method (B.E.07)	Interval (months) (B.E.06)	Inspection Due Date (B.IE.06)	Inspection Assignment Name	Inspection Assignment Group
Damage	<input checked="" type="checkbox"/>		2/21/2023	N Not applicable	1	4/26/2024		
Routine Complex	<input checked="" type="checkbox"/>		11/14/2022	1 Method 1	1	1/13/2024		

Review Information

Step	Reviewer	Completed Date	Completed # of Days Since Inspection Begin Date	Days Remaining for Review

The 07/17/2024 Inspection of Structure 00110, C.L. Hussey Memorial

Agency Bridge ID: 00110

Bridge Nickname: C.L. Hussey Memorial

Bridge Lifecycle Phase: 1 Service

Report Elements to FHWA: 1

Structure Bridge ID:

County Code (B.L.02):

Highway Agency District (B.L.04):

Metropolitan Planning Org 2 (B.L.12):

Order Bridge Number (B.L.07):

Order Insp. Responsibility (B.L.09):

Maintenance Responsibility (B.CL.02): 501 State transportation dep

Historical Significance (B.CL.04): N Not eligible & not in history

Emergency Evacuation Designation (B.CL.06): N Not an Emergency evacuat

Design Method (B.LR.02): LFD Load Factor Design

Total Bridge Length (B.G.02):

Minimum Span Length (B.G.04):

Bridge Width Curb-to-Curb (B.G.06):

Right Curb or Sidewalk Width (B.G.08):

Bridge Median (B.G.10):

Curved Bridge (B.G.12):

Dehill Bridge (B.G.14):

Calculated Deck Area (B.G.16):

Overlapping Likelihood (B.AP.02): 0 Never

Scour Plan of Action (B.AP.04): N A scour POA is required, but not i

Inspection Assignments (B.RH.02):

The 07/17/2024 Inspection of Structure 00110, C.L. Hussey Memorial

Available Channel Width (B.N.04):

Structure Navigation Protection (B.N.06):

Superstructure (B.C.02): 7 Good

Culvert (B.C.04):

Lowest Condition Rating (B.C.1): 6

Balling Transition (B.C.06): 5 Fair

Points (B.C.08): 7 Good

Channel Protection (B.C.10): 6 Satisfactory

ASTM Inspection Condition (B.C.14): 9 Excellent

Overlapping Likelihood (B.AP.02):

Scour Plan of Action (B.AP.04):

1 Method 1 6 6/11/2023

Category: Improvement

Contact / User: 2024

Budget Year: SU1

Structure Unit: Inspector Recommended

Source: Contractor

Assignment:

Estimated Cost: 100,000

Final Cost:

Contact / User: 2024

Budget Year: Inspector Recommended

Structure Unit: Contractor

Source:

Assignment:

Estimated Cost:

Final Cost:



- **Decision:** Which items are best served as reports and which ones would be better suited as dashboards? (Example: Items that need to be emailed out with scheduled tasks or documented in pdfs probably make the most sense as reports. Queries just checking for current status, or looking for incorrect data, or quick exports to excel are probably best developed as dashboards.)
- Reports need to be rewritten to use the BrM7 database tables and columns. **No reports from BrM6 are likely to run without modification.** Also remember that upwards of 50% of the data in the default inspection report has wildly changed with the SNBI rules.
- Upload the reports. After a report is uploaded, access to the report will need to be given to the roles that can see it.
- Dashboards need to be rewritten to use the BrM7 database tables and columns. No dashboards from BrM6 will run in BrM7 without modification. Remember to adjust the security of the dashboard to control which roles can see it.

The screenshot shows the 'Create Report' form in the AASHTOWare Bridge Management application. The form is titled 'Create Report' and is located under the 'Reports' > 'Register' path. The form fields include:

- Asset Type:** Bridge
- Name ***: A text input field.
- Report File ***: A file selection field with a 'Choose File' button and 'No file chosen' text.
- Event Type:** A dropdown menu.
- Description:** A large text area.
- Permissions:** Three checkboxes: 'Allow All Structures', 'Allow Selected Structures', and 'Allow Filtered Structures', all of which are currently unchecked.
- Active:** A checkbox that is checked.

At the bottom of the form, there are 'Save' and 'Cancel' buttons. The footer of the application includes the copyright notice: '© American Association of State Highway and Transportation Officials. All rights reserved.' and links to 'aashtoware.org' and 'AASHTO Publications'.

