



Latitude:34.29743, Longitude:-91.47064

Route:165 Section:05 Log:30.42

Arnold Road ID:1x165x5xA, Arnold Log mile:30.606

District 02, Arkansas County

Owner: 1-State Highway Agency



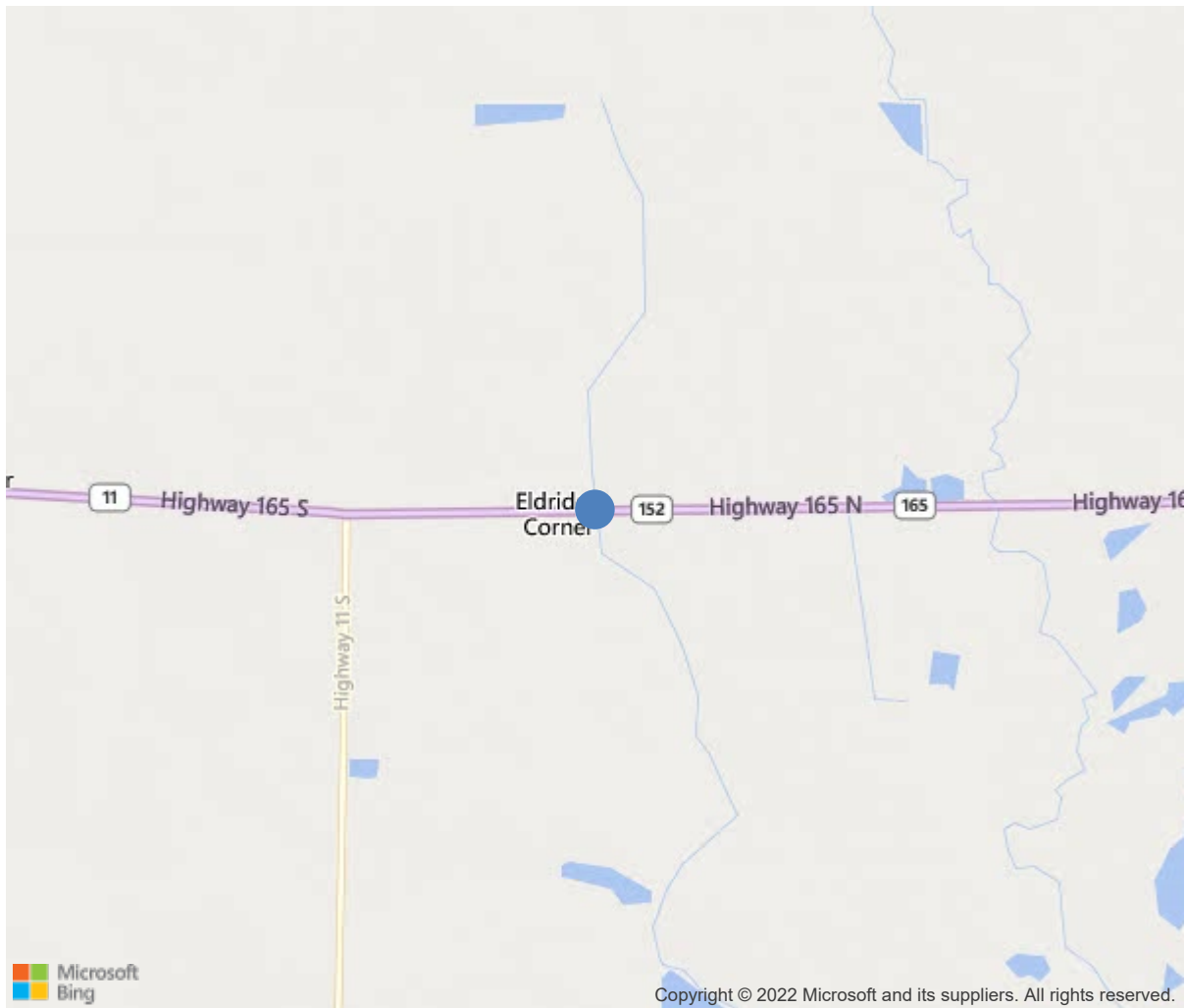
Bridge #02890(Routine)

US 165-05 LM 30.42 over Hurricane Bayou

Location: 1.2 Mi E SH 11-LodgeCorm

Team Lead: Greg Loomis Inspection Date: September 27, 2021

1.2 Mi E SH 11-LodgeCorm



34.29743, -91.47064

Inspection Direction : E to W



Bridge #02890(Routine)
US 165-05 LM 30.42 over Hurricane Bayou
Location: 1.2 Mi E SH 11-LodgeCmn

Team Lead: Greg Loomis Inspection Date: September 27, 2021

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	02890
(5) Inventory Route	165
(2) Highway Agency District	02
(3) County Code	1-Arkansas County, Arkansas
(4) Place Code	0
(6) Features Intersected	Hurricane Bayou
(7) Facility Carried	US 165-05 LM 30.42
(9) Location	1.2 Mi E SH 11-LodgeCmn
(11) Mile Point	30.42 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000165050
(16) Latitude	34.29743
(17) Longitude	-91.47064
(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	1953
(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	2200
(30) Year of ADT	2018
(109) Truck ADT	15 %
(19) Bypass, Detour Length	18 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	75 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	26 ft
(52) Deck Width Out to Out	29.5 ft
(32) Approach Roadway Width (W/Shoulders)	27.9 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	25.6 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	2-Rural Principal Arterial - Oth
(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	7
(59) Superstructure	7
(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	49.1
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	3
Rating	30
(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	2
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(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	1-Inspected feature meets currently a
(113) Scour Critical Bridges	5-Bridge foundations determined to be
PROPOSED IMPROVEMENTS	
(75) Type of Work	Replacement of bridge or other
(76) Length of Structure Improvement	101 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 235
(96) Total Project Cost	\$ 507
(97) Year of Improvement Cost Estimate	2002
(114) Future ADT	2920
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			09/2021
(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 #02890 (Routine)
US 165-05 LM 30.42 over Hurricane Bayou
Location: 1.2 Mi E SH 11-Lodge Corner

