

## **Bridge 22976 Inspection Report**



Latitude:35.92702, Longitude:-90.74645

Route:324 Section:00 Log:0.77

Arnold Road ID:16xCRAIGHEAD324RDx1xA, Arnold Log mile:2.376

District 10, 31 - Craighead County

Owner: 2 - County Highway Agency

Inspection Direction: 4 - W to E

### Bridge Posting Information

41 - Structure Open/Posted/Closed: A - Open, no restriction

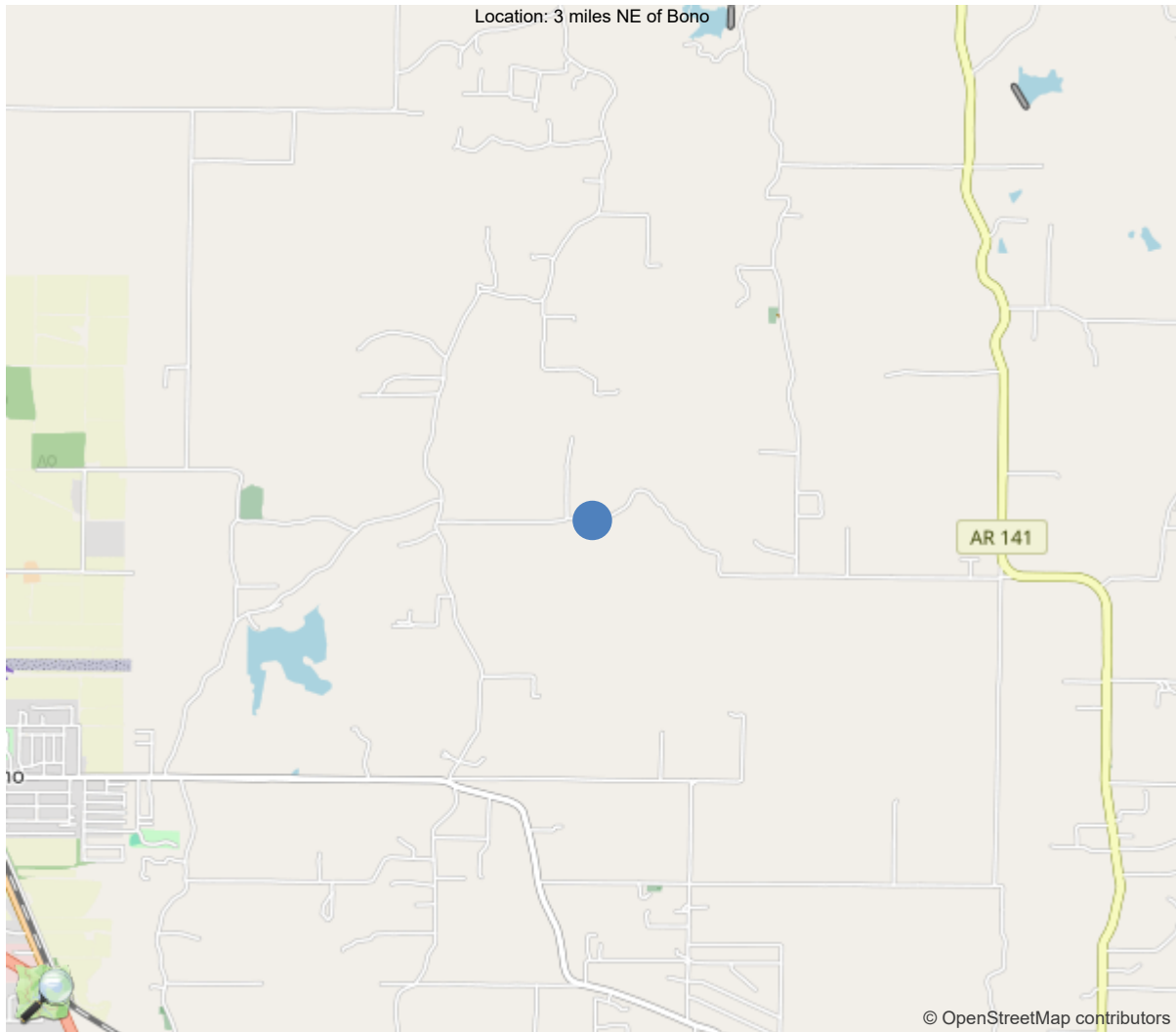
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	35		
Code 9 (31 Tons)	40		
Code 5 (40 Tons)	49		

If calculated capacity is less than the Legal Load Listed, the Bridge Legally Requires Posting Signs to be installed by the Bridge Owner.



