



Latitude:33.48822, Longitude:-93.97340

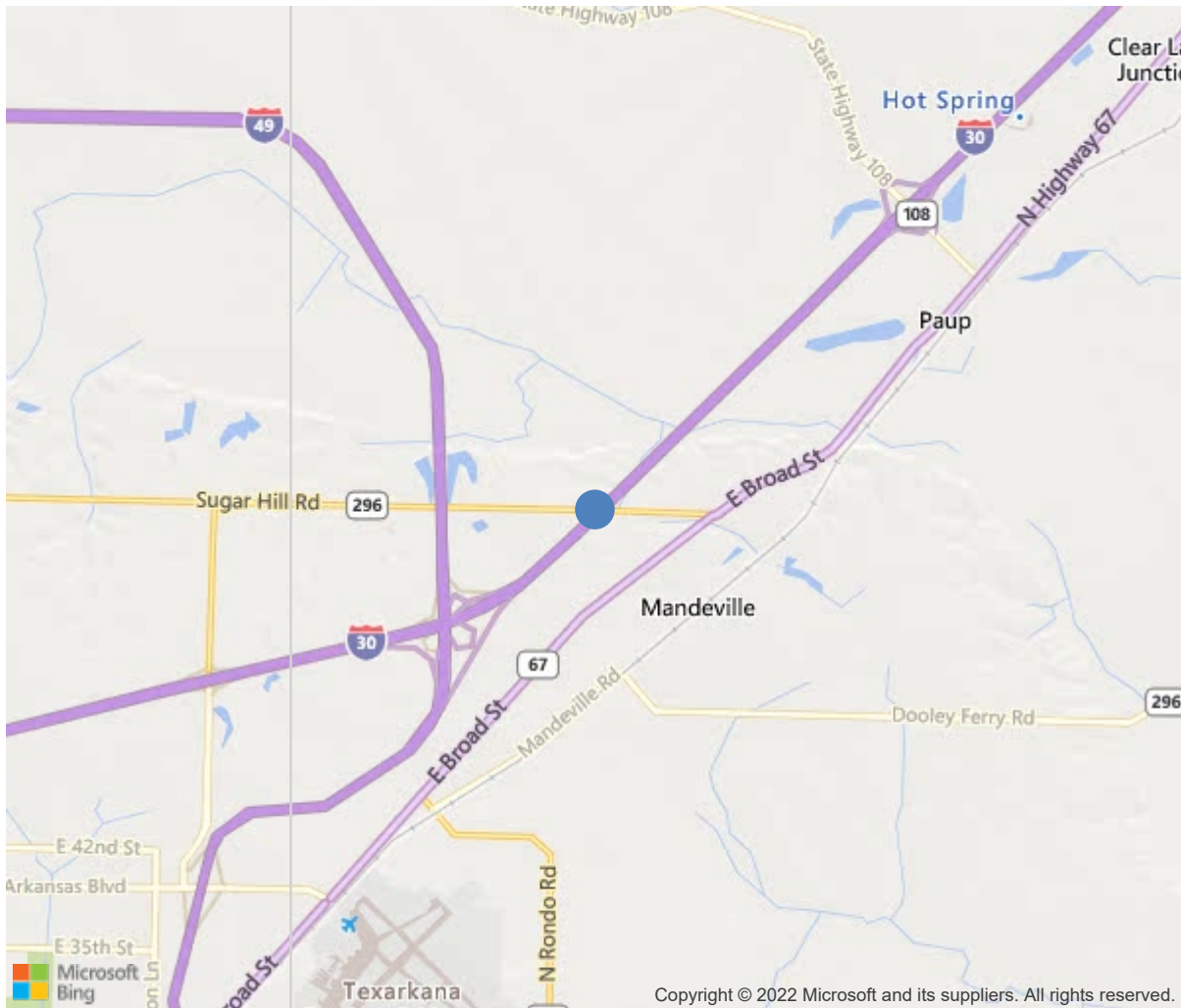
Route:296 Section:00 Log:4.02

Arnold Road ID:46x296x0xA, Arnold Log mile:4.025

District 03, Miller County

Owner: 1-State Highway Agency

.50 MI W JCT US 67



33.48822, -93.97340

Inspection Direction : W to E



Bridge #03568(Routine)

