



Latitude:35.84323, Longitude:-89.95184

Route:44 Section:00 Log:2.79

Arnold Road ID:47xECOUNTYRD378RDx1xA, Arnold Log mile:2.673

District 10, Mississippi County

Owner: 1-State Highway Agency



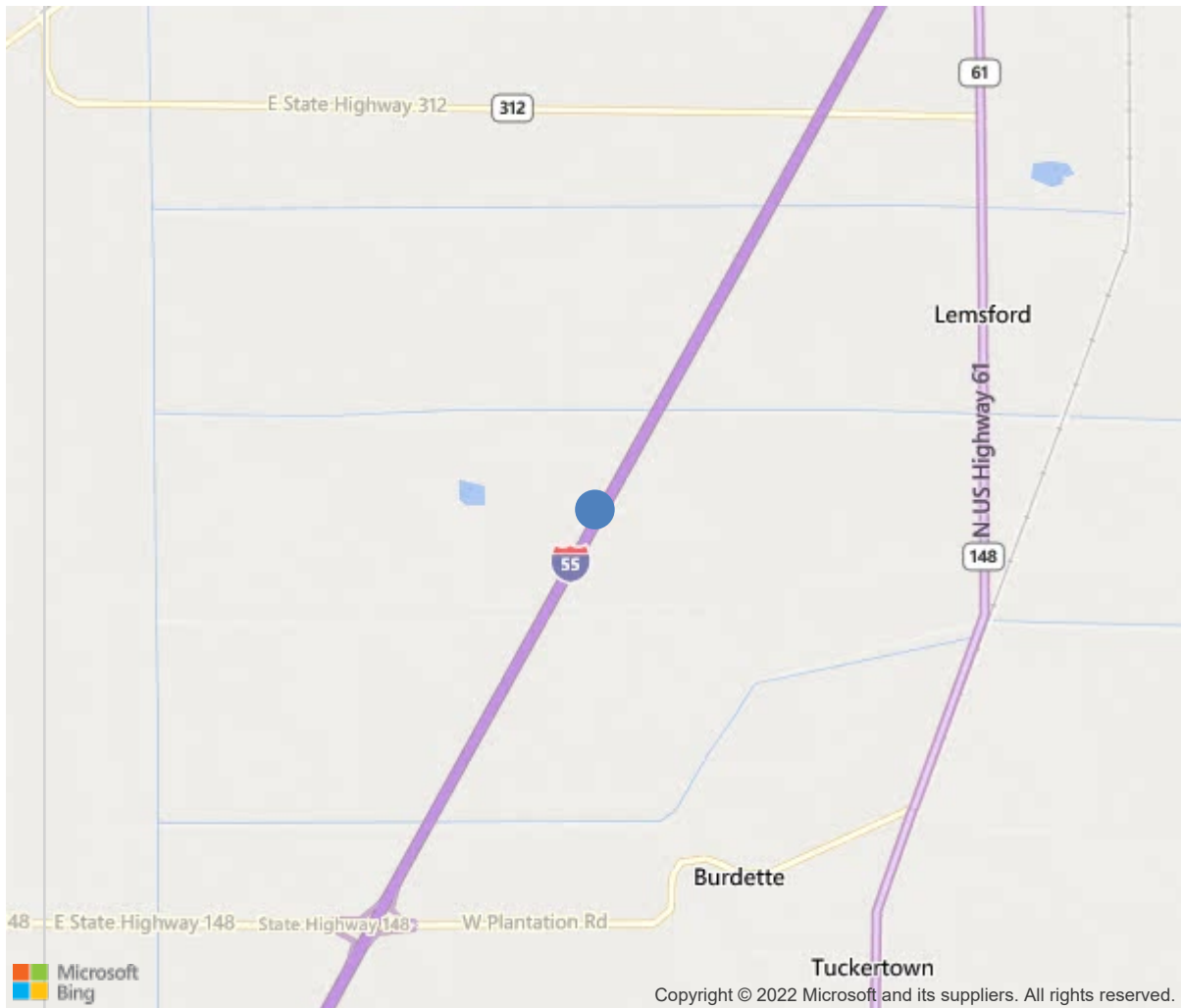
Bridge #03285(Routine)

CR 44/911=385 over I 55-SEC 12- Log 59.75

Location: 2.31 NO JCT SH 148

Team Lead: Tim Myrick Inspection Date: October 14, 2020

2.31 NO JCT SH 148



35.84323, -89.95184



Bridge #03285(Routine)

