



What's in BrM 6.4



User Group Meeting September 2, 2020



Marble Canyon | AZDOT

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MULTIMEDIA

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MULTIMEDIA



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Enhanced Multimedia Grid View - Directory Structure

- Bridge
 - Work Candidates
 - Load Ratings
- Inspections



MULTIMEDIA

MULTIMEDIA

Enhanced Multimedia Grid View (List view)



USER, PONTIS

Inspection > Multimedia

Asset Information

Bridge: 4-6-7 Steel 3span Name: **3 Span Steel Poor Condition** Facility Carried (007): 1-15 (SR-15) SBL Inspection: 2015-02-12 (SEQ) [v]

Multimedia Directory

Home / Bridge (4-6-7 Steel 3span) [Upload]

Work Candidates Load Ratings

File Types: All Search

Add Tag

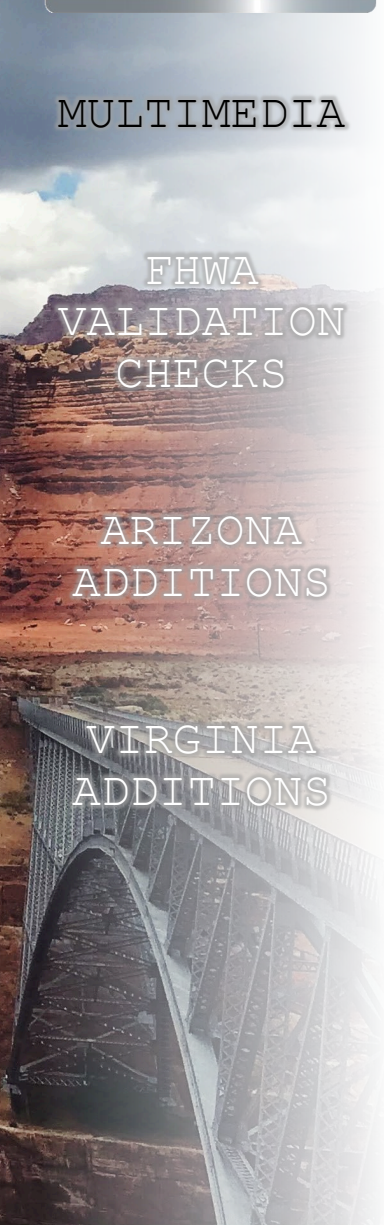
| Name | File Size (MB) | Agency Type | Notes | Created Date | |
|---|----------------|-----------------|--|--------------|------------------------------------|
| carl-solder-Lau_i-esJYg-unsplash.jpg | 6 | Plans | This is the notes field. You can input your important details here. There's a lot of room in this field so you can add as much as necessary. | 8/31/2020 | [edit] [share] [download] [delete] |
| chris-brignola-n7n-nkadHRM-unsplash.jpg | 1 | Plans | This is the notes field. You can input your important details here. There's a lot of room in this field so you can add as much as necessary. | 8/31/2020 | [edit] [share] [download] [delete] |
| daniel-tonks-itTHOJ5aUk4-unsplash.jpg | 1 | Plans | This is the notes field. You can input your important details here. There's a lot of room in this field so you can add as much as necessary. | 8/31/2020 | [edit] [share] [download] [delete] |
| eric-carlson-xVvj8yvkWvo-unsplash.jpg | 3 | Plans | This is the notes field. You can input your important details here. There's a lot of room in this field so you can add as much as necessary. | 8/31/2020 | [edit] [share] [download] [delete] |
| fran-04HA8ca1XAc-unsplash.jpg | 1 | Plans | This is the notes field. You can input your important details here. There's a lot of room in this field so you can add as much as necessary. | 8/31/2020 | [edit] [share] [download] [delete] |
| golden-gate-bridge-drive-NCBGJZ2.mov | 211 | Design Document | | 8/31/2020 | [edit] [share] [download] [delete] |



MULTIMEDIA

MULTIMEDIA

Enhanced Multimedia Grid View (Thumbnail view)



USER, PONTIS

Inspection > Multimedia

Asset Information

Bridge: 4-6-7 Steel 3span Name: 3 Span Steel Poor Condition Facility Carried (007): I-15 (SR-15) SBL Inspection: 2015-02-12 (SEQ) [v]

Multimedia Directory

Home / Bridge (4-6-7 Steel 3span) [Upload]

Work Candidates

Load Ratings

File Types All [Search]

Add Tag

| | | | |
|--|---|---|---|
| | | | |
| carl-solder-Lau_i-esJYg-unsplash.jpg File Size (MB): 6 Date Created: 8/31/2020 | chris-brignola-n7n-nkadHRM-unsplash.jpg File Size (MB): 1 Date Created: 8/31/2020 | daniel-tonks-itTHOJ5aUk4-unsplash.jpg File Size (MB): 1 Date Created: 8/31/2020 | eric-carlson-xVvj8yvkWvo-unsplash.jpg File Size (MB): 3 Date Created: 8/31/2020 |
| | | | |
| | golden-gate-bridge- | golden-gate-bridge- | hugh-han- |



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Ability to upload 1/many multimedia files at once

Upload Files



| | |
|---------------------|--------------------------------------|
| Context: | INSPECTION |
| Folder: | Inspection (2015-02-12 (SEQL)) |
| Report Flag: | <input type="checkbox"/> |
| Agency Type: | <input type="text"/> |
| Notes: | <input type="text"/> |
| Tags: | <input type="text" value="Add Tag"/> |

MULTIMEDIA

Ability to upload 1/many multimedia files at once

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USER, PONTIS

Inspection > Multimedia

Asset Information

Bridge: 4-6-7 Steel 3spa

Multimedia Directory

Home / Bridge (4-6-7)

- Work Candidates
- Load Ratings

Upload Files

Files Add More

| | | | | |
|--|-----------------------------------|-----|------|--|
| | casey-horner-tf0JFfbg03U-unsplash | JPG | 1 MB | |
| | zac-sturgeon-sDzof1Ps89s-unsplash | JPG | 1 MB | |
| | jacob-morch-Qwg4Bwg4gPk-unsplash | JPG | 1 MB | |
| | dilip-kumar-m4hmQwbHQXA-unsplash | JPG | 3 MB | |

Context: BRIDGE

Save Cancel

Inspection: 2015-02-12 (SEQ) Upload Search

eric-carlson-xVvj8yvkWvo-unsplash.jpg

File Size (MB): 3
Date Created: 8/31/2020

golden-gate-bridge- golden-gate-bridge- hugh-han-

MULTIMEDIA

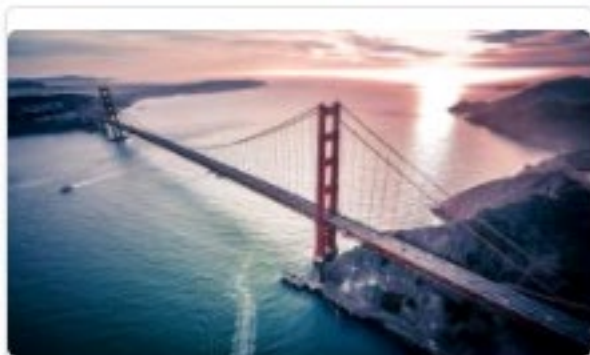
MULTIMEDIA

Ability to view multimedia files full screen

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carl-solder-Lau_i-
esJYg-unsplash.jpg

File Size (MB): 6

Date Created: 8/31/2020



Open In New Tab



MULTIMEDIA

MULTIMEDIA

Ability to link files together

Edit Multimedia

File

Context:

INSPECTION

Folder:

Inspection (2015-02-12 (SEQL))

Report Flag:

Agency Type:

Inspection Photo

Notes:

This is a note.

