

# BrM 6.7 Enhancements

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Michigan Department of Transportation



AASHTO Ware™

**BRIDGE**

MANAGEMENT

# Title

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- User Certs
- Critical Findings
- Multimedia
- Dashboards
- Ancillary Asset
  - Request for Action
  - Work Recommendations

# MDOT Ancillary Asset Plan

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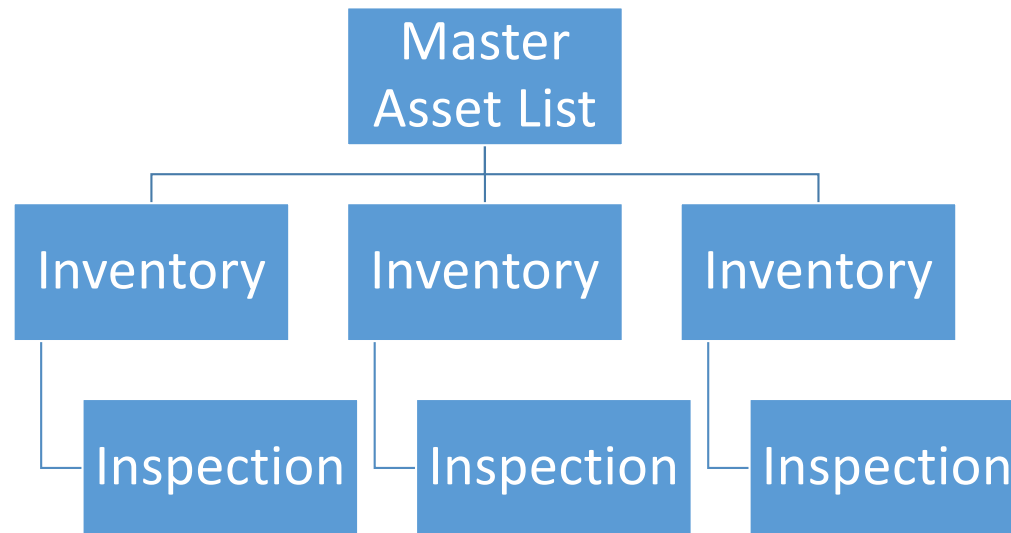
- Culverts
- Retaining Wall
- Noise Wall
- Cantilevers
- Truss
- Spun Concrete Pole
- Embedded Pole
- Mast Arm
- DMS
- Frangible Poles
- Non-Frangible Poles
- High-Mast Tower
- ESS Tower
- Communication Tower

Ancillary Asset Website



# Ancillary Asset Configuration

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# Ancillary Asset Configuration

USER, PONTIS

**BrM** AASHTOWare™ Bridge Management AASHIO

- BRIDGES
- REPORTS
- TUNNELS
- ADMIN
- SECURITY
- GENERAL CONFIG
- PARAMETERS
- OPTIONS
- EXPORT OPTIONS
- DATA DICT.
- CHECKED OUT BRIDGES
- LOGGING
- NAVIGATION SECURITY
- VISUAL FORM EDITOR
- PAGE EXPORT
- EQUATION EDITOR
- SET EDITOR
- VALIDATION EDITOR
- MANAGE ASSET TYPE

**Asset Type**

Select an Asset Type to edit.

Type: Retaining Wall

Name: Retaining Wall

Table Name: RETAINING\_WALL

Parent Type: --Select an Asset--

Edit Landing Page: Retaining Wall Inventory

RFA Landing Page: Retaining Wall RFA

Status:  Valid

**Asset Type**

Select an Asset Type to edit.

Type: Retaining Wall Inspection

Name: Retaining Wall Inspection

Table Name: RETAINING\_WALL\_INSPEC

Parent Type: Retaining Wall

Edit Landing Page:

RFA Landing Page:

Classification: Inspection

Status:  Valid

# Ancillary Asset Work Rec/RFA Configuration

USER, PONTIS



- BRIDGES
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- MAPPING
- MODELING CONFIG
- ELEMENT SPEC
- ELEMENT-CHILD LINKING
- PROJECT CATEGORIES
- DETERIORATION PROFILES
- NBI CONVERSION PROFILES
- NBI CONVERSION PROFILES ASSIGNMENT
- ELEMENTS
- ASSESSMENT
- BENEFIT GROUPS
- ACTION DEFS
- MULTI ASSET ACTION DEFS

Admin > Modeling Config > Multi Asset Action Defs

## Multi-Asset Action Definitions

Asset Type: Retaining Wall Show: Active

Search



Export

Add New

Sort Order	Name	Description	Notes	Network	Replace	Required Min. Cost	Action Type	Active	
1	Repair Wall Face	Retaining Wall Work Rec	Retaining Wall Work Rec	F	F	Concrete	T		
2	test			F	F	NA	T		

« 1 »

2 items in 1 page



# Ancillary Asset Work Rec/ RFA Configuration

USER, PONTIS



- BRIDGES
- REPORTS
- TUNNELS
- ADMIN
- SECURITY
- GENERAL CONFIG
- MAPPING
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- NBI CONVERSION PROFILES ASSIGNMENT
- ELEMENTS
- ASSESSMENT
- BENEFIT GROUPS
- ACTION DEFS
- MULTI ASSET ACTION DEFS**

Admin > Modeling Config > Multi Asset Action Defs

**Details**

**Asset Type:** Retaining Wall

**\* Name:** Repair Sign Connection

**Description:**

**Action Type:** Misc

**Required Min. Cost:** \$

**Sort Order:** 3

**Network Level:**

**Replacement:**

**Active:**

**Overriding Direct Cost**

**Override Type:** Unit Cost

**Work Candidate Unit Cost:** \$

# Ancillary Asset RFA Page Configuration

The screenshot displays the 'Visual Form Editor' interface for an 'Ancillary Asset RFA' page. The breadcrumb path is 'Admin > General Config > Visual Form Editor'. The interface is divided into several sections:

- Retaining Wall ID:** AssetSelector
- Request For Action:** A dropdown menu with a gear icon and a 'Create' button.
- Details:** A form section containing:
  - Fields for 'Agency/Company' and 'Agency'.
  - Fields for 'RFA Number' and 'RFA Date'.
  - An 'Inspection' field with a gear icon.
  - An 'Add Comment' field with a gear icon.
- Immediate Action:** A dashed box containing a gear icon.
- Intermediate Action:** A dashed box containing a gear icon.
- RFA Committee:** A form section containing:
  - A 'Review Required' checkbox.
  - A 'Committee Review Date' field.
  - An 'Estimated Repair Date' field.
  - A 'Current Priority' field with a gear icon.
  - An 'Add Comment' field with a gear icon.
- Final Action Completed:** A dashed box containing a gear icon.
- Status:** A dropdown menu set to 'Unresolved' with a gear icon.
- Buttons:** 'Save' and 'Delete' buttons at the bottom.