CR 44/911=385 over I 55-SEC 12- Log 59.75

Location: 2.31 NO JCT SH 148

Team Lead: Tim Myrick Inspection Date: October 14, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03285
(5) Inventory Route	44
(2) Highway Agency District	10
(3) County Code	93-Mississippi County, Arkansa
(4) Place Code	0
(6) Features Intersected	I 55-SEC 12- Log 59.75
(7) Facility Carried	CR 44/911=385
(9) Location	2.31 NO JCT SH 148
(11) Mile Point	2.79 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.84323
(17) Longitude	-89.95184
(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	4
(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	1960
(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	569
(30) Year of ADT	1987
(109) Truck ADT	1 %
(19) Bypass, Detour Length	6 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	76 ft
(49) Structure Length	255 ft
(50) Curb or Sidewalk Width	
Left	1.5 ft
Right	1.5 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	29 ft
(32) Approach Roadway Width (W/Shoulders)	27.9 ft
(33) Bridge Median	0-No median
(34) Skew	30 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	26.9 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	14.5 ft
Ref:	
(55) Min Lat Underclear RT	12.7 ft
Ref:	
(56) Min Lat Underclear LT	8 ft
NAVIGATION DATA	
(38) Navigation Control	N-Not applicable, no waterway.
(111) Pier Protection	5-None present but re-evaluation
(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	6
(60) Substructure	7
(61) Channel & Channel Protection	N
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	4-M 18 / H 20
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	54
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	4
Rating	33
(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	6
(69) Clearances, Vertical/Horizontal	3
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0-Inspected feature does not meet cur
(36B) Transitions	0-Inspected feature does not meet cur
(36C) Approach Guardrail	0-Inspected feature does not meet cur
(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	Bridge deck rehabilitation wit
(76) Length of Structure Improvement	255 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 76
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	99
(115) Year of Future ADT	2007

INSPECTIONS *			
(90) Inspection Date			10/2020
(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	Yes		08/2019
* 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 #03285(Routine)

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Location: 2.31 NO JCT SH 148

Team Lead: Tim Myrick, Inspection Date: October 14, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	7254	2337	3770	1147	0
1080	Delamination/Spall/Patched Area	SF	124	0	0	124	0
1090	Exposed Rebar	SF	2	0	0	2	0
1120	Efflorescence/Rust Staining	SF	401	0	0	401	0
1130	Cracking (RC and Other)	SF	1790	0	1170	620	0
1190	Abrasion/Wear (PSC/RC)	SF	2600	0	2600	0	0
107	Steel Open Girder/Beam	LF	1004	972	0	32	0
1000	Corrosion	LF	32	0	0	32	0
7000	Damage	LF	0	0	0	0	0
515	Steel Protective Coating	SF	8917	8911	0	6	0
3440	Effectiveness (Steel Protective Coatings)	SF	6	0	0	6	0
205	Reinforced Concrete Column	EA	6	6	0	0	0
215	Reinforced Concrete Abutment	LF	111	100	11	0	0
1130	Cracking (RC and Other)	LF	11	0	11	0	0
234	Reinforced Concrete Pier Cap	LF	98	89	4	5	0
1080	Delamination/Spall/Patched Area	LF	3	0	0	3	0
1090	Exposed Rebar	LF	2	0	2	0	0
1120	Efflorescence/Rust Staining	LF	2	0	0	2	0
1130	Cracking (RC and Other)	LF	2	0	2	0	0
305	Assembly Joint without Seal	LF	162	162	0	0	0
311	Movable Bearing	EA	16	0	0	16	0
1000	Corrosion	EA	16	0	0	16	0
313	Fixed Bearing	EA	16	0	0	16	0
1000	Corrosion	EA	16	0	0	16	0
330	Metal Bridge Railing	LF	511	447	64	0	0
1020	Connection	LF	64	0	64	0	0
331	Reinforced Concrete Bridge Railing	LF	511	511	0	0	0





Maintenance Needs

Date Reported: 10/04/2012
Priority: C - Important
Type of Work: Clean
Status: Monitor
Component: Superstructure

Deficiency Description

Steel Girders have 70% paint deterioration and rusted with pitting, see 2016 photo.
Ends of Girders have initial section loss near concrete haunches.
Girders have been painted by HBM

Remarks

Bearings were painted by hbm observed at inspection 10/16/2018 JFA/CWS

Steel Girders have been repainted by HBM. Span 2 girder 1 & span 3 girder 4 has a few minor areas of missing paint, see 2018 photo's. JFA/CWS



Span 2 girder 1





Span 3 girders repaired



Span 2 bay 1

Date Reported: 10/04/2012
Priority: D- Routine
Type of Work: Repair
Status: Monitor
Component: Superstructure

Deficiency Description

Span 2 Girder 1 is bowed in 3 to 4 inches due to collision damage, see 2014 & 2016 photos.

Span 2 Bay 1 Diaphragm Brackets 1 & 2 are bent at connection to girder with 3 bolts missing at diaphragm 1 connection, See 2010 & 2014 photos.

Remarks

Span 2 Bay 1 Diaphragm Brackets 1 & 2 have been straightened & bolts replaced by HBM. JFA/CWS





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Location: 2.31 NO JCT SH 148

Team Lead: Tim Myrick Inspection Date: October 14, 2020

Date Reported: 10/04/2012
Priority: G - General/ Preventive maintenance
Type of Work: Repair
Status: Monitor
Component: Substructure

Deficiency Description

Top of Cap Bent 2 Under Bearings
has been chipped down (3/4" - 1" deep typical) and is retaining water.