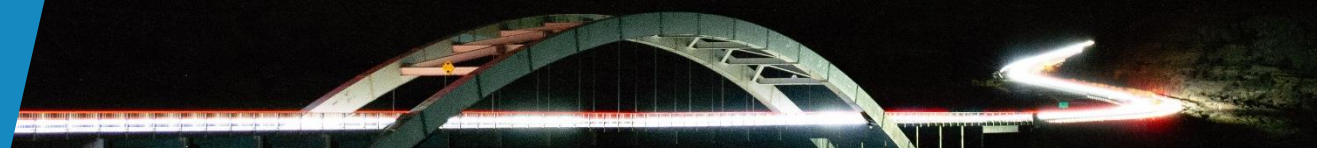
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Critical Finding Review

Optional





If your agency opts to use the Critical Finding module in BrM, this is now the time to establish the rules surrounding the review and notifications of reported critical findings.

The screenshot shows the AASHTOWare Bridge Management interface. The breadcrumb trail is: Settings > General Configuration > Inspection > Critical Findings. The page title is 'Critical Findings'. The 'Asset Type' is set to 'Bridge'. There are tabs for 'Reviewers' (selected) and 'Email CCs'. Under 'Level 1 Review Rules', there is a table with columns: Order ↑, Name, Review Groups, and Description. The table is empty with the text 'No records to display.' Below this is a section for 'Default Review Groups' with an 'Edit' button and the text 'No items selected'. Under 'Level 2 Review Rules', there is a checkbox for 'Level 2 Enabled' which is currently unchecked. At the bottom, there are 'Save' and 'Cancel' buttons. The footer contains copyright information for the American Association of State Highway and Transportation Officials and links to aashtoware.org and AASHTO Publications.

- *Settings > General Configuration > Inspection > Critical Findings.* Establish rules about which findings are reviewed by which groups. (Example: MayDOT has all critical findings from District 1 reviewed by the District 1 Inspection Manager’s team, a group that includes the District 1 Inspection Manager and an alternate reviewer in case it is necessary. MayDOT also uses the optional Level 2 review and that review is performed by the central office review team.)
- Establish if BrM will notify your FHWA representative directly. (Example: some agencies prefer to write this email themselves. Others opt to have the critical findings report sent to the FHWA rep, senior leaders, and the media relations team automatically once the critical finding is confirmed to be a critical finding.)

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Inspection Review

Optional





If your agency opts to use the electronic inspection review process, in some states called the QC process, then this is the time to set up this module. Roles, Groups, Inspection Types and agency data fields / pages may need to be revisited if things were missed before this step.

My Pending Inspection Reviews

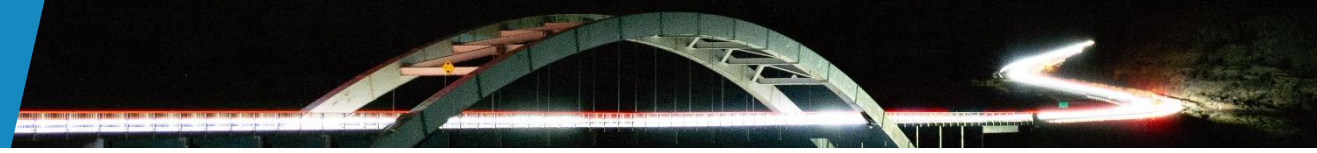
Agency Bridge ID: 111 | Bridge Name (B.ID.02): Test Bridge 1 | Bridge Nickname: Test Bridge 1

Filter: All

Details | Procedures & Equipment | Data Values & Elements | **Schedule** | Multimedia | Cross Sections

Inspection Type (I)	Required For Bridge	Inspection Being Performed (B.IE.01)	Inspector	Most Recent Inspection Date	Interval Method (B.IE.07)	Interval (months) (B.IE.05)	Inspection Due Date (B.IE)
Damage	False	False					
In-Depth	False	False				24	
Initial	False	False		8/27/2024			8/27/2024
NSTM	True	True	Zacccone, Leanna	8/27/2024		24	8/27/2026
Routine	True	True	Zacccone, Leanna	8/27/2024		24	8/27/2026
Scour Monitoring	False	False					
Service	False	False					
Special	True	True	Zacccone, Leanna	8/27/2024		12	8/27/2025
Underwater	True	False				60	8/27/2024

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AASHTOWare™ Bridge Management