Tags:

INSPECTION Add Tag

Linked Files:

Link Files

Link Files

File Linking



File Types All

Search



| Name | File Size (MB) | Agency Type | Notes | Created Date |
|--|----------------|------------------|-----------------|--------------|
| <input type="radio"/> 2013-02-27-3.jpg | 4 | | | 8/31/2020 |
| <input type="radio"/> 2013-02-27-2.jpg | 3 | | | 8/31/2020 |
| <input type="radio"/> 2013-02-27-1.jpg | < 1 | | | 8/31/2020 |
| <input type="radio"/> 2013-04-16-1.jpg | 1 | Inspection Photo | | 8/31/2020 |
| <input type="radio"/> 2013-04-16-2.jpg | 1 | Inspection Photo | | 8/31/2020 |
| <input type="radio"/> 2015-02-12-2.jpg | 3 | Inspection Photo | This is a note. | 8/31/2020 |

Save Cancel Delete

Link Cancel

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Multimedia Widget

Similar interface to the Inspection > Multimedia screen, but it is context aware. Meaning that based on the permissions set on the Admin > Security > Multimedia page, the widget will display multimedia related to that context on that page

Multimedia widget is configured to display via the VFE



MULTIMEDIA

MULTIMEDIA

Multimedia Security
Admin > Security > Multimedia

USER, PONTIS

Admin > Security > Multimedia

Role: Admin

Select Permission Apply To All Folders

| Folders | | | |
|-----------------|--|---------------------------------|--|
| Bridge | <input checked="" type="radio"/> Full Access | <input type="radio"/> Read Only | <input type="radio"/> No Access |
| Load Ratings | <input checked="" type="radio"/> Full Access | <input type="radio"/> Read Only | <input type="radio"/> No Access |
| Test-2 | <input type="radio"/> Full Access | <input type="radio"/> Read Only | <input checked="" type="radio"/> No Access |
| Work Candidates | <input checked="" type="radio"/> Full Access | <input type="radio"/> Read Only | <input type="radio"/> No Access |
| Inspection | <input checked="" type="radio"/> Full Access | <input type="radio"/> Read Only | <input type="radio"/> No Access |

- BRIDGES
- TUNNELS
- REPORTS
- ADMIN
- SECURITY
- USERS
- GROUPS
- ROLES
- PERMISSIONS
- DATABASES
- REPORTS
- PASSWORD RULES
- ACTIVE DIRECTORY GROUPS
- MULTIMEDIA

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

Admin > General Config > Multimedia

General Settings

Storage Type: Network Storage Max Image Dimension: 600 Pixels (px)

Maximum File Size: 250 Megabytes (MB)

Root Directory: \\DEV\BrMMultimedia64\Files

MULTISERVER:

Note: This setting is only needed for existing legacy multimedia data.

MULTISERVERS: \\DEV\BrMMultimedia64\Legacy

Note: This setting is only needed for existing legacy multimedia data.

Context Subfolders

Search

| Name | Context | Standard | |
|-----------------|---------|----------|--|
| Work Candidates | Bridge | T | |
| Test-2 | Bridge | F | |
| Load Ratings | Bridge | T | |



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FHWA VALIDATION CHECKS



For each bridge, if a Deck element is submitted (EN 12, 13, 15, 16, 28, 29, 30, 31, or 60), then a Superstructure (EN in 100 series) element should generally also be submitted.

USER, PONTIS

Bridge 155101

Facility Carried (007): I-95 NB & SB

Inspection: 2018-06-25 (OWNY) Type: Regular NBI

Metric English



Inspection > Condition

Condition Ratings

Deck (058): 7 Good
 Superstructure (059): 7 Good
 Substructure (060): 7 Good

Channel (061): N N/A (NBI)
 Culvert (062): N N/A (NBI)
 Waterway (071): N Not applicable
 Unrepaired Spalls: (SF)

Validate
 Calculate SR

NBI Converter Profile: BrM Default
 Calculate NBI

Element Conditions

Hide Elem Inspection Details

Arrow Key Grid Navigation Help

Element: Elem # or Elem Desc Struct. Unit.: All Env.: All Clear Filters

Quantity Percent

Add Element

| Elem. | Str. Unit. | Env. | Element Description | Tot. Qty. | Units | Qty1 | Qty2 | Qty3 | Qty4 | | | |
|-------|------------|----------|-----------------------|-----------|-------|-----------|------|------|------|--|--|--|
| 12 | 1 | Mod. (3) | Re Concrete Deck | 9017 | sq.ft | 9,017.000 | 0 | 0 | 0 | | | |
| 301 | 1 | Mod. (3) | Pourable Joint Seal | 298 | ft | 290.000 | 8 | 0 | 0 | | | |
| 310 | 1 | Mod. (3) | Elastomeric Bearing | 92 | each | 92.000 | 0 | 0 | 0 | | | |
| 321 | 1 | Mod. (3) | Re Conc Approach Slab | 4172 | sq.ft | 4,172.000 | 0 | 0 | 0 | | | |
| 8218 | 1 | Mod. (3) | Backwall, All Types | 323 | (LF) | 323.000 | 0 | 0 | 0 | | | |
| 8247 | 1 | Mod. (3) | Return Wall Other | 287 | (LF) | 287.000 | 0 | 0 | 0 | | | |
| 8335 | 1 | Mod. (3) | Guardrail, Vehicular | 400 | (LF) | 382.000 | 0 | 0 | 18 | | | |
| 8336 | 1 | Mod. (3) | Conc Bridge Parapet | 349 | (LF) | 315.000 | 34 | 0 | 0 | | | |
| 8371 | 1 | Mod. (3) | Conc Diaphragms | 40 | each | 39.000 | 1 | 0 | 0 | | | |

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- INVENTORY
- SCHEDULE
- RIDOT SCHEDULE
- WORK
- MULTIMEDIA
- ASSESSMENTS
- LOAD RATINGS
- ELEMENT CONDITION RATINGS
- CROSS SECTIONS
- REPORTS
- TUNNELS
- ADMIN



For each bridge, if a Deck element is submitted (EN 12, 13, 15, 16, 28, 29, 30, 31, or 60), then a Superstructure (EN in 100 series) element should generally also be submitted.

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- BRIDGES ^
- VIEW LIST v
- MANAGE LAYOUTS v
- MANAGE FILTERS v
- NEW INSPECTION
- SUFF RATE
- VALIDATE**
- CREATE STRUCT
- COPY STRUCT
- REMOVE STRUCT

Bridges > Validate

Validate

NBI Results NBE Results

| <input checked="" type="checkbox"/> | Bridge ID | District | County | Warning |
|-------------------------------------|-----------|----------|--------|---------|
| <input checked="" type="checkbox"/> | 155101 | 02 | 007 | 5 |



Warning (5)

| Structure | District | County | Element | Parent Element | State | Severity | Message |
|-----------------|----------|--------|---------|----------------|-------|----------|--|
| 000000000015510 | 02 | 007 | 12 | | 44 | W | Deck element exists on structure which has no 100 series elements. |
| 000000000015510 | 02 | 007 | 12 | | 44 | W | Deck/Slab/Superstructure element exists on structure which has no 200 series elements. |
| 000000000015510 | 02 | 007 | 301 | | 44 | W | Deck element exists on structure which has no 100 series elements. |
| 000000000015510 | 02 | 007 | 310 | | 44 | W | Deck element exists on structure which has no 100 series elements. |
| 000000000015510 | 02 | 007 | 521 | 333 | 44 | W | Element on structure is not allowed on parent. |

Cancel



For each bridge, if a Deck/Slab (EN less than 100) or Superstructure (EN in 100 series) element is submitted, then a Substructure (EN in 200 series) element should generally also be submitted.

USER, PONTIS

Bridge

Facility Carried (007): I-95 NB & SB

Inspection: Type: Regular NBI

Metric English



Inspection > Condition

Condition Ratings

Deck (058):

Superstructure (059):

Substructure (060):

Channel (061):

Culvert (062):

Waterway (071):

Unrepaired Spalls: (SF)

NBI Converter Profile:

Element Conditions

[Hide Elem Inspection Details](#)

[Arrow Key Grid Navigation Help](#)

Element: Struct. Unit.: Env.:

Quantity Percent

| Elem. ▲ | Str. Unit. ▲ | Env. | Element Description | Tot. Qty. | Units | Qty1 | Qty2 | Qty3 | Qty4 | | | |
|---------|--------------|----------|-----------------------|-----------------------------------|-------|-----------|---------------------------------|--------------------------------|---------------------------------|--|--|--|
| ▶ 12 | 1 | Mod. (3) | Re Concrete Deck | <input type="text" value="9017"/> | sq.ft | 9,017.000 | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | | | |
| ▶ 301 | 1 | Mod. (3) | Pourable Joint Seal | <input type="text" value="298"/> | ft | 290.000 | <input type="text" value="8"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | | | |
| ▶ 310 | 1 | Mod. (3) | Elastomeric Bearing | <input type="text" value="92"/> | each | 92.000 | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | | | |
| ▶ 321 | 1 | Mod. (3) | Re Conc Approach Slab | <input type="text" value="4172"/> | sq.ft | 4,172.000 | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | | | |
| ▶ 8218 | 1 | Mod. (3) | Backwall, All Types | <input type="text" value="323"/> | (LF) | 323.000 | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | | | |
| ▶ 8247 | 1 | Mod. (3) | Return Wall Other | <input type="text" value="287"/> | (LF) | 287.000 | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | | | |
| ▶ 8335 | 1 | Mod. (3) | Guardrail, Vehicular | <input type="text" value="400"/> | (LF) | 382.000 | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="18"/> | | | |
| ▶ 8336 | 1 | Mod. (3) | Conc Bridge Parapet | <input type="text" value="349"/> | (LF) | 315.000 | <input type="text" value="34"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | | | |
| ▶ 8371 | 1 | Mod. (3) | Conc Diaphragms | <input type="text" value="40"/> | each | 39.000 | <input type="text" value="1"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | | | |

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- ELEMENT CONDITION RATINGS
- CROSS SECTIONS
- REPORTS ▼
- TUNNELS ▼
- ADMIN ▼



For each bridge, if a Deck/Slab (EN less than 100) or Superstructure (EN in 100 series) element is submitted, then a Substructure (EN in 200 series) element should generally also be submitted.

