



Bridge #06225(Routine)
US 63B-13 LM 4.15 over Bayou Bartholomew

Location: 0.34 Mi N I-530-PineBluff

Team Lead: Sharon Hooks Inspection Date: November 19, 2020



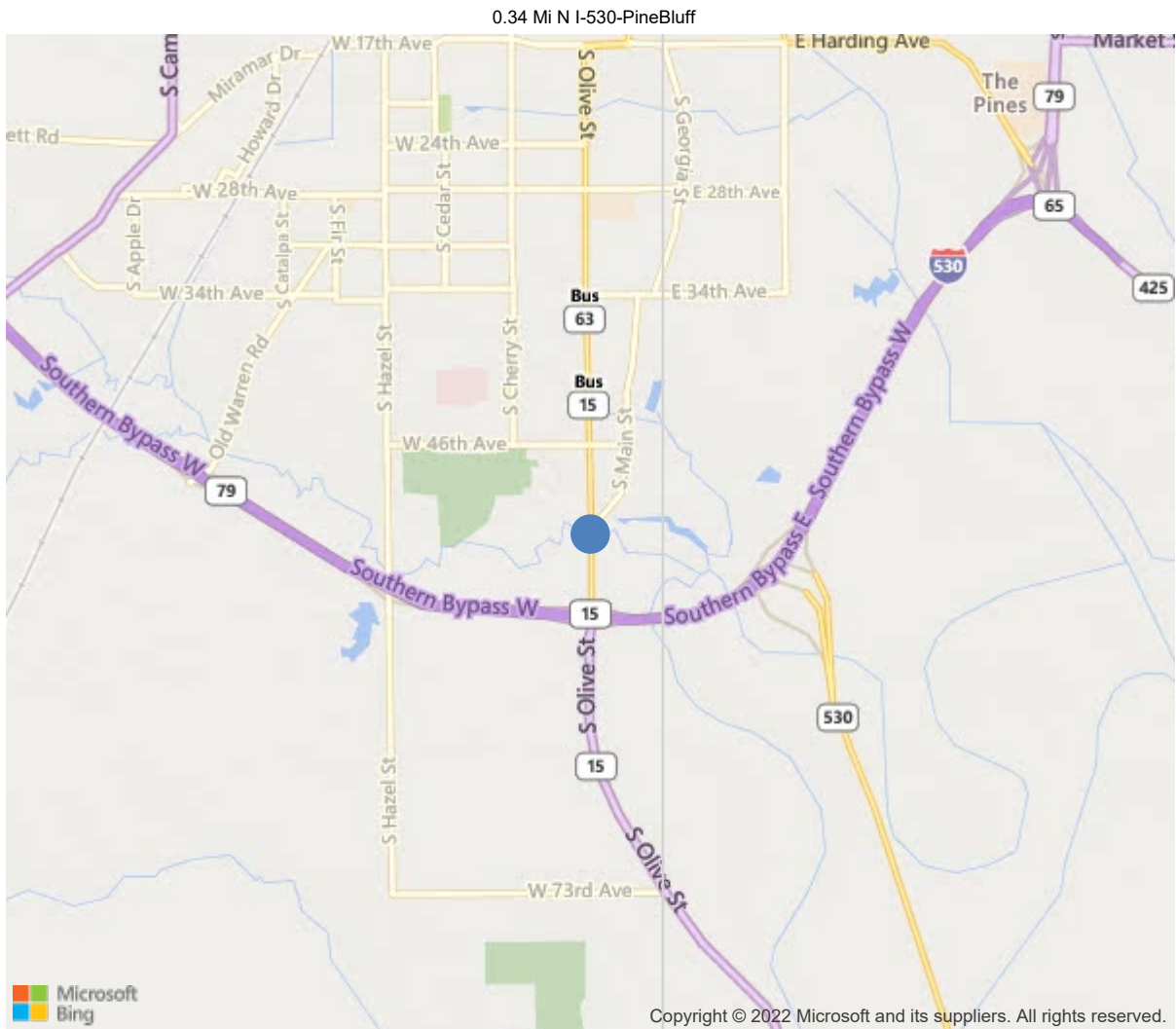
Latitude:34.17700, Longitude:-92.00640

Route:463 Section:030 Log:2.513

Arnold Road ID:35x463x3xA, Arnold Log mile:2.46

District 02, Jefferson County

Owner: 1-State Highway Agency



34.17700, -92.00640



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	06225
(5) Inventory Route	463
(2) Highway Agency District	02
(3) County Code	69-Jefferson County, Arkansas
(4) Place Code	0
(6) Features Intersected	Bayou Bartholomew
(7) Facility Carried	US 63B-13 LM 4.15
(9) Location	0.34 Mi N I-530-PineBluff
(11) Mile Point	2.513 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	000006313B
(16) Latitude	34.176999518524
(17) Longitude	-92.006399617725
(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	1990
(106) Year Reconstructed	0
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	4
Under	0
(29) Average Daily Traffic	15000
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	15 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	50 ft
(49) Structure Length	302 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	64 ft
(52) Deck Width Out to Out	66.8 ft
(32) Approach Roadway Width (W/Shoulders)	64 ft
(33) Bridge Median	0-No median
(34) Skew	0 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	65 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	0
(26) Functional Class	14-Urban Other Principal 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	7
(60) Substructure	7
(61) Channel & Channel Protection	7
(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	60
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	6
Rating	36
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	8
(68) Deck Geometry	7
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(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	1-Inspected feature meets currently a
