

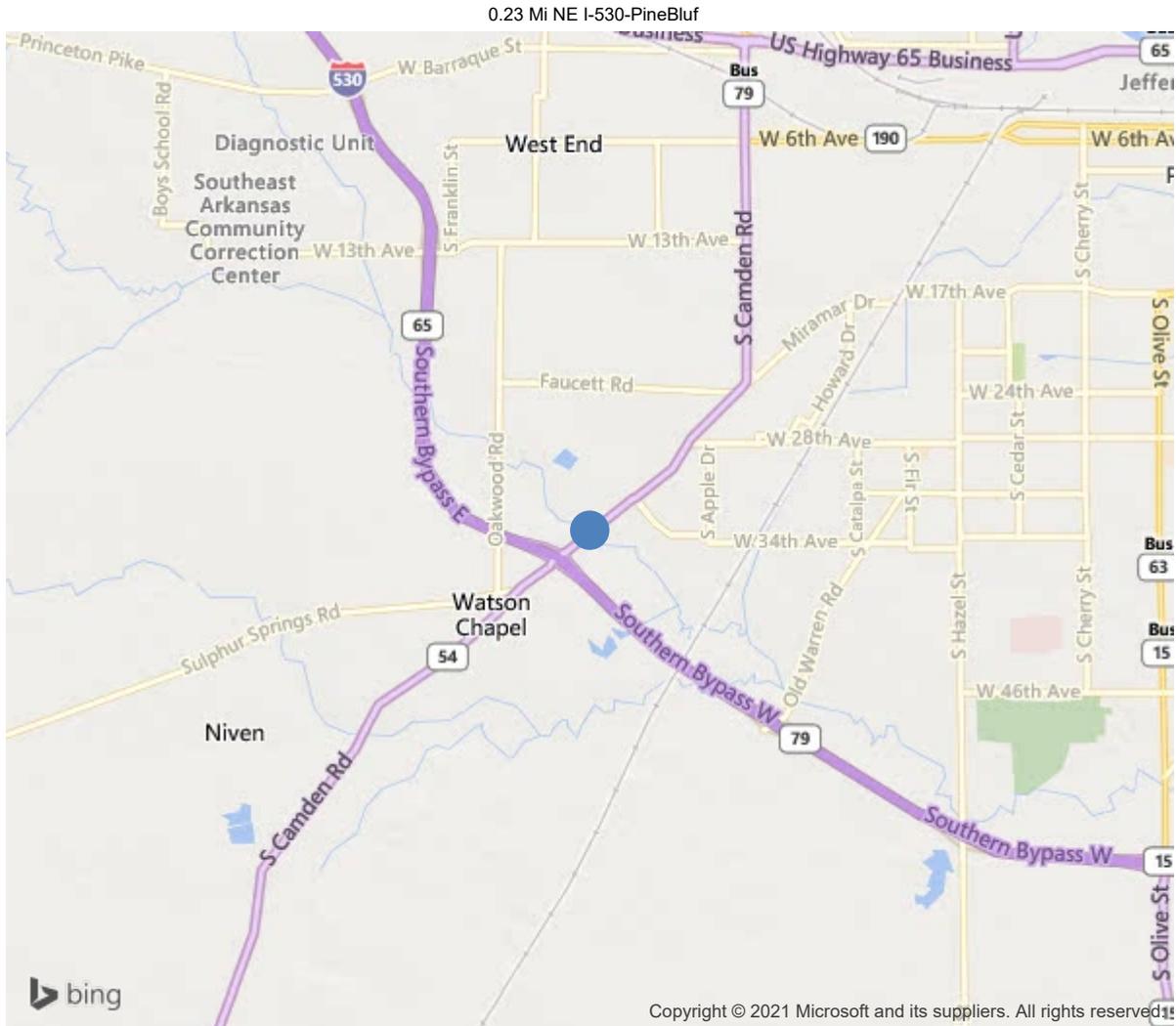


**Bridge #02093(Routine)**

**US 79B-09 LM 0.23 over Bayou Bartholomew**

**Location: 0.23 Mi NE I-530-PineBluf**

**Team Lead: Sharon Hooks Inspection Date: December 09, 2019**



34.19528, -92.05716



IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	02093
(5) Inventory Route	79
(2) Highway Agency District	02
(3) County Code	69-Jefferson County, Arkansas
(4) Place Code	52800
(6) Features Intersected	Bayou Bartholomew
(7) Facility Carried	US 79B-09 LM 0.23
(9) Location	0.23 Mi NE I-530-PineBluf
(11) Mile Point	0.23 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000079090
(16) Latitude	34.195279996305
(17) Longitude	-92.0571563389566
(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	1938
(106) Year Reconstructed	1979
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	4
Under	0
(29) Average Daily Traffic	14000
(30) Year of ADT	2014
(109) Truck ADT	7 %
(19) Bypass, Detour Length	10 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	34 ft
(49) Structure Length	172 ft
(50) Curb or Sidewalk Width	
Left	3 ft
Right	3 ft
(51) Bridge Roadway Width Curb to Curb	49.9 ft
(52) Deck Width Out to Out	58 ft
(32) Approach Roadway Width (W/Shoulders)	49.9 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	56.1 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	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	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	8
(61) Channel & Channel Protection	8
(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	5
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	6
(68) Deck Geometry	3
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36) Traffic Safety Features	1101
A) Bridge Railings	1-Inspected feature meets currently a
B) Transitions	1-Inspected feature meets currently a
C) Approach Guardrail	0-Inspected feature does not meet cur
D) 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	19001
(115) Year of Future ADT	2028
INSPECTIONS	
(90) Inspection Date	
(91) Frequency	24 Months
(92) Critical Feature Inspection	Done Freq. (Mon) Date
A: Fracture Critical Detail	No 24
B: Underwater Inspection	No 0
C: Other Special Inspection	No 0



