



Latitude:34.27639, Longitude:-92.70448

Route:324 Section:00 Log:4.199

Arnold Road ID:30xCOUNTRYCLUBRDx1xA, Arnold Log mile:3.801

District 06, 59 - Hot Spring County

Owner: 2 - County Highway Agency

Inspection Direction: 3 - E to W

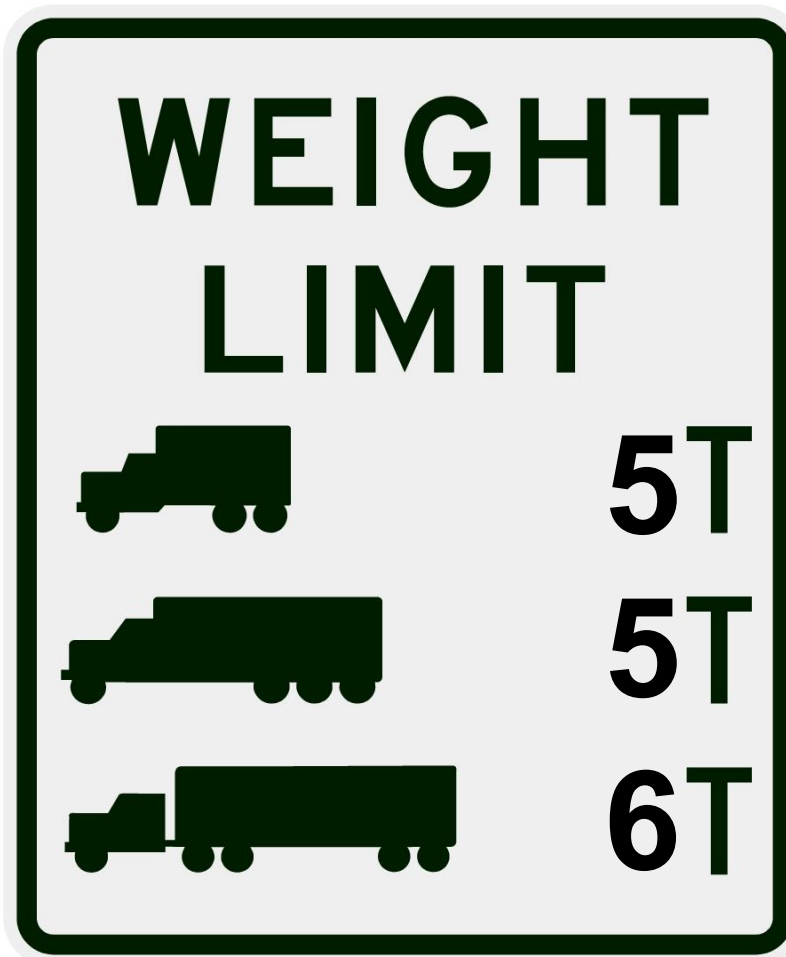
Bridge Posting Information

41 - Structure Open/Posted/Closed: P - Posted for load (may include other restrictions such a temporary bridges which are load posted)