The left sidebar shows the navigation menu with 'VISUAL FORM EDITOR' highlighted in an orange box. The top left corner shows the user 'USER, PONTIS' and the 'AASHIOWare Bridge Management' logo.



# Ancillary Asset RFA Page Configuration

USER, PONTIS

**BrM** AASHTOWare™  
Bridge Management  
AASHTO

- BRIDGES
- REPORTS
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- GENERAL CONFIG
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- OPTIONS
- EXPORT OPTIONS
- DATA DICT.
- CHECKED OUT BRIDGES
- LOGGING
- NAVIGATION SECURITY
- VISUAL FORM EDITOR**
- PAGE EXPORT
- EQUATION EDITOR
- SET EDITOR
- VALIDATION EDITOR
- MANAGE ASSET TYPES

### Selected Group Properties

Name: Custom Control

Group Type: Group Box

Desktop Url: /PontisModules/Asset/RequestForAction/RFAFieldComment.aspx

Label: No Caption

Hide Label:

Visible:

Read Only:

Span Across:

Order: 3

Group GUI ID:

Horizontal Alignment: None

Vertical Alignment: None

Repeat Direction: Vertical

Repeat Count: 1

Height: 0 None

Width: 802 px

Cell Spacing: 1

Cell Padding:

Skin: None

### Customize Control

Column Name: req\_for\_action\_gd

Delete Group

### Selected Control Properties

Name: rfaReviewDate

Label: Committee Review Date

Hide Label:

Tooltip Label: Tooltip Text

Asset Type: Retaining Wall

Asset Field: RFA

Override Table Name: req\_for\_action

Override Column Name: review\_date

Order: 1

Default Value:

Postback Event ID:

Control GUI ID:

Show Label Colon:

Show NBI Code:

Visible:

Read Only:

Bold Label:

Bold Value:

Label Color: None

Value Color: None

Field Width: 0 None

Label Width: 100 %

Delete Control

# Ancillary Asset RFA

Retaining Wall ID:  [Create](#) Request For Action:  [Create](#)

Retaining Walls > Retaining Wall RFA

**Please** Retaining Wall ID:  [Create](#) Request For Action:  [Create](#)

Retaining Walls > Retaining Wall RFA

**Details**

Submitted By: (Pontis) User, Pontis Agency / Company Name: Mayvue  
RFA Number: RM-000346-09122023 RFA Date:

Inspection:

Add comment:

**Immediate Action**

[Add New](#)

**Intermediate Action**

[Add New](#)

**RFA Committee**

Review Required:  Committee Review Date:

Estimated Repair Date:  Current Priority:

Add comment:

**Final Action Completed**

Add comment:



MANAGEMENT

# Ancillary Asset RFA

**Intermediate Action**

[Add New](#)

\* Action:

Date Reviewed:

No Of Locations:

Add comment:

\* Contact/User:

Priority:

Agency/Company Name: Mayvue

Date Completed:

[Delete](#)

New Intermediate Action added for Request for Action RM-000346-09122023 for Retaining Wall RM-000346

MDOT-MiBridge-Admin@michigan.gov  
To: Armour, Jacob (MDOT)

Retention Policy Global Email Deletion Policy (7 years)

Expires 9/10/2030

A new Intermediate Action has been added for the following Request for Action:

RFA Number	Asset Type	Asset ID	Request For	Comments
RM-000346-09122023	Retaining Wall	RM-000346	Repair Wall Face	

Please sign into BrM to review this Intermediate Action.



# Ancillary Asset RFA

Retaining Walls > Retaining Wall RFA

**Details**

Submitted By: (Pontis) User, Pontis Agency / Company Name: Mayvue  
RFA Number: RM-000346-09122023 RFA Date: 9/12/2023  
Inspection:

Add comment:

**Immediate Action**

\* Recommended Action:  \* Requested By: User, Pontis (Pontis)  
\* Requested Date: 09/11/2023 Completed By:  
Completed Date: Date Traffic Restored /  
Signs Installed:  
Traffic Restoration / Sign  
Installation Comments:  
Add comment:

**Intermediate Action**

\* Action:  \* Contact/User: User, Pontis (Pontis) Agency/Company Name: Mayvue  
Date Reviewed: mm/dd/yyyy Priority:  Date Completed: mm/dd/yyyy  
No Of Locations:  
Add comment:

**RFA Committee**

Review Required:  Committee Review Date:  
Estimated Repair Date: Current Priority:  
Add comment:

**Final Action Completed**

Add comment:

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<https://aashtoware.org> | AASHTO Publications

Status:

# Ancillary Asset RFA Tips and Tricks

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- Request For Action
  - Initial Actions
    - Rfa\_immed\_action.action
  - Priority
    - Asset\_work\_candidate.priority
- Intermediate Action=Work Rec
- RFA Parameters are shared across assets
- Must be a “Reviewer” to link events or assign tasks
- Email Alerts are sent the “Reviewer” Group
- Document Document Document!



# Ancillary Asset Work Recommendations

USER, PONTIS



- BRIDGES
- REPORTS
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- SECURITY
- GENERAL CONFIG
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- ELEMENT SPEC
- ELEMENT-CHILD LINKING
- PROJECT CATEGORIES
- DETERIORATION PROFILES
- NBI CONVERSION PROFILES
- NBI CONVERSION PROFILES ASSIGNMENT
- ELEMENTS
- ASSESSMENT
- BENEFIT GROUPS
- ACTION DEFS
- MULTI ASSET ACTION DEFS

Admin > Modeling Config > Multi Asset Action Defs

Multi-Asset Action Definitions

Asset Type: Retaining Wall Show: Active

Search [ ] Export [ ] Add New [ ]

Sort Order	Name	Description	Notes	Network	Replace	Required Min. Cost	Action Type	Active	
1	Repair Wall Face	Retaining Wall Work Rec	Retaining Wall Work Rec	F	F	Concrete	T	T	[edit] [copy] [delete]
2	test			F	F	NA	T	T	[edit] [copy] [delete]
3	Repair Sign Connection			F	F	Misc	T	T	[edit] [copy] [delete]

