



ANCILLARY ASSETS

ANCILLARY ASSETS

Rhode Island Department of Transportation set out to develop an ancillary structures inspection program. We hired an outside inspection team to establish the numbering system, the types, and frequency of the inspections. But we required a place to store this information any logical bridge inspection styled format. With the capabilities already found within the bridge management software and with the help of the AASHTOWare contractor MayVue, we developed a place to store these inspections. The information in the following slides is what Rhode Island DOT and MayVue have designed for the storage of our sign in ancillary structure inspections.

Pick List

 NAZARETH, CRAIG

Signs > Ancillary List



- ANCILLARY ASSETS ^
- ANCILLARY LIST
- ANCILLARY INVENTORY
- ANCILLARY INSPECTION ELEMENTS
- TUNNELS v
- REPORTS v
- INSPECTION v
- BRIDGES v
- GATEWAY v
- ANALYSIS v
- PROJECTS v













Sign List



Filter:

Layout:

[Create](#)

<input type="checkbox"/>	Actions	Sign ID	District	County	Bridge ID	Y
<input type="checkbox"/>	  	0145		007	076001	
<input type="checkbox"/>	  	1234	02	007		6/1/2010 1
<input type="checkbox"/>	  	12345			000101	
<input type="checkbox"/>	  	test			075001	

Total Records: 4

Selected Records: 0

Sign List



Filter:

Layout:

[Create](#)

<input type="checkbox"/>	Actions	Sign ID	District	County	
<input type="checkbox"/>		0145		007	076001
<input type="checkbox"/>		1234	02	007	
<input checked="" type="checkbox"/>		12345			000101
<input type="checkbox"/>		test			075001

Total Records: 4

Selected Records: 1

Inventory Page



Ancillaries > Ancillary Inventory

ANCILLARY ASSETS ^

ANCILLARY LIST

ANCILLARY INVENTORY

ANCILLARY INSPECTION
ELEMENTS

BRIDGES v

INSPECTION v

REPORTS v

TUNNELS v

ADMIN v

GATEWAY v

ANALYSIS v

PROJECTS v

PROGRAMS v

Identification

Structure ID: Inspection Group:
Dist. Structure ID: Inspection Group Year:
Year Built:

General Info

Location

District: v
County: v
Location: v
City: v
Loc. Notes:

Route/Mile Point

Route

Route: Route Direction: v Highway Type (Route Prefix): v

Mile Point

Prefix: v MP: Suffix: v

Bridge

Bridge #:

ADT

ADT:
ADT Classification:
ADT Year:
Truck Percentage:
Speed (MPH):

Coordinates

Latitude:
Longitude:



Inventory Page

Structural Information

Structure Type: Other

Ancillary Type: Other

Posts

Type: None

Material: Other

Coating: None

Arm

Type: None

Material: Other

Coating: None

Other

Traffic Safety Protection: 2 (FIX PARAM VALUES) Attenuator:

Total # of Auxiliary Lights on Structure:

Auxiliary Signs Attached to Post:

Auxiliary Signs Notes:

Lanes Over Traffic:

Geometry

Min. VC NB/EB:

Min. VC SB/WB:

Span/Arm 1 Length:

Span/Arm 2 Length:

Foundation

Foundation Type: N/A

Bridge #:

Thru-bolted at Parapet:

Other Attachments

Damper:

Elec. Cables:

Flashing Lights:

Antennas:

Street Lights:

Other Attachments:

Pedestrian Signals:

Traffic Signals:

Cameras:

Elec. Meters:

Util. Boxes:

Sensors:

Other Att. Notes:



Inventory Page

Other Attachments			
Damper:	<input type="text" value="0"/>	Traffic Signals:	<input type="text" value="0"/>
Elec. Cables:	<input type="text" value="0"/>	Cameras:	<input type="text" value="0"/>
Flashing Lights:	<input type="text" value="0"/>	Elec. Meters:	<input type="text" value="0"/>
Antennas:	<input type="text" value="0"/>	Util. Boxes:	<input type="text" value="0"/>
Street Lights:	<input type="text" value="0"/>	Sensors:	<input type="text" value="0"/>
Other Attachments:	<input type="text" value="0"/>	Other Att. Notes:	<input type="text"/>
Pedestrian Signals:	<input type="text" value="0"/>		

