

Bats, and Birds, and Bridges, and BrM

Rhode Island Department of Transportation Bridge Natural Resources Unit(NRU), acting under the federal migratory bird treaty act and adopting language from Indiana department of transportation's inspection manual and VDOT's guidelines for the northern long-eared bat. NRU decided that seeing that bridge inspector were out at bridges a lot more than they were that It would be easier for us to track their information in our system if there were any Bats or Migratory Bird at our bridge.



What to do first

- 1: Decide if it is a new Tab or if you are adding on to one
- 2: What type of information. Per Inspection or a static field
Inspections would go in USERINSP and static would go in USERBRDG tables
- 3: Number and type of fields that you need to add to the tables

RIDOT
Preliminary Bat Inventory Guidelines for Bridge Inspectors

RIDOT Natural Resources Unit

Adapted from the Indiana Department of Transportation 2010 Bridge Inspection Manual, the Bernardin, Lochmueller and Associates 2007 document, and YDOT's Guidelines

The northern long-eared bat was designated as a threatened species under the federal Endangered Species Act on May 4, 2015. This was primarily due to the threat posed by white-nose syndrome, a fungal disease that has devastated many bat populations in the U.S.

Many species of bats, including the northern long-eared bat, will roost on bridges during their active season. During the active season, the summer roosting period can be anywhere from **mid-April to mid-September**. Bats are unlikely to use bridges during their winter inactive hibernation period, which usually occurs between **mid-September and mid-April**. Caution should be used with these time frames, depending upon seasonal variations in climate.

Bats typically roost in any cave-like cavity on a bridge structure, often located at least 4 feet above the ground. They tend to prefer bridg below median joints. The underside of bridge deck joints should be inspected up close with a flashlight. Other potential roosting spots in hang from small cracks or surface irregularities on concrete structures, including box culverts, or from connections on steel bridges. **Bri** Aside from seeing bats directly, bridge inspectors should look for other evidence of bats, such as high-pitched squeaking or chirping cor caps or abutment bearing seals below deck joints. Bat droppings may also be present on the slopes below median joints. Another bat chu

RIDOT is required to consider bat species that are protected by the Endangered Species Act and avoid activities that would take or har preliminary indicators intended to determine if any bat species are using these. **Presence of any bat species, or indications of their pr that modify or remove roost potential on bridges or that would disturb roosting bats.**

Individuals inspecting bridges should employ appropriate safety measures in conducting these reviews and avoid touching any bats.

Example Characteristics

Appendix A: Common Bridge Nesters PROTECTED



Cliff Swallow Nests on Bridge



RIDOT
Preliminary Migratory Bird Inventory Guidelines for Bridge Inspectors

RIDOT Natural Resources Unit

Most birds are protected under the federal Migratory Bird Treaty Act (MBTA), which prohibits the take (including killing, capturing, selling, trading and transport) of protected migratory bird species. Some species of birds nest under highway bridges on walls or beams, typically near waterways or reservoirs. Active nests are most likely to be found during the nesting season, which can last from early spring through the fall season (April – September). We recommend caution when conducting activities during the active season. If conducting inspections during the active season, please do not move or handle nests if found.

most common protected bird to nest on bridges. In particular, inspectors should look for two types of swallow ws and barn swallows. **Cliff** swallow nests have a distinctive rounded top, as shown in **Appendix A**. Cliff ny nesting bird and there may be several to hundreds under one bridge. Cliff swallows commonly nest in large erside of bridges located over or near water. Cliff swallow nests are made from mud pellets and are shaped like a gated entrance tube. Barn swallows do not nest in colonies. Their nests are generally found alone and the shape is in **Appendix A**. Barn swallows nest almost exclusively on man-made structures (such as bridges). Barn swallow e an open-top cup, and are made from mud mixed with grass (typically with a grass or feather lining).

```
1 ALTER TABLE dbo.USERBROG ADD CON_PLANS CHAR(1) NULL, CAD CHAR(1) NULL, DES_CAL CHAR(1) NULL, SHOP_PL CHAR(1) NULL, JS CHAR(1) NULL, PL_NOTE VARCHAR(2000),
2 ALTER TABLE dbo.USERBROG ADD PHAS_CON CHAR(1) NULL, PHAS_1 datetime, PHAS_2 datetime, PHAS_3 datetime, DES_CUL VARCHAR(32), CON_CON VARCHAR(32)
3 ALTER TABLE dbo.USERBROG ADD PHAS_1con datetime, PHAS_2con datetime, PHAS_3con datetime, PH_NOTE VARCHAR(2000) NULL;
4 ALTER TABLE dbo.USERBROG ADD DES_BI_BUL CHAR(1) NULL;
5 ALTER TABLE dbo.USERBROG ADD OSOW_LN_REST CHAR(1) NULL, OSOW_LN_LG_TEM CHAR(1) NULL, OSOW_TRA_CON_DEV VARCHAR(32), OSOW_MIN_WID numeric(5, 2), OSOW_REST
6 ALTER TABLE dbo.USERBROG ADD OSOW_NOTE VARCHAR(2000) NULL;
```