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- BRIDGES ^
- VIEW LIST v
- MANAGE LAYOUTS v
- MANAGE FILTERS v
- NEW INSPECTION
- SUFF RATE
- VALIDATE
- CREATE STRUCT
- COPY STRUCT
- REMOVE STRUCT

Bridges > Validate

Validate

NBI Results NBE Results

| <input checked="" type="checkbox"/> | Bridge ID | District | County | Warning |
|-------------------------------------|-----------|----------|--------|---------|
| <input checked="" type="checkbox"/> | 155101 | 02 | 007 | 5 |



Warning (5)

| Structure | District | County | Element | Parent Element | State | Severity | Message |
|-----------------|----------|--------|---------|----------------|-------|----------|--|
| 000000000015510 | 02 | 007 | 12 | | 44 | W | Deck element exists on structure which has no 100 series elements. |
| 000000000015510 | 02 | 007 | 12 | | 44 | W | Deck/Slab/Superstructure element exists on structure which has no 200 series elements. |
| 000000000015510 | 02 | 007 | 301 | | 44 | W | Deck element exists on structure which has no 100 series elements. |
| 000000000015510 | 02 | 007 | 310 | | 44 | W | Deck element exists on structure which has no 100 series elements. |
| 000000000015510 | 02 | 007 | 521 | 333 | 44 | W | Element on structure is not allowed on parent. |

Cancel



For each bridge, if a Culvert element (EN 240, 241, 242, 243, 244, or 245) is submitted, then no Deck/Slab (EN less than 100), or Superstructure (EN in 100 series) elements should generally be submitted. Also, no Substructure elements (EN in the remainder of 200 series) should generally be submitted except for foundation

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BRIDGES

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RATINGS

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ADMIN

Bridge Facility Carried (007): **RI 33 PROVIDENCE ST** Inspection: Type: **Regular NBI** Metric English

Inspection > Condition

Condition Ratings

Deck (058):
 Superstructure (059):
 Substructure (060):

Channel (061):
 Culvert (062):
 Waterway (071):
 Unrepaired Spalls: (SF)

NBI Converter Profile:

Element Conditions

[Hide Elem Inspection Details](#)

[Arrow Key Grid Navigation Help](#)

Element: Struct. Unit.: Env.:

Quantity Percent

| Elem. | Str. Unit. | Env. | Element Description | Tot. Qty. | Units | Qty1 | Qty2 | Qty3 | Qty4 | | | |
|-------|------------|----------|----------------------|-----------------------------------|-------|-----------|----------------------------------|--------------------------------|--------------------------------|--|--|--|
| 38 | 0 | Mod. (3) | Re Concrete Slab | <input type="text" value="1000"/> | sq.ft | 1,000.000 | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | | | |
| 102 | 0 | Mod. (3) | Steel Clsd Box Gird | <input type="text" value="1000"/> | ft | 1,000.000 | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | | | |
| 241 | 0 | Mod. (3) | Re Conc Culvert | <input type="text" value="228"/> | ft | 30.000 | <input type="text" value="195"/> | <input type="text" value="3"/> | <input type="text" value="0"/> | | | |
| 8212 | 0 | Mod. (3) | R/C Headwall | <input type="text" value="58"/> | (LF) | 55.000 | <input type="text" value="3"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | | | |
| 8244 | 0 | Mod. (3) | R/C Culvert Wingwall | <input type="text" value="128"/> | (LF) | 0.000 | <input type="text" value="121"/> | <input type="text" value="7"/> | <input type="text" value="0"/> | | | |
| 8335 | 0 | Mod. (3) | Guardrail, Vehicular | <input type="text" value="388"/> | (LF) | 376.000 | <input type="text" value="12"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | | | |
| 8377 | 0 | Mod. (3) | Curb/Sidwalk-Bitumin | <input type="text" value="29"/> | ft | 24.000 | <input type="text" value="5"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | | | |
| 8398 | 0 | Mod. (3) | Curb/sidewalks - Con | <input type="text" value="116"/> | ft | 110.000 | <input type="text" value="6"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | | | |
| 8427 | 0 | Mod. (3) | Pro Screen Type2 | <input type="text" value="29"/> | ft | 21.000 | <input type="text" value="8"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | | | |



For each bridge, if a Culvert element (EN 240, 241, 242, 243, 244, or 245) is submitted, then no Deck/Slab (EN less than 100), or Superstructure (EN in 100 series) elements should generally be submitted. Also, no Substructure elements (EN in the remainder of 200 series) should generally be submitted except for foundation elements (Pile Cap/Footing or Pile - EN 220, 225, 226, 227, 228, or 229).

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Bridges > Validate



- BRIDGES ^
- VIEW LIST v
- MANAGE LAYOUTS v
- MANAGE FILTERS v
- NEW INSPECTION
- SUFF RATE
- VALIDATE
- CREATE STRUCT

Validate

NBI Results | NBE Results

| Bridge ID | District | County | Warning |
|-----------|----------|--------|---------|
| 002401 | 04 | 007 | 2 |

Warning (2)

| Structure | District | County | Element | Parent Element | State | Severity | Message |
|------------------|----------|--------|---------|----------------|-------|----------|--|
| 0000000000000240 | 04 | 007 | 241 | | 44 | W | Culvert element exists on structure which has Deck/Slab/Superstructure/Substructure elements that are not Foundation elements. |
| 0000000000000240 | 04 | 007 | 38 | | 44 | W | Slab element exists on structure which has 100 series elements. |

Cancel



For each bridge, if a Slab element (EN 38, 54, or 65) is submitted, then no Superstructure (EN in 100 series) element should generally be submitted.

USER, PONTIS

Bridge Facility Carried (007): **RI 33 PROVIDENCE ST** Inspection: Type: **Regular NBI** Metric English



Inspection > Condition

Condition Ratings

Deck (058): Channel (061): NBI Converter Profile:

Superstructure (059): Culvert (062):

Substructure (060): Waterway (071):

Unrepaired Spalls: (SF)

Element Conditions

[Hide Elem Inspection Details](#)

[Arrow Key Grid Navigation Help](#)

Element: Struct. Unit.: Env.:

