



Latitude:34.49078, Longitude:-93.27590

Route:227 Section:00 Log:6.04

Arnold Road ID:26x227x0xA, Arnold Log mile:6.026

District 06, 51 - Garland County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

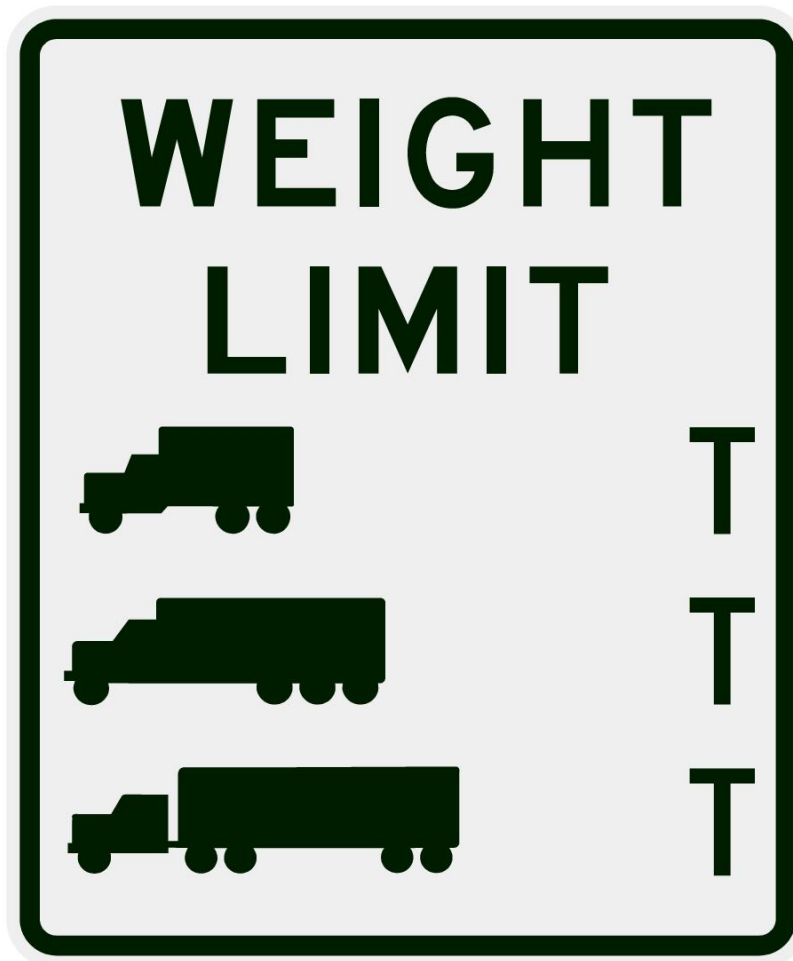
Bridge Posting Information

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

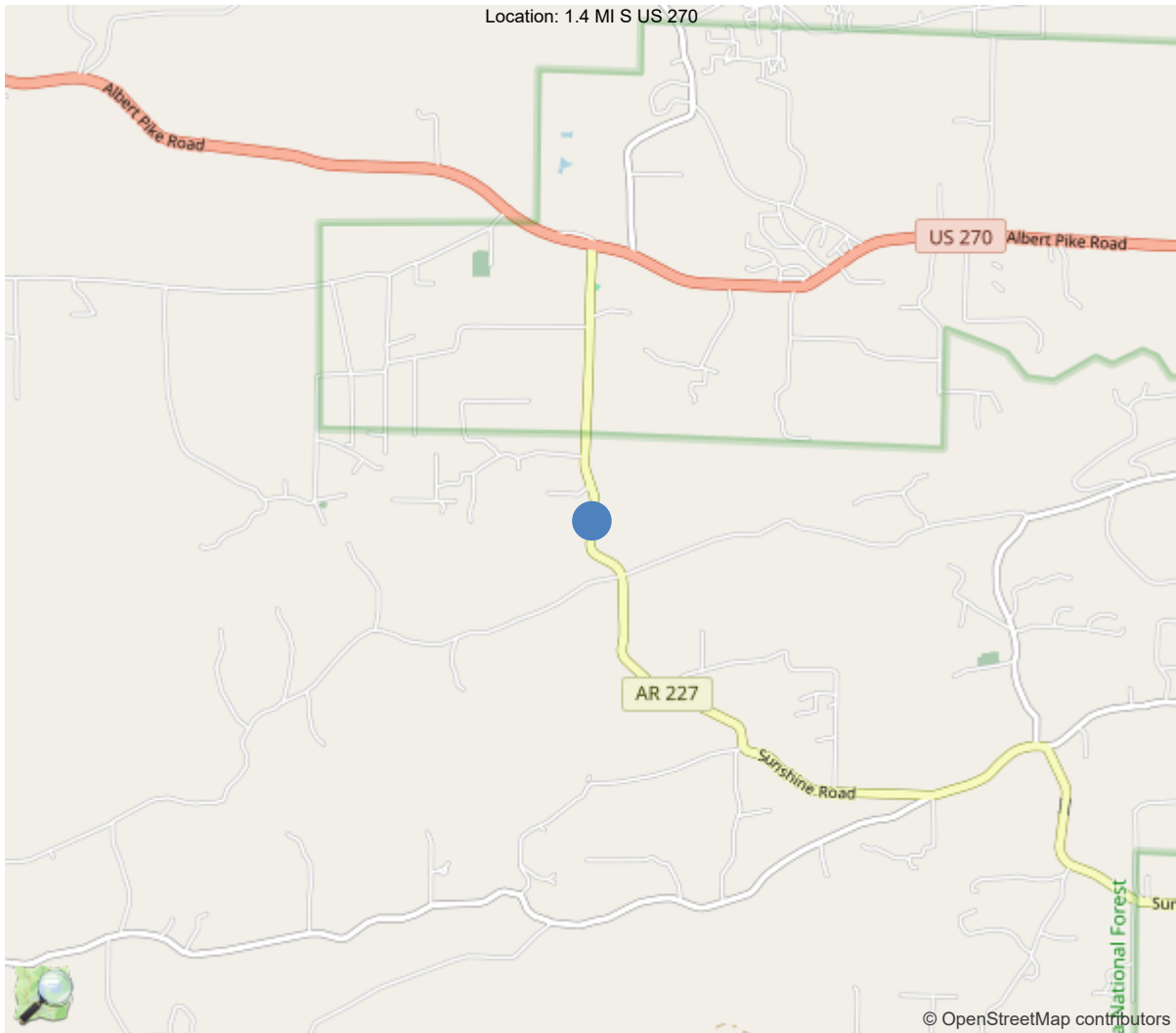
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	25		
Code 9 (31 Tons)	31		
Code 5 (40 Tons)	45		

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



34.49078, -93.27590



Asset #M2413(Routine, Underwater type 2)
SH 227 Log 6.04 over HALLMAN CREEK RELIEF
Location: 1.4 MI S US 270

Team Lead: Chris Doggett Inspection Date: 08/16/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	M2413
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	51 - Garland County
(4) Place Code	0
(6) Features Intersected	HALLMAN CREEK RELIEF
(7) Facility Carried	SH 227 Log 6.04
(9) Location	1.4 MI S US 270
(11) Mile Point	6.04 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.49078
(17) Longitude	-93.2759
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	21
Material	2 - Concrete continuous
Type	1 - Slab
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	3
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(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	1950
(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	1821
(30) Year of ADT	2018
(109) Truck ADT	6 %
(19) Bypass, Detour Length	10 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	14.3 ft
(49) Structure Length	46 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	21.2 ft
(52) Deck Width Out to Out	22.2 ft
(32) Approach Roadway Width (W/Shoulders)	22 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	21.8 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	7 - Rural Major Collector
(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	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	2 - Bridge is eligible for the
CONDITION	
(58) Deck	5
(59) Superstructure	5
(60) Substructure	6
(61) Channel & Channel Protection	6
(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	33
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	20
(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	2
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	6
(72) Approach Roadway Alignment	8
(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 to
PROPOSED IMPROVEMENTS	
(75) Type of Work	31 - Replacement of bridge or
(76) Length of Structure Improvement	71 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 117
(96) Total Project Cost	\$ 257
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	2103
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	08/16/2023		
(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		
* 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.			



Asset #M2413(Routine, Underwater type 2)
SH 227 Log 6.04 over HALLMAN CREEK RELIEF

Location: 1.4 MI S US 270

Team Lead: Chris Doggett **Inspection Date:** 08/16/2023

General Observation

-Logged North bound.
Soundings taken 08/16/2023

58 - Deck (5 - FAIR CONDITION - all primary structural elements are sound but may have minor section loss, cracking, spalling or scour.)
Deck with an asphalt overlay. The soffit with multiple cracks and cracks with efflorescence staining.

60 - Substructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)
All footings are exposed.

61 - Channel/Channel Protection (6 - Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly.)
Soundings taken 08/16/2021. MSB



Elevation



Bent 4: right wing wall is cracked.