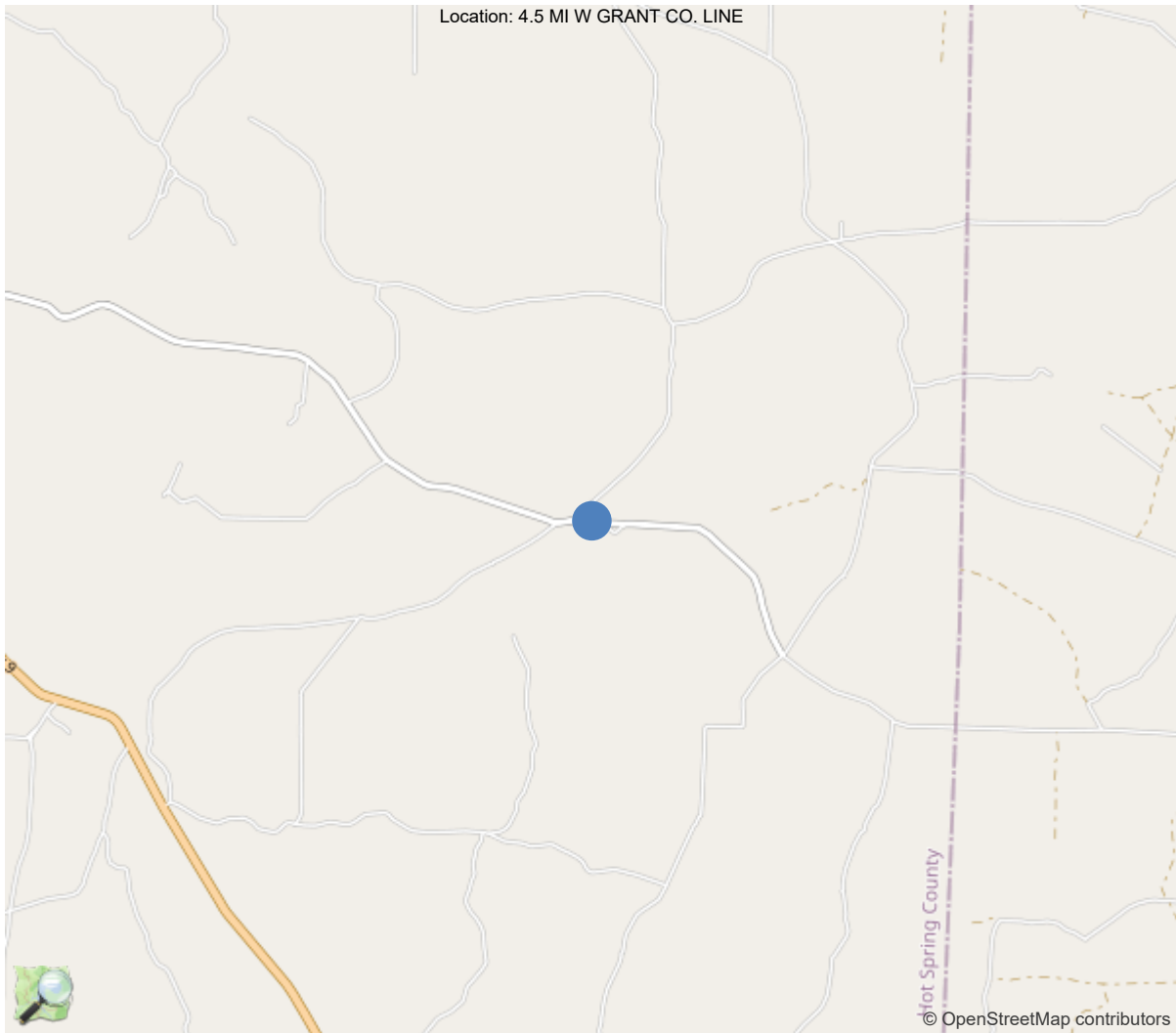
70 - Bridge Posting: 0 - > 39.9% below

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	5	5	5
Code 9 (31 Tons)	5	5	5
Code 5 (40 Tons)	6	6	6

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



34.27639, -92.70448



Asset #20976(Routine, NSTM)

