



Latitude:34.82077, Longitude:-91.51275

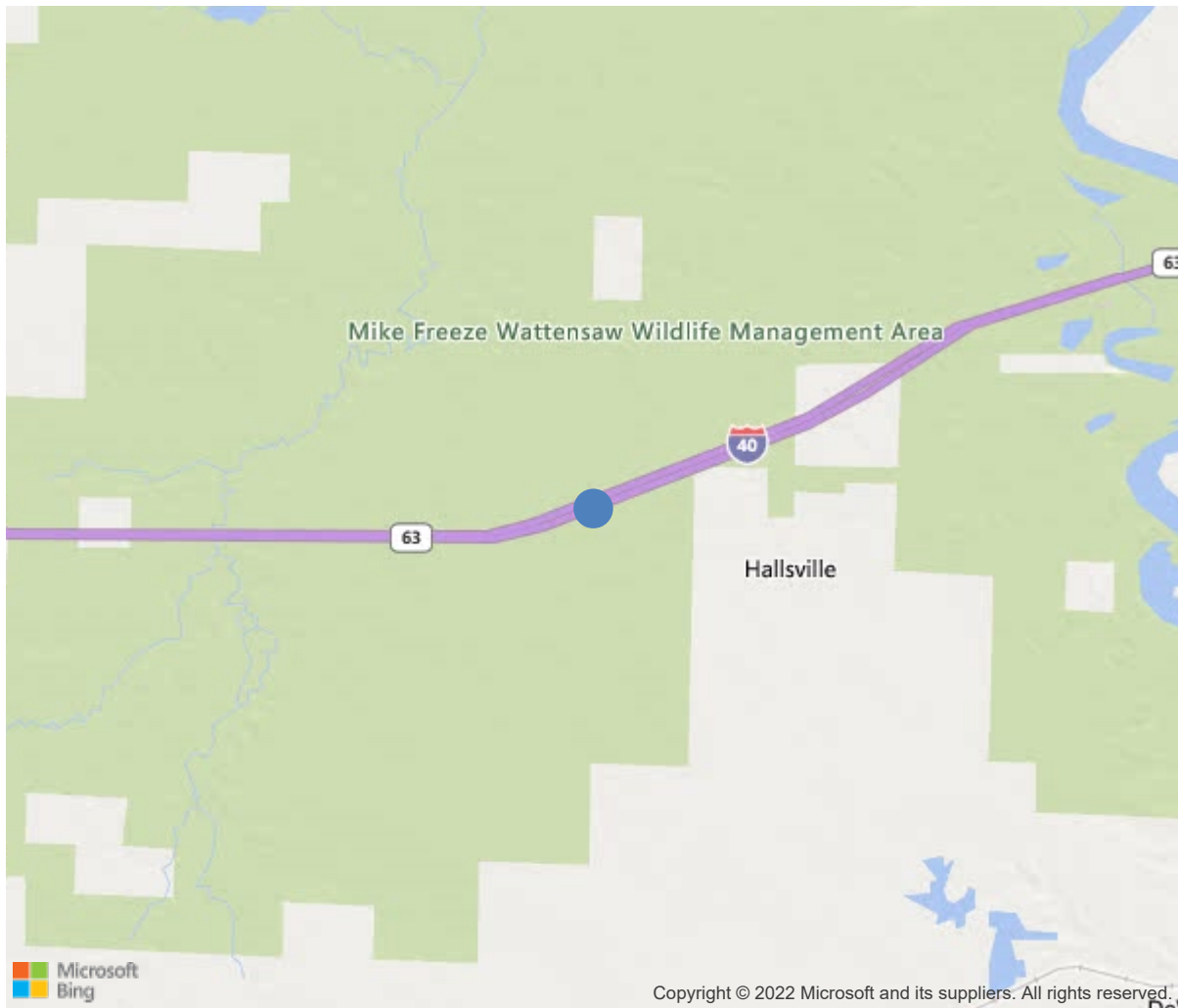
Route:705 Section:00 Log:3.219

Arnold Road ID:59xSFIRETOWERRDx0xA, Arnold Log mile:0.03

District 06, Prairie County

Owner: 1-State Highway Agency

JCT I-40 & CO.RD.705



34.82077, -91.51275

Inspection Direction : S to N



Bridge #03710(Routine)