Inventory Page

Sign Panels

[Add Panel](#)

Panel Num.	Location	Text	Direction	Panel Type	Width	Height	Depth	Light	Vert. Clear.	Dir. Under.	Lane 1	Lane 2	Lane 3	
1	Left	95N	NO	Aluminum Extruded	10	5	0	N	14.600	N	LS	LS	LS	 

Add New Panel

Panel Num:

Location:

Text:

Direction:

Type:

Width:

Height:

Depth:

Light:

Vert. Clear.:

Dir. Under:

Lane 1:

Lane 2:

Lane 3:

Inspection Page

Ancillary Inspection

Inspection

Inspection Date Enter: 8/26/2020
 Inspection Type: - (MX IV)
 Inspection Method: N/A
 Inspection Cycle: 2 Years

Inspectors

Inspector 1: _____
 Inspector 2: _____
 Future drop down for Team Leader
 Future drop down of Registered Engineer
 Inspector Team: _____

Inspection Tracking

Inspection Group: _____

Access Information

Bucket Truck: # of days: _____
 Lift Truck: # of days: _____
 Manlift: # of days: _____
 UDLU: # of days: _____
 Daytime Lane Closure: # of closures: _____
 Nighttime Lane Closure: # of closures: _____
 Other:

Condition

Condition Rating: N/A

Maintenance and Repair

Critical Deficiency:
 Severe/Major Deficiency:
 Routine Maintenance:

Commentary

Scope: Visually inspect the condition of the support components. This may require the use of binoculars or other visual aids. If applicable, the inspection shall include the horizontal to vertical support connection for cantilevers. The horizontal to vertical connection shall be inspected for proper fit and alignment. The inspection shall include the horizontal to vertical connection for cantilevers. The horizontal to vertical connection shall be inspected for proper fit and alignment. The inspection shall include the horizontal to vertical connection for cantilevers. The horizontal to vertical connection shall be inspected for proper fit and alignment.

Inspector Comments: Lightening either of the anchor bolt nuts (adding to top) can be done using an appropriately sized open wrench, square wrench or socket wrench. A three-toe long pipe can be added to the wrench to

Old Notes: _____

Sign Elements

View Item Inspection Details Arrow Key Grid Navigation Help

Element: Struct. Unit: Clear Filters Quantity 0 View [Add Element](#)

Item	Group	Type	Site	Element Description	Lat.	Lon.	Vol.	Units	Qty1	Qty2	Qty3	Qty4
1	Foundation	Foundation	1	Foundation	41.852	71.400	2	EA	4,000	0	0	0
Show Condition Status												
Notes: - Add!												
2	Structure	Federal	1	Anchor Bolts	0	0	0	EA	1,000	0	0	0
4	Structure	Federal	1	Post/Column	0	0	1	EA	1,000	0	0	0
5	Structure	Federal	1	Column to Arm/Chord	0	0	2	EA	2,000	0	0	0
6	Structure	Federal	1	Arm/Chord	0	0	2	EA	2,000	0	0	0
10	Structure	Federal	1	Sign Panels	0	0	80	SF	80,000	0	0	0
11	Structure	Federal	1	Cableway	0	0	1	LF	1,000	0	0	0

Multimedia

Root Dir - 54 (MULTISERVICIS) -> Medical
 Root Dir - 54 (MULTISERVICIS) -> Medical

Name	Type	Agency Type	Report Sort	Location	Agency Item 1	Agency Item 2	Agency Item 3
img10	JPG	Inspection	0	(MULTISERVICIS)			

Notes

Document Information

File: img10.JPG
 Location: MULTISERVICIS/ANCILLARY_ASSE/15000101 to 959
 Created: 8/21/2020 1:15:04 PM Size: 142304 bytes
 Accessed: 8/21/2020 1:15:04 PM Status: Available
 Modified: _____