SH 296-SEC 0 -4.02 over I 30-SEC 11-4.33

Location: .50 MI W JCT US 67

Team Lead: John King Inspection Date: August 24, 2022

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03568
(5) Inventory Route	296
(2) Highway Agency District	03
(3) County Code	91-Miller County, Arkansas
(4) Place Code	0
(6) Features Intersected	I 30-SEC 11-4.33
(7) Facility Carried	SH 296-SEC 0 -4.02
(9) Location	.50 MI W JCT US 67
(11) Mile Point	4.02 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.48822
(17) Longitude	-93.9734
(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	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	1-Monolithic Concrete (concurrently placed
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1964
(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	1100
(30) Year of ADT	2018
(109) Truck ADT	6 %
(19) Bypass, Detour Length	7 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	61 ft
(49) Structure Length	299 ft
(50) Curb or Sidewalk Width	
Left	1 ft
Right	1 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	28.4 ft
(32) Approach Roadway Width (W/Shoulders)	27.9 ft
(33) Bridge Median	0-No median
(34) Skew	45 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	26.2 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	16 ft
Ref:	
(55) Min Lat Underclear RT	9 ft
Ref:	
(56) Min Lat Underclear LT	5.5 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	16-Urban Minor Arterial
(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	7
(59) Superstructure	6
(60) Substructure	7
(61) Channel & Channel Protection	N
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	3-MS 13.5 / HS 15
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	46
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	5
Rating	27
(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	4
(69) Clearances, Vertical/Horizontal	3
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1-Inspected feature meets currently a
(36B) Transitions	1-Inspected feature meets currently a
(36C) Approach Guardrail	1-Inspected feature meets currently a
(36D) Approach Guardrail Ends	1-Inspected feature meets currently a
(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	992
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			08/2022
(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.			



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Location: .50 MI W JCT US 67

Team Lead: John King, Inspection Date: August 24, 2022

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	7794.6	7740.6	54	0	0
1090	Exposed Rebar	SF	50	0	50	0	0
1130	Cracking (RC and Other)	SF	4	0	4	0	0
(12)	1080- spalls and popout a various locations entire deck... 1130- deck cracking in all spans 1190- abrasion and scaling along gutter line against curb various locations in all spans....8/13/2020...Spalls were patched in 2018.... New hydro done on deck per 7/22 (12-1090) 08/22 exposed rebar span 4 multiple locations .. 08/22 Exposed rebar in deck under concrete railing span 2 left side.. 08/22 exposed rebar in deck overhang span 1 left side (12-1130) 08/22 Cracking in new hydro overlay bent 3 ... 08/22 cracking in deck overhang various locations						
107	Steel Open Girder/Beam	LF	1480	1470	0	10	0
7000	Damage	LF	10	0	0	10	0
515	Steel Protective Coating	SF	13468	13468	0	0	0
(107)	Bridge repainted in July of 2019 by state forces. Beams 1& 2 as well as several diaphragm connections were damaged from a semi truck collision 7/29/2019 at 1:00/1:30 am....2/27/2020...Beams were fixed by heavy bridge and have been cleaned up and repainted, see superstructure for photos...						
205	Reinforced Concrete Column	EA	8	7	0	1	0
1090	Exposed Rebar	EA	1	0	0	1	0
(205)	1090- exposed rebar with section loss bent 4 column 2						
215	Reinforced Concrete Abutment	LF	78.3	75.3	0	3	0
1130	Cracking (RC and Other)	LF	3	0	0	3	0
(215)	1130- cracking abutment 1 wing left side						
234	Reinforced Concrete Pier Cap	LF	148	147	1	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
(234)	Bent 2 cap has a spall with rebar exposed on bottom of cap span 2 side of cap...						
303	Assembly Joint with Seal	LF	144	120	0	24	0