Quantity Percent

| Elem. | Str. Unit. | Env. | Element Description | Tot. Qty. | Units | Qty1 | Qty2 | Qty3 | Qty4 | | | |
|--------|------------|----------|----------------------|-----------------------------------|-------|-----------|----------------------------------|--------------------------------|--------------------------------|----------------------------------|----------------------------------|----------------------------------|
| 38 | 0 | Mod. (3) | Re Concrete Slab | <input type="text" value="1000"/> | sq.ft | 1,000.000 | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="button" value="🍃"/> | <input type="button" value="📈"/> | <input type="button" value="✖"/> |
| 102 | 0 | Mod. (3) | Steel Clsd Box Gird | <input type="text" value="1000"/> | ft | 1,000.000 | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="button" value="🍃"/> | <input type="button" value="📈"/> | <input type="button" value="✖"/> |
| ▶ 241 | 0 | Mod. (3) | Re Conc Culvert | <input type="text" value="228"/> | ft | 30.000 | <input type="text" value="195"/> | <input type="text" value="3"/> | <input type="text" value="0"/> | <input type="button" value="🍃"/> | <input type="button" value="📈"/> | <input type="button" value="✖"/> |
| ▶ 8212 | 0 | Mod. (3) | R/C Headwall | <input type="text" value="58"/> | (LF) | 55.000 | <input type="text" value="3"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="button" value="🍃"/> | <input type="button" value="📈"/> | <input type="button" value="✖"/> |
| ▶ 8244 | 0 | Mod. (3) | R/C Culvert Wingwall | <input type="text" value="128"/> | (LF) | 0.000 | <input type="text" value="121"/> | <input type="text" value="7"/> | <input type="text" value="0"/> | <input type="button" value="🍃"/> | <input type="button" value="📈"/> | <input type="button" value="✖"/> |
| ▶ 8335 | 0 | Mod. (3) | Guardrail, Vehicular | <input type="text" value="388"/> | (LF) | 376.000 | <input type="text" value="12"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="button" value="🍃"/> | <input type="button" value="📈"/> | <input type="button" value="✖"/> |
| ▶ 8377 | 0 | Mod. (3) | Curb/Sidwalk-Bitumin | <input type="text" value="29"/> | ft | 24.000 | <input type="text" value="5"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="button" value="🍃"/> | <input type="button" value="📈"/> | <input type="button" value="✖"/> |
| 8398 | 0 | Mod. (3) | Curb/sidewalks - Con | <input type="text" value="116"/> | ft | 110.000 | <input type="text" value="6"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="button" value="🍃"/> | <input type="button" value="📈"/> | <input type="button" value="✖"/> |
| ▶ 8427 | 0 | Mod. (3) | Pro Screen Type2 | <input type="text" value="29"/> | ft | 21.000 | <input type="text" value="8"/> | <input type="text" value="0"/> | <input type="text" value="0"/> | <input type="button" value="🍃"/> | <input type="button" value="📈"/> | <input type="button" value="✖"/> |

MULTIMEDIA

FHWA
VALIDATION
CHECKS

ARIZONA
ADDITIONS

VIRGINIA
ADDITIONS

- BRIDGES
- INSPECTION
- CONDITION
- RIDOT APPRAISAL
- INVENTORY
- SCHEDULE
- RIDOT SCHEDULE
- WORK
- MULTIMEDIA
- ASSESSMENTS
- LOAD RATINGS
- ELEMENT CONDITION RATINGS
- CROSS SECTIONS
- REPORTS
- TUNNELS
- ADMIN



For each bridge, if a Slab element (EN 38, 54, or 65) is submitted, then no Superstructure (EN in 100 series) element should generally be submitted.

MULTIMEDIA

FHWA VALIDATION CHECKS

ARIZONA ADDITIONS

VIRGINIA ADDITIONS

USER, PONTIS

Bridges > Validate

Validate

NBI Results NBE Results

| Bridge ID | District | County | Warning |
|-----------|----------|--------|---------|
| 002401 | 04 | 007 | 2 |

Warning (2)

| Structure | District | County | Element | Parent Element | State | Severity | Message |
|-----------------|----------|--------|---------|----------------|-------|----------|--|
| 000000000000240 | 04 | 007 | 241 | | 44 | W | Culvert element exists on structure which has Deck/Slab/Superstructure/Substructure elements that are not Foundation elements. |
| 000000000000240 | 04 | 007 | 38 | | 44 | W | Slab element exists on structure which has 100 series elements. |

Cancel



MULTIMEDIA

FHWA
VALIDATION
CHECKS

ARIZONA
ADDITIONS

VIRGINIA
ADDITIONS

ARIZONA ADDITIONS

OPTIMIZATION DECISION LOG | EXEC SUMMARY GRAPHS

ARIZONA ADDITIONS

MULTIMEDIA

FHWA
VALIDATION
CHECKS

ARIZONA
ADDITIONS

VIRGINIA
ADDITIONS

- USER, PONTIS
- DB: HawaiiFuture
- DESC: HawaiiFuture_De...
- WEB HELP
- USER PROFILE
- LOGOUT
- REPORTS
- TUNNELS
- ADMIN
- INSPECTION
- GATEWAY
- ANALYSIS
- PROJECTS
- PROGRAMS
- PROGRAM LIST
- CREATE/EDIT PROGRAMS
- ASSIGN PROJECTS
- PERFORMANCE MEASURES
- FUNDING ALLOCATION
- PROGRAM PLANNING
- PROGRAM RESULTS
- EXECUTIVE SUMMARY
- CREATE/EDIT SCENARIOS
- SCENARIO EXPLORER
- PROGRAM COMPARISON

Programs > Program Planning

Optimize Program

Program: NHS Bridges [Run Optimization](#)

Scenario: \$50M per year

Optimization Method: Maximize Utility

Keep assigned projects: No

Run on all scenarios: No

Respect external frozen projects: Yes

Optimizer Database Connection: Iowa63

Download Optimization Log:
NHS Bridges, \$50M per year, 7/2/2020 4:28:31 PM ▼

[Download Log](#)

Program Information

Start Year: 2020 Subdivision Profile: Network-Wide

End Year: 2029 NBI Deterioration Method: ComponentLevelDeterioration

Utility Weight Profile: HDOT Condition Profile

Assigned Network Policies:

- Replace Culvert (HDOT)
- Replace Structure (HDOT)
- Rehab Culvert (HDOT)
- Repair Culvert (HDOT)
- Deck - Overlay (HDOT)
- Paint Structure (HDOT)
- Rehab Superstructure (HDOT)
- Repair Substructure (HDOT)

Optimization Progress

Complete!

Progress Messages

Initializing Program Optimization... 7/2/2020 4:28:00 PM

Running optimization version: 0.0.0.d4365de14872eb33a82a43bc36d83e9a4bce05b4 Hawaii SU-452 and Optimization Change For Spending 7/2/2020 4:28:32 PM

With options Program: NHS Bridges

Optimization Method: MaximizeUtility 7/2/2020 4:28:32 PM

Keep assigned projects: True 7/2/2020 4:28:40 PM

Respect external frozen projects: False 7/2/2020 4:28:40 PM

Clearing optimization alternative logs older than 30 runs or runs that were abandoned. 7/2/2020 4:28:40 PM

Using alternative log limit of 1000000. 7/2/2020 4:28:40 PM

Processing Scenario '\$50M per year'. 7/2/2020 4:28:40 PM

Getting Action Sequences 7/2/2020 4:28:43 PM

Getting Utility Tree 7/2/2020 4:28:45 PM

Processing Segments... 7/2/2020 4:28:45 PM

Retrieving Budgets 7/2/2020 4:28:45 PM

Estimating initial conditions of all segments 7/2/2020 4:28:45 PM

[Copy Log to Clipboard](#)

Assigned Projects

Segment: All Year: All

| Project Name | Category | Automatic | Cost | Utility | Utility Benefit | Benefit/Cost (\$k) | Cost (\$k) / Benefit | Year | Frozen | Status |
|--------------|----------|-----------|------|---------|-----------------|--------------------|----------------------|------|--------|--------|
|--------------|----------|-----------|------|---------|-----------------|--------------------|----------------------|------|--------|--------|



ARIZONA ADDITIONS

MULTIMEDIA

FHWA
VALIDATION
CHECKS

ARIZONA
ADDITIONS

VIRGINIA
ADDITIONS

USER, PONTIS Program

- DB: **HawaiiFuture** ← Optimize Prog
- DESC: HawaiiFuture_De...
- WEB HELP
- USER PROFILE
- LOGOUT

REPORTS ▾

TUNNELS ▾

ADMIN ▾

INSPECTION ▾

GATEWAY ▾

ANALYSIS ▾

Optimizer Database Connection: Iowa63

Download Optimization Log:

NHS Bridges, \$50M per year, 7/2/2020 4:28:31 PM ▾

[Download Log](#)

Program Int

Utility Wei
Assign



ARIZONA ADDITIONS

MULTIMEDIA

FHWA
VALIDATION
CHECKS

ARIZONA
ADDITIONS

VIRGINIA
ADDITIONS

USER, PONTIS



- BRIDGES
- REPORTS
- TUNNELS
- ADMIN
- INSPECTION
- GATEWAY
- ANALYSIS
- PROJECTS
- PROGRAMS
- PROGRAM LIST
- CREATE/EDIT PROGRAMS
- ASSIGN PROJECTS
- PERFORMANCE MEASURES
- FUNDING ALLOCATION
- PROGRAM PLANNING
- PROGRAM RESULTS
- EXECUTIVE SUMMARY
- CREATE/EDIT SCENARIOS
- SCENARIO EXPLORER
- PROGRAM COMPARISON
- UTILITY VALUE

Programs > Program Planning

Optimize Program

Program: NHS Bridges Run Optimization

Scenario: \$50M per year

Optimization Method: Maximize Utility

Keep assigned projects: No

Run on all scenarios: No

Respect external frozen projects: Yes

Optimizer Database Connection: Iowa63

Download Optimization Log: NHS Bridges, \$50M per year, 7/2/2020 4:28:31 PM Download Log



Optimization
Decision
Log
(New)

Program Information

Start Year: 2020
End Year: 2029
Subdivision Profile: Network-Wide
Utility Weight Profile: HDOT Condition Profile
Assigned Network Policies: Replace Culvert (HDOT), Replace Structure (HDOT), Rehab Culvert (HDOT), Repair Culvert (HDOT), Deck - Overlay (HDOT), Paint Structure (HDOT), Rehab Superstructure (HDOT), Repair Substructure (HDOT)
NBI Deterioration Method: ComponentLevelDet

Optimization Progress

Complete!