30"x36" AR



35.92702, -90.74645



## National Bridge Inventory Data Sheet

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	22976
(5) Inventory Route	1
(2) Highway Agency District	10 - District 10
(3) County Code	31 - Craighead County
(4) Place Code	0
(6) Features Intersected	CREEK
(7) Facility Carried	CR 324 - E
(9) Location	3 miles NE of Bono
(11) Mile Point	0.77 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.92702
(17) Longitude	-90.74645
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	122
Material	1 - Concrete
Type	22 - Channel beam
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	2
(46) No. of Approach Spans	0
(107) Deck Structure Type	2 - Concrete Precast Panels
(108) Wearing Surface/Protective System	
Type of Wearing Surface	0 - None (no additional concrete thickne
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	2002
(106) Year Reconstructed	0
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	791
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	4 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	60 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	29.5 ft
(52) Deck Width Out to Out	30.9 ft
(32) Approach Roadway Width (W/Shoulders)	27.9 ft
(33) Bridge Median	0 - No median
(34) Skew	0 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	29.5 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	0 ft
Ref:	
(56) Min Lat Underclear LT	0 ft
NAVIGATION DATA	
(38) Navigation Control	0 - No navigation control on w
(111) Pier Protection	1 - Navigation protection not
(39) Navigation Vertical Clearance	0 ft
(116) Vert-Lift Bridge Nav Min Vert Clear	0 ft
(40) Navigation Horizontal Clearance	0 ft

CLASSIFICATION	
(112) NBIS Bridge Length	Y
(104) Highway System	0
(26) Functional Class	9 - Rural Local
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	N - No parallel structure exists
(102) Direction of Traffic	2 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0 - N/A
(110) Designated National Network	0 - The inventory route is not
(20) Toll	3 - On free road. The structure
(21) Maintain	2 - County Highway Agency
(22) Owner	2 - County Highway Agency
(37) Historical Significance	4 - Historical significance is
CONDITION	
(58) Deck	5
(59) Superstructure	5
(60) Substructure	7
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	0 - Other or Unknown
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	53
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	32
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRAISAL	
(67) Structural Evaluation	
(68) Deck Geometry	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	7
(72) Approach Roadway Alignment	7
(36A) Bridge Railings	0 - Inspected feature does not meet
(36B) Transitions	0 - Inspected feature does not meet
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	0 - Inspected feature does not meet
(113) Scour Critical Bridges	5 - Bridge foundations determined t
PROPOSED IMPROVEMENTS	
(75) Type of Work	
(76) Length of Structure Improvement	0 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 0
(97) Year of Improvement Cost Estimate	
(114) Future ADT	252
(115) Year of Future ADT	2007

INSPECTIONS *			
(90) Inspection Date			03/05/2025
(91) Frequency			24
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection	No		
<p>* The inspection date and frequency information in this box contains the current NBI date and frequency information. Please refer to the report header for the date this inspection was conducted.</p>			

Team Lead: Richard Jones, Inspection Date: 03/05/2025

### Specifications for National Bridge Inventory Sheets

IDENTIFICATION	
B.ID.01 Bridge Number	22976
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	11767
B.W.01 Year Built	2002

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	31 - Craighead County
B.L.03 Place Code	00000 - N/A
B.L.04 Highway Agency District	10 - District 10
B.L.05 Latitude	35.92702
B.L.06 Longitude	-90.74645
B.L.07 Border Bridge Number	
B.L.08 Border Bridge State or Country Code	
B.L.09 Border Bridge Insp. Resp.	
B.L.10 Border Bridge Designated Lead State	
B.L.11 Bridge Location	2 MI NW STERLING SPRINGS
B.L.12 Metropolitan Planning Organization	

CLASSIFICATION	
B.CL.01 Owner	L01 - County highway agency
B.CL.02 Maint. Responsibility	L01 - County highway agency
B.CL.03 Federal or Tribal Land Access	N - Not Applicable
B.CL.04 Historic Significance	7 - Historic significance of the br
B.CL.05 Toll	N - Bridge does not carry a toll ro
B.CL.06 Emergency Evacuation Designation	

