



Latitude:35.85046, Longitude:-89.94631

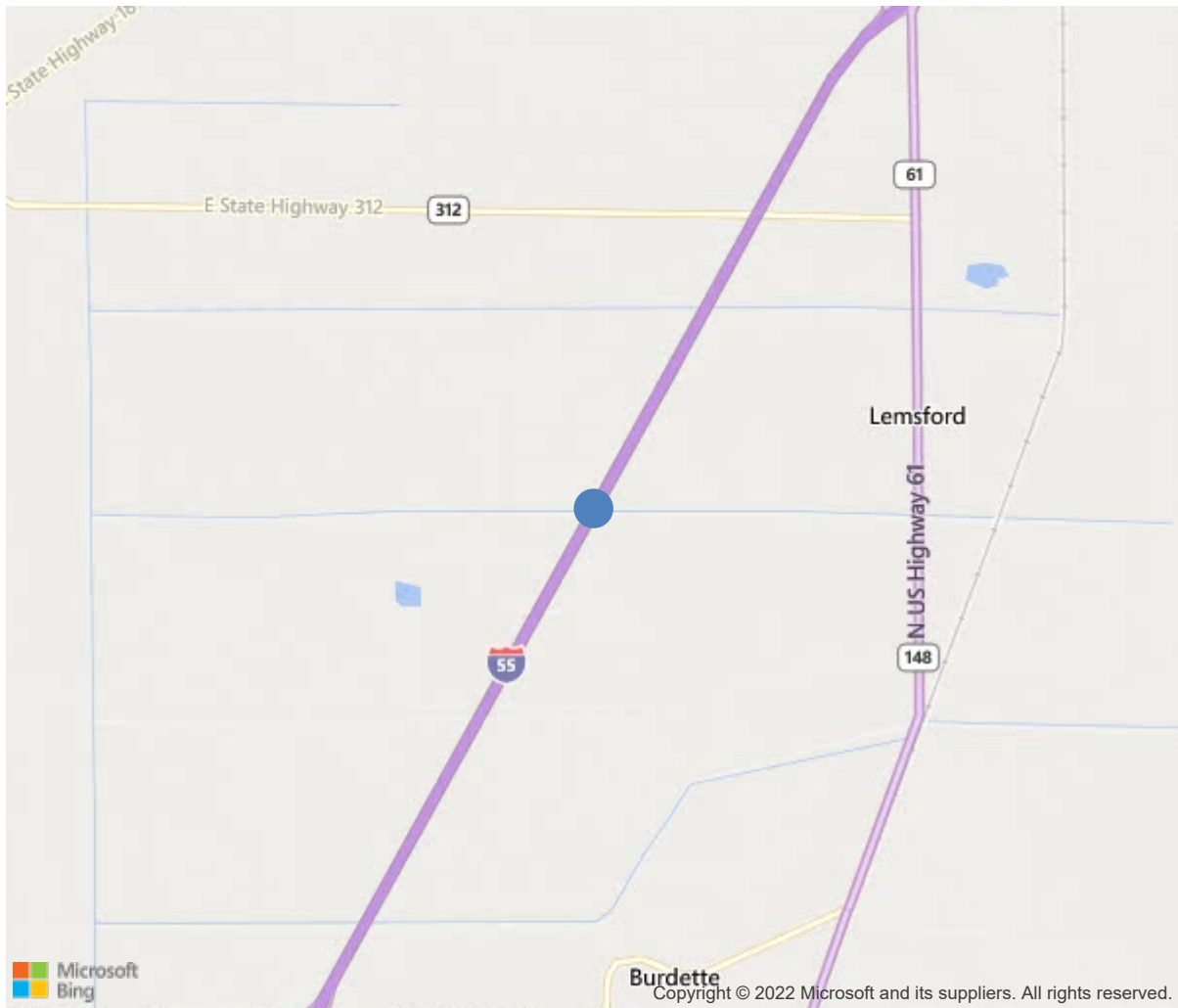
Route:55 Section:12 Log:60.31

Arnold Road ID:47x55x12xA, Arnold Log mile:60.357

District 10, Mississippi County

Owner: 1-State Highway Agency

2.87 MI N JCT SH 148



35.85046, -89.94631



Bridge #B3286(Routine)

I-55NB-12-LM 60.30 over DITCH NO 20

Location: 2.87 MI N JCT SH 148

Team Lead: Tim Myrick Inspection Date: August 05, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	B3286
(5) Inventory Route	55
(2) Highway Agency District	10
(3) County Code	93-Mississippi County, Arkansa
(4) Place Code	0
(6) Features Intersected	DITCH NO 20
(7) Facility Carried	I-55NB-12-LM 60.30
(9) Location	2.87 MI N JCT SH 148
(11) Mile Point	60.31 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000055120
(16) Latitude	35.85046
(17) Longitude	-89.94631
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	11
Material	1-Concrete
Type	1-Slab
(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	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	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	20000
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	90 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	40 ft
(52) Deck Width Out to Out	43.5 ft
(32) Approach Roadway Width (W/Shoulders)	44 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	41 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 water
(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	1
(26) Functional Class	1-Rural Principal Arterial - Int
(100) Defense Highway	1-The inventory route is on a In
(101) Parallel Structure	R-The right structure of paralle
(102) Direction of Traffic	1 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0-N/A
(110) Designated National Network	1-The inventory route is part of the
(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	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	6-MS 18+Mod / HS 20+Mod
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	43
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	3
Rating	26
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	5
(68) Deck Geometry	7
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	9
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1-Inspected feature meets currently a
(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	5-Bridge foundations determined to be
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	11592
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	08/2020		
(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	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 #B3286(Routine)

