



Latitude:33.77398, Longitude:-91.47980

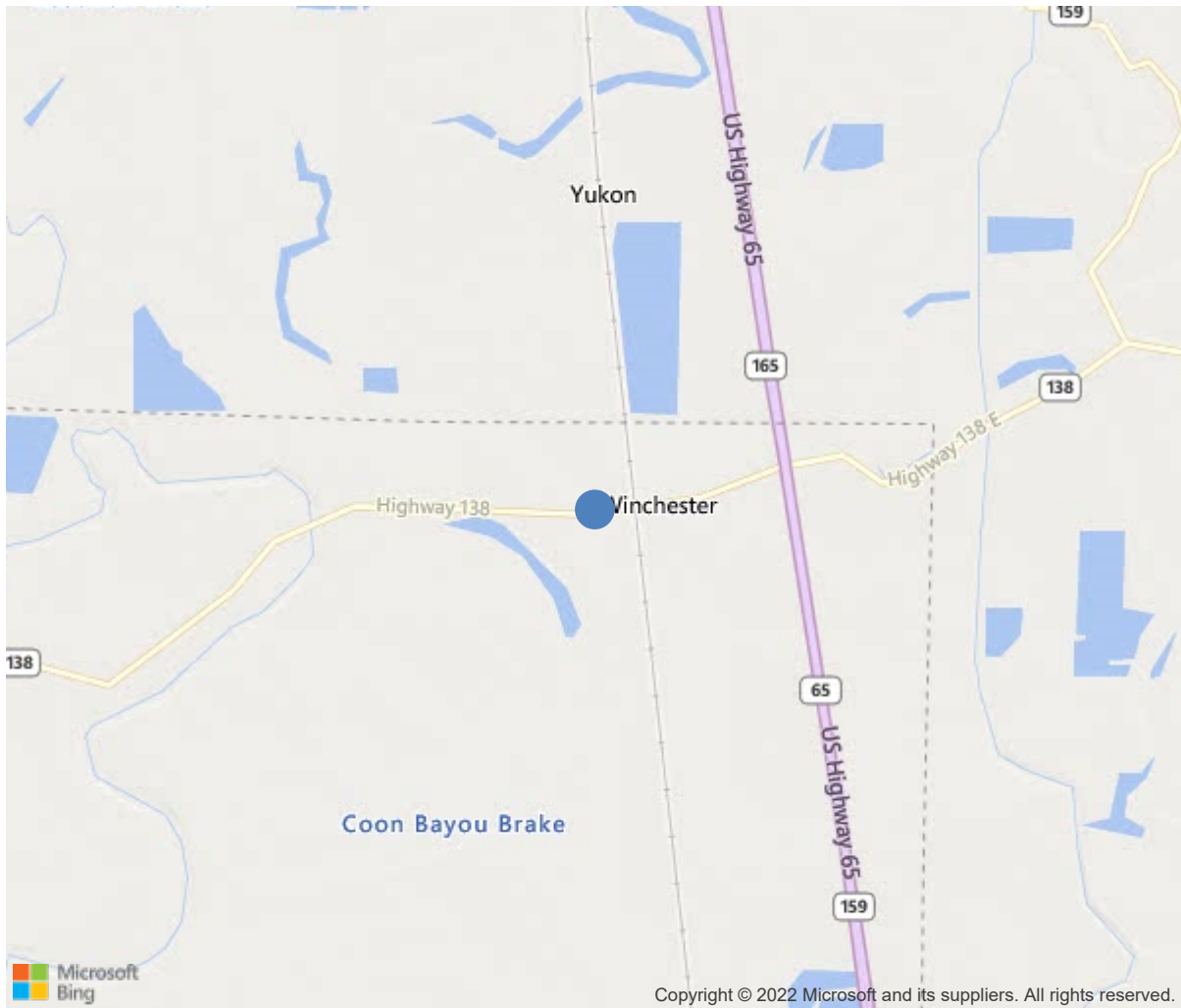
Route:138 Section:03 Log:22.42

Arnold Road ID:22x138x3xA, Arnold Log mile:22.414

District 02, Drew County

Owner: 1-State Highway Agency

0.9 Mi W US 65-Winchester



33.77398, -91.47980

Inspection Direction : W to E



Bridge #05437(Routine, Underwater type 2)

SH 138-03 LM 22.42 over Coon Bayou

Location: 0.9 Mi W US 65-Winchester

Team Lead: Sharon Hooks Inspection Date: July 13, 2021

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	05437
(5) Inventory Route	138
(2) Highway Agency District	02
(3) County Code	43-Drew County, Arkansas
(4) Place Code	0
(6) Features Intersected	Coon Bayou
(7) Facility Carried	SH 138-03 LM 22.42
(9) Location	0.9 Mi W US 65-Winchester
(11) Mile Point	22.42 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.7739803005455
(17) Longitude	-91.4798011782434
(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	1972
(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	780
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	17 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	25.9 ft
(52) Deck Width Out to Out	29 ft
(32) Approach Roadway Width (W/Shoulders)	29.9 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	27.2 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	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	8
(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	56
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	3
Rating	34
(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	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	774
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	07/2021		
(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.			