(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	17734
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			11/2020
(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.			



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	20173	14992	1258	3923	0
1130	Cracking (RC and Other)	SF	5181	0	1258	3923	0
(12)	<p>Deck: 66.8' wide x 302' long.</p> <p>A few unsealed, minor to moderate-sized longitudinal cracks, mainly in outside lanes. Cracking is heaviest in end spans and more pronounced on left side than right.</p> <p>Span 6 left side: 75% coverage of CS3 cracking = 1252 sqft</p> <p>CS2 cracking: 4 @ 302' = 1208 sqft</p> <p>CS3 cracking: 2 @ 302' = 604 sqft</p> <p>Scattered areas of light map cracking.</p> <p>CS3 cracking: 10% = 2017 sqft</p> <p>A few scattered transverse cracks (not full width).</p> <p>CS2 cracking: 50 sqft</p> <p>CS3 cracking: 50 sqft</p> <p>Span 1 left: One unsealed, minor-sized diagonal crack, in outside (left) lane near Bent 1.</p> <p>TOTAL:</p> <p>CS2 cracking: 1258 sqft</p> <p>CS3 cracking: 3923 sqft</p>						
107	Steel Open Girder/Beam	LF	2973	2943	30	0	0
1000	Corrosion	LF	30	0	30	0	0
515	Steel Protective Coating	SF	20157	17754	2200	203	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	SF	2403	0	2200	203	0
(107)	<p>Girders: 10 per span / 297.3' total.</p> <p>Coating: (W 27 x 84) 6.78 square feet per linear feet of girder.</p> <p>Some scattered corrosion beginning where stormwater is leaking through joints.</p> <p>Girders are brown with light granular texture.</p>						
215	Reinforced Concrete Abutment	LF	140	140	0	0	0
(215)	<p>Abutments: 70' each / Bents 1 & 7.</p> <p>Some settlement of slope material from under caps, leaving some small void areas. (per DBH: No action at this time. Continue to monitor.)</p>						
227	Reinforced Concrete Pile	EA	50	50	0	0	0
(227)	<p>Piling: 10 per bent / Bents 2-6.</p>						
234	Reinforced Concrete Pier Cap	LF	340	337	3	0	0
1120	Efflorescence/Rust Staining	LF	3	0	3	0	0