Object Explorer

Connect + [Icons]

- dbo.T_Group_Assigment
- dbo.TMP_WITEMS
- dbo.Treatment
- dbo.UI_APP_OBJ_MAP
- dbo.UI_OBJ_ATTR_CLASSES
- dbo.UI_OBJ_ATTR_VALUES
- dbo.UI_OBJ_CLASSES
- dbo.USERACC
- dbo.USERBRDG
- dbo.USERINSP
 - Columns
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
- dbo.USERINSP_COPY
- dbo.USERROLES
- dbo.USERPREFS
- dbo.USERPREFSREG
- dbo.USERPROJ
- dbo.USERRWAY
- dbo.USERRWAYII

DOT-DB-SQL05.DOT...d - dbo.USERINSP | DOT-DB-SQL05.DOT...d - dbo.USERBRDG

```

SELECT TOP (200) BRKEY, INSPKEY, INSPVNT_GD, BRIDGE_GD, CREATEDATETIME, CREATEUSERKEY, MODTIME, USERKEY, FC_PON_APP_USERS_GD, BATS_OBS, BATS_SOUND, BATS_DROPPINGS, BATS_STAINING,
BATS_NOTES, BATS_NOT_PRES_THIS_INSP, BIRDS_NESTING, BIRDS_PROT_SPEC, BIRDS_CLIFF_SWALLOW, BIRDS_BARN_SWALLOW, BIRDS_OTHER, BIRD_NOTES, BIRDS_NOT_PRES_THIS_INSP
FROM
  USERINSP
  
```

	BRIDGE_GD	CREATEDATETI...	CREATEUSERKEY	MODTIME	USERKEY	FC_PON_APP_...	BATS_OBS	BATS_SOUND	BATS_DROPPI...	BATS_STAINING	BATS_NOTES	BATS_NOT_PR...	BIRDS_NESTING	BIR ^
▶	8E9514F8897B4...	NULL	NULL	NULL	NULL	NULL	0	0	0	0	NULL	0	0	0
	7A47801D4FD8...	NULL	NULL	NULL	NULL	NULL	0	0	0	0	NULL	0	0	0
	C95F5A5123FE4...	2019-10-21 07:0...	BD0F0C9777D1...	2019-10-28 09:1...	A7295720F37D4...	NULL	0	0	0	0	NULL	0	0	0
	F93364D9F5174...	NULL	NULL	NULL	NULL	NULL	0	0	0	0	NULL	0	0	0
	481E1171DE0A4...	NULL	NULL	NULL	NULL	NULL	0	0	0	0	NULL	0	0	0
	48C4CA805BE9...	2019-01-03 10:2...	1504E33194454...	2019-01-23 10:1...	A7295720F37D4...	NULL	0	0	0	0	NULL	0	0	0
	9BC446827A094...	2020-10-22 17:5...	FCA9A5B12895...	2020-11-02 12:1...	F764197F1F604...	NULL	0	0	0	0	NULL	0	0	0
	F9D366E4CF7A...	NULL	NULL	NULL	NULL	NULL	0	0	0	0	NULL	0	0	0
	5A08BEF87F7E4...	NULL	NULL	NULL	NULL	NULL	0	0	0	0	NULL	0	0	0
	B54849847AEB4...	2017-07-07 18:0...	F065C30715794...	2017-08-04 09:5...	F1EBE285EB074...	NULL	0	0	0	0	NULL	0	0	0
	DD9F87112A81...	2019-12-20 09:0...	5ADB6F0CC07B...	2020-02-24 14:1...	BA2980CE7842...	NULL	0	0	0	0	NULL	0	0	0
	D6F94D9C4DC7...	NULL	NULL	NULL	NULL	NULL	0	0	0	0	NULL	0	0	0
	D728FBC30813...	NULL	NULL	NULL	NULL	NULL	0	0	0	0	NULL	0	0	0