< 1 >

3 items in 1 page



# Ancillary Asset Work Recommendations

USER, PONTIS



- BRIDGES
- REPORTS
- TUNNELS
- ADMIN
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- ELEMENT SPEC
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- PROJECT CATEGORIES
- DETERIORATION PROFILES
- NBI CONVERSION PROFILES
- NBI CONVERSION PROFILES ASSIGNMENT
- ELEMENTS
- ASSESSMENT
- BENEFIT GROUPS
- ACTION DEFS
- MULTI ASSET ACTION DEFS

Admin > Modeling Config > Multi Asset Action Defs

**Details**

Asset Type: Retaining Wall

\* Name: Seal Cracks

Description: Seal Cracks

Action Type: Concrete

Required Min. Cost: \$

Sort Order: 4

Network Level:

Replacement:

Active:

Notes:

**Overriding Direct Cost**

Override Type: Unit Cost

Work Candidate Unit Cost: \$



# Ancillary Asset Work Recommendations

USER, PONTIS

**BrM** AASHTOWare  
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AASHTO

- BRIDGES
- REPORTS
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- ADMIN
  - SECURITY
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  - EXPORT OPTIONS
  - DATA DICT.
  - CHECKED OUT BRIDGES
  - LOGGING
  - NAVIGATION SECURITY
  - VISUAL FORM EDITOR**

Add Custom Control

Add Custom Control

Name: Custom Control

Control Type: --Select a Control Type--

Label: --Select a Control Type--

Hide Label:

Visible: Asset Work Candidates

Read Only:

Span Across:

Collapsible:

Horizontal Alignment:

Vertical Alignment:

Height:

Width:

Cell Spacing:

Cell Padding:

Asset Element Condition Grid  
Asset Field Comment  
Asset Previous Comment  
RoutineInspectionTargetDate.ascx  
TunnelInspectionScheduleTable.ascx  
TunnelInspectionTypesPerformed.ascx  
Request For Action Field Comment  
Request For Action Immediate Action  
Request For Action Inspection Selector  
Request For Action Intermediate Action  
Request For Action Priority Display  
Request For Action Selector  
Request For Action Status Selector  
Sign Panel  
UITunnelCondition.ascx  
InspectionAssignmentViewer.ascx  
AssessmentDetail.ascx  
ConditionSaveButton.ascx

Add Control Cancel



# Ancillary Asset Work Recs Tips and Tricks

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MUST USE **INSPDATE** as the identification in the “Inspection” Table



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# Critical Findings

- BRIDGES
- REPORTS
- TUNNELS
- ADMIN
- SECURITY
- GENERAL CONFIG
- PARAMETERS
- OPTIONS
- EXPORT OPTIONS
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- PAGE EXPORT
- EQUATION EDITOR
- SET EDITOR
- VALIDATION EDITOR
- MANAGE ASSET TYPES
- VEHICLE DEFINITIONS
- SCHEDULED TASKS
- MULTIMEDIA
- CRITICAL FINDINGS**

Admin > General Config > Critical Findings

## Level 1 Reviewer

Rules will be checked in order. The first rule match determines the Level 1 Reviewer.

+ Add Rule

Order	When	Is/In	And When	Is/In	Then Level 1 Reviewer Group Is	Notes
1	district	1- Superior	Critical Finding Reporter	MDOT - North Region	MDOT - North Region	

\* Default Review Group When No Rule Is Met:

- Default Group
- MDOT - North Region
- MDOT - All
- MDOT - Bay Region

## Level 2 Reviewer

Status:  Disabled  Enabled

Rules will be checked in order. The first rule match determines the Level 2 Reviewer.

+ Add Rule

Order	When	Is/In	And When	Is/In	Then Level 2 Reviewer Group Is	Notes
No records to display.						

\* Default Review Group When No Rule Is Met:

- Default Group
- MDOT - North Region
- MDOT - All
- MDOT - Bay Region





# Critical Findings

- BRIDGES
- REPORTS
- TUNNELS
- ADMIN
- SECURITY
- GENERAL CONFIG
- PARAMETERS
- OPTIONS
- EXPORT OPTIONS
- DATA DICT.
- CHECKED OUT BRIDGES
- LOGGING
- NAVIGATION SECURITY
- VISUAL FORM EDITOR
- PAGE EXPORT
- EQUATION EDITOR
- SET EDITOR
- VALIDATION EDITOR
- MANAGE ASSET TYPES
- VEHICLE DEFINITIONS
- SCHEDULED TASKS
- MULTIMEDIA
- CRITICAL FINDINGS**

### Add Rule

\* Type:

\* When:

\* Is:

AND

Type:

When:

Is:

\* Reviewer Group:

Notes:

### Add Rule

\* Type:

\* When:

\* Is:

AND

Type:

When:

Is:

\* Reviewer Group:

Notes:

### Add Rule

\* Type:

\* When:

\* Is:

AND

Type:

When:

Is:

\* Reviewer Group:

Notes:

### Edit Rule

\* Type:

\* When:

\* Is:

AND

Type:

\* When:

\* Is:

\* Reviewer Group:

Notes:

- Bridge Parameters
- adminarea
- adtclass
- altirmeth
- altormeth
- bridge\_lifecycle\_phase
- bridge\_status
- bridged
- county
- custodian
- designappr
- designload
- designmain
- district
- dkmembtype
- dkprotect
- dkstructyp
- dksurftype
- fc\_detail
- fhwa\_reg
- fips\_state

USER, PONTIS



# Critical Findings

- BRIDGES
- REPORTS
- TUNNELS
- ADMIN
- SECURITY
- GENERAL CONFIG
- PARAMETERS
- OPTIONS
- EXPORT OPTIONS
- DATA DICT.
- CHECKED OUT BRIDGES
- LOGGING
- NAVIGATION SECURITY
- VISUAL FORM EDITOR
- PAGE EXPORT
- EQUATION EDITOR
- SET EDITOR
- VALIDATION EDITOR
- MANAGE ASSET TYPES
- VEHICLE DEFINITIONS
- SCHEDULED TASKS
- MULTIMEDIA
- CRITICAL FINDINGS**

## FHWA Settings

Send Critical Findings to FHWA:

## Email CC Addresses

All Critical Findings emails will CC the contacts listed below.

[+ Add Contact](#)

### Email Address

No records to display.