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	2610	1124	766	720	0
1080	Delamination/Spall/Patched Area	SF	2	0	2	0	0
1130	Cracking (RC and Other)	SF	1484	0	764	720	0
(38)							
Deck: 29' wide x 90' long = 2610 sqft. Spans 1 & 3: Widespread, moderate-sized cracks - cracking CS2 714 sqft, CS3 720 sqft. Span 2 : A few scattered cracks - cracking CS2 50 sqft. Span 3 @ Bent 4: Small shallow delamination/spall on right side @ end of slab - spalling CS3 6 sqft							
Cracking on outside of slabs on side face over bents.							
215	Reinforced Concrete Abutment	LF	74	74	0	0	0
(215)							
Abutments: 29' each (with 4' wing each corner) \ Bents 1 & 4.							
227	Reinforced Concrete Pile	EA	8	0	8	0	0
1190	Abrasion/Wear (PSC/RC)	EA	8	0	8	0	0
(227)							
Piling: 4 per bent / Bents 2 & 3. All pile have light abrasive wear from water.							
234	Reinforced Concrete Pier Cap	LF	57	57	0	0	0
(234)							
Caps: 28.5' each \ Bents 2 & 3. Some minor staining due to joint material leaking.							
301	Pourable Joint Seal	LF	58	0	0	58	0
2350	Debris Impaction	LF	58	0	0	58	0
(301)							
Joints: 28.5' = 29' each \ Bents 2 & 3. Pourable joint material has deteriorated completely away - joints are filled with dirt and other debris. Some minor chipping/spalling of edges of concrete.							
331	Reinforced Concrete Bridge Railing	LF	180	178	2	0	0
1090	Exposed Rebar	LF	2	0	2	0	0
(331)							
Railing: 90' each side. Bent 1 right: End of parapet rail/transition post has extensive spalling/scaling with exposed rebar.							



Approach.



Moderate deck cracking at span 1 right lane. Common all spans.



Under view of span 1.



Deck overview.



Bridge #05437(Routine, Underwater type 2)

SH 138-03 LM 22.42 over Coon Bayou

Location: 0.9 Mi W US 65-Winchester

Team Lead: Sharon Hooks **Inspection Date:** July 13, 2021

Maintenance Needs

Date Reported: 07/18/2011

Priority: D- Routine

Type of Work: N/A

Status: Monitor

Inspection Direction W to E

Component:

Deficiency Description

Joints - Bents 2 & 3: Pourable joint material has deteriorated completely away - joints are filled with dirt and other debris. Some minor chipping/spalling of edges of concrete.

Remarks



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SH 138-03 LM 22.42 over Coon Bayou

Location: 0.9 Mi W US 65-Winchester

Team Lead: Sharon Hooks **Inspection Date:** July 13, 2021

Date Reported: 07/31/2019
Priority: G - General/ Preventive maintenance
Type of Work: N/A
Status: Monitor
Inspection Direction W to E
Component:

Deficiency Description

Deck -
Spans 1 & 3: Widespread, moderate-sized cracks.
Span 2 : A few scattered cracks - cracking.
Span 3 @ Bent 4: Small shallow delamination/spall on right side @ end of slab

Remarks

Date Reported: 07/07/2015
Priority: C - Important
Type of Work: N/A
Status: Assigned

Inspection Direction W to E

Component:

Deficiency Description

Railing - Bent 1 right: End of parapet rail/transition post has extensive spalling/scaling with exposed rebar.

07-31-2019 GGL-KLR: Changed priority from "G" to "C".

Remarks

Work on this as soon as your schedule permits



Southwest bridge end post



Bent 1 - Right : Damage



Bent 1 right side end rail has spall with exposed rebar.



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SH 138-03 LM 22.42 over Coon Bayou

Location: 0.9 Mi W US 65-Winchester

Team Lead: Sharon Hooks **Inspection Date:** July 13, 2021

Inspection Comments

Bridge is logged from west to east.