



Latitude:34.67683, Longitude:-91.55521

Route:63 Section:11 Log:10.7

Arnold Road ID:59x63x11xA, Arnold Log mile:10.753

District 06, 117 - Prairie County

Owner: 1 - State Highway Agency

Bridge Posting Information

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

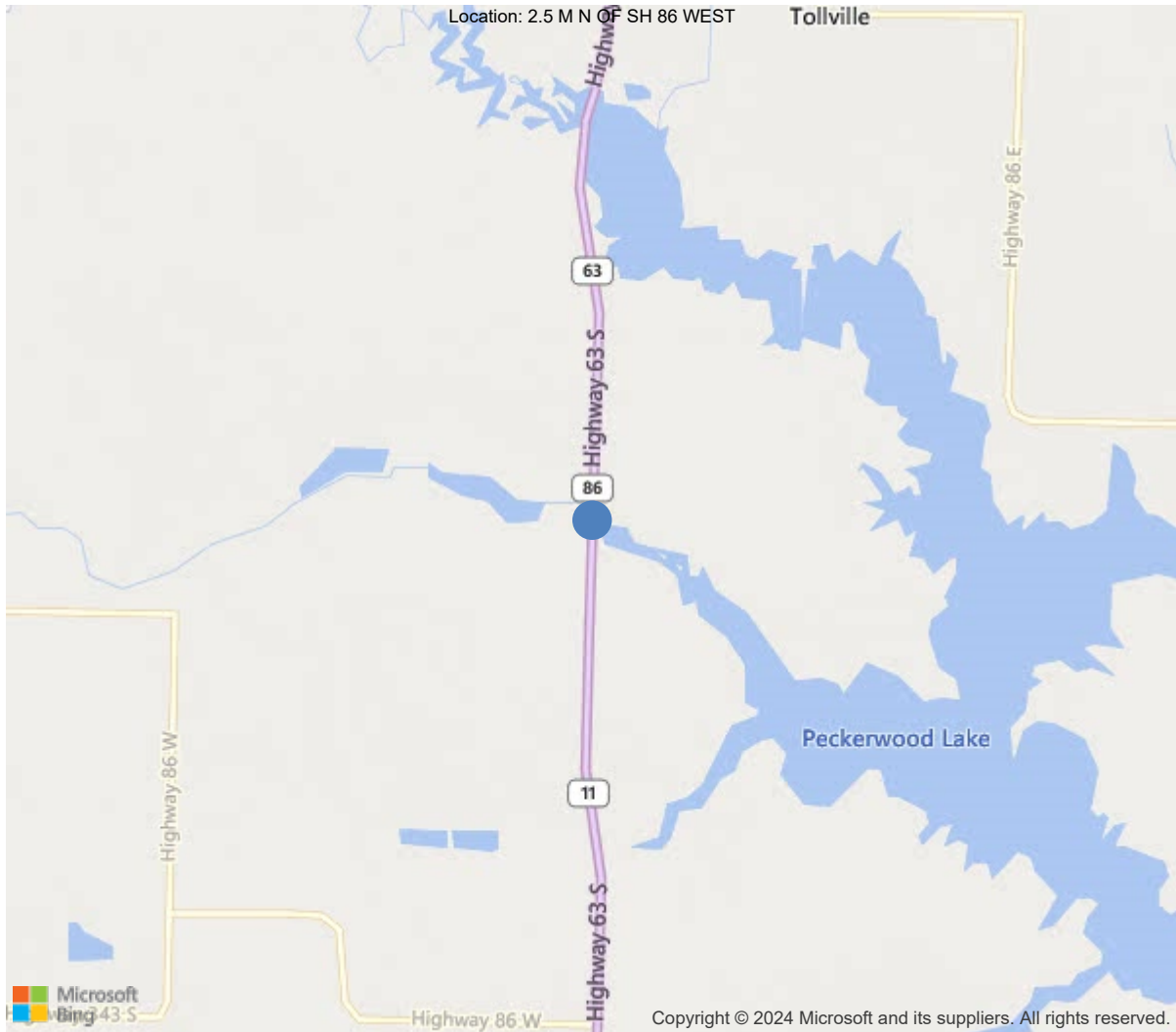
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	31		
Code 9 (31 Tons)	37		
Code 5 (40 Tons)	48		

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



34.67683, -91.55521



Asset #01858(Routine)