Location: .50 MI W JCT US 67

Team Lead: John King, **Inspection Date:** August 24, 2022

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
2350 (303-2350) 08/22 debris impaction end of bridge at approach slab and head wall.	Debris Impaction	LF	24	0	0	24	0
311 (311) BEARINGS RUSTING TYPICAL ALL SPANS....2/27/2020...Bearings and beams were repainted by heavy bridge...	Movable Bearing	EA	20	20	0	0	0
313 2240 (313) 7/22 movement in bearing shim plates at bent 4 beam 3 span 4 side.(east bound in medium) (313-2240) 7/22 movement in bearing shim plates at bent 4 beam 3 span 4 side.(East Bound in Median)	Fixed Bearing Loss of Bearing Area	EA EA	20 1	19 0	1 1	0 0	0 0
321 1080 (321) 8/13/2020...Patched area at end of bridge approach slab...	Reinforced Concrete Approach Slab Delamination/Spall/Patched Area	SF SF	952 10	942 0	10 10	0 0	0 0
330	Metal Bridge Railing	LF	598	598	0	0	0
331 1130 (331) CONCRETE APPROACH WALL BUSTED END OF BRIDGE LEFT SIDE....8/13/2020...Concrete wall has been patched... (331-1130) 08/22 cracking in concrete bridge railing various locations	Reinforced Concrete Bridge Railing Cracking (RC and Other)	LF LF	598 1	597 0	1 1	0 0	0 0



08/22 alignment photo



7/22 movement in bearing shim plates at bent 4 beam 3 span 4 side.(east bound in medium)



7/22 movement in bearing shim plates at bent 4 beam 3 span 4 side.(east bound in medium)





New approach railing installed per 7/22



New approach railing installed per 7/22



Top of guard rail on collision side of the bridge



Looking down the beam towards bent 2



Log trucks crossing the bridge on hwy 296



Semi truck tracks from leaving the interstate



West side of bridge where the semi truck came out from under the bridge



Per 7/22 inspection hydro done on deck



Hydro



7/22 movement in bearing shim plates at bent 4 beam 3 span 4 side.(east bound in medium)



7/22 movement in bearing shim plates at bent 4 beam 3 span 4 side.(east bound in medium)



7/22 movement in bearing shim plates at bent 4 beam 3 span 4 side.(east bound in medium)



08/22 typical all spans deck photo



08/22 typical underside of deck photo.