Settings > General Configuration > Inspection > Inspection Review

Details | Rule Builder

Name *
Field Review

% of Inspections *
5 %

Expiration Date
mm/dd/yyyy

User Group Assigned as Reviewers *
Default

Apply Inspection Type Qualifications

Signature Required

Stamp Required

Routine
Special

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- *Settings > General Configuration > Inspection > Inspection Review.* Establish which data values will be reviewed in every inspection review at the Bridge and Inspection level. (Example: Some agencies feel that everything must be reviewed in every inspection. Others feel that bridge ID and the structure's name are not in the inspector's purview to adjust and so should not be reviewed. Adding Bridge ID and Bridge Name based on that decision is what is needed here.)
- The same process for data values needs to be followed for highway features. If you have the Load Ratings Review customization, same goes for Load Rating Events.



- Visit the Review Settings about locking the condition page and requiring Validation to be run before Review can begin.
- Establish the workflow steps for who will perform which steps of the review process for your agency. (Example: At MayDOT, consultants do the first level of QC of all their own inspections and the Central Office does a QA review of 10% of those. A rule is established for any inspections from Murata Consultants where the review is done on 100% of inspections and the review is done by the Murata Review Group. A second rule is established for 10% of inspections to be QA'd by the MayDOT Central Office Group.)

The screenshot shows the AASHTOWare Bridge Management software interface. The top navigation bar includes the AASHTOWare logo and the text "AASHTOWare™ Bridge Management". Below this is a breadcrumb trail: "Settings > General Configuration > Inspection > Inspection Review". A left-hand sidebar menu lists various configuration options: "Inspection", "Certification Types", "Critical Findings", "Equipment Types", "Inspection Types", "Inspection Review" (which is highlighted), "Procedures Types", and "Sketch Templates". At the bottom of the sidebar, there is a copyright notice: "© American Association of State Highway and Transportation Officials. All rights reserved." and two links: "aashtoware.org" and "AASHTO Publications".

The main content area is titled "Rule Builder" and contains two conditions. "Condition 1" has a "Rule Type *" dropdown menu set to "Inspection Type" and a list of options including "Routine" and "Routine Complex". "Condition 2" has a "Rule Type *" dropdown menu set to "Column Value in Param Set". Both conditions have a "Type *" field. The interface includes buttons for "Add Condition", "Add Group", "Edit", and "Remove Condition". At the bottom, there are "Save" and "Cancel" buttons. A logical connector "AND" is visible between the two conditions.

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Inventory Review



We are now ready to review the inventory of structures and assets that migrated. Consider what checks might be nice to have as part of a data quality dashboard. Some agencies may opt to skip this step and learn what needs to be done through the first inspection cycle, in which case this review might only be done for the structures being inspected this month.

- *Bridges » Inspection » Schedule.* Review and adjust the inspection types required for a structure if needed. (Example: if Underwater was used in BrM6, but Wader Underwater and SCUBA Underwater will now be used, this is the time to make the distinction.)
- **Adjust inspection frequencies if needed.** (Example: based on the new policy, this culvert with an general condition rating of 8 can now be inspected using frequency method 2, and as such can be skipped this inspection cycle.)

The screenshot shows the AASHTOWare Bridge Management software interface. The main window is titled 'AASHTOWare™ Bridge Management' and displays the 'Schedule' configuration page. The left sidebar contains a navigation menu with options: Inspection, Inspection List, Inspection Plan, Condition, Sketches, Cross Sections, Work Candidates, **Schedule** (highlighted), Equipment, Procedures, Assessments, Critical Findings, and My Assignments. The main content area shows a table for configuring inspection types. The table has columns for 'Inspection Type', 'Required for Bridge', 'Inspection Being Performed (B.IE.01)', and 'Inspector'. The rows include: Damage, In-Depth, Initial, NSTM (checked), Routine (checked), Routine Complex, Scour Monitoring, Service, Special (checked), and Underwater (checked). At the bottom of the window, there are buttons for 'Save', 'Save & Close', 'Cancel', and 'Delete Bridge Inspection'. A footer note reads: '© American Association of State Highway and Transportation Officials. All rights reserved. aashtoware.org AASHTO Publications'.

