



Latitude:34.08560, Longitude:-93.00322

Route:7 Section:06 Log:8.66

Arnold Road ID:10x7x6xA, Arnold Log mile:8.641

District 07, 19 - Clark County

Owner: 1 - State Highway Agency

Bridge Posting Information

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

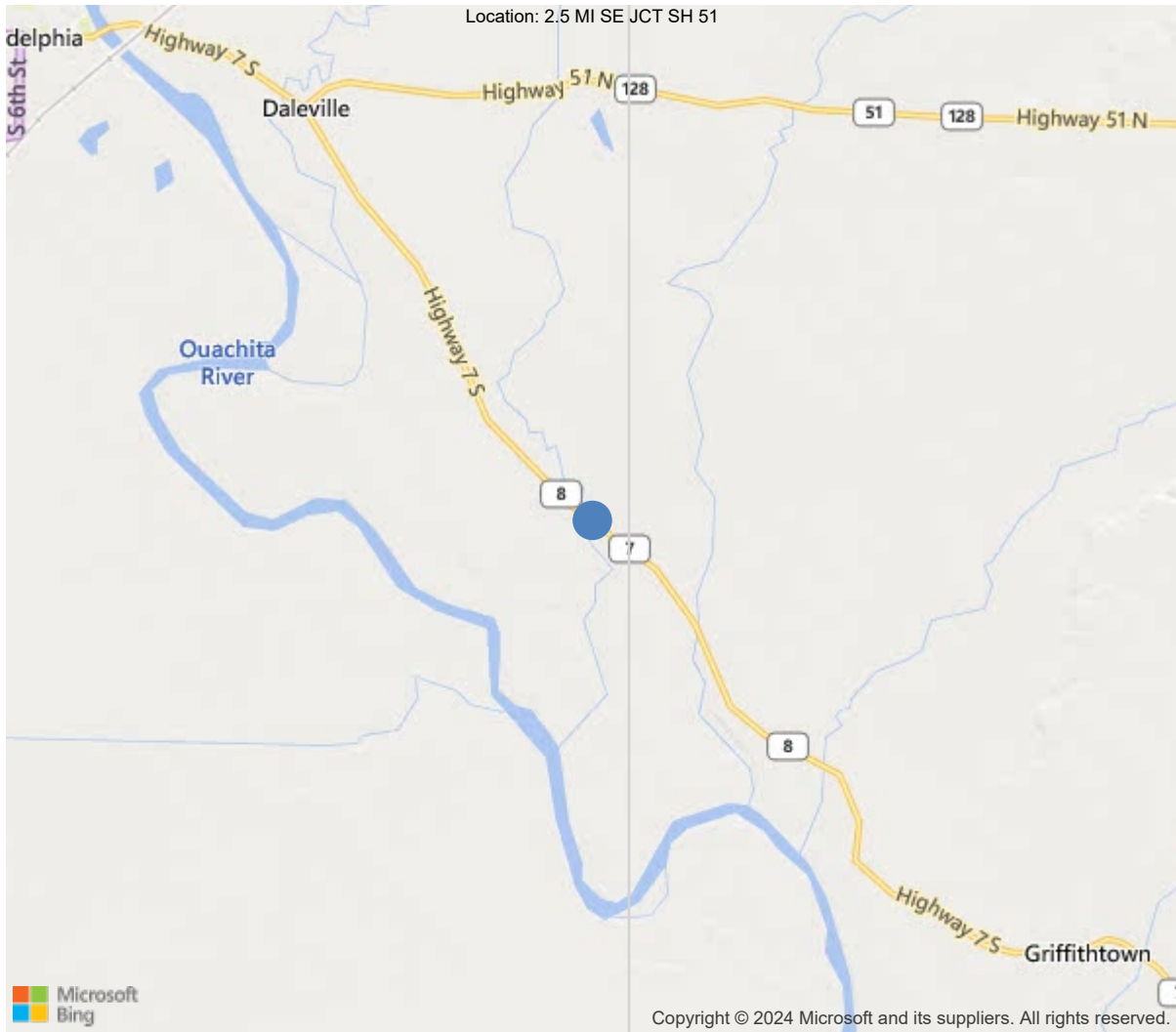
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	27		
Code 9 (31 Tons)	31		
Code 5 (40 Tons)	41		

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



34.08560, -93.00322



Asset #M0180(Routine)

SH 7 S-6 LM 8.66 over TUPELO CR.