Span 3 multiple spalls to the soffit



Span 2: left edge of slab has 9' delam.



08/16/2023

Channel looking down stream



08/16/2023

Channel looking upstream



08/16/2023

Spans 2&3: right side of slab is cracked with efflorescence staining



08/16/2023

Span 1: large crack at center line.



Deck view



Deck view



Inventory looking north

Maintenance Needs

Date Reported: 08/17/2021

Priority: C - Important

Type of Work: Repair (General)

Status: Forward State

Component: Miscellaneous

Deficiency Description

Wooden bridge rail posts are rotten and hollowing.

Remarks



First post is rotten



Wooden bridge rail posts are rotten and hollowing.



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	Yes
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)



Deck view

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 (No)

A-61 - Polymer Overlay Advised (No)



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Team Lead: Chris Doggett Inspection Date: 08/16/2023

A-62 - Hydro and LMC Advised (Yes)

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

A-64 - Vegetation Removal Requested (No)

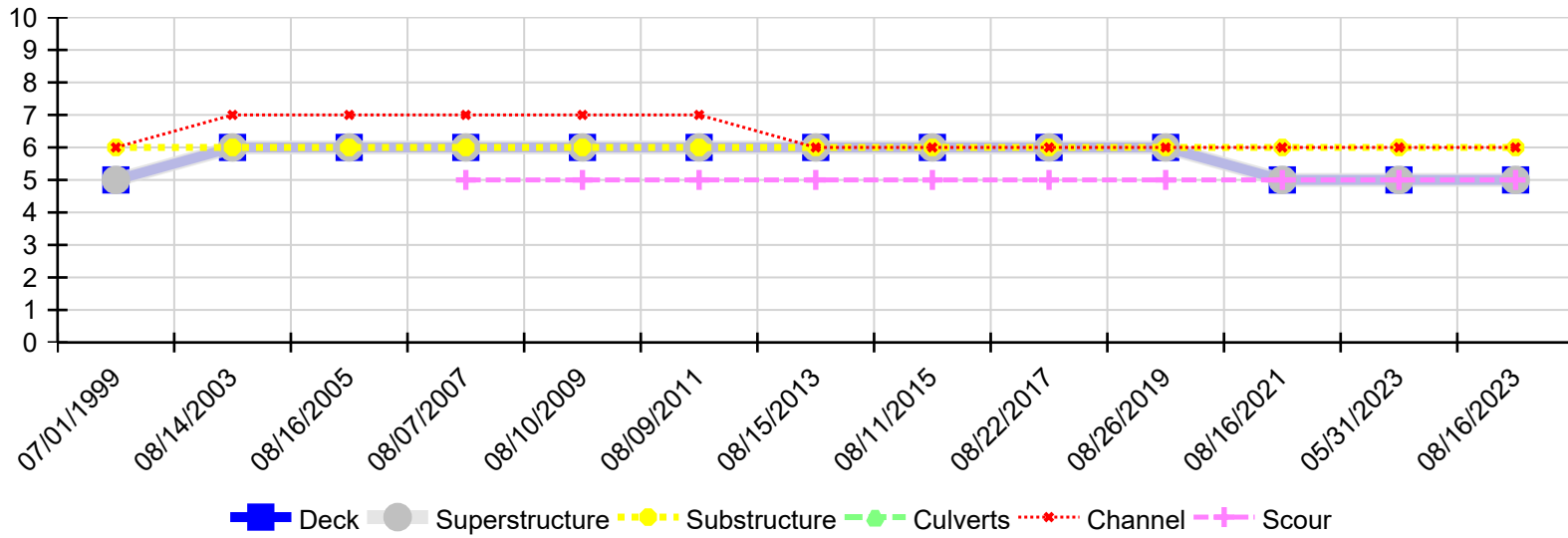


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Location: 1.4 MI S US 270

Team Lead: Chris Doggett Inspection Date: 08/16/2023

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
08/16/2023	5	5	6	N	6	5
05/31/2023	5	5	6	N	6	5
08/16/2021	5	5	6	N	6	5
08/26/2019	6	6	6	N	6	5
08/22/2017	6	6	6	N	6	5
08/11/2015	6	6	6	N	6	5
08/15/2013	6	6	6	N	6	5
08/09/2011	6	6	6	N	7	5
08/10/2009	6	6	6	N	7	5
08/07/2007	6	6	6	N	7	5
08/16/2005	6	6	6	N	7	N
08/14/2003	6	6	6	N	7	N
07/01/1999	5	5	6	N	6	N