



Latitude:35.49044, Longitude:-91.97442

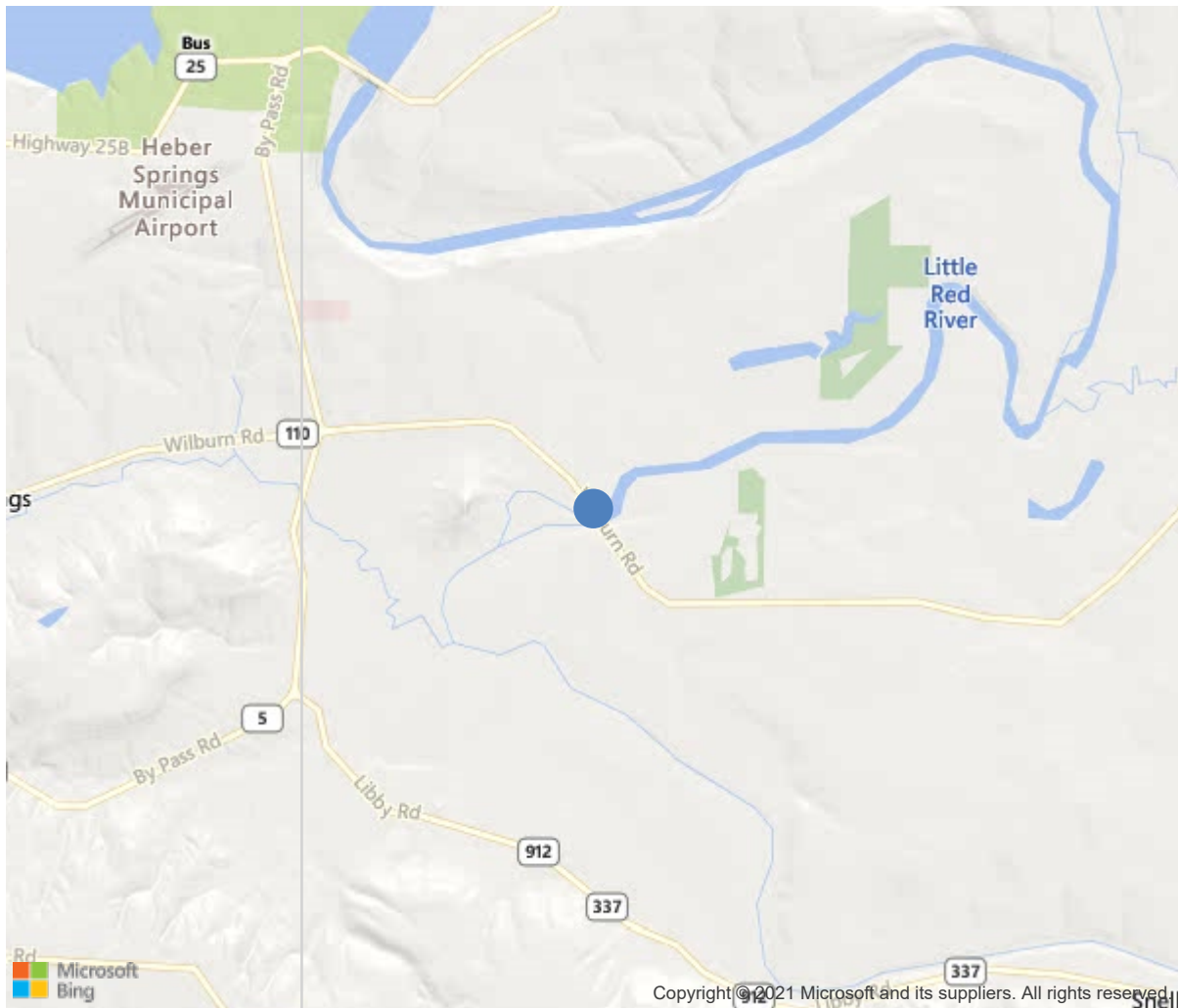
Route:110 Section:06 Log:3.39

Arnold Road ID:12x110x6xA, Arnold Log mile:3.376

District 05, Cleburne County

Owner: 1-State Highway Agency

3.45 MI E JCT SH 25



35.49044, -91.97442



Bridge #05293(Routine, Underwater type 2)

SH 110/Cleburne Co over LITTLE RED RIVER

Location: 3.45 MI E JCT SH 25

Team Lead: Nathan Edwards Inspection Date: December 09, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	05293
(5) Inventory Route	110
(2) Highway Agency District	05
(3) County Code	23-Cleburne County, Arkansas
(4) Place Code	0
(6) Features Intersected	LITTLE RED RIVER
(7) Facility Carried	SH 110/Cleburne Co
(9) Location	3.45 MI E JCT SH 25
(11) Mile Point	3.39 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.4904382158985
(17) Longitude	-91.97442186194
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	42
Material	4-Steel continuous
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	1971
(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	3800
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	36 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	103 ft
(49) Structure Length	600 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	34.1 ft
(52) Deck Width Out to Out	37.7 ft
(32) Approach Roadway Width (W/Shoulders)	22 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	35.1 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	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	7-Rural Major Collector
(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	7
(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	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	6
(68) Deck Geometry	5
(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	0-Inspected feature does not meet cur
(113) Scour Critical Bridges	8-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	4467
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			12/2020
(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		12/2019
* 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 #05293(Routine, Underwater type 2)