## Editability Settings

Critical Findings Data is editable:

## Committee Review Data Settings

Display Committee Review Group on Critical Findings page:


## Intermediate Actions Settings

Display Intermediate Actions Groups on Critical Findings page:



# Critical Findings

USER, PONTIS



BRIDGES  
REPORTS  
TUNNELS  
ADMIN  
INSPECTION  
CONDITION  
APPRAISAL  
INVENTORY  
SCHEDULE  
WORK  
MULTIMEDIA  
ASSESSMENTS  
LOAD RATINGS  
ELEMENT CONDITION RATINGS  
CROSS SECTIONS  
BRIDGE JUSTIFICATION  
CRITICAL FINDINGS

## Inspection > Critical Findings

Critical Findings List

Bridge: 000000000000032 Feature Intersected (006A): W BR WHITEFISH RIVER Facility Carried (007): US-41

Search

Date of Finding	ID	Category	Description	Priority	Status	Sent to FHWA	Date of Last Action	Days Until Next Action Due
No records to display.								

Bridge ID: 000000000000032 Feature Intersected (006A): W BR WHITEFISH RIVER Facility Carried (007): US-41

## Inspection > Critical Findings

Critical Finding Status: Draft

Critical Finding Data

Reporter: (Pontis) User, Pontis Reporter Phone: 877-913-1550 Reporter Email: armourj1@michigan.gov


Date of Finding: 09/12/2023 Time of Finding: 06:55 AM Discovered During Inspection: [dropdown]

Category: [Please choose a value] Initial Priority: [Please choose a value] Initial Action Taken: [Please choose a value]


Bridge Owner Contacted Date: mm/dd/yyyy Bridge Owner Contacted Time: --:--

Contacted Name: [input] Contacted Phone: [input]


Description: [input]



# Critical Findings


USER, PONTIS

Bridge ID: 000000000000032    Critical Finding ID: 000000000000032-0912202: Feature Intersected (006A): W BR WHITEFISH RIVER    Facility Carried (007): US-41



- BRIDGES
- REPORTS
- TUNNELS
- ADMIN
- INSPECTION
- CONDITION
- APPRAISAL
- INVENTORY
- SCHEDULE
- WORK
- MULTIMEDIA
- ASSESSMENTS
- LOAD RATINGS
- ELEMENT CONDITION RATINGS
- CROSS SECTIONS
- BRIDGE JUSTIFICATION
- CRITICAL FINDINGS

## Inspection > Critical Findings

**Critical Finding Status**

Pending Level 1 Review      Current Priority Level: Urgent

**Critical Finding Data**

Reporter: (Pontis) User, Pontis    Reporter Phone: 877-913-1550    Reporter Email: armourj1@michigan.gov

Date of Finding: 09/12/2023    Time of Finding: 06:55 AM    Discovered During Inspection: 2021-05-04 (IMMX)

Category: C - Collision (hit/ramp)    Initial Priority: Urgent    Initial Action Taken: Please choose a val

Bridge Owner Contacted Date: 09/12/2023    Bridge Owner Contacted Time: 06:57 AM

Contacted Name:    Contacted Phone:

Description:

**Critical Finding Log**

Search

Action Date/Time	User	Action	Due Date	Comments
09/12/2023 06:55 AM	User, Pontis	Saved New Critical Finding		

1 item in 1 page

**Outstanding Tasks**

Event Type	Assignee	Due Date	Days remaining	Comments
No records to display.				

# Critical Findings

USER, PONTIS



- BRIDGES
- REPORTS
- TUNNELS
- ADMIN
- INSPECTION
- CONDITION
- APPRAISAL
- INVENTORY
- SCHEDULE
- WORK
- MULTIMEDIA
- ASSESSMENTS
- LOAD RATINGS
- ELEMENT CONDITION RATINGS
- CROSS SECTIONS
- BRIDGE JUSTIFICATION
- CRITICAL FINDINGS**

Associated Projects

Project	Actions	Projected End Date	Days Until Projected End Date
No records to display.			

Associated Work Candidates

Work Candidate	Actions	Date Completed
No records to display.		

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# Critical Findings

USER, PONTIS



- BRIDGES
- REPORTS
- TUNNELS
- ADMIN
- INSPECTION
- CONDITION
- APPRAISAL
- INVENTORY
- SCHEDULE
- WORK
- MULTIMEDIA
- ASSESSMENTS
- LOAD RATINGS
- ELEMENT CONDITION RATINGS
- CROSS SECTIONS
- BRIDGE JUSTIFICATION
- CRITICAL FINDINGS**

## Inspection > Critical Findings

**Critical Finding Status**  
Pending Level 1 Review      Current Priority Level: Urgent

**Critical Finding Data**

Reporter: (Pontis) User, Pontis	Reporter Phone: 877-913-1550	Reporter Email: armourj1@michigan.gov
Date of Finding: 09/12/2023	Time of Finding: 06:55 AM	Discovered During Inspection: 2021-05-04 (IMMX)
Category: C - Collision (hit/imp)	Initial Priority: Urgent	Initial Action Taken: Please choose a val
Bridge Owner Contacted Date: 09/12/2023	Bridge Owner Contacted Time: 06:57 AM	
Contacted Name: High Load Hit	Contacted Phone:	
Description: <input type="text"/>		

**Committee Review Data**

\* Review Required:       Committee Review Date:       Estimated Repair Date:

Add comment:

**Intermediate Actions** [Add Action](#)





# Critical Findings

USER, PONTIS



- BRIDGES
- REPORTS
- TUNNELS
- ADMIN
- INSPECTION
- CONDITION
- APPRAISAL
- INVENTORY
- SCHEDULE
- WORK
- MULTIMEDIA
- ASSESSMENTS
- LOAD RATINGS
- ELEMENT CONDITION RATINGS
- CROSS SECTIONS
- BRIDGE JUSTIFICATION
- CRITICAL FINDINGS**

**Intermediate Actions** Add Action

\* Action: **Bearings-Reset**  \* Contact/User:  Agency:   
Date Reviewed:  Priority:   
No. of Locations:   
Add comment:

- Bearings-Reset**
- Apprh Rdway-Mill Approach/Sllder
- Approach Railing
- Approach Railing-Repair
- Approach Rdway-Patch Bituminous
- Approach Roadway
- Approach Roadway-Wedge Approach
- Approach Slab-Overlay
- Approach Slab-Repair
- Approach Slab-Replace
- Bearings-Clean Assemblies/Paint
- Bearings-Install Auxiliary