Progress Messages

| | |
|---|---------------------|
| Initializing Program Optimization... | 7/2/2020 4:28:00 PM |
| Running optimization version: 0.0.0.d4365de14872eb33a82a43bc36d83e9a4bce05b4 Hawaii SU-452 and Optimization Change For Spending | 7/2/2020 4:28:32 PM |
| With options Program: NHS Bridges | |
| Optimization Method: MaximizeUtility | |
| Keep assigned projects: True | |
| Respect external frozen projects: False | |
| Clearing optimization alternative logs older than 30 runs or runs that were abandoned. | 7/2/2020 4:28:32 PM |
| Using alternative log limit of 1000000. | 7/2/2020 4:28:40 PM |
| Processing Scenario '\$50M per year'. | 7/2/2020 4:28:40 PM |
| Getting Action Sequences | 7/2/2020 4:28:40 PM |
| Getting Utility Tree | 7/2/2020 4:28:43 PM |
| Processing Segments... | 7/2/2020 4:28:45 PM |
| Retrieving Budgets | 7/2/2020 4:28:45 PM |

Optimization Progress Log



[Copy Log to Clipboard](#)

Assigned Projects

Segment: All Year: All

| Project Name | Category | Automatic | Cost | Utility | Utility Benefit | Benefit/Cost (\$k) | Cost (\$k) / Benefit | Year | Frozen | Status |
|---|-------------------|-----------|----------|---------|-----------------|--------------------|----------------------|------|--------|----------|
| 009000310300413(Repair Superstructure - HDOT, Repair Substructure - HDOT) | Preservation Work | Yes | \$77,163 | 55 | 2.51 | 0.000032528 | \$30,742.38 | 2020 | No | Proposed |

ARIZONA ADDITIONS

Admin > General Config > Options

MULTIMEDIA

FHWA
VALIDATION
CHECKS

ARIZONA
ADDITIONS

VIRGINIA
ADDITIONS

| Options | |
|-------------------------------|--|
| MULTISERVER | |
| MULTISERVER5 | |
| NBI_CALC_LAST | |
| OPTLOGNUMBER | |
| OPTLOGGROWNUMBER | |
| OTHER_SPECIAL_CALC_LAST | |
| PON_UNITS | |
| PON5_APP_LOGGING_LEVEL | |
| PON5_DEFAULT_SHOW_QUANTITY | |
| PROJECTGRIDCONTINOUSSCROLLING | |
| REPORTUSERANALYTICS | |
| RIGHT_CLICK_ENABLED | |
| ROUTINEINSPFREQ | |
| SPECREQTIMEOUT | |
| SYNC_BRIDGEWARE | |
| TEMP_FILE_AGE_IN_DAYS | |
| TOOLTIPDELAY | |
| UNDERWATER_CALC_LAST | |
| UPDATEKEYINPLACE | |
| UPDATEWHERE | |

AASHTOWare Bridge Management Program Configuration Option

Option Name: OPTLOGGROWNUMBER
 Default Value: 100000
 Option Value:

Help Topic:

How many individual rows the optimizer alternative log output keeps in the database per optimization run. (Maximum value 1 million)

Description:

Active: Yes

How many optimizer runs to keep.
 And how many rows in each to hang on to.
 (Please be careful with these)

ARIZONA ADDITIONS

Programs > Program Planning

Optimize Program

Program: [Run Optimization](#)
 Scenario:
 Optimization Method:
 Keep assigned projects:
 Run on all scenarios:
 Respect external frozen projects:

Optimizer Database Connection: Iowa63

Download Optimization Log:

-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-

Program Information

Start Year: 2020 Subdivision Profile: Network-Wide
 End Year: 2118 NBI Deterioration Method: ComponentLevelDeterioration
 Utility Weight Profile: HDOT Optimizer Profile
 Assigned Network Policies:

Assigned Projects

Segment: Year:

| Project Name | Category | Automatic | Cost | Utility | Utility Benefit | Benefit/Cost (\$k) |
|--------------|----------|-----------|------|---------|-----------------|--------------------|
| No records | | | | | | |

Projects Map

No bridges to show

MULTIMEDIA
 FHWA
 VALIDATION
 CHECKS
 ARIZONA
 ADDITIONS
 VIRGINIA
 ADDITIONS



ARIZONA ADDITIONS

MULTIMEDIA

FHWA
VALIDATION
CHECKS

ARIZONA
ADDITIONS

VIRGINIA
ADDITIONS

Run Optimization

Optimizer Database Connection: Iowa63

Download Optimization Log:

NHS Bridges, \$50M per year, 7/2/2020 4:28:31 PM

Downloading Log...



This operation could take a few minutes depending on the size of the optimization results.