SH 110/Cleburne Co over LITTLE RED RIVER

Location: 3.45 MI E JCT SH 25

Team Lead: Nathan Edwards, Inspection Date: December 09, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	21570	8001	12985	584	0
1080	Delamination/Spall/Patched Area	SF	48	0	0	48	0
1090	Exposed Rebar	SF	36	0	0	36	0
1120	Efflorescence/Rust Staining	SF	985	0	985	0	0
1130	Cracking (RC and Other)	SF	5200	0	5000	200	0
1190	Abrasion/Wear (PSC/RC)	SF	7300	0	7000	300	0
(12)	See attached Form-III for detailed descriptions and locations of deficiencies.						
107	Steel Open Girder/Beam	LF	3585	3528	26	31	0
1000	Corrosion	LF	54	0	24	30	0
1020	Connection	LF	3	0	2	1	0
515	Steel Protective Coating	SF	31512	31424	48	0	40
3440	Effectiveness (Steel Protective Coatings)	SF	88	0	48	0	40
(107)	See attached Form-III for detailed descriptions and locations of deficiencies.						
161	Steel Pin, Pin and Hanger Assembly	EA	12	1	8	3	0
1000	Corrosion	EA	8	0	8	0	0
1020	Connection	EA	3	0	0	3	0
515	Steel Protective Coating	SF	24	24	0	0	0
(161)	See attached Form-III for detailed descriptions and locations of deficiencies.						
205	Reinforced Concrete Column	EA	10	10	0	0	0
210	Reinforced Concrete Pier Wall	LF	100	80	20	0	0
1130	Cracking (RC and Other)	LF	20	0	20	0	0
215	Reinforced Concrete Abutment	LF	113	113	0	0	0
234	Reinforced Concrete Pier Cap	LF	203	191	12	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	11	0	11	0	0
(234)	Spall with 4" of exposed rebar at Right end of Cap at Bent 4. @ Bent 5.						
					5 minor vertical cracks to cap		

Bridge #05293(Routine, Underwater type 2)
SH 110/Cleburne Co over LITTLE RED RIVER

Location: 3.45 MI E JCT SH 25

Team Lead: Nathan Edwards, **Inspection Date:** December 09, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
303	Assembly Joint with Seal	LF	158	158	0	0	0
311	Movable Bearing	EA	24	18	6	0	0
1000	Corrosion	EA	6	0	6	0	0
515	Steel Protective Coating	SF	48	48	0	0	0
313	Fixed Bearing	EA	18	11	7	0	0
1000	Corrosion	EA	6	0	6	0	0
1020	Connection	EA	1	0	1	0	0
515	Steel Protective Coating	SF	36	36	0	0	0
330 (330)	Metal Bridge Railing	LF	2400	2400	0	0	0
Right Approach rail @ Abutment 2 has 3 damaged posts.							



Roadway with Log Mile running Northwest to Southeast.

Maintenance Needs

Date Reported: 12/18/2012

Priority: D- Routine

Type of Work: None

Status: Monitor

Component:

Deficiency Description

Drift at Bents 3 & 4.

Remarks



Drift @ Bent 3.



Drift @ Bent 4.

Date Reported: 12/18/2012

Priority: D- Routine

Type of Work: None

Status: Monitor

Component:

Deficiency Description

Assembly Joints

Asphalt and debris in slide plate joints.

Remarks



Joint 5A has debris in slide plate.



Abutment 2 - Debris in Joint slide plate.



Abutment 1 slide plate joint assembly has asphalt & debris.

Date Reported: 12/18/2012

Priority: D- Routine

Type of Work: None

Status: Monitor

Component:

Deficiency Description

Superstructure

Span 2 - 1 loose bolt at 2nd diaphragm connection ahead of field splice between Girders 1 & 2.

Bent 5 - Loose bolt at Girder 3 and bearing connection.

Span 5 - 1 bolt missing at 1st diaphragm back from field splice at Girder 4.

Remarks



Bent 5 Girder 3 at Bearing connection.



Span 2 - 1 loose bolt at 2nd diaphragm connection ahead of field splice between Girders 1 & 2.



Span 5 - 1 Bolt missing at 1st diaphragm Back
from field splice at Girder 4.



Bridge #05293(Routine, Underwater type 2)
SH 110/Cleburne Co over LITTLE RED RIVER

Location: 3.45 MI E JCT SH 25

Team Lead: Nathan Edwards **Inspection Date:** December 09, 2020

Inspection Comments

Elevation with Log Mile running to the Left.

See attached Form-III for detailed descriptions and locations of deficiencies.

KBL12/12/2018 - Special Insp. added this inspection to alternate between regular inspections to check all Pins. KBL