Remarks

Date Reported: 10/04/2012
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Deck

Deficiency Description

Concrete Curbs have some cracking and abrasive wear.

Top of Deck has some scaling with minor size and density cracks, especially Span 1.

Bottom of Deck has some cracks with some efflorescence and some delamination with, especially Span 1.

Span 3 Bottom of Deck has a 6" diameter spall with rebar exposed.

Remarks



Date Reported: 10/04/2012
Priority: D- Routine
Type of Work: Repair
Status: Monitor
Component: Miscellaneous

Deficiency Description

Concrete Slope Protection under Span 1 is broken and settled up to 4 inches from Bent 1 Abutment, see 2014 & 2016 photo.

Remarks



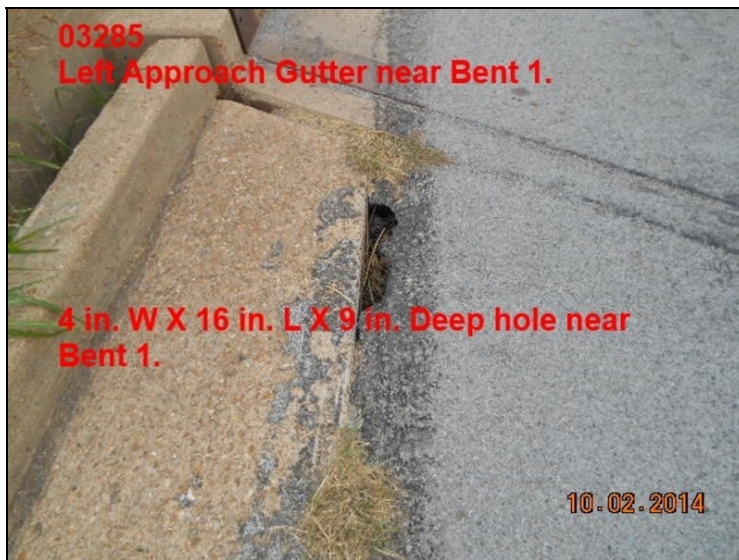
Date Reported: 10/02/2014
Priority: G - General/ Preventive maintenance
Type of Work: Repair
Status: Monitor
Component: Approach

Deficiency Description

Left Approach Gutter near Bent 1 has a 4" x 16" x 9" deep hole in asphalt approach.
Left Approach Gutter near Bent 4 has a 9" x 18" deep void, see 2016 photo of location.

Remarks

Hole at bent 1 approach has been repaired. Observed at inspection. 10/16/2018 JFA/CWS .



Date Reported: 10/02/2014
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: 330 - Metal Bridge Railing

Deficiency Description

Several sections of Bridge Rail (mostly top rail) is loose, set screws need to be tightened and the right side of Span 1 has 8ft. of Top Rail missing and the left side of Span 4 has 10' ft. of rail with one end dropped down, see 2016 photo of Span 1.

Remarks





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Inspection Comments

Inspection of 08-21-2017 for under clearances only. Checked & verified, no changes noted.

Deck Notes

Under clearances checked and verified 2020 inspection.

North bound girder 1 underclearances all changed with girder 1 being replaced due to accident in 2017.

Left Approach Gutter near Bent 1 hole in asphalt approach has been repaired.

Left Approach Gutter near Bent 4 has a 9"diam. x 18" deep void under concrete.

Several sections of Bridge Rail (mostly top rail) is loose, set screws need to be tightened, left side of Span 4 has 10' ft. of bottom rail missing.

Concrete Curbs have some cracking and abrasive wear.

Top of Deck has some abrasion with moderate width cracks, especially Span 1.

Bottom of Deck has some cracks with

some efflorescence and delamination, especially Span 1.

Span 3 Bottom of Deck has a 6" diameter spall with exposed rebar.

Superstructure Notes

Steel Girders have been repainted by HBM. Span 2 girder 1 & span 3 girder 4 has a few minor areas of missing paint.

Ends of Girders have initial section loss near concrete haunches.

Span 2 Girder 1 has been replaced by HBM forces.

Span 2 Bay 1 Diaphragm Brackets 1 & 2 have been straightened & bolts replaced by HBM.

Majority of Bearing Plates & Rockers have some rust pack rust, bearings have been painted.

Visible portion of Anchor Bolts & Nuts at Bent 2 are rusted with section loss.

Bent 2 Masonry Plates & Rockers are rusted with section loss (1/8"-1/4").

Span 2 Bent 2 Bearing 3 has 2 anchor bolts missing.

Span 3 Bent 4 Bearing 1 has 1 cap screw is missing.

Span 3 Bent 4 Bearing 2 has 1 anchor bolt missing.

Substructure Notes

Concrete Slope Protection under Span 1 is broken and settled up to 4 inches from Bent 1 Abutment.

Concrete Abutments Bents 1&5 has some cracking.

Bent 2 cap, top of cap under bearings has been chipped down (3/4 in. - 1 in. deep) and is retaining water.

Bent 3 cap has some cracking with rust stains.

Bent 4 cap has some cracking with delamination.