work-Wide
nponentLevelDeterioration

521 Bridges
10 Years
32 Network Policy Branches
300,000 Decisions Logged
25 MB File



ARIZONA ADDITIONS

| | B | C | D | E | P | Q | R |
|-----|--|---|-----------------|------------------|------|---------|-----------------------------|
| 1 | Alternative Log Output. Optimization GUID: 'E500DB5FFAAF4D36A7F931CF63C71C78' Program: 'NHS Bridges' Scenario: '\$50M per year' StartTime: 7/2/2020 4:28:31 PM | | | | | | |
| 2 | Bridge ID | Combination Name | Structure Weigh | Starting Utility | Year | Selecte | Rejection Reason |
| 35 | 003000930301128 | (Repair Superstructure - HDOT, Repair Substructure - HDOT, Seismic Retrofit - HDOT) | 42390512.78 | 58.68 | 2020 | F | Network policy |
| 36 | 003000930301128 | (Replace Joints - HDOT) | 42390512.78 | 58.68 | 2020 | F | Network policy |
| 37 | 003000930301128 | (Repair Superstructure - HDOT, Repair Substructure - HDOT, Paint Structure - HDOT) | 42390512.78 | 58.68 | 2020 | F | Network policy |
| 38 | 003000930301128 | (Repair Superstructure - HDOT, Paint Structure - HDOT) | 42390512.78 | 58.68 | 2020 | F | Network policy |
| 39 | 003000930301128 | (Repair Joints - HDOT) | 42390512.78 | 58.68 | 2020 | F | Network policy |
| 40 | 003000930301128 | (Deck Overlay & Repair - HDOT, Rehab Superstructure - HDOT, Repair Substructure - HDOT) | 42390512.78 | 58.68 | 2020 | F | Cost or utility |
| 41 | 003000930301128 | (Rehab Substructure - HDOT) | 42390512.78 | 58.68 | 2020 | F | Cost or utility |
| 42 | 003000930301128 | (Replace Structure - HDOT) | 42390512.78 | 58.68 | 2020 | F | Cost or utility |
| 43 | 003000930301128 | (Repair Superstructure - HDOT, Repair Substructure - HDOT) | 42390512.78 | 58.68 | 2020 | F | Eclipsed in Pareto Frontier |
| 44 | 003000930301128 | (Repair Deck - HDOT, Repair Superstructure - HDOT, Repair Substructure - HDOT) | 42390512.78 | 58.68 | 2020 | F | Eclipsed in Pareto Frontier |
| 45 | 003000930301128 | (Deck Overlay & Repair - HDOT, Repair Superstructure - HDOT) | 42390512.78 | 58.68 | 2020 | F | Eclipsed in Pareto Frontier |
| 46 | 003000930301128 | (Repair Deck - HDOT, Repair Substructure - HDOT) | 42390512.78 | 58.68 | 2020 | F | Eclipsed in Pareto Frontier |
| 47 | 003000930301128 | (Deck Overlay & Repair - HDOT, Repair Substructure - HDOT) | 42390512.78 | 58.68 | 2020 | F | Eclipsed in Pareto Frontier |
| 48 | 003000930301128 | (Deck Overlay - HDOT) | 42390512.78 | 58.68 | 2020 | F | Eclipsed in Pareto Frontier |
| 49 | 003000930301128 | (Deck Overlay & Repair - HDOT) | 42390512.78 | 58.68 | 2020 | F | Eclipsed in Pareto Frontier |
| 50 | 003000930301128 | (Deck Overlay - HDOT, Repair Superstructure - HDOT, Repair Substructure - HDOT) | 42390512.78 | 58.68 | 2020 | F | Eclipsed in Pareto Frontier |
| 51 | 003000930301128 | (Deck Overlay - HDOT, Repair Superstructure - HDOT) | 42390512.78 | 58.68 | 2020 | F | Eclipsed in Pareto Frontier |
| 52 | 003000930301128 | (Deck Overlay - HDOT, Repair Substructure - HDOT) | 42390512.78 | 58.68 | 2020 | F | Not in best combination |
| 53 | 003000930301128 | (Repair Substructure - HDOT) | 42390512.78 | 58.68 | 2020 | T | Not rejected |
| 462 | 003000920400588 | (Replace Culvert - HDOT) | 10729097.77 | 62.25 | 2020 | F | Network policy |
| 463 | 003000920400588 | (Rehab Culvert - HDOT) | 10729097.77 | 62.25 | 2020 | F | Network policy |
| 464 | 003000920400588 | (Repair Culvert - HDOT) | 10729097.77 | 62.25 | 2020 | F | Network policy |
| 465 | 003000920400588 | (Deck Overlay - HDOT, Repair Superstructure - HDOT, Paint Structure - HDOT) | 10729097.77 | 62.25 | 2020 | F | Network policy |
| 466 | 003000920400588 | (Deck Overlay - HDOT, Repair Substructure - HDOT, Paint Structure - HDOT) | 10729097.77 | 62.25 | 2020 | F | Network policy |
| 467 | 003000920400588 | (Deck Overlay - HDOT, Repair Substructure - HDOT) | 10729097.77 | 62.25 | 2020 | F | Minimum cost violation |
| 468 | 003000920400588 | (Deck Overlay - HDOT, Repair Superstructure - HDOT, Repair Substructure - HDOT) | 10729097.77 | 62.25 | 2020 | F | Minimum cost violation |
| 469 | 003000920400588 | (Paint Structure - HDOT) | 10729097.77 | 62.25 | 2020 | F | Network policy |
| 470 | 003000920400588 | (Deck Overlay - HDOT, Seismic Retrofit - HDOT) | 10729097.77 | 62.25 | 2020 | F | Network policy |
| 471 | 003000920400588 | (Rehab Superstructure - HDOT, Repair Substructure - HDOT, Paint Structure - HDOT) | 10729097.77 | 62.25 | 2020 | F | Network policy |
| 472 | 003000920400588 | (Repair Substructure - HDOT) | 10729097.77 | 62.25 | 2020 | F | Minimum cost violation |
| 473 | 003000920400588 | (Seismic Retrofit - HDOT) | 10729097.77 | 62.25 | 2020 | F | Network policy |
| 474 | 003000920400588 | (Repair Deck - HDOT, Repair Superstructure - HDOT) | 10729097.77 | 62.25 | 2020 | F | Minimum cost violation |
| 475 | 003000920400588 | (Repair Substructure - HDOT, Seismic Retrofit - HDOT) | 10729097.77 | 62.25 | 2020 | F | Network policy |

MULTIMEDIA

FHWA
VALIDATION
CHECKS

ARIZONA
ADDITIONS

VIRGINIA
ADDITIONS

ARIZONA ADDITIONS

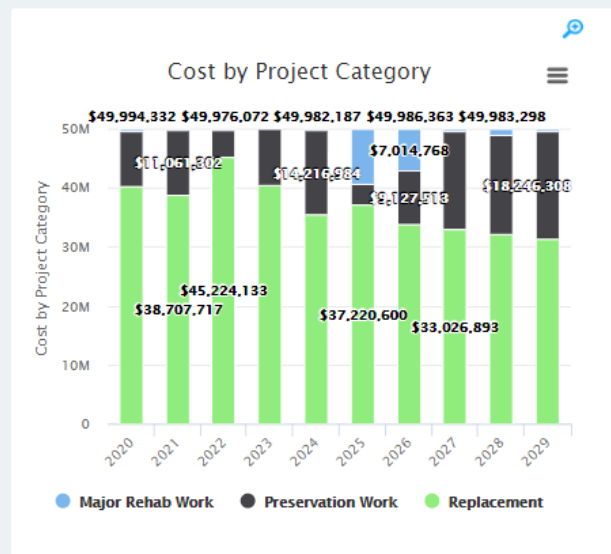
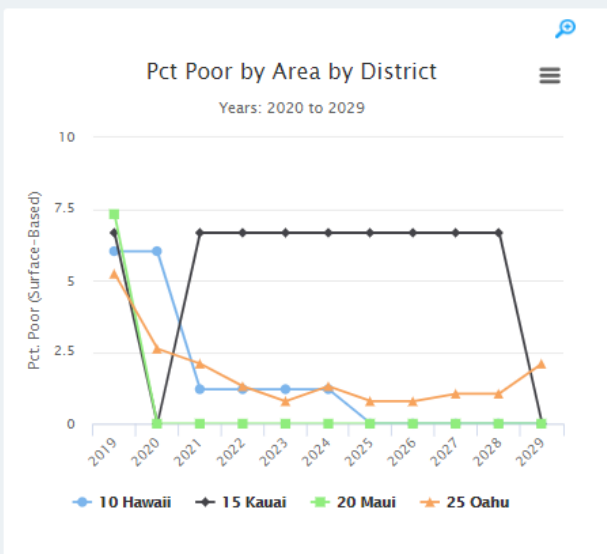
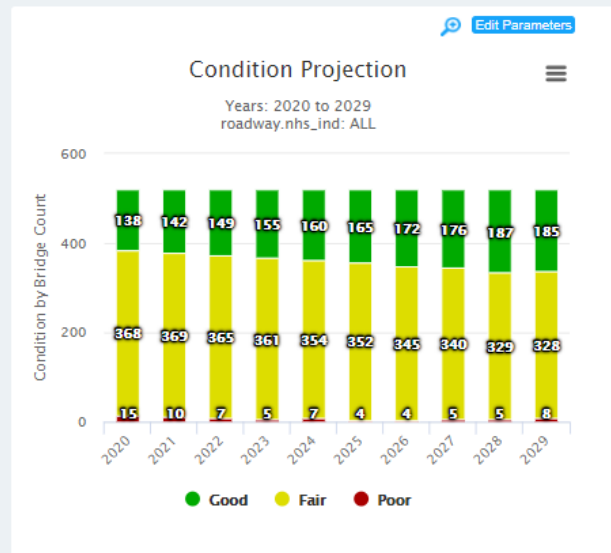
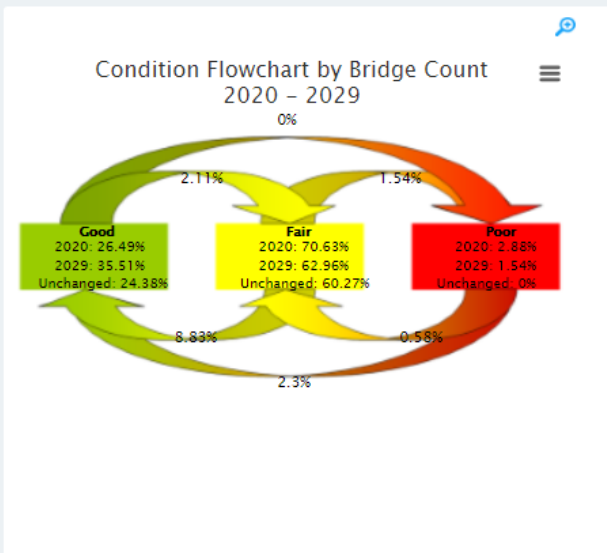
Programs > Executive Summary