US 63 Log 10.07 over WOLF BAYOU

Location: 2.5 M N OF SH 86 WEST

Team Lead: Bryan Saunders, Inspection Date: 06/07/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	01858
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	117 - Prairie County
(4) Place Code	0
(6) Features Intersected	WOLF BAYOU
(7) Facility Carried	US 63 Log 10.07
(9) Location	2.5 M N OF SH 86 WEST
(11) Mile Point	10.7 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000063110
(16) Latitude	34.67683
(17) Longitude	-91.55521
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	32
Material	3 - Steel
Type	2 - Stringer/Multi-beam or girder
(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	1934
(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	3700
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	8 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	76 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	25.5 ft
(32) Approach Roadway Width (W/Shoulders)	29.9 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	24 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	5
(59) Superstructure	4
(60) Substructure	5
(61) Channel & Channel Protection	6
(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	51
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	31
(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	7
(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	102 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 156
(96) Total Project Cost	\$ 402
(97) Year of Improvement Cost Estimate	2002
(114) Future ADT	4362
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	06/07/2023		
(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.			



General Observation

Special inspection required due NBI rating of 4 for item 59.

See repair and section loss sketches.

Small boat required for inspection.

Logged south bound.

Channel profile added 6/21

A-55 - Deck Washing Needed (Y)

gravel build up and grass growing in gutter line

A-56 - Joint Cleaning/Flushing Needed (Y)

joint seals are missing allowing asphalt and debris to fall on cap

A-57 - Beam End and Bearing Painting Needed (Y)

beam end have corrosion and pitting



Asset #01858(Routine)

US 63 Log 10.07 over WOLF BAYOU

Location: 2.5 M N OF SH 86 WEST

Team Lead: Bryan Saunders, Inspection Date: 06/07/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	1836	1166	364	306	0
1080	Delamination/Spall/Patched Area	SF	146	0	64	82	0
1090	Exposed Rebar	SF	124	0	0	124	0
1120	Efflorescence/Rust Staining	SF	100	0	0	100	0
1130	Cracking (RC and Other)	SF	300	0	300	0	0
510	Wearing Surfaces	SF	1800	1455	325	20	0
3210	Delam/Spall/Patched Area/Pothole	SF	20	0	0	20	0
3220	Crack (Wearing Surface)	SF	325	0	325	0	0
(12) The bottom of the deck has numerous Spalls with exposed rebar, transverse cracks and rust stains in all spans. (510-12) Potholes over joints							
107	Steel Open Girder/Beam	LF	383	0	127	249	7
1000	Corrosion	LF	383	0	127	249	7
515	Steel Protective Coating	SF	2033	0	600	978	455
3440	Effectiveness (Steel Protective Coatings)	LF	2033	0	600	978	455
(107) All beams have active rust with areas of flaking rust on the top and bottom flanges. Bent 1 span beams 2,3,4,Bent 2 span 2 beams 2,3,Bent 3 span 2 beam 2,3,4,Bent 3 span 3 beams 1,2,3,4,Bent 4 span 3 beams 1,2 have section loss up to 1/4" deep at bearing area. Span 1 beam 2 at bent 2 has a 1" hole in the upper web. Several beam end have section loss repairs. See repairs and section loss sketch. Bent 3 span 2 beam 1 bottom flange is down to a knives edge							
215	Reinforced Concrete Abutment	LF	96	60	30	6	0
1080	Delamination/Spall/Patched Area	LF	6	0	0	6	0
1130	Cracking (RC and Other)	LF	30	0	30	0	0
(215) Both abutments have random cracks..							
227	Reinforced Concrete Pile	EA	8	0	0	8	0
1190	Abrasion/Wear (PSC/RC)	EA	8	0	0	8	0
(227) all pile have abrasion (1190-227) All pile have heavy coarse abrasion							
234	Reinforced Concrete Pier Cap	LF	48	0	44	4	0
1080	Delamination/Spall/Patched Area	LF	34	0	34	0	0
1090	Exposed Rebar	LF	4	0	0	4	0
1130	Cracking (RC and Other)	LF	10	0	10	0	0

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	1836	1166	364	306	0
1080	Delamination/Spall/Patched Area	SF	146	0	64	82	0
1090	Exposed Rebar	SF	124	0	0	124	0
1120	Efflorescence/Rust Staining	SF	100	0	0	100	0
1130	Cracking (RC and Other)	SF	300	0	300	0	0
510	Wearing Surfaces	SF	1800	1455	325	20	0
3210	Delam/Spall/Patched Area/Pothole	SF	20	0	0	20	0
3220	Crack (Wearing Surface)	SF	325	0	325	0	0
(12) The bottom of the deck has numerous Spalls with exposed rebar, transverse cracks and rust stains in all spans.							
(510-12) Potholes over joints							