Location: 2.5 MI SE JCT SH 51

Team Lead: Rickie Bratton, Inspection Date: 01/10/2024

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	M0180
(5) Inventory Route	1
(2) Highway Agency District	07 - District 07
(3) County Code	19 - Clark County
(4) Place Code	0
(6) Features Intersected	TUPELO CR.
(7) Facility Carried	SH 7 S-6 LM 8.66
(9) Location	2.5 MI SE JCT SH 51
(11) Mile Point	8.66 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000007060
(16) Latitude	34.0856
(17) Longitude	-93.00322
(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	5
(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	1956
(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	1700
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	12 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	19 ft
(49) Structure Length	95 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	25.1 ft
(32) Approach Roadway Width (W/Shoulders)	30.8 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	25.6 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	99.9 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	6 - Rural Minor Arterial
(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	5 - Bridge is not eligible for
CONDITION	
(58) Deck	6
(59) Superstructure	5
(60) Substructure	6
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2 - M 13.5 / H 15
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	36
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	22
(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	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	7
(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 to
PROPOSED IMPROVEMENTS	
(75) Type of Work	31 - Replacement of bridge or
(76) Length of Structure Improvement	122 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 156
(96) Total Project Cost	\$ 445
(97) Year of Improvement Cost Estimate	2002
(114) Future ADT	1810
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	01/10/2024		
(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.			



General Observation

-

58 - Deck (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Satisfactory Condition - Several small spalls, cracks and exposed steel. Minor section loss

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

Fair Condition -

Several short spalls, cracks and exposed steel in the PC Units, with minor section loss.

Span 1 units 2,6 exposed rebar.

Span 2 units 1,7 exposed rebar

Span 3 units 2,3 exposed rebar.

Span 4 unit 7 exposed rebar. Units 1,3 delams.

Span 5 unit 4 exposed rebar.

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

Satisfactory condition -

Minor chips / spalls, exposed steel some moderate section loss to several of the caps.

Bent 2 cap bottom exposed rebar.

Bent 3 cap bottom rebar.

Bent 4 cap bottom rebar.

Bent 5 cap bottom rebar. Ahead spalls.



Asset #M0180(Routine)

SH 7 S-6 LM 8.66 over TUPELO CR.

Location: 2.5 MI SE JCT SH 51

Team Lead: Rickie Bratton, Inspection Date: 01/10/2024

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	2384	2384	0	0	0
510	Wearing Surfaces	SF	2280	1364	0	916	0
3210	Delam/Spall/Patched Area/Pothole	SF	4	0	0	4	0
3220	Crack (Wearing Surface)	SF	912	0	0	912	0
(16) 02/06/2018 JPR -- Reinforced Concrete Top Flange has an AC Overlay. There are numerous cracks in the wearing surface, approx. (2280 x 0.40 = 912 sq. ft.)							
110	Reinforced Concrete Open Girder/Beam	LF	1330	1222	35	73	0
1080	Delamination/Spall/Patched Area	LF	15	0	15	0	0
1090	Exposed Rebar	LF	43	0	0	43	0
1130	Cracking (RC and Other)	LF	50	0	20	30	0
(110) Several short spalls, cracks and exposed steel. Minor section loss.							
216	Timber Abutment	LF	50	0	50	0	0
4000	Settlement	LF	50	0	50	0	0
(216) Rotation, timber backwalls sound..							
228	Timber Pile	EA	30	28	0	2	0
1140	Decay/Section Loss	EA	2	0	0	2	0
(228) Pile 1 at bents 1 and 5 are hollow with inside decay.							
234	Reinforced Concrete Pier Cap	LF	151	125	0	26	0
1080	Delamination/Spall/Patched Area	LF	2	0	0	2	0
1090	Exposed Rebar	LF	24	0	0	24	0
(234) Minor chips / spalls, exposed steel some moderate section loss.							
(1090-234) Bent 2 cap bottom rebar. Bent 3vcap bottom rebar. Bent 4 cap bottom rebar.							
330	Metal Bridge Railing	LF	190	190	0	0	0