Letting BrM know where the new data is going to be stored. Better known as the *DATA DICT*

Admin > General Config > Data Dict.

Select Table Name


- pon_valdn_set_values
- pon_valdn_type
- pont_work
- pontlog
- pri_fundsrc
- pri_prjfund
- pri_progfund
- pri_programs
- pri_witem
- progelem
- progfile
- projects
- rehabrule
- rehabsets
- roadway
- scenario
- scenalelem
- scenparam
- scoperule
- scopesets
- statedfs
- statmds
- structure_unit
- t_group_assignment
- tmp_witem
- ui_app_obj_map
- ui_obj_attr_classes
- ui_obj_attr_values
- ui_obj_classes
- useracc
- userbrdg
- userinsp**
- userroles
- userprefs
- userprefsreg
- userproj
- userway
- users
- userstrunt

Select Column Name

Select a Column Name: bats_droppings

Edit Details

Col Alias:	bats_droppings	V2 Convert:	-1
Data Type:	char	Width:	1
Decimal Places:	0	Allow Nulls:	Y
Unique Key:	N	Position:	75
NBI Code:	-1	Val Type:	-1
Val Attr1:	-1	Val Attr2:	-1
Sys. Field:	-	Sys. Default:	-1
Key Attr1:	N	Unique Field:	bats_droppings
Help ID:	-1	Pair Code:	-1 -1 :: -1 [1]
Conversion Rules:	-1	SNotes:	This is table USERNSP column BATS_DROPPINGS

Include on Custom Forms: 

Notes: This is table USERNSP column BATS_DROPPINGS

Add/Refresh Table

Add/Refresh userinsp

Make a Copy!

The screenshot shows the RI DOT Visual Form Editor interface. On the left is a navigation menu with categories like BRIDGES, INSPECTION, REPORTS, TUNNELS, ADMIN, SECURITY, GENERAL CONFIG, PARAMETERS, OPTIONS, EXPORT OPTIONS, DATA DICT., and CHECKED OUT. The main header reads 'Admin > General Config > Visual Form Editor'. The 'Task Selection' section includes a 'Tab Name' dropdown set to 'Inspection' and a 'Tasks' dropdown set to 'RIDOT Appraisal'. Below these are three buttons: 'New Tab', 'New Task', and 'Copy Task', with the 'Copy Task' button highlighted in yellow. A large green arrow points to this button. The 'Form Elements' section on the right lists various UI components like Group Box, Custom Control, Dropdown List, Save Button, Button, Header Box, Text Box, Checkbox, Save & Close Button, Delete Inspection Button, Footer Box, Text Box (Parameter), Text Label, Cancel Button, and Calendar. Below this is a 'Toolbox' with categories like Approach Guardrail, Pier Protection, Scour Critical, and Fracture Critical Details. The bottom section contains 'Clearances' and 'NBI Load Ratings' configuration options.

The Toolbox

Admin > General Config > Visual Form Editor

Task Selection
Select a Tab and Task to Begin.
Tab Name: Tasks:

Form Elements

<input type="text" value="Group Box"/>	<input type="text" value="Custom Control"/>	<input type="text" value="Dropdown List"/>	<input type="button" value="Save Button"/>	<input type="button" value="Button"/>
<input type="text" value="Header Box"/>	<input type="text" value="Text Box"/>	<input type="checkbox" value="Checkbox"/>	<input type="button" value="Save & Close Button"/>	<input type="button" value="Delete Inspection Button"/>
<input type="text" value="Footer Box"/>	<input type="text" value="Text Box (Parameter)"/>	<input type="text" value="Text Label"/>	<input type="button" value="Cancel Button"/>	<input type="text" value="Calendar"/>