Link and Upload Documents

Copy File to Server
 Add File Description Path: ANCILLARY_ASSE/15000101 to 105901000101063

[Select Multiple](#)

Work

Type of Work

Action Type: All Actions
 Action: Torqued loose ct
 Inspection: 08/26/2020
 Date Recommended: 08/26/2020
 Priority: Medium
 Date Completed: _____
 Target Year: 2020
 Assigned: No
 Work Assignment: Agency
 Status: Approved
 Source: Inspector Recommendation

Work Estimates

Estimated Quantity: _____
 Cost Per Unit (\$): _____
 Estimated Cost (\$): _____ [Calculate](#)

Notes

Candidate Label: _____

[Save](#) [Save & Close](#) [Cancel](#) [Print](#)

Inspection



Ancillaries > Ancillary Inspection

ANCILLARY ASSETS ^

ANCILLARY LIST

ANCILLARY INVENTORY

ANCILLARY INSPECTION

ELEMENTS

BRIDGES v

INSPECTION v

REPORTS v

TUNNELS v

Inspection

Insp. Details

Inspection Date Enter:

Inspection Type:

Inspection Method:

Inspection Cycle:

Inspectors

Inspector 1:

Inspector 2:

Future drop down for Team Leader
Future drop down of Registered Engineer

Inspection Team:

Inspection Tracking

Inspection Group:

Access Information

Bucket Truck:	<input type="checkbox"/>	# of days:	<input type="text"/>
Lift Truck:	<input type="checkbox"/>	# of days:	<input type="text"/>
Manlift:	<input type="checkbox"/>	# of days:	<input type="text"/>
UBIU:	<input type="checkbox"/>	# of days:	<input type="text"/>
Daytime Lane Closure:	<input type="checkbox"/>	# of closures:	<input type="text"/>
Nighttime Lane Closure:	<input type="checkbox"/>	# of closures:	<input type="text"/>
Other:	<input type="checkbox"/>		<input type="text"/>

Condition

Condition Rating:

Maintenance and Repair

Critical Deficiency:

Severe/Major Deficiency:

Routine Maintenance:

Inspection

Inspection: 8/19/2020



Inspection:

- 8/19/2020
- 7/21/2020
- 8/6/2018



Add New Sign Inspection

New Sign Inspection

Inspection ID:

Parent Sign: 12345

Inspection Commentary

Commentary

Scope:

Visually inspect the condition of the support components. This may require the use of binoculars or other visual aids. If applicable, the inspection shall include the horizontal to vertical support connection for cantilevers, the horizontal to vertical connection (including gusset plates and related hardware) for trichord and box truss bridges, and a walk-through inspection of the truss box for sign truss bridges. Note any unusual gaps

Inspector Comments:

Tightening either of the anchor bolt nuts (leveling or top) can be done using an appropriately sized spud wrench, spanner wrench or socket wrench. A three-foot long pipe can be added to the wrench to increase leverage. The nut is tightened until no further movement take place. Any broken rods should be easily identified as both the nut and the bolt will continue to twist with little applied torque.

Inspection:

Determine the bolt pattern for the anchor base using the examples on the back of the inspection forms (to be furnished by RIDOT). Using a permanent marker, mark the corresponding bolt numbers on the vertical support for future reference. Measure and record the anchor bolt diameter and the number of threads in inches. Look for missing or damaged anchor bolts or nuts (gouges, corrosion). Also, note any bolts that have been bent to align with holes in the base plate. Note any bolts that are lower than the top of the nut. If the bolt is lower, measure the depth and mark it on the inspection form in the box corresponding to the bolt number. Visually inspect any welds in the base (gussets, vertical support to base connection) looking for cracks or unusual welds.