ROADSIDE HARDWARE	
B.RH.01A Bridge Railing Type	
B.RH.01B Bridge Railing Year (YY)	
B.RH.01C Bridge Railing Test Level	
B.RH.02A Transition Type	
B.RH.02B Transition Year (YY)	
B.RH.02C Transition Test Level	

BRIDGE GEOMETRY	
B.G.01 NBIS Bridge Length	55.3
B.G.02 Total Bridge Length	60
B.G.03 Max Span Length	29.9
B.G.04 Min Span Length	30
B.G.05 Bridge Width Out-to-Out	30.8
B.G.06 Bridge Width Curb-to-Curb	29.5
B.G.07 Left Curb or Sidewalk Width	0
B.G.08 Right Curb or Sidewalk Width	0
B.G.09 Approach Roadway Width	27.9

B.G.10 Bridge Median	0 - No median
B.G.11 Skew	0
B.G.12 Curved Bridge	N - Not curved
B.G.13 Max Bridge Height	8
B.G.14 Sidehill Bridge	N - Not a sidehill bridge
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	1851.6

LOADS AND LOAD RATING	
B.LR.01 Design Load	U - Unknown
B.LR.02 Design Method	
B.LR.03 Load Rating Date	
B.LR.04 Load Rating Method	LFR - Load Factor Rating
B.LR.05 Inventory Load Rating Factor	0.89
B.LR.06 Operating Load Rating Factor	1.47
B.LR.07 Controlling Legal Load Rating Factor	
B.LR.08 Routine Permit Loads	

INSPECTION REQUIREMENTS	
B.IR.01 NSTM Inspection Required	N - NSTM inspection not required.
B.IR.02 Fatigue Details	
B.IR.03 UW Inspection Required	N - Underwater inspection not requi
B.IR.04 Complex Feature	N - Bridge does not have complex fe

COMPONENT CONDITION RATINGS	
B.C.01 Deck Condition Rating	6 - SATISFACTORY - Widespread
B.C.02 Superstructure Condition	6 - SATISFACTORY - Widespread
B.C.03 Substructure Condition	7 - GOOD - Some minor defects.
B.C.04 Culvert Condition	N - NOT APPLICABLE - Component
B.C.05 Bridge Railing Condition	7 - GOOD - Some minor defects.
B.C.06 Bridge Railing Transitions Condition	N - NOT APPLICABLE - Component
B.C.07 Bridge Bearings Cond.	N - NOT APPLICABLE - Component
B.C.08 Bridge Joints Condition	6 - SATISFACTORY - Widespread
B.C.09 Channel Condition Rating	6 - SATISFACTORY - Widespread
B.C.10 Channel Protection Condition	7 - GOOD - Some minor defects.
B.C.11 Scour Condition Rating	8 - Insignificant scour.
B.C.12 Bridge Condition Classification	F - Fair
B.C.13 Lowest Condition Rating	6 - SATISFACTORY - Widespread
B.C.14 NSTM Insp. Condition	
B.C.15 UW Inspection Condition	

APPRAISAL	
B.AP.01 Approach Roadway Alignment	G - Good
B.AP.02 Overtopping Likelihood	3 - Low - once every 26 to 50 years
B.AP.03 Scour Vulnerability	0 - Scour appraisal has not been co
B.AP.04 Scour Plan of Action	0 - A scour POA is not required.
B.AP.05 Seismic Vulnerability	0 - Seismic evaluation not complete

Team Lead: Richard Jones, Inspection Date: 03/05/2025

SPAN SETS			
<b>M1</b>			
B.SP.02 # of Spans	2	B.SP.08 Deck Interaction	IM - Integral or monolithic
B.SP.03 # of Beam Lines	8	B.SP.09 Deck Material and Type	C02 - Reinforced concrete - pr
B.SP.04 Span Material	C02 - Reinforced concrete - pr	B.SP.10 Wearing Surface	0 - None
B.SP.05 Span Continuity	1 - Simple or single span	B.SP.11 Deck Protective System	0 - None
B.SP.06 Span Type	G07 - Girder/beam - channel ad	B.SP.12 Deck Reinforcing Protective System	0 - None
B.SP.07 Span Protective System	0 - None	B.SP.13 Deck Stay-In-Place Forms	0 - None