1 2

▲ **Toolbox**

Form Elements

<input type="radio" value="Metric"/> Metric <input checked="" type="radio" value="English"/> English	<input type="text" value="Bridge Selector"/>	<input type="text" value="Structure Units Selector"/>	<input type="text" value="Multi Asset Status"/>
<input type="text" value="Notes Control"/>	<input type="text" value="Inspection Selector"/>	<input type="text" value="Inspection Schedule Table"/>	
<input type="text" value="Work Candidate Grid"/>	<input type="text" value="Roadway Selector"/>	<input type="text" value="Asset Selector"/>	<input type="text" value="Component Selector"/>

1 2



Where to put It

Admin > General Config > Visual Form Editor

Task Selection

Select a Tab and Task to Begin.

Tab Name: Tasks:

Form Elements

Group Box	Custom Control	Dropdown List	<input type="button" value="Save Button"/>	<input type="button" value="Button"/>
Header Box	Text Box	<input type="checkbox"/> Checkbox	<input type="button" value="Save & Close Button"/>	<input type="button" value="Delete Inspection Button"/>
Footer Box	Text Box (Parameter)	Text Label	<input type="button" value="Cancel Button"/>	<input type="text" value="Calendar"/>

Selected Group Properties

Name:
Group Type:
Desktop Url:
Label:
Hide Label:
Visible:
Read Only:
Span Across:
Order:
Horizontal Alignment:
Vertical Alignment:
Repeat Direction:
Repeat Count:
Height:
Width:
Cell Spacing:
Cell Padding:
Skin:

Toolbox

Agency Group

Inspection

Average Curb Reveal (North/East Side):

Average Curb Reveal (South/West Side):

Posted Weight Limit:

Posting Sign?

Proper Weight Posting Signs?:

Posting Signs Legible?:

Posting Sign Recommendation:

Min. Vert. Clearance Posted Values:

Adv. Min. Vert. Clearance Sign?:

Min. Vert. Clearance Signs Legible?:

Min. Vert. Clear. Sign Recommendation:

Old Rating and Postings:

State Maintained Road:

Funding Source:

RIDOT_Bridge_Posting_Top

RIDOT Load Ratings

Rating Priority

Date Assigned:

RIDOT Load Rating Notes

Load Rating Notes

Notes

RIDOT Bridge Posting



Adding a box

The screenshot displays the 'Visual Form Editor' interface within the 'Admin > General Config' section. The interface is divided into several key areas:

- Task Selection:** Located at the top left, it includes a dropdown menu and a 'Tab Name' field set to 'Inspection'. A green arrow points to the 'Task Selection' area.
- Form Elements:** A central panel containing various UI components such as 'Group Box', 'Custom Control', 'Dropdown List', 'Form Button', 'Form', 'Header Box', 'Text Box', 'Checkbox', 'Save & Close Button', 'Update Inspection Button', 'Footer Box', 'Text Box (Parameter)', 'Text Label', 'Cancel Button', and 'Calendar'. A green arrow points to this panel.
- Selected Group Properties:** A panel on the right side that allows for the configuration of the selected 'Group Box'. It includes fields for Name, Group Type, Desktop Link, Label, Hide Label, Visible (checked), Read Only, Span Across, Order, Horizontal Alignment, Vertical Alignment, Repeat Directions, Repeat Count, Height, Width, Cell Spacing, Cell Padding, and Skin. A green arrow points to this panel.
- Form Preview:** The bottom section shows a preview of the form being edited, with a 'Task Selection' dropdown and various input fields. A green arrow points to the preview area.