**Critical Finding**

**Intermediate Actions** Add Action

\* Action: **Bearings-Reset**  \* Contact/User: **ARMOUR, Jacob**  Agency: **Mayvue**  
Date Reviewed:  Priority: **High**   
No. of Locations:   
Add comment:



# Critical Findings

USER, PONTIS



- BRIDGES
- REPORTS
- TUNNELS
- ADMIN
- INSPECTION
- CONDITION APPRAISAL
- INVENTORY
- SCHEDULE
- WORK
- MULTIMEDIA
- ASSESSMENTS
- LOAD RATINGS
- ELEMENT CONDITION RATINGS
- CROSS SECTIONS
- BRIDGE JUSTIFICATION
- CRITICAL FINDINGS**

New Intermediate Action added for Critical Finding ID 000000000000032-09122023 for bridge 000000000000032

MDOT-MiBridge-Admin@michigan.gov  
To: ✓ Armour, Jacob (MDOT)  
Retention Policy: Global Email Deletion Policy (7 years) Expires: 9/10/2030

Tue 9/12/2023 7:05 AM

A new Intermediate Action has been added for the following Critical Finding:

Critical Finding ID	Bridge ID	Facility Carried	Feature Intersected	Location	County	Region	Request For	Comments
000000000000032-09122023	000000000000032	US-41	W BR WHITEFISH RIVER	1.5 MI SW OF TRENARY	Alger	Region 5-Homewood	Bearings-Reset	

Please sign into BrM to review this Intermediate Action.




# Critical Findings

The screenshot displays the AASHIOWare Bridge Management software interface. On the left is a vertical navigation menu with the following items: BRIDGES, REPORTS, TUNNELS, ADMIN, INSPECTION, CONDITION APPRAISAL, INVENTORY SCHEDULE, WORK, MULTIMEDIA, ASSESSMENTS, LOAD RATINGS, ELEMENT CONDITION RATINGS, CROSS SECTIONS, BRIDGE JUSTIFICATION, and CRITICAL FINDINGS (highlighted with an orange box). The top left shows the user profile 'USER, PONTIS' and the 'BrM Bridge Management' logo. The main area is titled 'Outstanding Tasks' and contains a table with columns: Event Type, Assignee, Due Date, Days remaining, and Comments. The table is currently empty, displaying 'No records to display.' An 'Assign Task' button is highlighted with an orange box in the top right of this section. Below the table, three 'Assign Task' dialog boxes are shown. The first dialog has empty fields for Assignee, Event Type, and Due Date. The second dialog has an open dropdown menu for Assignee showing a list of names including Alberts, Joseph, Allen, Dale, Arakelov, Levon, Armour, Jacob, Bergman, Seth, Boatman, Brandon, Bouvy, Andrew, Brozovic, Emily, Bruinsma, Jonathan, Covey, James, Curtis, Rebecca, Davis, Kelly, Generator, Report, Gill, Amy, Halloran, Mike, and Irish, Marissa. The third dialog has 'User, Pontis' selected for Assignee and 'Load Rating' selected for Event Type. Each dialog includes a 'Comment' field and 'Save' and 'Cancel' buttons.

# Critical Findings

USER, PONTIS



- BRIDGES
- REPORTS
- TUNNELS
- ADMIN
- INSPECTION
- CONDITION APPRAISAL
- INVENTORY
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- LOAD RATINGS
- ELEMENT CONDITION RATINGS
- CROSS SECTIONS
- BRIDGE JUSTIFICATION
- CRITICAL FINDINGS

### Critical Finding Log

Search

Action Date/Time	User	Action	Due Date	Comments	
09/12/2023 06:55 AM	User, Pontis	Saved New Critical Finding			
09/12/2023 07:09 AM	User, Pontis	Linked Event		Linked to Work Candidate 3A336F5-17C4-091223-572C952018	
09/12/2023 07:10 AM	User, Pontis	Assigned Task Load Rating to User, Pontis	09/23/2023		

« 1 » 3 items in 1 page

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### Outstanding Tasks

Event Type	Assignee	Due Date	Days remaining	Comments	
Load Rating	User, Pontis	09/23/2023	11		

« 1 » 1 item in 1 page

---

### Associated Projects

Project	Actions	Projected End Date	Days Until Projected End Date
No records to display.			

---


### Associated Work Candidates

Work Candidate	Actions	Date Completed	
3A336F5-17C4-091223-572C952018	Bearings-Reset		

« 1 » 1 item in 1 page

# Critical Findings

USER, PONTIS



- BRIDGES
- REPORTS
- TUNNELS
- ADMIN
- INSPECTION
- GATEWAY
- ANALYSIS
- PROJECTS
- PROGRAMS
- INSPECTION MANAGEMENT
- CRITICAL FINDINGS DASHBOARD

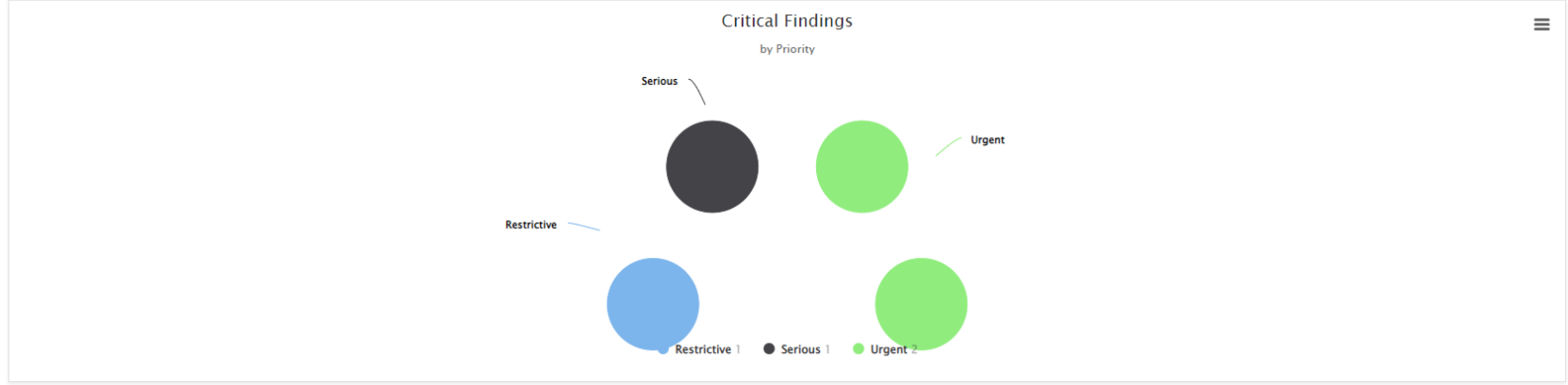
## Inspection Management > Critical Findings Dashboard