SUBSTRUCTURE SETS			
<b>A1</b>			
B.SB.02 No. of Substructure Units	2	B.SB.05 Substructure Protective System	0 - None
B.SB.03 Substructure Material	C01 - Reinforced concrete - ca	B.SB.06 Foundation Type	PX - Pile - other
B.SB.04 Substructure Type	A02 - Abutment - stub	B.SB.07 Foundation Protective System	0 - None
<b>P1</b>			
B.SB.02 No. of Substructure Units	1	B.SB.05 Substructure Protective System	0 - None
B.SB.03 Substructure Material	C01 - Reinforced concrete - ca	B.SB.06 Foundation Type	PX - Pile - other
B.SB.04 Substructure Type	B03 - Bent - pile	B.SB.07 Foundation Protective System	0 - None

HIGHWAY FEATURES			
<b>H1</b>			
B.F.02 Feature Location	C - Carried on bridge	B.H.09 Annual ADT	791
B.F.03 Feature Name	CR 32-E (911=324)	B.H.10 Annual ADTT	7
B.H.01 Functional Classification	7 - Local	B.H.11 Year of Annual ADT	2018
B.H.02 Urban Code	99999	B.H.12 Highway Max Usable Vertical Clearance	99.9
B.H.03 NHS Designation	N - Non-NHS	B.H.13 Highway Min Vertical Clearance	99.9
B.H.04 National Highway Freight Network	N - Not on the NHFN	B.H.14 Highway Min Horizontal Clearance, Left	
B.H.05 STRAHNET Designation	N - Not a STRAHNET route	B.H.15 Highway Min Horizontal Clearance, Right	
B.H.06 LRS Route ID		B.H.16 Highway Max Usable Surface Width	29.1
B.H.07 LRS Mile Point	2.92	B.H.17 Bypass Detour Length	4
B.H.08 Lanes On Highway	2	B.H.18 Crossing Bridge Number	

HIGHWAY ROUTES					
Highway Parent	B.RT.01 Route Designation	B.RT.02 Route Number	B.RT.03 Route Direction	B.RT.04 Route Type	B.RT.05 Service Type
H1	1	32	2-T - TEMP - Two-way traffic - NS or EW	4 - County route	1 - Mainline



Team Lead: Richard Jones, Inspection Date: 03/05/2025

## WATERWAY FEATURES

W1			
B.F.02 Feature Location	B - Below bridge	B.N.03 Movable Bridge Max Navigation Vertical Clearance	
B.F.03 Feature Name	CREEK	B.N.04 Navigation Channel Width	
B.N.01 Navigable Waterway	N - Not navigable waters	B.N.05 Navigation Channel Min Horizontal Clearance	
B.N.02 Navigation Min Vertical Clearance		B.N.06 Substructure Navigation Protection	

## POSTING STATUS DATA

B.PS.01 Load Posting Status	B.PS.02 Posting Status Change Date
PO - Permanent and Open	

## LOAD EVALUATION AND POSTING

B.EP.01 Legal Load Configuration	B.EP.02 Legal Load Rating Factor	B.EP.03 Posting Type	B.EP.04 Posting Value
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## Inspection Notes

### General Observation

Inspected by foot.

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**58 - Deck** (5 - FAIR CONDITION - all primary structural elements are sound but may have minor section loss, cracking, spalling or scour.)

Overall fair condition.

Approach roadway settlement was patched sometime in the past.

Dirt and debris are built up in gutter lines.

Shear key grout has cracks and a few scattered spalled areas between older units.

Top of units have areas of minor abrasion.

Span 1 bent 2 unit 5 has a 2' delaminated area.

Span 2 units 6 - 8 were replaced in 2021.

Under surface of a few units have scattered hairline to minor sized cracks.

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**59 - Superstructure** (5 - FAIR CONDITION - all primary structural elements are sound but may have minor section loss, cracking, spalling or scour.)

Overall fair condition.

Legs of units have a few scattered minor sized flexure or longitudinal cracks.

Units have a few small spalls at transverse bolt connections.

Diaphragms at ends of units have a few cracks and spalls.

Span 1 bent 1 unit 6 Lt leg has a 2' honeycombed area exposing 1' of rebar.