Adding a box

The screenshot displays the 'Visual Form Editor' interface within the 'Admin > General Config' section. The interface is divided into several panels:

- Task Selection:** Shows 'Tab Name: Inspection' and 'Tasks: RIDOT Appraisal' with buttons for 'New Tab', 'New Task', and 'Copy Task'.
- Form Elements:** A palette of controls including Group Box, Custom Control, Dropdown List, Save Button, Update, Header Box, Text Box, Checkbox, Save & Close Button, Update Inspection Button, Footer Box, Text Box (Parameter), Text Label, Cancel Button, and Calendar.
- Selected Group Properties:** A configuration panel for the selected 'Group Box' with fields for Name, Group Type, Desktop Link, Label, Hide Label, Visible (checked), Read Only, Span Across, Order, Horizontal Alignment, Vertical Alignment, Repeat Directions, Repeat Count, Height, Width, Cell Spacing, and Cell Padding. A red 'Create Group' button is at the bottom.
- Main Canvas:** The central workspace where form elements are placed. A green arrow points to the 'Form Elements' palette, and another points to the 'Create Group' button.
- Form Preview:** The bottom section shows a preview of the 'Inspection' form with various input fields and labels.

Adding the Checkbox

Form Elements

Group Box	Custom Control	Dropdown List	Save Button	Button
Header Box	Text Box	Checkbox	Save & Close Button	Delete Inspection Button
Footer Box	Text Box (Parameter)	Text Label	Cancel Button	Calendar

1 2 Add Element

Selected Control Properties

Properties

Name: Bat Observed
Label: Bat Observed
Hide Label:
Tooltip Label: Tooltip Text

Security

Table Name: userinsp
Column Name: bats_obs
Override Table Name: None
Override Column Name: None

Parameters

Order: 1
Default Value:
Postback Event ID:
Control GUI ID:

Show Label Colon:
Show NBI Code:
Visible:
Read Only:
Right Label:
Bold Label:
Bold Value:
Label Color: None
Value Color: None
Field Width: 40 px
Label Width: 100 %

Delete Control



Adding the Security

Form Elements

Group Box	Custom Control	Dropdown List	Save Button	Button
Header Box	Text Box	Checkbox	Save & Close Button	Delete Inspection Button
Footer Box	Text Box (Parameter)	Text Label	Cancel Button	Calendar

1 2 Add Element

Properties

Security

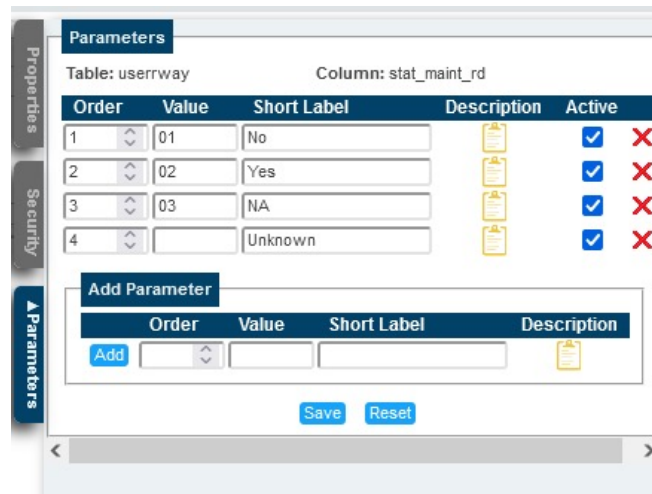
Tab Security

Role	Visible	Read Only
Admin	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ADMIN_A	<input checked="" type="checkbox"/>	<input type="checkbox"/>
AdminAnalysis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Advanced	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Analysis	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Ancillary-Consultant	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Basic	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Consultant	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Default	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Default RI	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
FINANCIAL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
HISTORIC	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Info_role	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Info_role - Copy	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Info_View	<input type="checkbox"/>	<input checked="" type="checkbox"/>
INSPECTION	<input checked="" type="checkbox"/>	<input type="checkbox"/>
LOAD_RATINGS	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PM I	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PM II	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PM III	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PM MANAGER	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Program Manager	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Viewer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Save



Other Boxes With Parameters



The screenshot displays a software interface with a sidebar on the left containing three tabs: 'Properties', 'Security', and 'Parameters'. The 'Parameters' tab is active, showing a table with the following data:

Order	Value	Short Label	Description	Active
1	01	No		<input checked="" type="checkbox"/> <input type="checkbox"/>
2	02	Yes		<input checked="" type="checkbox"/> <input type="checkbox"/>
3	03	NA		<input checked="" type="checkbox"/> <input type="checkbox"/>
4		Unknown		<input checked="" type="checkbox"/> <input type="checkbox"/>

Below the table is an 'Add Parameter' section with a form containing the following fields:

Order	Value	Short Label	Description
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Buttons for 'Add', 'Save', and 'Reset' are visible at the bottom of the form.