CR324/Country Club over CLEAR CREEK

Location: 4.5 MI W GRANT CO. LINE

Team Lead: Keith Harris Inspection Date: 11/13/2024

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	20976
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	59 - Hot Spring County
(4) Place Code	0
(6) Features Intersected	CLEAR CREEK
(7) Facility Carried	CR324/Country Club
(9) Location	4.5 MI W GRANT CO. LINE
(11) Mile Point	4.199 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.27639
(17) Longitude	-92.70448
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	30
Material	3 - Steel
Type	0 - Other
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	1
(46) No. of Approach Spans	0
(107) Deck Structure Type	5 - Steel plate (includes orth
(108) Wearing Surface/Protective System	
Type of Wearing Surface	6 - Bituminous
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1990
(106) Year Reconstructed	0
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	1
Under	0
(29) Average Daily Traffic	430
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	4 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	43.3 ft
(49) Structure Length	46 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	15.7 ft
(52) Deck Width Out to Out	16.8 ft
(32) Approach Roadway Width (W/Shoulders)	18 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	15.4 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	8 - Rural Minor Collector
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	N - No parallel structure exis
(102) Direction of Traffic	3 - One lane bridge for 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 structu
(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	6
(61) Channel & Channel Protection	5
(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	6
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	3
(70) Bridge Posting	0 - > 39.9% below
(41) Structure Open/Posted/Closed	P - Posted for load (may inclu
APPRAISAL	
(67) Structural Evaluation	
(68) Deck Geometry	2
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	6
(72) Approach Roadway Alignment	6
(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	31 - Replacement of bridge or
(76) Length of Structure Improvement	70 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 109
(96) Total Project Cost	\$ 237
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	388
(115) Year of Future ADT	2007

INSPECTIONS *			
(90) Inspection Date			11/13/2024
(91) Frequency			12
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	Yes	12	11/13/2024
B: Underwater Inspection	No		
C: Other Special Inspection	No		
* 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.			

Team Lead: Keith Harris, Inspection Date: 11/13/2024

IDENTIFICATION	
B.ID.01 Bridge Number	20976
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	13858
B.W.01 Year Built	1990

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	59 - Hot Spring County
B.L.03 Place Code	00000 - N/A
B.L.04 Highway Agency District	06 - District 06
B.L.05 Latitude	34.27639
B.L.06 Longitude	-92.70448
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	4.5 MI W GRANT CO. LINE
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	45.9
B.G.02 Total Bridge Length	45.9
B.G.03 Max Span Length	43.3
B.G.04 Min Span Length	43.3
B.G.05 Bridge Width Out-to-Out	16.7
B.G.06 Bridge Width Curb-to-Curb	15.7
B.G.07 Left Curb or Sidewalk Width	0
B.G.08 Right Curb or Sidewalk Width	0
B.G.09 Approach Roadway Width	18

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	9
B.G.14 Sidehill Bridge	N - Not a sidehill bridge
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	768.5

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	0.08
B.LR.06 Operating Load Rating Factor	0.17
B.LR.07 Controlling Legal Load Rating Factor	
B.LR.08 Routine Permit Loads	

INSPECTION REQUIREMENTS	
B.IR.01 NSTM Inspection Required	Y - NSTM inspection required.
B.IR.02 Fatigue Details	Y - E/E' details are present
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	5 - FAIR - Some moderate defec
B.C.02 Superstructure Condition	5 - FAIR - Some moderate defec
B.C.03 Substructure Condition	6 - SATISFACTORY - Widespread
B.C.04 Culvert Condition	N - NOT APPLICABLE - Component
B.C.05 Bridge Railing Condition	6 - SATISFACTORY - Widespread
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	N - NOT APPLICABLE - Bridge do
B.C.09 Channel Condition Rating	6 - SATISFACTORY - Widespread
B.C.10 Channel Protection Condition	5 - FAIR - Some moderate defec
B.C.11 Scour Condition Rating	7 - Some minor scour.
B.C.12 Bridge Condition Classification	F - Fair
B.C.13 Lowest Condition Rating	5 - FAIR - Some moderate defec
B.C.14 NSTM Insp. Condition	6 - SATISFACTORY - Widespread
B.C.15 UW Inspection Condition	

APPRAISAL	
B.AP.01 Approach Roadway Alignment	F - Fair
B.AP.02 Overtopping Likelihood	1 - Remote - once every 100 years o
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: Keith Harris, Inspection Date: 11/13/2024