I-55NB-12-LM 60.30 over DITCH NO 20

Location: 2.87 MI N JCT SH 148

Team Lead: Tim Myrick, Inspection Date: August 05, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	3930	0	3754	176	0
1080	Delamination/Spall/Patched Area	SF	86	0	0	86	0
1130	Cracking (RC and Other)	SF	990	0	900	90	0
1190	Abrasion/Wear (PSC/RC)	SF	2854	0	2854	0	0
215	Reinforced Concrete Abutment	LF	124	119	5	0	0
6000	Scour	LF	5	0	5	0	0
227	Reinforced Concrete Pile	EA	16	15	1	0	0
1130	Cracking (RC and Other)	EA	1	0	1	0	0
234	Reinforced Concrete Pier Cap	LF	99	90	4	5	0
1080	Delamination/Spall/Patched Area	LF	2	0	0	2	0
1090	Exposed Rebar	LF	1	0	0	1	0
1120	Efflorescence/Rust Staining	LF	2	0	0	2	0
1130	Cracking (RC and Other)	LF	4	0	4	0	0
301	Pourable Joint Seal	LF	184	92	0	92	0
2320	Seal Adhesion	LF	92	0	0	92	0
321	Reinforced Concrete Approach Slab	SF	1896	0	1602	294	0
1080	Delamination/Spall/Patched Area	SF	130	0	0	130	0
1130	Cracking (RC and Other)	SF	164	0	0	164	0
1190	Abrasion/Wear (PSC/RC)	SF	1602	0	1602	0	0
331	Reinforced Concrete Bridge Railing	LF	180	180	0	0	0







Bridge #B3286(Routine)
I-55NB-12-LM 60.30 over DITCH NO 20

Location: 2.87 MI N JCT SH 148

Team Lead: Tim Myrick **Inspection Date:** August 05, 2020

Maintenance Needs

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

Deficiency Description

Top of deck and approach slabs have open unsealed cracks.
Joint material has some settlement.

Remarks



Bridge #B3286(Routine)
I-55NB-12-LM 60.30 over DITCH NO 20

Location: 2.87 MI N JCT SH 148

Team Lead: Tim Myrick **Inspection Date:** August 05, 2020

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

Deficiency Description

Span 2 side of Cap Bent 3 face of cap has a 3in. x 24in. impending spall between Piles 4&5.

Span 3 side of Cap Bent 3 face of cap has a 2in. x 16in. x 1/2in. spall with rebar exposed between Piles 2&3 due to steel placement.

Remarks

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

Deficiency Description

Several heavy spalled areas in both Approach Slabs, some have been repaired in past with asphalt patches, but patches are beginning to fail, up to 2 inches deep with no exposed rebar visible South approach slab has a 8ft. x 6ft. asphalt patch that is rough & impacting traffic.

Remarks





Bridge #B3286(Routine)
I-55NB-12-LM 60.30 over DITCH NO 20

Location: 2.87 MI N JCT SH 148

Team Lead: Tim Myrick **Inspection Date:** August 05, 2020

Date Reported: 10/07/2014
Priority: G - General/ Preventive maintenance
Type of Work: Repair
Status: Monitor
Component: Superstructure

Deficiency Description

Bottom of Deck, all spans, has a few hairline longitudinal cracks near centerline with a few small honeycomb areas Span 2.

Remarks



Bridge #B3286(Routine)
I-55NB-12-LM 60.30 over DITCH NO 20

Location: 2.87 MI N JCT SH 148

Team Lead: Tim Myrick **Inspection Date:** August 05, 2020

Date Reported: 10/07/2014
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Deck

Deficiency Description

Right Gutterline Span 2 near Bent 2 has a large spall, 4ft. x 3ft. area up to 2 inches deep.

Remarks

Date Reported: 08/02/2018
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Channel

Deficiency Description

Some minor embankment erosion under Spans 1 & 3.
Left end of bent 4 is beginning to undermine abutment up to 2' back under cap, exposing 1' of pile 1.
Heavy vegetation & trees growing in channel & around bridge restricting channel flow.
4.7 ft. loss of pile penetration at bent 2 since 1992.

Remarks





Bridge #B3286(Routine)
I-55NB-12-LM 60.30 over DITCH NO 20

Location: 2.87 MI N JCT SH 148

Team Lead: Tim Myrick Inspection Date: August 05, 2020

Inspection Comments

-

Deck Notes

No log posting

Both approach slabs & approach gutters have several spalled areas, especially at center line. Some have asphalt patches, up to 2" deep with no exposed rebar.

Approach slabs poured joint material is settled or missing.

Top of deck joint material has some settlement.

Top of deck has open cracks and abrasive wear to concrete.

Right gutter line span 2 near bent 2 has a large spall, 4' x 3' area up to 2" deep.

Bottom of deck, all spans, has a few longitudinal cracks near center line with a few small honeycomb areas span 2.

Soffit portion of all spans both sides has steel construction wire exposed due to lack of coverage.

Superstructure Notes

Bottom of all slab spans has some cracking.

Substructure Notes

Bent 2 cap has 2 vertical cracks.

Bent 2 pile 2 has (2)1' long vertical cracks with rust stains near bottom of cap.

Span 3 side of cap bent 3 cap, face of cap has a 2" x 16" x 1/2" spall with rebar exposed between piles 2 & 3 due to steel placement.

Span 2 side of Cap Bent 3 face of cap has a 3" x 24" impending spall between piles 4 & 5.

Bent 3 cap span 2 side over pile 7 has 2' of horizontal cracking with rust stains.

Some minor embankment erosion under Spans 1 & 3.

Left end of bent 4 is beginning to undermine, exposing 6" of pile 1.

Heavy vegetation & trees growing in channel & around bridge restricting channel flow.

4.7' loss of pile penetration at bent 2 since 1992.