MULTIMEDIA

FHWA
VALIDATION
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ADDITIONS

VIRGINIA
ADDITIONS



ARIZONA ADDITIONS

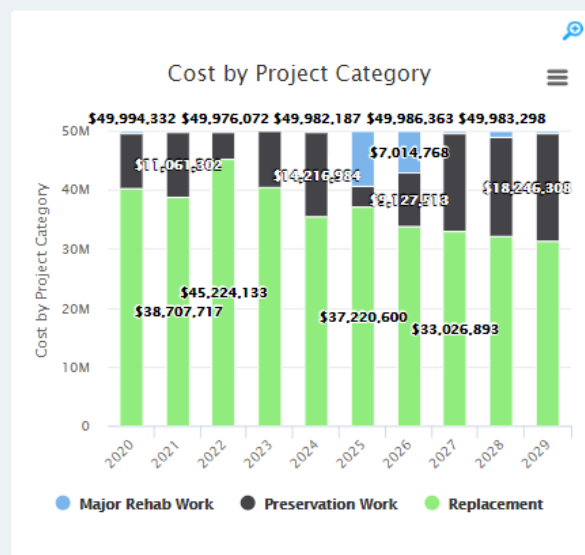
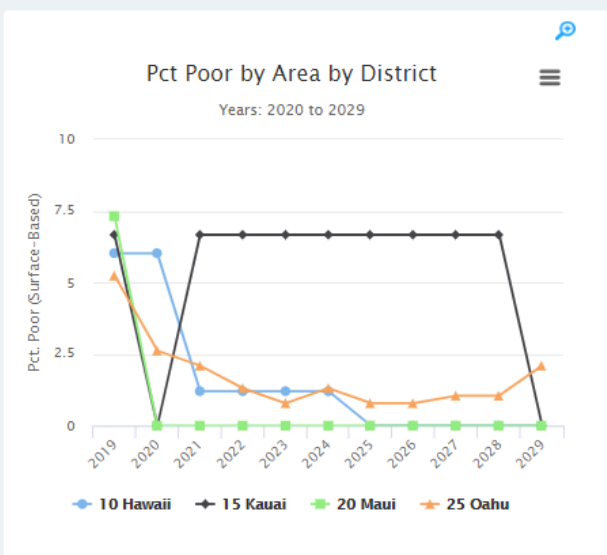
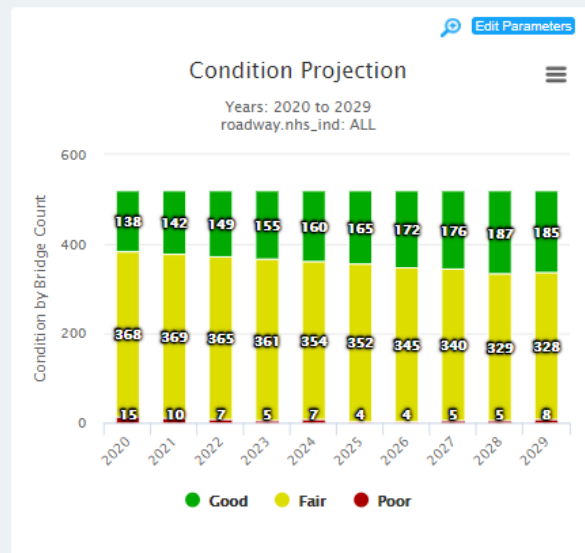
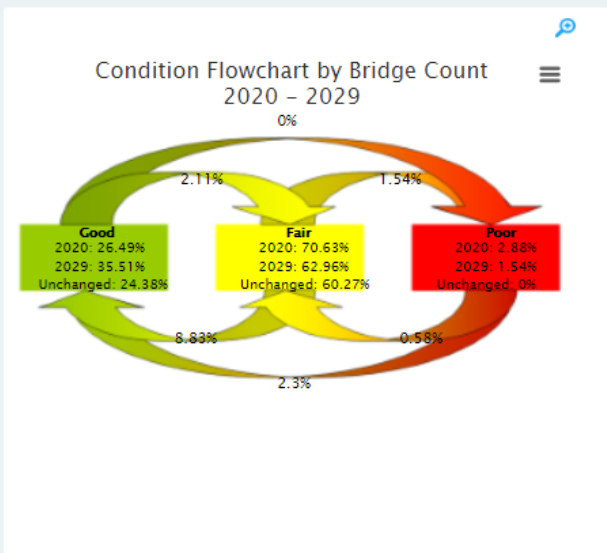
MULTIMEDIA

FHWA
VALIDATION
CHECKS

ARIZONA
ADDITIONS

VIRGINIA
ADDITIONS

Programs > Executive Summary



Admin > Modeling Config > Executive Summary

Title:

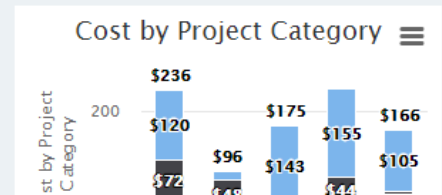
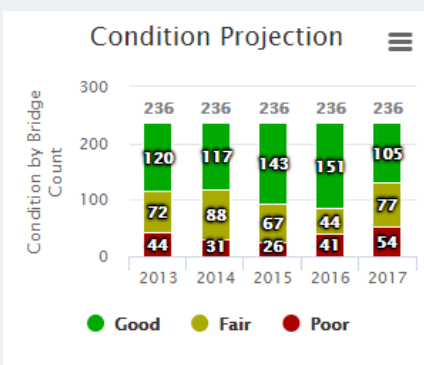
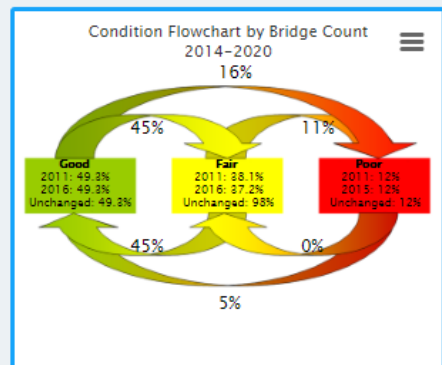
Chart Type:

Filters: [+ Add Filter](#)

Order Number:

Existing Chart Templates

(Samples below are for visual reference only, and not indicative of actual data or groupings)