CR705G Wattensaw over I -40 LOG 196.32

Location: JCT I-40 & CO.RD.705

Team Lead: Keith Harris Inspection Date: April 18, 2022

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03710
(5) Inventory Route	705
(2) Highway Agency District	06
(3) County Code	117-Prairie County, Arkansas
(4) Place Code	0
(6) Features Intersected	I -40 LOG 196.32
(7) Facility Carried	CR705G Wattensaw
(9) Location	JCT I-40 & CO.RD.705
(11) Mile Point	3.219 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.82077
(17) Longitude	-91.51275
(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	6
(46) No. of Approach Spans	0
(107) Deck Structure Type	1-Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	1-Monolithic Concrete (concurrently placed
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1965
(106) Year Reconstructed	0
(42) Type of Service	11
On	1-Highway
Under	1-Highway, with or without pedestrian
(28) Lane	
On	2
Under	4
(29) Average Daily Traffic	20
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	6 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	67 ft
(49) Structure Length	348 ft
(50) Curb or Sidewalk Width	
Left	1.1 ft
Right	1.1 ft
(51) Bridge Roadway Width Curb to Curb	20 ft
(52) Deck Width Out to Out	24.5 ft
(32) Approach Roadway Width (W/Shoulders)	23 ft
(33) Bridge Median	0-No median
(34) Skew	21 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	20 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	15.83 ft
Ref:	
(55) Min Lat Underclear RT	10.3 ft
Ref:	
(56) Min Lat Underclear LT	23.5 ft
NAVIGATION DATA	
(38) Navigation Control	N-Not applicable, no waterway.
(111) Pier Protection	1-Navigation protection not requ
(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 a S
(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 part of
(20) Toll	3-On free road. The structure is toll-
(21) Maintain	1-State Highway Agency
(22) Owner	1-State Highway Agency
(37) Historical Significance	5-Bridge is not eligible for the NRHP
CONDITION	
(58) Deck	6
(59) Superstructure	7
(60) Substructure	6
(61) Channel & Channel Protection	N
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	5-MS 18 / HS 20
(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	6
Rating	30
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	6
(68) Deck Geometry	5
(69) Clearances, Vertical/Horizontal	4
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0-Inspected feature does not meet cur
(36B) Transitions	1-Inspected feature meets currently a
(36C) Approach Guardrail	1-Inspected feature meets currently a
(36D) Approach Guardrail Ends	0-Inspected feature does not meet cur
(113) Scour Critical Bridges	N-Bridge not over waterway.
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	31
(115) Year of Future ADT	2007

INSPECTIONS *			
(90) Inspection Date			04/2022
(91) Frequency			24 Months
(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.			



Bridge #03710(Routine)