SPAN SETS			
M1			
B.SP.02 # of Spans	1	B.SP.08 Deck Interaction	CU - Composite - unshored cons
B.SP.03 # of Beam Lines	2	B.SP.09 Deck Material and Type	S03 - Steel - plate
B.SP.04 Span Material	S02 - Steel - welded	B.SP.10 Wearing Surface	B01 - Bituminous (asphalt)
B.SP.05 Span Continuity	1 - Simple or single span	B.SP.11 Deck Protective System	0 - None
B.SP.06 Span Type	X01 - Other - railroad flat ca	B.SP.12 Deck Reinforcing Protective System	0 - None
B.SP.07 Span Protective System	C01 - Coating - paint	B.SP.13 Deck Stay-In-Place Forms	0 - None

SUBSTRUCTURE SETS			
A1			
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	F01 - Footing - not on rock
B.SB.04 Substructure Type	A08 - Abutment - pile bent wit	B.SB.07 Foundation Protective System	0 - None
A1			
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	F02 - Footing - on rock
B.SB.04 Substructure Type	A01 - Abutment - cantilever/wa	B.SB.07 Foundation Protective System	0 - None

HIGHWAY FEATURES			
H1			
B.F.02 Feature Location	C - Carried on bridge	B.H.09 Annual ADT	430
B.F.03 Feature Name	CR324/Country Club	B.H.10 Annual ADTT	4
B.H.01 Functional Classification	6 - Minor Collector	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	15
B.H.07 LRS Mile Point	4.199	B.H.17 Bypass Detour Length	4
B.H.08 Lanes On Highway	1	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	R01	324	2-T - TEMP - Two-way traffic - NS or EW	4 - County route	1 - Mainline



Team Lead: Keith Harris, Inspection Date: 11/13/2024

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	Clear 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
PP-T - TEMP - Permanent or tem	

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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General Observation

Logged westbound

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

Wearing surface has small potholes, patches and large cracks.

Steel deck has active corrosion and with section loss.

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

Both cars have minor pitting to center sills. Bent 1, left car: both left and right car center sills are notched to fit the abutment.

Special attention was given to these coped areas.

60 - Substructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Bent 1 timber cribbing has severe decay allowing embankment to spill through.

Bent 2 has about 4 feet of footing exposed on the left side (upstream) but not undermined.

A-19 - Code 4 (Beginning) (5)

-

A-20 - Code 4 (End) (5)

-

A-55 - Deck Washing Needed (Y)

Debris in both gutters

B.C.14 - NSTM Inspection Condition (6 - SATISFACTORY - Widespread minor or isolated moderate defects.)

Both cars have minor pitting to center sills.

Bent 1, left car: both left and right car center sills are notched to fit the abutment.

Special attention was given to these coped areas.



Elevation



Inventory looking west



Load posting looking west



Load posting looking east



Deck overview



Under surface



NSTM



Left car 10' away from bent 1, active corrosion with section loss.



11/20/2023

Multiple pot holes in the asphalt overlay



11/16/2023

Bent 1, left car: both left and right car center sills are notched to fit the abutment. Special attention was these coped areas.



11/13/2024

Bent 1, timber cribbing: severe decay allowing embankment to spill through. 2024



11/13/2024

Upstream channel



Downstream channel



Debris in both gutters

Maintenance Needs

Date Reported: 11/02/2016

Priority: C - Important

Type of Work: Substructure Repair

Status: Monitor

Component: Substructure

Deficiency Description

Bent 1, the timber cribbing has severe decay. Embankment is beginning to spill through the decayed cribbing.

Remarks



Bent 1: timber cribbing has rotted to where backfill is
spilling through
2024



Bent 1: timber cribbing has rotted to where backfill is
spilling through
2024



Bent 2, timber cribbing: severe decay allowing
embankment to spill through. 2023



Bent 1: timber cribbing has rotted to where backfill is
spilling through
2022



Bent 1, the timber cribbing has severe decay. Embankment is beginning to spill through the decayed cribbing.



Bent 1 timber cribbing has severe decay allowing embankment to spill through.



Bent 1 timber cribbing has severe decay.



Bent 1 timber cribbing, severe decay allowing embankment to spill through.