Elevation



Approach looking south



Span 2 between beam 1 and 2





Deck view



Heavy abrasion to piles at bents 2 and 3



Bent 4 beam 1 lower flange and bottom of the web has pitting up to 3/16"



T-splice repair span 2 beam 5



bearing at Beam 4 at bent 4 laminating rust



Bent 2 sp1 bm 2 hole in upper web

Maintenance Needs

Date Reported: 06/20/2017

Priority: B - Pressing

Type of Work: Repair (General)

Status: Monitor

Component: Superstructure

Deficiency Description

Bent 2 span 1 beam 2 hole in the upper web.

Remarks



Bent 2 sp1 bm 2 hole in upper web



Bent 2 span 1 beam 2 hole in the upper web.



Bent 3 span 3 beam 5 1/4" pitting to lower flange.



Bent 2 span 1 beam 2 hole in the upper web.



Maintenance Needs

Date Reported: 06/29/2018

Priority: B - Pressing

Type of Work: Repair (General)

Status: Forward State

Component: Element

Deficiency Description

Bent 3 span 2 beam 1 bottom flange is down to a knives edge.

Bent 1 span 1 beams 2,3,4, Bent 2 span 2 beams 2,3, Bent 3 span 2 beams 2,3,4, Bent 3 span 3 beams 1,2,3,4,5, Bent 4 span 3 beams 1,2. Beams have section loss up to 3/8" deep at bearing area.

Remarks



Span 1 beam 2



Bent 4 span 3 beam 1, 3/16" pitting to bottom flange.



Span 3 girder 1: common condition to majority of beams with section loss to the bottom of the lower flange



Span 1 at bent 2, beam 5: bottom flange has lost half it's section due to corrosion at the bearing area



Span 4, girder 1: Section loss to the lower web and bottom flange.



Bent 1 span 1 beam 2. 3/16" pitting to bottom flange.



Span 1, bent 2, beam 5: Bottom flange with measurable section loss near bearing.



Span 1, bent 2, beam 2: upper web with deep pitting and diaphragm with large hole due to corrosion action.



Beam 2 Span 3 at bent 4. 3/16" section loss to bottom flange



Span 2 beam 2 at bent 3, 3/16" section loss to bottom flange



Bent 4 span 3 beam 1, 1/4" section loss to bottom flange.



Bent 3 span 2 beam 1 bottom flange on right side is down to knives edge. Worse case.



Bent 2 span 1 beam 5, 1/4" section loss to bottom flange at bearing area.



Bent 1 beam 2 1/4" section loss to bottom flange. 1/8 in lower web



Span 1 bent 1 beam 3, 1/4" section loss to bottom flange

Maintenance Needs

Date Reported: 06/14/2022

Priority: B - Pressing

Type of Work: Repair (General)

Status: Forward State

Component: Approach

Deficiency Description

Void under approach roadway at bent 1. Asphalt is cracked and settling.

Remarks



Void under approach roadway at bent 1. Asphalt is cracked and settling.



Void under approach roadway at bent 1. Asphalt is cracked and settling.

Maintenance Needs

Date Reported: 07/01/2013

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component:

Deficiency Description

Soffit all span have spalls with exposed rebar.

Remarks



Span 2 soffit



Span 2 soffit spalls with exposed rebar. Common all spans.



Span 2 soffit between beams 1&2, large spalls with section loss to exposed reinforcing steel.

Maintenance Needs

Date Reported: 06/20/2017

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component:

Deficiency Description

Right bridge rail is damaged from traffic impact

Remarks



concrete bridge railing



Span1 right bridge rail damaged.



Right rail: the first 3 posts have been damaged due to traffic impact



Span 1 right bridge rail has traffic damage

Maintenance Needs

Date Reported: 06/29/2021

Priority: C - Important

Type of Work: Repair (General)

Status: Forward State

Component:

Deficiency Description

Potholes in asphalt wearing surface at bent 2

Remarks



Potholes at joints



Spalls in asphalt overlay at bent 2

Maintenance Needs

Date Reported: 07/01/2013

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component:

Deficiency Description

Bent 3 cap back left side
Spall with exposed rebar

Remarks



Bent 3 cap back left side spalls with rebar.