ARIZONA ADDITIONS

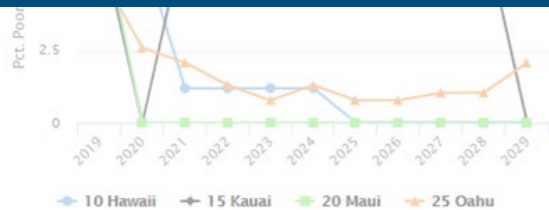
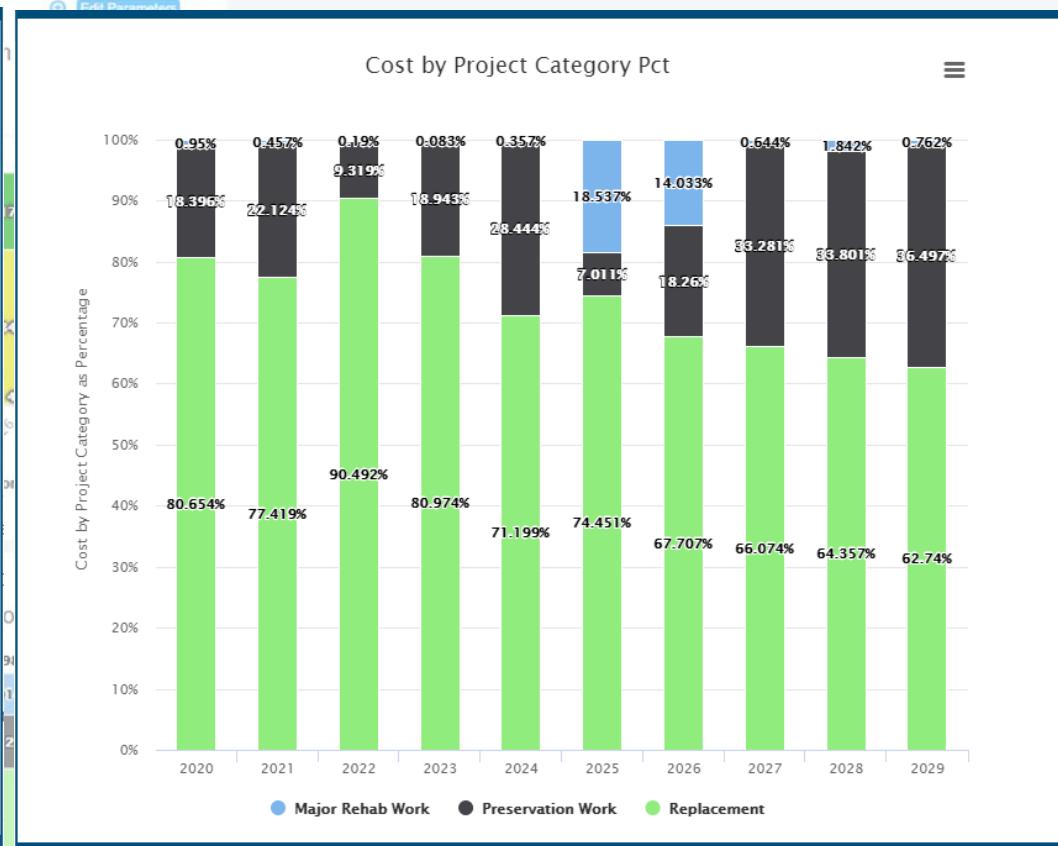
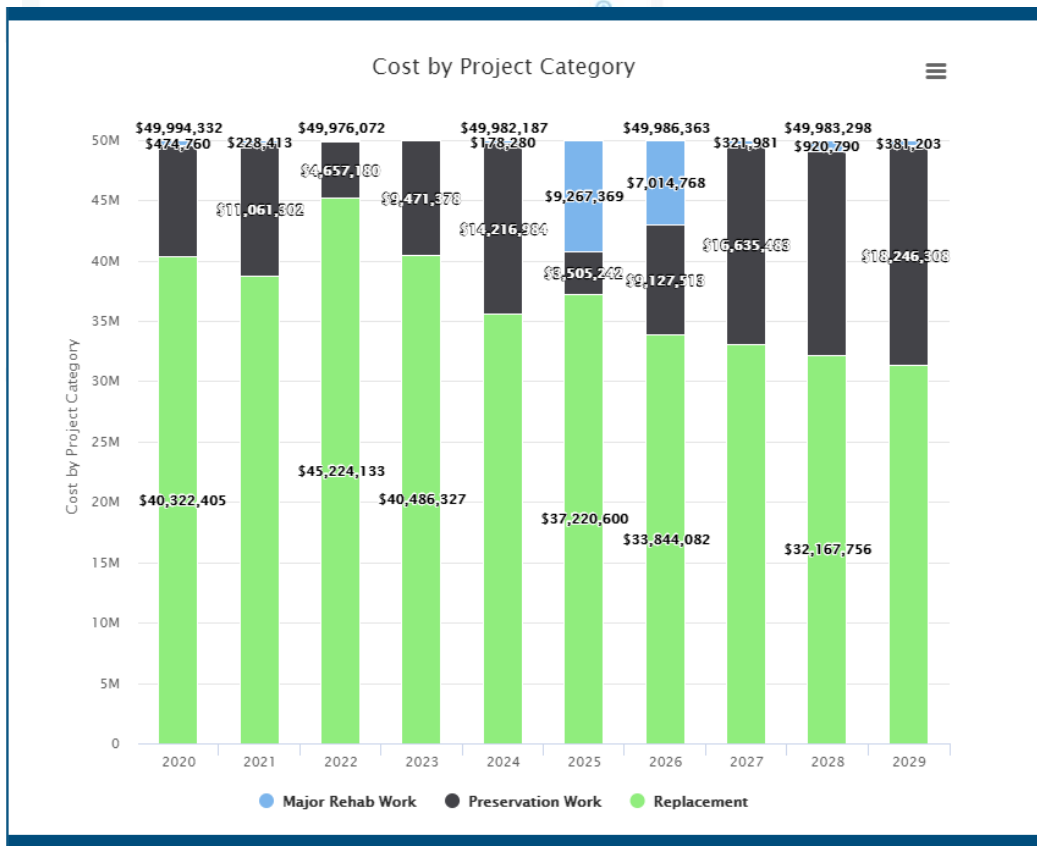
Programs > Executive Summary

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ADDITIONS

VIRGINIA ADDITIONS

WEIGHTED NETWORK POLICIES | WEIGHTED LIFECYCLE POLICIES

VIRGINIA ADDITIONS

Admin > Modeling Config > Network Policies

Network Policy Editor

Network Policy: Preserve Deck Create New

Network Policy Details

Network Policy Name:

Inactive:

Actions

- [-] **Preserve Deck - Network**
 - Do Nothing
- [-] **Rehab Super - Network**
 - Do Nothing
 - Rehab Sub - Network
- [-] **Repaint Super/Sub - Network**
- [-] **Paint Super - Network**
 - Do Nothing
 - Paint Sub - Network

Details

Action: Preserve Deck - Network Project Category: Select a project category

Action Conditional Rule

Summary

(Weighted Percent Condition State 0 times cs1 + 1 times cs2 + 3 times cs3 + 9 times cs4 of Element 12 - Re Concrete Deck' Must Be Greater Than Or Equal To Number Value 10)

Rule Builder

Add Condition Add Group

Type: Element Condition State

Type: Number Value

Percent Condition State Weighted of Element 12 - Re Concrete Deck Must Be Greater Than or Equal To Number Value 10

Condition State Weights:

CS1: CS2: CS3: CS4:

Follow-up Actions

- Rehab Super - Network X
- Repaint Super/Sub - Net X
- Paint Super - Network X
- Select an action Add Action

**Indicates an action is no longer a network level action. These actions can be changed, selected, or deleted, but once saved cannot be re-added.

MULTIMEDIA

FHWA
VALIDATION
CHECKS

ARIZONA
ADDITIONS

VIRGINIA
ADDITIONS

VIRGINIA ADDITIONS

Admin > Modeling Config > Network Policies

Network Policy Editor

Network Policy: Preserve Deck Create New

Network Policy Details

Network Policy Name:

Inactive:

Actions

- Preserve Deck - Network**
 - Do Nothing
- Rehab Super - Network**
 - Do Nothing
 - Rehab Sub - Network
- Repaint Super/Sub - Network**
- Paint Super - Network**
 - Do Nothing
 - Paint Sub - Network

Details

Action: Preserve Deck - Network Project Category: Select a project category

Action Conditional Rule

Summary

(Weighted Percent Condition State 0 times cs1 + 1 times cs2 + 3 times cs3)

Rule Builder

Add Condition Add Group

Type: Element Condition State

Percent Condition State: Weighted of Element: 12 - Re Concrete Deck

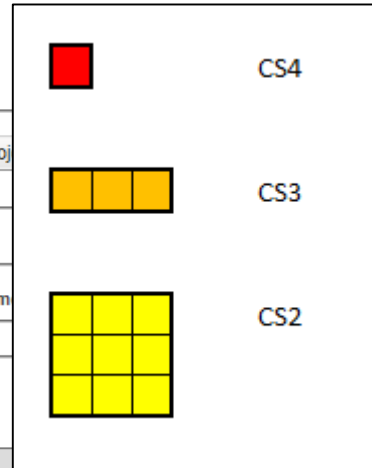
Must Be: Greater Than or Equal To

Type: Number Value

Number Value: 10

Condition State Weights:

CS1: CS2: CS3: CS4:



Concrete Deck' Must Be Greater Than Or Equal To Number Value 10)

Follow-up Actions

- Rehab Super - Network X
- Repaint Super/Sub - Net X
- Paint Super - Network X
- Select an action Add Action

**Indicates an action is no longer a network level action. These actions can be changed, selected, or deleted, but once saved cannot be re-added.

MULTIMEDIA

FHWA
VALIDATION
CHECKS

ARIZONA
ADDITIONS

VIRGINIA
ADDITIONS



VIRGINIA ADDITIONS

Admin > Modeling Config > LCCA Policy Rules

Rule Editor

Policy: Rule: [Create New](#)

Rule Details

Name: Resulting Action:

Summary

((Weighted Percent Condition State 0 times cs1 + 1 times cs2 + 3 times cs3 + 9 times cs4 of Element 12 - Re Concrete Deck' Must Be Greater Than Or Equal To Number Value 30))

Rule Builder

[Add Condition](#) [Add Group](#)

Group

[Add Condition](#) [Add Group](#) [Remove Group](#)

Type: Type:

Percent Condition State of Element Must Be Number Value

Condition State Weights:

CS1: CS2: CS3: CS4:

MULTIMEDIA

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