Asset #20976(Routine, NSTM)

CR324/Country Club over CLEAR CREEK

Location: 4.5 MI W GRANT CO. LINE

Team Lead: Keith Harris Inspection Date: 11/13/2024

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	Yes
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-54 - Sealable Deck Cracks (No)

A-55 - Deck Washing Needed (Yes)

Debris in both gutters



Debris in both gutters

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

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 (Yes)

A-61 - Polymer Overlay Advised (No)



Asset #20976(Routine, NSTM)
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Location: 4.5 MI W GRANT CO. LINE
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A-62 - Hydro and LMC Advised (No)

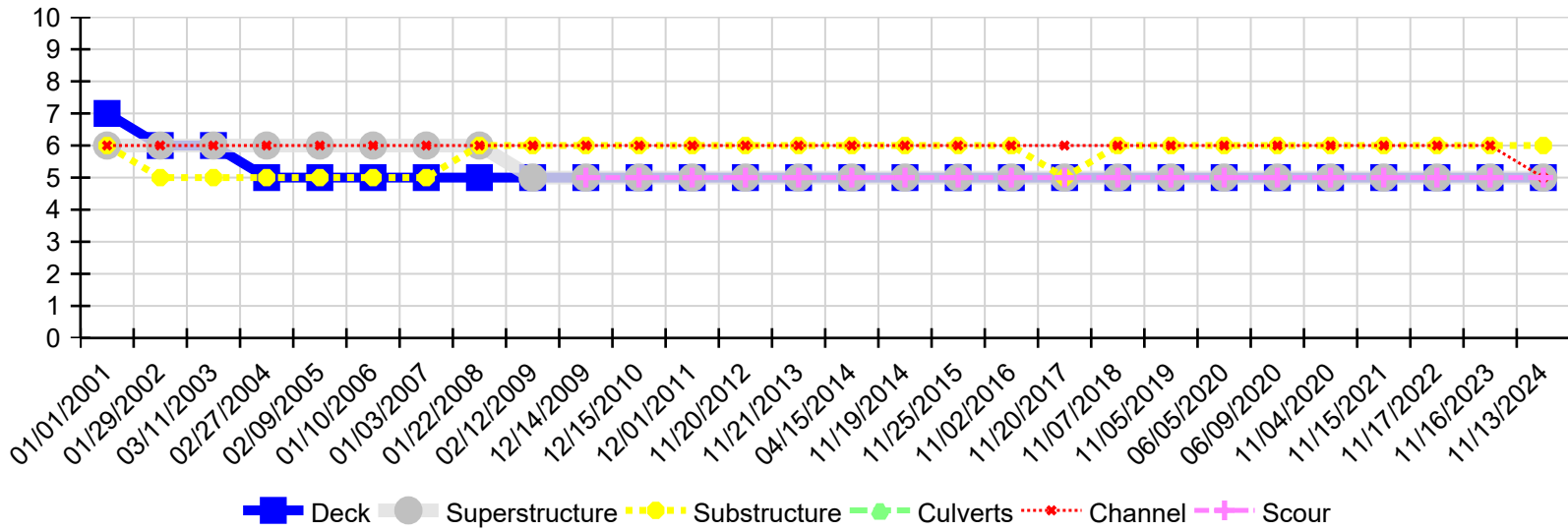
A-63 - Missing/Incorrect Log Mile Signage (No)

A-64 - Vegetation Removal Requested (No)



Asset #20976(Routine, NSTM)
CR324/Country Club over CLEAR CREEK
Location: 4.5 MI W GRANT CO. LINE
Team Lead: Keith Harris Inspection Date: 11/13/2024