Bent 3 cap spalls with exposed rebar



Bent 3 cap back left side spalls with 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	Yes
A-57 - Beam End and Bearing Paint Needed	Yes
A-58 - Cap Cleaning/Flushing Needed	Yes
A-59 - Joint Repair Needed	Yes
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)

gravel build up and grass growing in gutter line

A-56 - Joint Cleaning/Flushing Needed (Yes)

joint seals are missing allowing asphalt and debris to fall on cap



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A-57 - Beam End and Bearing Painting Needed (Yes)

beam end have corrosion and pitting

A-58 - Cap Cleaning/Flushing Needed (Yes)

A-59 - Joint Repair Needed (Yes)

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)



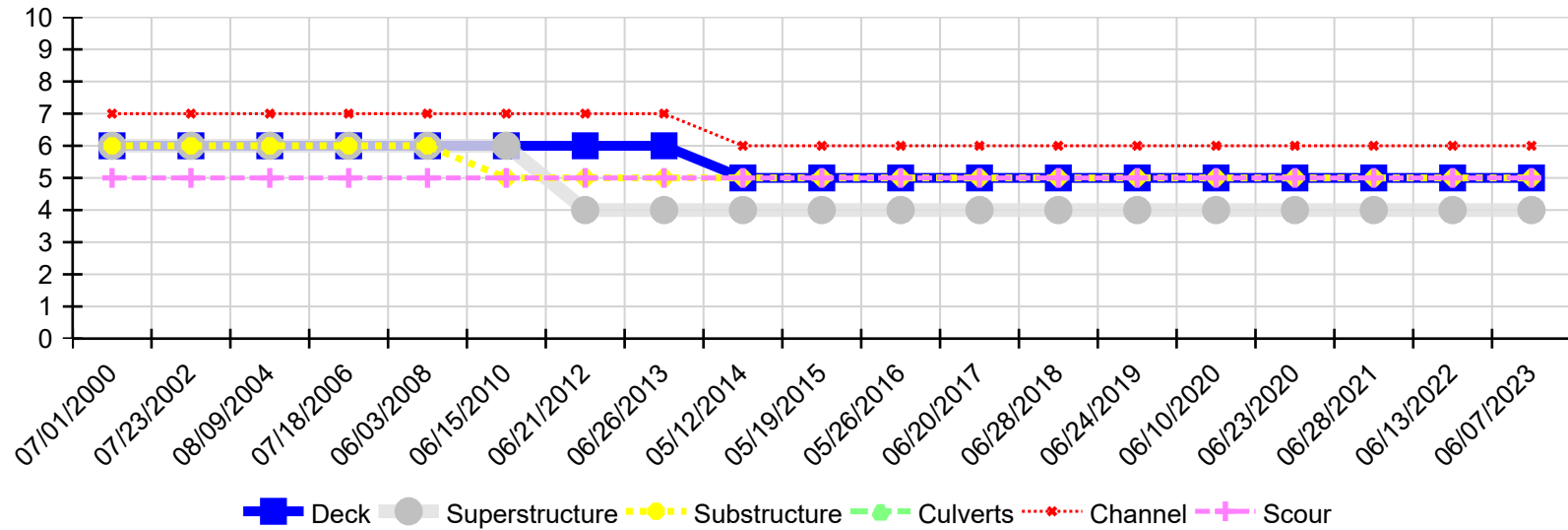
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Team Lead: Bryan Saunders, Inspection Date: 06/07/2023

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
06/07/2023	5	4	5	N	6	5
06/13/2022	5	4	5	N	6	5
06/28/2021	5	4	5	N	6	5
06/23/2020	5	4	5	N	6	5
06/10/2020	5	4	5	N	6	5
06/24/2019	5	4	5	N	6	5
06/28/2018	5	4	5	N	6	5
06/20/2017	5	4	5	N	6	5
05/26/2016	5	4	5	N	6	5
05/19/2015	5	4	5	N	6	5
05/12/2014	5	4	5	N	6	5
06/26/2013	6	4	5	N	7	5
06/21/2012	6	4	5	N	7	5
06/15/2010	6	6	5	N	7	5
06/03/2008	6	6	6	N	7	5
07/18/2006	6	6	6	N	7	5
08/09/2004	6	6	6	N	7	5
07/23/2002	6	6	6	N	7	5
07/01/2000	6	6	6	N	7	5