08/22 typical superstructure photo



08/22 All beams have minor damage span 4



08/22 typical substructure photo





08/22 Exposed rebar in deck under concrete railing span 2 left side



08/22 exposed rebar span 4 multiple locations



08/22 exposed rebar in deck overhang span 1 left side



08/22 Cracking in new hydro overlay bent 3



08/22 cracking in deck overhang various locations



08/22 cracking in deck overhang various locations



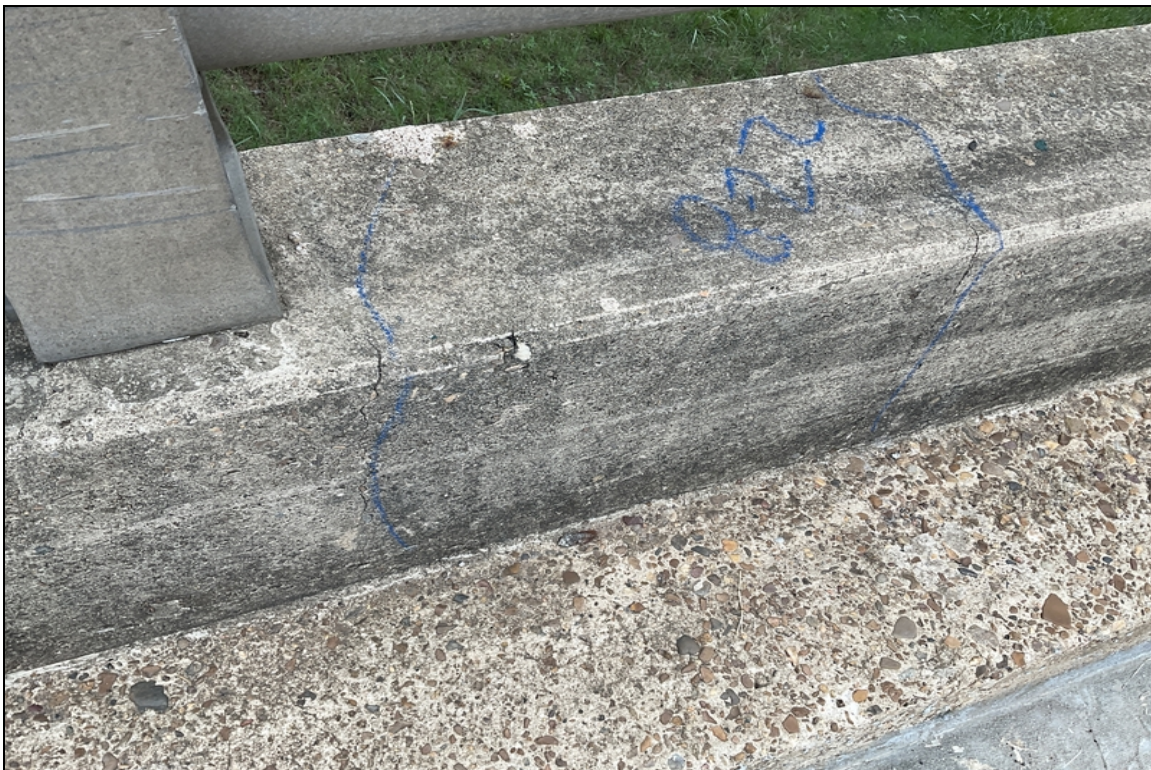
08/22 photo added to previous inspection finding



08/22 debris impaction end of bridge at approach slab and head wall.



08/22 debris impaction end of bridge at approach slab and head wall.



08/22 cracking in concrete bridge railing various locations



photo of bent 4 column has surface rebar exposed....

Maintenance Needs

Date Reported: 08/19/2014
Priority: G - General/ Preventive maintenance
Type of Work: Repair
Status: Monitor
Inspection Direction W to E
Component: Superstructure

Deficiency Description

BEAM COLLISION DAMAGE OVER EAST BOUND LANE WEST SIDE.
BEAM NEEDS TO BE TRUED UP.

Remarks

2/27/2020...Beam has been painted but still needs to be trued up and straightened..



Date Reported: 07/19/2022
Priority: B - Pressing; 6 month completion goal
Type of Work: Repair
Status: Open
Inspection Direction W to E
Component: 313 - Fixed Bearing

Deficiency Description

7/22 movement in bearing shim plates at bent 4 beam 3 span 4 side.(East Bound in Median) see photos

Remarks

7/22 movement in bearing shim plates at bent 4 beam 3 span 4 side.(East Bound in Median)



7/22 movement in bearing shim plates at bent 4 beam 3 span 4 side.(East bound in Median)



7/22 movement in bearing shim plates at bent 4 beam 3 span 4 side.(East bound in median)



7/22 movement in bearing shim plates at bent 4
beam 3 span 4 side.(East bound in median)

Date Reported: 08/24/2022
Priority: D- Routine
Type of Work: Repair
Status: Open
Inspection Direction W to E
Component: Miscellaneous

Deficiency Description

0822 debris impaction end of bridge at approach slab and head wall.

Remarks



0822 debris impaction end of bridge at approach slab and head wall.



0822 debris impaction end of bridge at approach slab and head wall.



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Inspection Comments

.08/22 span 4 collision damage verified vertical clearance at 16 ft is still accurate,,, Bearing pad still is in shifted postions still needing fixed.

Deck Notes

08/22 bridge deck in good condition. some small cracking on curb. and patches on bottom side of deck. bridge has had a hydro in past.... debris impaction end of bridge at approach slab and head wall.

Superstructure Notes

.08/22 span 4 beam 5 east bound slow lane still has collision damage, maintenance need has already been created in past inspection .. all beams have minor damage in same span. clearance was check . bridge is still over 16 ft. bearing pad movement at bent 4 beam 3 . talk to HVY Bridge on repairs...

Substructure Notes

sub in good condition 1 spall on cap at bent 2 left side and bent 3 column has rebar exposed on surface