Team Lead: Greg Loomis, **Inspection Date:** September 27, 2021

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	2212	2046	150	16	0
1090	Exposed Rebar	SF	16	0	0	16	0
1120	Efflorescence/Rust Staining	SF	25	0	25	0	0
1130	Cracking (RC and Other)	SF	125	0	125	0	0
(38)							
Deck: 29'-6" wide (NOT including railing posts) x 75' long = 2212 sqft.							
NOTE: Healer sealer applied to deck surface in mid-2019. (Cracks have been sealed - CS2.)							
Healer-sealer: Larger cracks appear to be opening back up - scattered breaks in seal - 2021 inspection.							
Spans 1 & 3: A couple unsealed, moderate-sized, transverse or longitudinal cracks.							
Soffit -							
Span 1: Longitudinal crack with efflorescence along center-line / spalling with exposed rebar near mid-span.							
Spans 1-3: Some spalling/delamination around drains with rebar exposed (14 sqft).							
215	Reinforced Concrete Abutment	LF	76	46	10	20	0
1080	Delamination/Spall/Patched Area	LF	10	0	10	0	0
6000	Scour	LF	20	0	0	20	0
(215)							
Abutments: 30' each (with approximately 4' wings each corner) / Bents 1 & 4.							
Bent 1: Small contact spalls under slab near both ends.							
Bent 4 - right side: Some minor erosion/settlement of fill material under cap exposing pile and bottom of cap to roadway.							
227	Reinforced Concrete Pile	EA	11	3	8	0	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
1190	Abrasion/Wear (PSC/RC)	EA	7	0	7	0	0
(227)							
Piling: 4 per bent / Bents 2 & 3; 3 per bent (exposed due to settlement/erosion) / Bent 4.							
Bent 2 Pile 1: Very small spall 5' down from top on ahead face.							
Bents 2 & 3: Light abrasive wear to all pile.							
234	Reinforced Concrete Pier Cap	LF	60	54	4	2	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
1090	Exposed Rebar	LF	4	0	2	2	0
(234)							
Caps: 29'-9" = 30' each / Bents 2 & 3.							
Bent 2 & 3: Small spalls with some light exposed rebar on ahead side at Pile 2. (4')							
Bent 3: Scalling on left and right end (1.5" deep).							
304	Open Expansion Joint	LF	120	0	120	0	0
2350	Debris Impaction	LF	120	0	120	0	0

Team Lead: Greg Loomis, **Inspection Date:** September 27, 2021

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(304)							
Joints: 30' each / Bents 1-4. No pourable joint material in place – joints are filled with dirt and debris (CS2 impacted).							
330	Metal Bridge Railing	LF	300	300	0	0	0
515	Steel Protective Coating	SF	750	750	0	0	0
(330)							
Railing: 150' each side (double railing @ 75' each). Coating: 2.5 square feet/linear feet of railing. Metal railing on metal posts (at curb line) inside metal railing on concrete posts.							



Roadway view



Deck - Spans 1-3: Typical



Soffit - Span 2: Typical

Maintenance Needs

Date Reported: 08/18/2011
Priority: C - Important
Type of Work: Repair
Status: Open
Inspection Direction E to W
Component: 304 - Open Expansion Joint

Deficiency Description

Joints – Bents 2 & 3:
No pourable joint material in place – joints are filled with dirt and debris.

09-27-2021 GGL-PRD: Changed priority from "D" to "C".

Remarks

Clean joint, and replace pourable joint material



Joint - Bent 2 : Impacted

Date Reported: 09/01/2015
Priority: D- Routine
Type of Work: Repair
Status: Assigned
Inspection Direction E to W
Component: 38 - RC Slab

Deficiency Description

Soffit -

Span 1: Longitudinal crack with efflorescence along center-line / spalling with exposed rebar near mid-span.

Spans 1-3: Some spalling/delamination around drains with rebar exposed (14 sqft).

Remarks

Remove de-lam areas, patch back and cover exposed steel



Soffit - Span 1 : Efflorescence and Exposed Rebar



Soffit - Span 3 left



Soffit - Span 3 left: Rebar exposed at drain

Date Reported: 08/16/2017
Priority: D- Routine
Type of Work: Repair
Status: Monitor
Inspection Direction E to W
Component: 234 - Reinforced Concrete Pier Cap

Deficiency Description

Caps -

Bent 2 & 3: Small spalls with some light exposed rebar on ahead side at Pile 2.

Bent 3: Scalling on left and right end (1.5" deep).

Remarks



Spalls with exposed rebar on bent 2 cap ahead near mid span .



Bent 3 cap right end has small spall .

Date Reported: 09/27/2021
Priority: B - Pressing; 6 month completion goal
Type of Work: Repair
Status: Open
Inspection Direction E to W
Component: Approach

Deficiency Description

Approach roadway - Bents 1 & 4: Significant deterioration of asphalt wearing surface - cracking, delaminations, and spalls (potholes) on each end of bridge.

Remarks



Approach roadway - Bent 1: Deterioration of asphalt wearing surface



Approach roadway - Bent 4: Deterioration of asphalt wearing surface



Bridge #02890(Routine)

US 165-05 LM 30.42 over Hurricane Bayou

Location: 1.2 Mi E SH 11-LodgeCorny

Team Lead: Greg Loomis **Inspection Date:** September 27, 2021

Inspection Comments

Bridge is logged from east to west.