Search  [Export](#)

Days Until Next Action Due	Priority	Status	ID	Bridge ID	Category	Level 1 Reviewer	Date of Finding	Sent to FHWA	Date of Last Action	Date Resolved
10	Urgent	Pending Level 1 Review	000000000000032-09122023	000000000000032	C - Collision (hit/imp)		09/12/2023	F	09/12/2023	
	Serious	Pending Level 1 Review	000000000000034-09132023	000000000000034	H - Fatigue		09/13/2023	F	09/13/2023	
	Urgent	Pending Level 1 Review	000000000000033-09132023	000000000000033	A - Scour		09/13/2023	F	09/13/2023	
	Restrictive	Pending Level 1 Review	000000000000039-09132023	000000000000039	L - Construction defect		09/13/2023	F	09/13/2023	

« 1 » 4 items in 1 page

Show by: Priority



# Critical Findings Tips and Tricks

---

- Critical Finding Category
  - Pon\_criticalfinding.category
- Initial Actions
  - Pon\_criticalfinding.initialaction
- Priority
  - Pon\_criticalfinding\_log.priority
- Intermediate Action=Work Rec
- Must be a “Reviewer” to link events or assign tasks
- Email Alerts are sent the “Reviewer” Group
- Document Document Document!



# Multimedia

- USER, PONTIS
- REPORTS
- TUNNELS
- ADMIN
- SECURITY
- GENERAL CONFIG
- PARAMETERS
- OPTIONS
- EXPORT OPTIONS
- DATA DICT.
- CHECKED OUT BRIDGES
- LOGGING
- NAVIGATION SECURITY
- VISUAL FORM EDITOR
- PAGE EXPORT
- EQUATION EDITOR
- SET EDITOR
- VALIDATION EDITOR
- MANAGE ASSET TYPES
- VEHICLE DEFINITIONS
- SCHEDULED TASKS
- MULTIMEDIA**
- OPTIONAL FINANCING

### Sub-Category Mapping

Category: Design Document

Available Sub-Categories		Selected Sub-Categories
Inspection Photo	>>	
Posting Signs	>	
BrR Files	>	
Hand Calcs	<	
Plans	<	
Design Document	<	
Load Rating Summary	<<	



# Certifications/Qualifications

- BRIDGES
- REPORTS
- TUNNELS
- ADMIN
  - SECURITY
  - GENERAL CONFIG
  - PARAMETERS
  - OPTIONS
  - EXPORT OPTIONS
  - DATA DICT.
  - CHECKED OUT BRIDGES
  - LOGGING
  - NAVIGATION SECURITY
  - VISUAL FORM EDITOR
  - PAGE EXPORT
  - EQUATION EDITOR
  - SET EDITOR
  - VALIDATION EDITOR
  - MANAGE ASSET TYPES
  - VEHICLE DEFINITIONS
  - SCHEDULED TASKS
  - MULTIMEDIA
  - CRITICAL FINDINGS
  - USER CERTIFICATIONS**

Admin > General Config > User Certifications

### License Information

Display License Information Group on Profile Page

### Experience Types

Display Experience Types Group on Profile Page

Show: Active

[Add New](#)

Experience Type	Notes	Active	
Inspections		T	

« 1 »

1 item in 1 page

### Certification Categories

Show: Active

[Add New](#)

Category	Notes	Active	
NHI Courses		T	

« 1 »

1 item in 1 page







# Certifications/Qualifications

- BRIDGES
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- SCHEDULED TASKS
- MULTIMEDIA
- CRITICAL FINDINGS
- USER CERTIFICATIONS**

Certification Categories

Show: Active

Category	Notes	Active
NHI Courses		T

« 1 »

1 item in 1 page

[Add New](#)

Add New Certification Category

\* Name:

Notes:

Active:

[Save](#) [Cancel](#)





# Certifications/Qualifications

- BRIDGES
- REPORTS
- TUNNELS
- ADMIN
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- OPTIONS
- EXPORT OPTIONS
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- MULTIMEDIA
- CRITICAL FINDINGS
- USER CERTIFICATIONS**

Qualifications

Show: Active

[Add New](#)

Qualification	Notes	Active
Qualified Team Leader		T

« 1 » 1 item in 1 page

### Edit Qualification

\* Name:


Notes:

Active:

[Save](#) [Cancel](#)



# Certifications/Qualifications

 USER, PONTIS  
DB: [REDACTED]  
DESC: [REDACTED]  
WEB HELP  
**USER PROFILE**  
LOGOUT

## My Qualifications

Show: Active for User

Qualification	Active for User	Expiration	Suspended	Suspension Comment	Temporary Qualification Comment
Qualified Team Leader	T		F		

## My Years of Experience

[Add New](#)

Experience Type	Experience Start	Experience End	Number of Years
Inspections	January 2010		13

« 1 »

1 item in 1 page

## My Certifications

Show: All

[Export](#)

[Add New](#)


Category	Certification	Date Completed	Expiration Date	Hours	Status	Denial Reason
NHI Courses	FHWA-NHI-130053	9/1/2023			Approved	
NHI Courses	FHWA-NHI-130053	8/1/2023			Approved	

« 1 »

2 items in 1 page

# Certifications/Qualifications

USER, PONTIS



- BRIDGES ▾
- REPORTS ▾
- TUNNELS ▾
- ADMIN ▾
- INSPECTION ▾
- GATEWAY ▾
- ANALYSIS ▾
- PROJECTS ▾
- PROGRAMS ▾
- INSPECTION MANAGEMENT ▾
- CRITICAL FINDINGS DASHBOARD
- MANAGE CERTIFICATIONS

Inspection Management > Manage Certifications

User List

Role: All ▾ [Export](#)


User ID ▾	First Name ▾	Last Name ↕	Agency ▾	Phone Number ▾
Search	Search	Search	Search	Search
albertsj	Joseph	Alberts		
allend8	Dale	Allen		
ARAKELOVL1987	Levon	Arakelov		
ArmourJ1	Jacob	Armour	MDOT	
bergmans2	Seth	Bergman		
boatmanb	Brandon	Boatman	MDOT	
bouvya	Andrew	Bouvy	MDOT	
brozovice1	Emily	Brozovic	DTMB	
BruinsmaJ	Jonathan	Bruinsma		
coveyj2	James	Covey		