Span 2 unit 3 Lt leg has a minor honeycombed area exposing 6" of rebar.

Span 2 bent 2 unit 7 Lt leg has a 1' honeycombed area with exposed rebar.

Span 2 bent 3 unit 2 Lt leg has a hairline to minor sized shear crack through transverse bolt connection.

Span 2 bent 3 unit 4 Lt leg has a shear crack through transverse bolt connection.

Span 2 units 6 - 8 were replaced in 2021.

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**60 - Substructure** (7 - GOOD CONDITION - some minor problems.)

Overall good condition.

Bent 2 back side has a few minor spalls under units.

Bent 2 pile 4 has a minor spall near cap.

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**61 - Channel/Channel Protection** (7 - Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift.)

Bent 2 pile 3 has minor drift buildup.

Trees and brush growing along channel banks.

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**A-8 - Road / Route Name** (CR 32-E (911=324))

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**A-B.C.11 - B.C.11 Scour Condition Rating (New NBIS)** (8 - Insignificant scour.)

Meandering channel has insignificant scour at bent 2.

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## Inspection Photos and Notes



Elevation



Inspection Direction



Bent 2 back side typical of spalls under units



Bent 2 pile 3 minor drift buildup





Left Side Upstream



Right Side Downstream

### Maintenance Needs

**Date Reported:** 03/05/2025

**Priority:** C - Important

**Type of Work:** Superstructure Repair

**Status:** Open

**Component:** Superstructure

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### Deficiency Description

Span 2 bent 3 unit 2 left leg has a hairline to minor sized shear crack through bolted connection.  
Span 2 Bent 3 Unit 4 left leg has a shear crack through bolted connection.

### Remarks

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Span 2 bent 3 unit 2 left leg has a hairline to minor sized shear crack through bolted connection.



Span 2 Bent 3 Unit 4 left leg has a shear crack through bolted connection.

### Maintenance Needs

**Date Reported:** 03/05/2025

**Priority:** C - Important

**Type of Work:** Deck Repair

**Status:** Open

**Component:** Deck

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### Deficiency Description

Shear key grout has cracks and a few scattered spalled areas between units.

### Remarks

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Typical shear key grout spalls at older units.



### Maintenance Needs

**Date Reported:** 03/05/2025

**Priority:** D- Routine

**Type of Work:** Repair (General)

**Status:** Open

**Component:** Superstructure

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### Deficiency Description

Span 1 Bent 1 Unit 1 right leg has a small spall with exposed rebar.  
Span 1 Bent 1 Unit 6 left leg has a 2' honeycomb area exposing 1' of rebar.  
Span 2 unit 3 left leg has a minor honeycomb area exposing 6" of rebar.  
Span 2 Bent 2 Unit 7 left leg has a 1' area of honeycomb with exposed rebar.

### Remarks

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Span 1 Bent 1 Unit 6 left leg has a 2' honeycomb area exposing 1' of rebar



Span 1 Bent 1 Unit 1 right leg small spall with exposed rebar.

## Routine Maintenance

### Check Box Maintenance Items

Type of Maintenance	Is Recommended?
A-54 - Sealable Deck Cracks	No
A-55 - Deck Washing Needed	Yes
A-56 - Joint Cleaning/Flushing Needed	No
A-57 - Beam End and Bearing Paint Needed	No
A-58 - Cap Cleaning/Flushing Needed	No
A-59 - Joint Repair Needed	No
A-60 - Full Beam Painting Needed	No
A-61 - Polymer Overlay Advised	No
A-62 - Hydro and LMC Advised	No
A-63 - Missing/Incorrect Log Mile Signage	No
A-64 - Vegetation Removal Requested	No
A-65 - Clogged deck drains?	
A-66 - Approach minor pothole/leveling needed	