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
11/13/2024	5	5	6	N	5	5
11/16/2023	5	5	6	N	6	5
11/17/2022	5	5	6	N	6	5
11/15/2021	5	5	6	N	6	5
11/04/2020	5	5	6	N	6	5
06/09/2020	5	5	6	N	6	5
06/05/2020	5	5	6	N	6	5
11/05/2019	5	5	6	N	6	5
11/07/2018	5	5	6	N	6	5
11/20/2017	5	5	5	N	6	5
11/02/2016	5	5	6	N	6	5
11/25/2015	5	5	6	N	6	5
11/19/2014	5	5	6	N	6	5
04/15/2014	5	5	6	N	6	5
11/21/2013	5	5	6	N	6	5
11/20/2012	5	5	6	N	6	5
12/01/2011	5	5	6	N	6	5
12/15/2010	5	5	6	N	6	5
12/14/2009	5	5	6	N	6	5
02/12/2009	5	5	6	N	6	N
01/22/2008	5	6	6	N	6	N
01/03/2007	5	6	5	N	6	N
01/10/2006	5	6	5	N	6	N
02/09/2005	5	6	5	N	6	N
02/27/2004	5	6	5	N	6	N
03/11/2003	6	6	5	N	6	N
01/29/2002	6	6	5	N	6	N



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CR324/Country Club over CLEAR CREEK

Location: 4.5 MI W GRANT CO. LINE

Team Lead: Keith Harris Inspection Date: 11/13/2024

Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
01/01/2001	7	6	6	N	6	N



Asset #20976(Routine, NSTM)
CR324/Country Club over CLEAR CREEK

Location: 4.5 MI W GRANT CO. LINE

Team Lead: Keith Harris Inspection Date: 11/13/2024

NSTM Inspection Report and Procedure **Bridge No. 20976 4.5 MI W GRANT CO. LINE**

A-128 - Description of Structure

Bridge # 20976

This bridge was built in 1990 with two-used railroad cars with one end cut off, placed side by side, and has one span.

The NSTM's are the bottom flanges and webs of the center sills on both cars. These members can be accessed from the streambed below the cars.

The tension members are inspected "hands on and visually" using a wire brush and flashlight as needed for defects and cracks. Rail car bridges are many times made with the use of salvaged and repurposed rail cars. These railcars may have been damaged prior or during installation. Welded connection and any damaged area will be examined closely for any potential cracks.

A-129 - Range Of Dates, Personnel and Responsibilities

11/13/24

Keith Harris - Team Leader

Shawn Vergason - Assistant

All members were inspected hands on by both the team lead and the assistant inspector.

A-130 - Access Equipment

No equipment was needed to inspect this bridge. It was accessible to inspect from the creek.

B.IR.02 - Fatigue Prone Details

Y - E/E' details are present

B.C.14 - NSTM Inspection Condition

6 - SATISFACTORY - Widespread minor or isolated moderate defects.

Both cars have minor pitting to center sills.

Bent 1, left car: both left and right car center sills are notched to fit the abutment.

Special attention was given to these coped areas.

B.IR.04 - Complex Feature

N - Bridge does not have complex feature

Reference Photos:



NSTM



Asset #20976(Routine, NSTM)
CR324/Country Club over CLEAR CREEK
Location: 4.5 MI W GRANT CO. LINE
Team Lead: Keith Harris Inspection Date: 11/13/2024

Bridge #20976 NSTM Member Inspection Log			
Member or Element (NSTM)	Access Equipment	Condition Rating	General Condition Notes
Center sill	N/A	6	Both cars have minor pitting to center sills. Bent 1, left car: both left and right car center sills are notched to fit the abutment. Special attention was given to these coped areas.

NSTM specific defect notes

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Asset #20976(Routine, NSTM)
CR324/Country Club over CLEAR CREEK
Location: 4.5 MI W GRANT CO. LINE
Team Lead: Keith Harris Inspection Date: 11/13/2024