Team Lead: Rickie Bratton, Inspection Date: 01/10/2024

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4
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Superstructure

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1080	Delamination/Spall/Patched Area	LF	15	0	15	0	0
1090	Exposed Rebar	LF	43	0	0	43	0
1130	Cracking (RC and Other)	LF	50	0	20	30	0
(110) Several short spalls, cracks and exposed steel. Minor section loss.							

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Location: 2.5 MI SE JCT SH 51

Team Lead: Rickie Bratton, Inspection Date: 01/10/2024

Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
216	Timber Abutment	LF	50	0	50	0	0
4000	Settlement	LF	50	0	50	0	0
(216) Rotation, timber backwalls sound..							
228	Timber Pile	EA	30	28	0	2	0
1140	Decay/Section Loss	EA	2	0	0	2	0
(228) Pile 1 at bents 1 and 5 are hollow with inside decay.							
234	Reinforced Concrete Pier Cap	LF	151	125	0	26	0
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1090	Exposed Rebar	LF	24	0	0	24	0
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Bent 4 cap bottom rebar.							

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Comment: Satisfactory condition -

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Bent 4 cap bottom rebar.

Bent 5 cap bottom rebar. Ahead spalls.



Deck overview.



Span 5 soffit overview.



Spall in asphalt wearing surface



Span 1 unit 6 exposed rebar right leg.



Elevation



Approach roadway Northbound



Approach roadway Northbound.



Deck overview



Deck overview.



Abutment 1 pile 1



Soffit span 2



Span 1, unit 6, left leg, section loss to rebar.



Soffit span 3 overview.



Elevation



Elevation.



Span 3 units 2 and 3 legs have spalls with exposed rebar.

Maintenance Needs

Date Reported: 01/31/2018

Priority: C - Important

Type of Work: (Inactive) (Inactive) 9 - None

Status: Monitor

Component:

Deficiency Description

Bent 1 Pile 1 hollow & outer shell has split vertically @ the backwall, & the section of shell behind the backwall has slid inside the section outside the backwall. There is about 1 1/2" of shell at this point, this is a 5 pile bent.

Remarks



Bent 1 Pile 1 hollow & outer shell has split vertically @ the backwall.

Maintenance Needs

Date Reported: 02/04/2020

Priority: C - Important

Type of Work: Replace (General)

Status: Monitor

Component: Substructure

Deficiency Description

Bent 1 pile 1 and bent 5 pile 1 hollow with inside decay,

Remarks



Bent 1 pile 1 is hollow.



Abutment 1 pile 1 inside decay

Maintenance Needs

Date Reported: 01/11/2022

Priority: C - Important

Type of Work: (Inactive) (Inactive) 1 - Clean

Status: Open

Component:

Deficiency Description

Log and drift against pile 5 bents 4&5 restricting flow of water.