**A-54 - Sealable Deck Cracks (No)**

**A-55 - Deck Washing Needed (Yes)**

**A-56 - Joint Cleaning/Flushing Needed (No)**



**Asset #22976**(Routine)  
**CR 324 - E over CREEK**  
**Location: 3 miles NE of Bono**

**Team Lead:** Richard Jones **Inspection Date:** 03/05/2025

**A-57 - Girder End and Bearing Painting Needed (No)**

**A-58 - Cap Cleaning/Flushing Needed (No)**

**A-59 - Joint Repair Needed (No)**

**A-60 - Full Girder Painting Needed (No)**

**A-61 - Polymer Overlay Advised (No)**

**A-62 - Hydro and LMC Advised (No)**

**A-63 - Missing/Incorrect Log Mile Signage (No)**

**A-64 - Vegetation Removal Requested (No)**

**A-65 - Clogged deck drains?**



**Asset #22976**(Routine)

**CR 324 - E over CREEK**

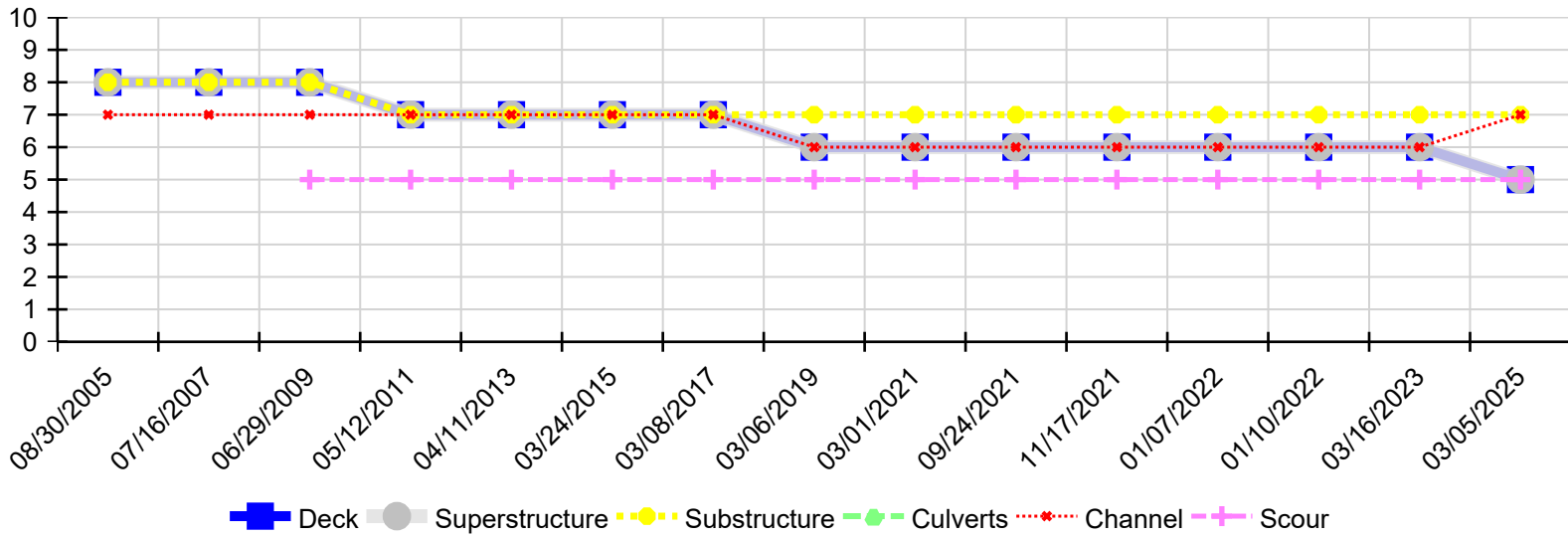
**Location: 3 miles NE of Bono**

**Team Lead:** Richard Jones **Inspection Date:** 03/05/2025

**A-66 - Approach minor pothole/leveling needed**



### Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
03/05/2025	5	5	7	N	7	5
03/16/2023	6	6	7	N	6	5
01/10/2022	6	6	7	N	6	5
01/10/2022	6	6	7	N	6	5
01/07/2022	6	6	7	N	6	5
01/07/2022	6	6	7	N	6	5
11/17/2021	6	6	7	N	6	5
09/24/2021	6	6	7	N	6	5
03/01/2021	6	6	7	N	6	5
03/06/2019	6	6	7	N	6	5
03/08/2017	7	7	7	N	7	5
03/24/2015	7	7	7	N	7	5
04/11/2013	7	7	7	N	7	5
05/12/2011	7	7	7	N	7	5
06/29/2009	8	8	8	N	7	5
07/16/2007	8	8	8	N	7	N
08/30/2005	8	8	8	N	7	N