Bats and Birds

Bats and Birds

- | | | |
|--|--|--|
| Bats Not Observed This Insp. <input type="checkbox"/> | Bats Observed <input type="checkbox"/> | Bat Sounds <input type="checkbox"/> |
| Bat Staining: <input type="checkbox"/> | Birds Not Observed This Insp. <input type="checkbox"/> | Bat Droppings <input type="checkbox"/> |
| <div style="border: 1px dashed gray; padding: 2px; display: inline-block;">🔍</div> | Birds Protected Species <input type="checkbox"/> | Birds Nesting <input type="checkbox"/> |
| Birds Cliff Swallow <input type="checkbox"/> | Birds Cliff Swallow: <input type="checkbox"/> | Birds Other <input type="checkbox"/> |

Bats and Birds

Bats and Birds		
Bats Not Observed This Insp. <input type="checkbox"/>	Bats Observed <input type="checkbox"/>	Bat Sounds <input type="checkbox"/>
Bat Staining: <input type="checkbox"/>	Birds Not Observed This Insp. <input type="checkbox"/>	Bat Droppings <input type="checkbox"/>
<input type="checkbox"/>	Birds Protected Species <input type="checkbox"/>	Birds Nesting <input type="checkbox"/>
Birds Cliff Swallow <input type="checkbox"/>	Birds Cliff Swallow: <input type="checkbox"/>	Birds Other <input type="checkbox"/>

Bird and Bats Notes	
Bird Notes:	<input type="text"/>
Bat Notes:	<input type="text"/>

Bats and Birds

NAZARETH, CRAIG

Bridge: 000101 Facility Carried (007): US 1 ELMWOOD AV Inspection: 2020-09-03 (LNLN) Type: Regular NBI Metric: English

- CROSS SECTIONS
- REPORTS
- TUNNELS
- ADMIN
- GATEWAY
- ANALYSIS
- PROJECTS
- PROGRAMS
- RHODEWORKS
- HISTORIC
- RIDOT PROJECT STATUS
- ANCILLARY ASSETS

Inspection > RIDOT Appraisal

Navigation Data

Navigation Control Exists (038): Permit Not Required

Navigation Vertical Clearances (039): ft

Navigation Horizontal Clearances (040): ft

Minimum Vertical Lift Clearances (116): ft

Inspection

Average Curb Reveal (North/East Side): in

Average Curb Reveal (South/West Side): in

Posted Weight Limit: ton

Posting Sign?

Proper Weight Posting Signs?:

Posting Signs Legible?:

Posting Sign Recommendation:

Min. Vert. Clearance Posted Values:

Adv. Min. Vert. Clearance Sign?:

Min. Vert. Clearance Signs Legible?:

Min. Vert. Clear. Sign Recommendation:

Old Rating and Postings:

State Maintained Road:

Funding Source:

Integral beam-end Abutment:

Deck over Backwall:

Bats and Birds

Bats Not Observed This Insp.: Bats Observed: Bat Sounds:

Bat Staining: Birds Not Observed This Insp.: Birds Protected Species:

Birds Nesting: Birds Cliff Swallow: Birds Cliff Swallow:

Birds Other:

Inventory Rating (066): ton

IR Factor (066): rf

Alternate Operating Rating Type:

Alternate Operating Rating: ton

Alternate Inventory Rating Type:

Alternate Inventory Rating: ton

RIDOT Bridge Posting Top

RIDOT Load Ratings

Rating Priority:

Date Assigned:

Date Completed:

Date Entered:

Rating Hours:

Fatigue Serviceability Index:

Fatigue Detail ID:

Date Submitted:

Rating Cost:

Estimated Completion Date:

Fatigue Serviceability date:

RIDOT Load Rating Notes

Notes:

Bird and Bats Notes

Bird Notes:

Bat Notes:

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 BIRL Version 0.0.0.8fate56791 RIDOTAssets6.4.1 [Build Date: Monday April 5, 2021]
<https://aashtoware.org> | [AASHTO Publications](#)

Status: New Review Needed Approved By: Cancel



Questions?