Signatures

Signature

Printed Name

Date

Shawn Vergason

Shawn Vergason

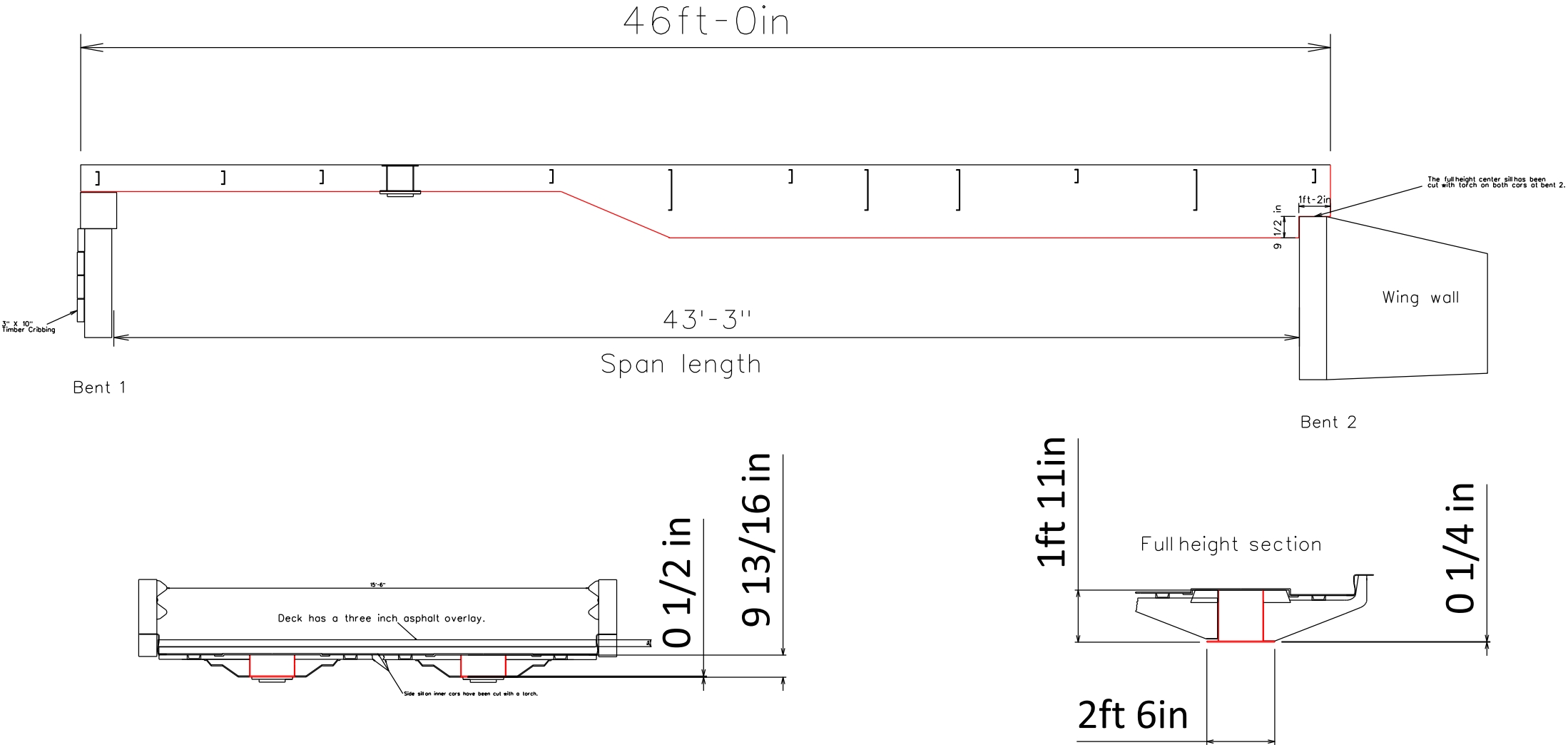
11/14/2024

Keith Harris

(Team Lead) Keith Harris

11/14/2024

10' Scale



NSTM in Red

ARKANSAS STATE HIGHWAY COMMISSION
Little Rock, ARK.

Scale: 1"=5'

Inspection Dir: E to W	Channel Flow: Edit
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BRIDGE NO. 20976	
Drawn By: Edit	Project: Edit
Checked By: Edit	Date: 11/30/2015