Remarks

Debris has been removed



Debris has been removed



Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	
A-56 - Joint Cleaning/Flushing Needed	
A-57 - Beam End and Bearing Paint Needed	
A-58 - Cap Cleaning/Flushing Needed	
A-59 - Joint Repair Needed	
A-60 - Full Beam Painting Needed	
A-61 - Polymer Overlay Advised	
A-62 - Hydro and LMC Advised	
A-63 Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	

A-54 - Sealable Deck Cracks

A-55 - Deck Washing Needed

A-56 - Joint Cleaning/Flushing Needed



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A-57 - Beam End and Bearing Painting Needed

A-58 - Cap Cleaning/Flushing Needed

A-59 - Joint Repair Needed

A-60 - Full Beam Painting Needed

A-61 - Polymer Overlay Advised

A-62 - Hydro and LMC Advised

A-63 - Missing/Incorrect Log Mile Signage

A-64 - Vegetation Removal Requested



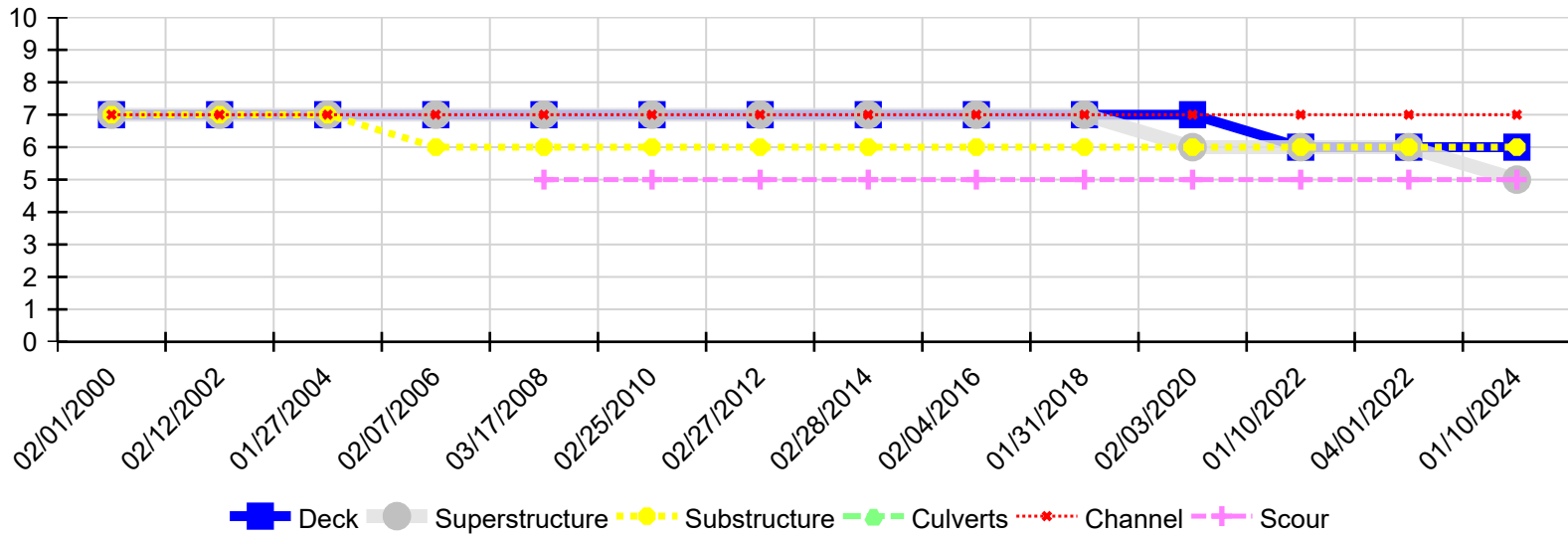
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Team Lead: Rickie Bratton, Inspection Date: 01/10/2024

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
01/10/2024	6	5	6	N	7	5
04/01/2022	6	6	6	N	7	5
01/10/2022	6	6	6	N	7	5
02/03/2020	7	6	6	N	7	5
01/31/2018	7	7	6	N	7	5
02/04/2016	7	7	6	N	7	5
02/28/2014	7	7	6	N	7	5
02/27/2012	7	7	6	N	7	5
02/25/2010	7	7	6	N	7	5
03/17/2008	7	7	6	N	7	5
02/07/2006	7	7	6	N	7	N
01/27/2004	7	7	7	N	7	N
02/12/2002	7	7	7	N	7	N
02/01/2000	7	7	7	N	7	N