« 1 2 3 4 5 » Rows per page: 10 ▾

Manage User Certifications

# Certifications/Qualifications

USER, PONTIS



- BRIDGES
- REPORTS
- TUNNELS
- ADMIN
- INSPECTION
- GATEWAY
- ANALYSIS
- PROJECTS
- PROGRAMS
- INSPECTION MANAGEMENT
- CRITICAL FINDINGS DASHBOARD
- MANAGE CERTIFICATIONS

Inspection Management > Manage Certifications

---

**Manage User Certifications**

Search  [Export](#) Show: Pending

Name	Agency	Category	Certification	Date Completed	Expiration Date	Hours	Submitted Date	Status	Approved/Denied by	Approved/Denied Date	Denial Reason
User, Pontis	Mayvue	NHI Courses	FHWA-NHI-130053	9/13/2023			9/13/2023	Pending			

1 item in 1 page

---

**User Qualifications**

[Update](#) Last update: 09/13/2023 1:00:05 AM


Search  [Export](#) Show: Current [Add Temporary Qualification](#)

Name	Agency	Qualification	Active	Expiration Date	Temporary Qualification	Temporary Qual. Granted By	Temporary Qualification Comment	Suspension Status	Suspended by	Suspension Comment
User, Pontis	Mayvue	Qualified Team Leader	T		F			F		
Amour, Jacob	MDOT	Qualified Team Leader	T	09/15/2023	T	User, Pontis		F		

2 items in 1 page

# Certifications/Qualifications

USER, PONTIS



BRIDGES ▾

REPORTS ▾

TUNNELS ▾

ADMIN ▾

INSPECTION ▾

GATEWAY ▾

ANALYSIS ▾

PROJECTS ▾

PROGRAMS ▾

INSPECTION MANAGEMENT ▾

CRITICAL FINDINGS DASHBOARD

MANAGE CERTIFICATIONS

## Add Temporary Qualification

\* User:

\* Qualification:

\* Expiration Date:

File:

Comment:

# Certifications/Qualifications

## Tips and Trick

- Start Simple
- Study the Examples
- Logic is not in UI
- Document Document Document!



## 1<sup>st</sup> Example: User License

In our first example, we are looking to see if a particular user has a license number or not:

```
SELECT CASE
  WHEN EXISTS (SELECT 1
    FROM pon_app_users u
    WHERE u.pon_app_users_gd = @userGd
    AND u.license_number IS NOT NULL) THEN
    To_date(
      '12/31/9999', 'mm/dd/yyyy')
  ELSE NULL
END AS rec_exists
FROM dual;
```





# Dashboard Charts

- BRIDGES
- REPORTS
- TUNNELS
- ADMIN
- SECURITY
- GENERAL CONFIG
- PARAMETERS
- OPTIONS
- EXPORT OPTIONS
- DATA DICT.
- CHECKED OUT BRIDGES
- LOGGING
- NAVIGATION SECURITY
- VISUAL FORM EDITOR
- PAGE EXPORT
- EQUATION EDITOR
- SET EDITOR
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- MULTIMEDIA
- CRITICAL FINDINGS
- USER CERTIFICATIONS
- VISUAL DASHBOARD EDITOR
- VDE CHART TEMPLATES

Admin > General Config > VDE Chart Templates

VDE Chart Templates

Search

Name	Chart Title	Chart Type	Description	Standard
No records to display.				

Admin > General Config > VDE Chart Templates

Edit VDE Chart Template

Name: District Chart

Chart Title: District Bridge Condition

Chart Type: Stacked Column

Description:

X-Axis Title: Districts

X-Axis Parameter: bridge.district

Y-Axis Title: Total Bridge Count

Y-Axis Parameter: inspevnt.bridge\_condition

Total Bridge Count

Districts

Sample

MANAGEMENT



USER, PONTIS



# Dashboards

- BRIDGES
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- USER CERTIFICATIONS
- VISUAL DASHBOARD EDITOR
- VDE CHART TEMPLATES

Admin > General Config > Visual Dashboard Editor

## Dashboard List

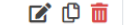
Asset Type:

- Bridge
- Bridge
- Cantilever-Truss
- Communication Tower
- Culvert
- DMS Support Structure
- ESS Tower
- Embedded Strain Pole
- Frang/Non-Frang Pole Structure
- High Mast Lighting Tower
- Mast Arm
- New Asset
- Noise Wall
- Retaining Wall
- Sign
- Spun Concrete Pole
- Tunnels

+ Add New

Standard

F



1 item in 1 page



# Dashboards

- BRIDGES
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- CRITICAL FINDINGS
- USER CERTIFICATIONS
- VISUAL DASHBOARD EDITOR
- VDE CHART TEMPLATES

### Select Control

- Dropdown Filter**  
Dropdown that filters other controls
- Filter Grid**  
A fully customizable grid. May be used as a dashboard's filter count control.
- Custom Label**  
A label component that can be bolded and color highlighted
- Empty Block**  
Empty block to design your section/row.
- Bridge Table Grid**  
Adaptive table grid that loads data specified by SQL query filter selected on the page.
- Chart Control**  
Chart Using VDE Chart Template

Cancel

### Control Properties

**Basic**

Name •  
Column 1

Label •  
Filter Grid

Show Label

**Styling**

Number of Columns  
4

**Advanced**

Open Grid Config

Save Save & Close Cancel





# Dashboards

- BRIDGES
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- VDE CHART TEMPLATES

## Filter Count SQL

**Name \***  
Total Structures

**Default**

**Filter Variables**

- bridge\_with\_access
- Current User
- Selected Bridge
- Selected Inspection
- Selected Roadway
- Selected Structure Unit

**SQL Requirements**

**Filter SQL \***  
Provide a SQL query that returns rows corresponding to the count or percent in the Scalar SQL query. This filter will be applied to the subscribing Table Grid.

```
select  
  
a.bridge_gd as "key_", b.strc_num as "strucNum_",a.facility as "Facility Carried", a.featint as  
"Features Intersected",  
a.strucname as "Structure Name", p.shortdesc as "Region", case when a.nbislen='Y' and  
a.servtypon in ('1','4','5','6','7','8') then 'Y' else 'N' end as "NBI",
```

**Scalar SQL \***  
Provide a SQL query that returns a single result like a count or percentage.

```
select  
count(1)  
  
from  
{bridge_with_access}.st
```