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	8600	0	2752	5848	0
1130	Cracking (RC and Other)	SF	5848	0	0	5848	0
1190	Abrasion/Wear (PSC/RC)	SF	2752	0	2752	0	0
(12)							
Deck: 50' wide x 172' long. Unsealed, hairline- to moderate-sized map cracking in surface of deck with some concentrated transverse cracking within 2' of each joint. (Heaviest at Span 1 right outside lane adjacent to Bent 2.) Abrasive wear from traffic in wheel paths (16' x 172' = 2752 sqft).							
107	Steel Open Girder/Beam	LF	1548	1438	10	100	0
1000	Corrosion	LF	110	0	10	100	0
515	Steel Protective Coating	SF	9598	8916	0	62	620
3440	Effectiveness (Steel Protective Coatings)	SF	682	0	0	62	620
(107)							
Girders: 9 per span / 172' total span. Coating: 6.2 square feet per linear feet of girder. Girders 1-5 (all spans) have corrosion with some minor flaking and section loss on end 2' - some old section loss on webs at haunches (CS3 100') Girder 9 (all spans) have corrosion with only initial pitting and section loss on outer 1' (CS2 10') Span 5 Girder 9 right @ Bent 5: 3-4" scratch in web with rust.							
215	Reinforced Concrete Abutment	LF	132	121	8	3	0
1090	Exposed Rebar	LF	3	0	0	3	0
1130	Cracking (RC and Other)	LF	8	0	8	0	0
(215)							
Abutments: 66' each / Bents 1 & 6. Bent 6 has spalling and cracking in abutment.							
227	Reinforced Concrete Pile	EA	32	23	9	0	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
1190	Abrasion/Wear (PSC/RC)	EA	8	0	8	0	0
(227)							
Piling: 8 per bent / Bents 2-5. Bent 3 & 4 pile 1-4 have some abrasion to lower 2' Bent 3 pile 8 has small spall near cap.							
234	Reinforced Concrete Pier Cap	LF	216	192	16	8	0
1130	Cracking (RC and Other)	LF	24	0	16	8	0
(234)							
Caps: 54' each / Bents 2-5.							



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
Caps at cold joint have horizontal cracking in new sections (4' each). Bent 2, 4 & 5 cap right side have heavy map cracking.							
302	Compression Joint Seal	LF	300	75	100	125	0
2310	Leakage	LF	150	0	100	50	0
2330	Seal Damage	LF	75	0	0	75	0
(302)							
Joints: 50' each / Bents 1-6. All joint material is torn and leaking in some areas. Some scattered very minor spalling (chipping) along back edge of road iron - the road iron appears to be beginning to loosen from deck in many locations (very minor gap/crack).							
311	Movable Bearing	EA	45	15	5	25	0
1000	Corrosion	EA	30	0	5	25	0
515	Steel Protective Coating	SF	45	20	0	0	25
3440	Effectiveness (Steel Protective Coatings)	SF	25	0	0	0	25
(311)							
Moveable bearings: 9 per bent / Bents 2 back, 3 back, 4 back, 5 back & ahead. Pack rust between masonry plates and rockers of left side (Bearings 1-5) movable bearings. Some light corrosion on right side outer bearings (Bearings 9).							
313	Fixed Bearing	EA	45	15	20	10	0
1000	Corrosion	EA	30	0	20	10	0
515	Steel Protective Coating	SF	45	15	0	20	10
3440	Effectiveness (Steel Protective Coatings)	SF	30	0	0	20	10
(313)							
Fixed bearings: 9 per bent / Bents 1, 2 ahead, 3 ahead, 4 ahead, & 6. Pack rust on masonry plates of Bearings 1 & 5. Some initial corrosion on Bearings 2-4 & 9.							
330	Metal Bridge Railing	LF	344	344	0	0	0
515	Steel Protective Coating	SF	757	757	0	0	0
(330)							
Railing: 172' each side. Coating: 2.2 square feet per linear feet of railing. Concrete curb topped with metal railing.							
331	Reinforced Concrete Bridge Railing	LF	344	344	0	0	0
(331)							
Railing: 172' each side. Concrete curb topped with metal railing.							



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## **Maintenance Needs**



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**Inspection Comments**

Bridge is logged from southwest to northeast.