CR705G Wattensaw over I -40 LOG 196.32

Location: JCT I-40 & CO.RD.705

Team Lead: Keith Harris, Inspection Date: April 18, 2022

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	7433	7252	178	3	0
1080	Delamination/Spall/Patched Area	SF	175	0	175	0	0
1090	Exposed Rebar	SF	6	0	3	3	0
(12)	State forces have patched spalls in the deck and sealed cracks. Span 3& 4 soffit spall with rebar. Span 3: small area of honey combing with exposed rebar adjacent to girder 3						
107	Steel Open Girder/Beam	LF	1384	742	642	0	0
1000	Corrosion	LF	642	0	642	0	0
515	Steel Protective Coating	SF	10255	0	2752	2752	4751
3440	Effectiveness (Steel Protective Coatings)	SF	10255	0	2752	2752	4751
(107)	Moderate to heavy freckled rust is common on spans 2&5 where traffic is present under the bridge. Beams at spans 1,3,4 & 6 have moderate freckling rust. Paint system is failing.						
205	Reinforced Concrete Column	EA	10	8	2	0	0
1080	Delamination/Spall/Patched Area	EA	2	0	2	0	0
(205)	Bent 2, both columns are spalled						
215	Reinforced Concrete Abutment	LF	68	60	8	0	0
1130	Cracking (RC and Other)	LF	8	0	8	0	0
(215)	Bent 1 & 5 abutment has scattered cracks in back wall.						
234	Reinforced Concrete Pier Cap	LF	118	113	5	0	0
1080	Delamination/Spall/Patched Area	LF	3	0	3	0	0
1090	Exposed Rebar	LF	2	0	2	0	0
(234)	Bent 2 cap back face has delam. Bent 3, left end ,ahead face, exposed rebar. Bent 5, right end bottom, exposed rebar. Bent 5 cap ahead face has delam. Bent 6 cap back face right end, delam and exposed rebar.						
303	Assembly Joint with Seal	LF	172	172	0	0	0
311	Movable Bearing	EA	24	0	20	4	0
1000	Corrosion	EA	16	0	16	0	0

Team Lead: Keith Harris, **Inspection Date:** April 18, 2022

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
2220 (311)	Alignment	EA	8	0	4	4	0
The bearings at bent 3 are rotated to the stop blocks. The bearings at bent 4 are rotated.							
313 1000 (313)	Fixed Bearing Corrosion	EA EA	24 24	0 0	24 24	0 0	0 0
All bearings have light corrosion							
330 7000 (330)	Metal Bridge Railing Damage	LF LF	697 7	690 0	0 0	7 7	0 0
Span 3, left metal guard rail damaged.							
331 1080 1090 1130 (331)	Reinforced Concrete Bridge Railing Delamination/Spall/Patched Area Exposed Rebar Cracking (RC and Other)	LF LF LF	697 2 1 35	659 0 0 0	38 2 1 35	0 0 0 0	0 0 0 0
Concrete bridge railing has scattered cracks and 2 small spalls with exposed rebar.							



Elevation



Span 4 soffit view



Deck overview



Bent 6 delams on back face



Approach

Maintenance Needs

Date Reported: 04/24/2014
Priority: C - Important
Type of Work: None
Status: Monitor
Inspection Direction S to N
Component:

Deficiency Description

Bearings are fully rotate at bent 3 on span 2 and joint is open up to 4 ½ inches.

Remarks



Span 2, bent 3: all bearings are rotated fully to their max inwards.



Bearings are fully rotate at bent 3 on span 2 and joint is open up to 4 ½ inches.



Bearings are fully rotate at bent 3 on span 2 and joint is open up to 4 ½ inches.

Date Reported: 04/17/2018
Priority: D- Routine
Type of Work: Repair
Status: Monitor
Inspection Direction S to N
Component: 107 - Steel Open Girder/Beam

Deficiency Description

All spans beams have moderate to heavy freckling rust. Paint system is starting to fail.

Remarks



Span 1: majority of the painted steel has freckled rust, the remainder has dulled paint

Date Reported: 04/20/2020
Priority: C - Important
Type of Work: Repair
Status: Monitor
Inspection Direction S to N
Component: 330 - Metal Bridge Railing

Deficiency Description

Span 3, left metal guard rail damaged.

Remarks

Span 3, left metal guard rail damaged.



Span 3, left metal guard rail damaged.



Span 3, left metal guard rail damaged.



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Location: JCT I-40 & CO.RD.705

Team Lead: Keith Harris Inspection Date: April 18, 2022

Inspection Comments

Job #6717, Drawing #12740 for layout, Bridge raised in Job #061187.

Logged Northbound.