Inspection Type	Required for Bridge	Inspection Being Performed (B.IE.01)	Inspector
Damage	<input type="checkbox"/>	<input type="checkbox"/>	
In-Depth	<input type="checkbox"/>	<input type="checkbox"/>	
Initial	<input type="checkbox"/>	<input type="checkbox"/>	
NSTM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Routine	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Routine Complex	<input type="checkbox"/>	<input type="checkbox"/>	
Scour Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	
Service	<input type="checkbox"/>	<input type="checkbox"/>	
Special	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Underwater	<input type="checkbox"/>	<input checked="" type="checkbox"/>	



- **Bridges » Inspection » Future Inspection Plan » Equipment.** Review and adjust the equipment needed for the inspection types. (Example: In the past, a UBIT was used for inspection of this structure. Is the UBIT needed on all inspections? Maybe it is not for the underwater inspection of this structure.)
- **Bridges » Inspection » Future Inspection Plan » Procedures.** Review and adjust the procedures as needed for the structures. (Example: because this structure is posted, a template procedure to take photos of both load posting signs is required. Due to damage noted last time, a custom one-off procedure is added asking for a photo of the north abutment east corner.)

The screenshot displays the AASHTOWare Bridge Management software interface. The main window shows a navigation menu on the left with 'Future Inspection Plan', 'Equipment', and 'Procedures' (highlighted). The main content area shows a breadcrumb trail: 'Bridges » Inspection » Future Inspection Plan » Procedures'. A 'Create Procedure' dialog box is open in the center, containing the following fields:

- Procedure Type ***: A dropdown menu.
- Inspection Type ***: A dropdown menu.
- Procedure Template ***: A dropdown menu.
- Frequency ***: A dropdown menu.
- Customize Details**
- Details**: A text area for additional information.

At the bottom of the dialog box are 'Save' and 'Cancel' buttons. In the background, a table with columns for 'Frequency' and 'Date' is visible, along with an 'Add New' button.

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Inspection Assignment

Optional





If your agency is going to use the inspection assignment module, now is the time to start creating inspection assignments.

- *Settings* » *General Configuration* » *Inspection* » *Inspection Types*. Review which inspection types will be assigned through the Inspection Assignment Module. (Example: Due to their ad-hoc nature, Damage and Initial inspections will not be assigned. Show in Insp. Assign Module will be set to false. MayDOT has decided that scour monitoring will not be assigned in the module either. The others are set to true. When a user goes to *Bridges* » *Inspection* » *Inspection List*, only the ad-hoc inspection types will appear. The other types will be under *Bridges* » *Inspection* » *My Assignments* if it is assigned to my groups.)
- *Settings* » *General Configuration* » *Options*. Adjust the setting for Unassigned Inspection Upcoming Months to 1 month. This will limit the warnings of unperformed inspections to just the inspections due next month.
- *Inspection Management* » *Inspection Assignment*. Create the inspection assignments for this upcoming month.
- *Settings* » *General Configuration* » *Options*. Adjust the setting for Unassigned Inspection Upcoming Months to 2 months. Then return to the inspection assignment page to create the inspection assignments for the second month and repeat the process until you arrive at the horizon your agency will consider a steady state. (Example: some agencies plan 3 months out. Others plan 12 months ahead. Leave the setting at the horizon your agency works with.)

AASHTOWare™ Bridge Management

Inspection Management » Inspection Assignment

Inspection Assignment

Unassigned Inspections Assignments

Unassigned Inspections Due in Next 1 months

Q Search [Export](#)

Due Date ↑	1	Inspection Type ↑↓	Bridge ID ↑	2	Highway Agency District (B.L.04) ↑↓	C
8/24/2023		Underwater	015757		Montgomery	⌵ ⌵
9/13/2024		Routine	015757		Montgomery	⌵ ⌵

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Begin Inspection

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All presentations will be available at aashtowarebridge.com

Presentations

2023 User Group Meeting

The 2023 User Group Meeting, hosted by the Idaho Transportation Department, was held in September 2023. All presentations are available by clicking the button below.

[2023 Presentations](#)

Past User Group Meetings

- [2022 User Group Meeting](#)
- [2021 User Group Meeting](#)
- [2020 User Group Meeting](#)
- [2019 User Group Meeting](#)
- [2018 User Group Meeting](#)
- [2017 User Group Meeting](#)
- [2016 User Group Meeting](#)
- [2015 User Group Meeting](#)
- [2014 User Group Meeting](#)
- [2013 User Group Meeting](#)





CONTACT



ZACHARY BOYLE
zac.boyle@mayvue.com
Text | Voicemail | (801) 450-9716



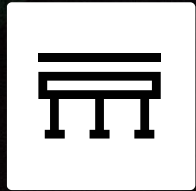
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1-877-462-9883

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