Old Notes:

Sign Elements

Inspection Elements

Sign Elements

Hide Elem Inspection Details Arrow Key Grid Navigation Help

Element: Struct. Unit.: [Clear Filters](#) Quantity Percent [Add Element](#)


Elem. ▲	Group	Type	Str. Unit.	Element Description	Lat.	Lon.	Tot. Qty.	Units	Qty1	Qty2	Qty3	Qty4			
1	Foundation	Federal	1	Foundation	41.69306	71.47641	2	(EA)	2.000	0	0	0			
Show Condition States															
Notes: ...[edit]															
2			1	Anchor Bolts	0	0	8	(EA)	1.000	7	0	0			
4	Structure	Federal	1	Post/Tower	0	0	1	(EA)	1.000	0	0	0			
5			1	Column to Arm/Chord Connection	0	0	2	(EA)	2.000	0	0	0			
6			1	Arm/Chord Member	0	0	2	(EA)	2.000	0	0	0			
10			1	Sign Panels	0	0	60	(SF)	60.000	0	0	0			
11			1	Catwalk	0	0	1	(LF)	1.000	0	0	0			

Inspection Multimedia

Multimedia
Context: SIGN INSPECT ▾ Root Dir - 5.x[MULTISERVER5]: ~\media\
Root Dir - 4.x[MULTISERVER]: ~\media\

Name	Type	Agency Type	Report Flag	Sort Order	Location	Agency Item 1	Agency Item 2	Agency Item 3	Agency Item 4	
exit10	JPG	Inspection Photo ▾	<input type="checkbox"/>		[MULTISERVER5]ANCILLARY					X

Notes

Document Information


File: exit10.JPG
Location: [MULTISERVER5]ANCILLARY_ASSETS\000101 to 009901\000101\08.26.2020\
Created: 8/31/2020 1:15:54 PM Size: 140304 bytes
Accessed: 8/31/2020 1:15:54 PM Status: Available
Modified:

[Unlink](#)

Link and Upload Documents

Copy File to Server:

Add File Destination Path:

[Select Multiple Files](#)

Inspection Work Candidate

Work

Type of Work

Action Type:

Action:

Inspection:

Date Recommended:

Priority:

Date Completed:

Target Year:

Assigned:

Work Assignment:

Status:

Source:

Notes:

Candidate Label:

Work Estimates

Estimated Quantity:

Cost Per Unit (\$):

Estimated Cost (\$):

Elements

Elements

Element Filter

Not Filtered

ID	Short Name
<input checked="" type="checkbox"/>	1 Foundation
<input checked="" type="checkbox"/>	2 Anchor Bolts
<input checked="" type="checkbox"/>	3 Base Plate
<input checked="" type="checkbox"/>	4 Column Support
<input checked="" type="checkbox"/>	4 Post/Tower
<input checked="" type="checkbox"/>	5 Column to Arm/Chord Connection
<input checked="" type="checkbox"/>	6 Arm/Chord Member
<input checked="" type="checkbox"/>	7 Chord Splice Connection
<input checked="" type="checkbox"/>	8 Span Truss Members
<input checked="" type="checkbox"/>	8 Cracks
<input checked="" type="checkbox"/>	9 Sign Frame
<input checked="" type="checkbox"/>	10 Sign Panels
<input checked="" type="checkbox"/>	11 Catwalk
<input checked="" type="checkbox"/>	12 Luminaire
<input checked="" type="checkbox"/>	13 Sign Attachment
<input checked="" type="checkbox"/>	14 Slip Joint
<input checked="" type="checkbox"/>	14 VMS Panel
<input checked="" type="checkbox"/>	15 Weld Crack
<input checked="" type="checkbox"/>	16 Concrete
<input checked="" type="checkbox"/>	16 VC, Camber and Alignment
<input checked="" type="checkbox"/>	17 Grout Pad
<input checked="" type="checkbox"/>	17 Protection
<input checked="" type="checkbox"/>	18 Settlement

Create Element

Copy Element

Element Specifications

Element Key:

FHWA

Short Name:

Long Name:


Group:

Type:

Protective System

Defect

Units:

Notes: 

Defect Child-Parent Linking

- Weld Crack
- Concrete
- Rust
- Collision Damage
- Cracking
- Spalling

Protective System Child-Parent Linking

- Welds
- Coating
- Steel Protective Coating
- Conc Prot Sys

Questions?