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(234)							
Caps: 68' each / Bents 2-6. Bent 2 ahead has small horizontal crack near cold joint. Bent 3 has light efflorescence at cold joint.							
302	Compression Joint Seal	LF	448	0	146	214	88
2320	Seal Adhesion	LF	20	0	8	0	12
2330	Seal Damage	LF	152	0	0	76	76
2340	Seal Cracking	LF	276	0	138	138	0
(302)							
Joints: 64' each / Bents 1-7. Bent 1: Some tattering and damage to joint, mainly on right shoulder and right outer lane. (CS3 damage 12') Bent 2: Significant tattering and damage to joint in center of right side travel lanes. (CS3 damage 8') Bent 3: Significant tattering and damage to joint across travel lanes and right shoulder. (CS3 damage 56') Bent 4 left: Joint material has fallen out of place on left shoulder. (Adhesion CS4 12') Heavy tattering and damage to remaining joint material. (CS4 damage 52') Bent 5: A couple areas of sagging with debris build-up on top of joint material, mainly in right side travel lanes. (CS3 adhesion 8') Bent 6: Heavy significant tattering and damage across left side travel lanes. (CS4 damage 24')							
Remaining joints: Some scattered minor cracking, light tattering and damage (CS2 cracking 138', CS3 cracking 138').							
311	Movable Bearing	EA	60	45	15	0	0
1000	Corrosion	EA	15	0	15	0	0
515	Steel Protective Coating	SF	60	60	0	0	0
(311)							
Moveable bearings: 10 per bent / Bents 2b, 3b, 4a, 4b, 5a, & 6a. Coating: 1 square feet each. Some light rust forming due to leaking joints.							
313	Fixed Bearing	EA	60	45	15	0	0
1000	Corrosion	EA	15	0	15	0	0
515	Steel Protective Coating	SF	60	60	0	0	0
(313)							
Fixed bearings: 10 per bent / Bents 1, 2a, 3a, 5b, 6b, & 7. Coating: 1 square feet each. Some light rust forming due to leaking joints.							
331	Reinforced Concrete Bridge Railing	LF	600	600	0	0	0
(331)							
Railing: 300' each side.							



Bent 2 ahead has small horizontal crack with light efflorescence near cold joint.



Overview of soffit and girders.



Typical girder condition.



Approach.



Bent 4 left seal missing in shoulder area.



Joint seals torn and leaking.



Deck overview.

Maintenance Needs

Date Reported: 11/15/2012
Priority: G - General/ Preventive maintenance
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Deck – all spans: A few unsealed, minor-sized longitudinal cracks, mainly in outside lanes.

Remarks



Deck - Span 2 left : Cracking



Deck - Span 6 left : Heavy cracking



Deck - Span 1 (longitudinal cracking)



Deck - Span 6 left (longitudinal cracking)

Date Reported: 11/15/2012
Priority: C - Important
Type of Work: N/A
Status: Assigned
Component:

Deficiency Description

Joints -

Bent 1: Some tattering and damage to joint, mainly on right shoulder and right outer lane.

Bent 2: Significant tattering and damage to joint in center of right side travel lanes.

Bent 3: Significant tattering and damage to joint across travel lanes and right shoulder.

Bent 4 left: Joint material has fallen out of place on left shoulder. Heavy tattering and damage to remaining joint material.

Bent 5: A couple areas of sagging with debris build-up on top of joint material, mainly in right side travel lanes.

Bent 6: Heavy significant tattering and damage across left side travel lanes.

Remaining joints: Some scattered minor cracking, light tattering and damage.

Remarks



Joint - Bent 3 (damage)



Joint - Bent 1 : Tattering



Joint - Bent 4: Loss of adhesion



Joint - Bent 4 (damage & loss of adhesion)



Joint - Bent 5 (loss of adhesion)



Joint - Bent 1 right (damage)



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Joint - Bent 2 : Damaged



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Date Reported: 11/15/2012
Priority: G - General/ Preventive maintenance
Type of Work: N/A
Status: Monitor
Component:

Deficiency Description

Deck – Span 1 left: One unsealed, hairline- to minor-sized diagonal crack, in outside (left) lane near Bent 1.

Remarks



Deck - Span 1 left (diagonal crack)

Date Reported: 11/19/2014

Priority: D- Routine

Type of Work: N/A

Status: Monitor

Component:

Deficiency Description

Approach roadway – Bent 1: Some deterioration and minor settlement of roadway right at bridge ends, resulting in a slight bump going onto or coming off bridge.

Gap between asphalt and backwall is allowing stormwater to leak down behind backwall and abutment and cause minor erosion on end slope.

Remarks



Approach roadway - Bent 1 : Pot hole and cracking



Approach roadway - Bent 1 (settlement)



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Inspection Comments

Bridge is logged from north to south.