Close





# Dashboards

- BRIDGES
- REPORTS
- TUNNELS
- ADMIN
- SECURITY
- GENERAL CONFIG
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- OPTIONS
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- Chart Control**  
Chart Using VDE Chart Template

Cancel

### Control Properties

**Basic**

**Name \***  
District Control

**Label \***  
label

Show Label

**Styling**

**Number of Columns**  
6

**Advanced**

**Parameter Dropdown Filters**  
No filters available

**Vde Chart Template \***  
District Chart

Save Save & Close Cancel

USER, PONTIS



# Dashboards

- BRIDGES
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- VDE CHART TEMPLATES

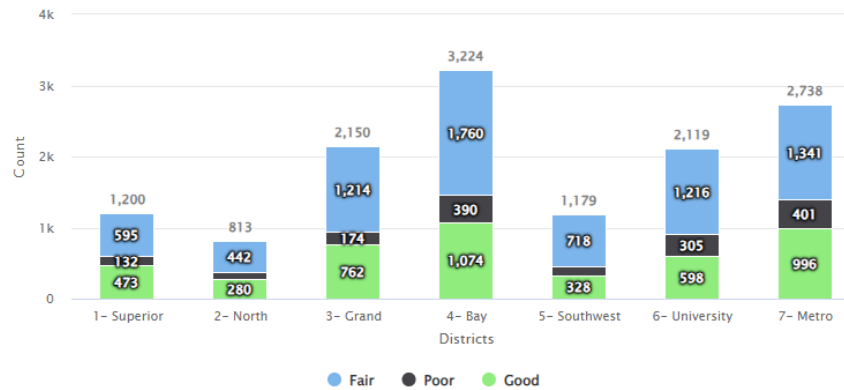
Admin > General Config > Visual Dashboard Editor

### Additional Bridge Inventory Information

Posted Structures	1126	Highway included in NBI
Closed Structures	103	Non NBI Structures (<20, RR, Ped, ect.)
Fracture Critical Structures	148	Unrated Structures
Scour Critical Structures	1605	Highway included in NBI
Scheduled/Under Construction (S,G)	123	Non NBI Structures (<20, RR, Ped, ect.)

### New Section

District Bridge Condition





# Dashboards

- BRIDGES
- REPORTS
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Adaptive table grid that loads data specified by SQL query filter selected on the page.
- Chart Control**  
Chart Using VDE Chart Template

Cancel

### Basic

**Name** \*

**Label** \*

Show Label

### Styling

**Number of Columns**

**Advanced**

**Filters** \*

- Column 1
- Column 2
- Column 3

Charts

- Documents Button
- Map Button

Save Save & Close Cancel

USER, PONTIS



# Dashboards

- BRIDGES
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- VDE CHART TEMPLATES

Bridges Grid

Total Structures

Export Map Documents

Structure Number	Facility Carried	Features Intersected	Structure Name	Region	NBI	Fwy	Insp. Date	Fract Crit	Scour Crit	Deck Rtg	Surf Rtg	Deck Botm Rtg	Super Str Rtg
<input type="checkbox"/> 1	M-65	BRYANT CREEK		2- North	N	N	06/07/2022	N	6	N			N
<input type="checkbox"/> 2	M-65	MCGINN CREEK		2- North	N	N	06/15/2022	N	6	N			N
<input type="checkbox"/> 3	M-72	BACKUS CREEK		2- North	N	N	06/21/2022	N	6	N			N
<input type="checkbox"/> 4	M-72	E BR PINE RIVER		2- North	N	N	06/22/2022	N	6	N			N
<input type="checkbox"/> 5	M-72	VAN ETTEN CREEK		2- North	N	N	06/22/2022	N	6	N			N
<input type="checkbox"/> 6	M-72	EATON CREEK		2- North	N	N	06/23/2022	N	6	N			N
<input type="checkbox"/> 7	US-23	BLACK RIVER		2- North	Y	N	06/08/2022	N	U	7	8	7	6
<input type="checkbox"/> 8	US-23	MILL CREEK		2- North	N	N	06/13/2022	N	6	N			N
<input type="checkbox"/> 9	BAMFIELD ROAD FH08	AU SABLE RIVER		2- North	Y	N	05/19/2021	N	8	6	8	N	5
<input type="checkbox"/> 10	MIKADO GLENNIE RD	PINE RIVER		2- North	Y	N	05/27/2021	N	8	6	6	N	6
<input type="checkbox"/> 11	MIKADO	VAN ETTEN		2- North	Y	N	05/21/2021	N	8	7	7	N	7



# User Landing Page

**USER, PONTIS**

**My Account Information**

\* First Name: Pontis  
\* Last Name: User  
\* User ID: Pontis  
Agency: Mayvue  
Address 1:  
Address 2:  
City:  
State:  
ZIP:  
Phone:  
\* Email:

**Landing Page**

\* Tabs: Bridges \* Tasks: Structure Cor

**Landing Page**

\* Tabs: Bridges \* Tasks: Structure Cor

**My License Information**

License Number:  
Name:  
Expiration Date:

**Navigation Sidebar:**

- BRIDGES
- REPORTS
- TUNNELS
- ADMIN
- INSPECTION
- GATEWAY
- ANALYSIS
- PROJECTS
- PROGRAMS
- INSPECTION MANAGEMENT
- ANCILLARIES
- RETAINING WALLS
- NOISE WALL

**Dropdown Menu (Left):**

- Bridges
- Reports
- Tunnels
- Admin
- Inspection
- Gateway
- Analysis
- Projects
- Programs
- Inspection Management
- Ancillaries
- Retaining Walls
- Noise Wall

**Dropdown Menu (Right):**

- View List
- Manage Layouts
- Manage Filters
- New Inspection
- Suff Rate
- Validate
- Create Struct
- Copy Struct
- Remove Struct
- Mapping
- Inspection Assignment
- Structure Condition

**BRIDGE MANAGEMENT**

A blue-tinted photograph of a large bridge over a river. The bridge has multiple concrete piers and a metal truss structure. In the foreground, there are two large, smooth rocks on a sandy bank. The word "Questions?" is overlaid in white text in the center of the image.

Questions?

A blue-tinted photograph of a large bridge over a river. The bridge has multiple concrete piers and a metal truss structure. In the foreground, there are two large rocks on a sandy bank. The text "Thank you!" is overlaid in white, bold, sans-serif font in the center of the image.

**Thank you!**