



Latitude:36.37535, Longitude:-90.31113

Route:53 Section:00 Log:5.36

Arnold Road ID:11xCLAY450RDx2xA, Arnold Log mile:5.334

District 10, 21 - Clay County

Owner: 2 - County Highway Agency

Bridge Posting Information

41 - Structure Open/Posted/Closed: A - Open, no restriction

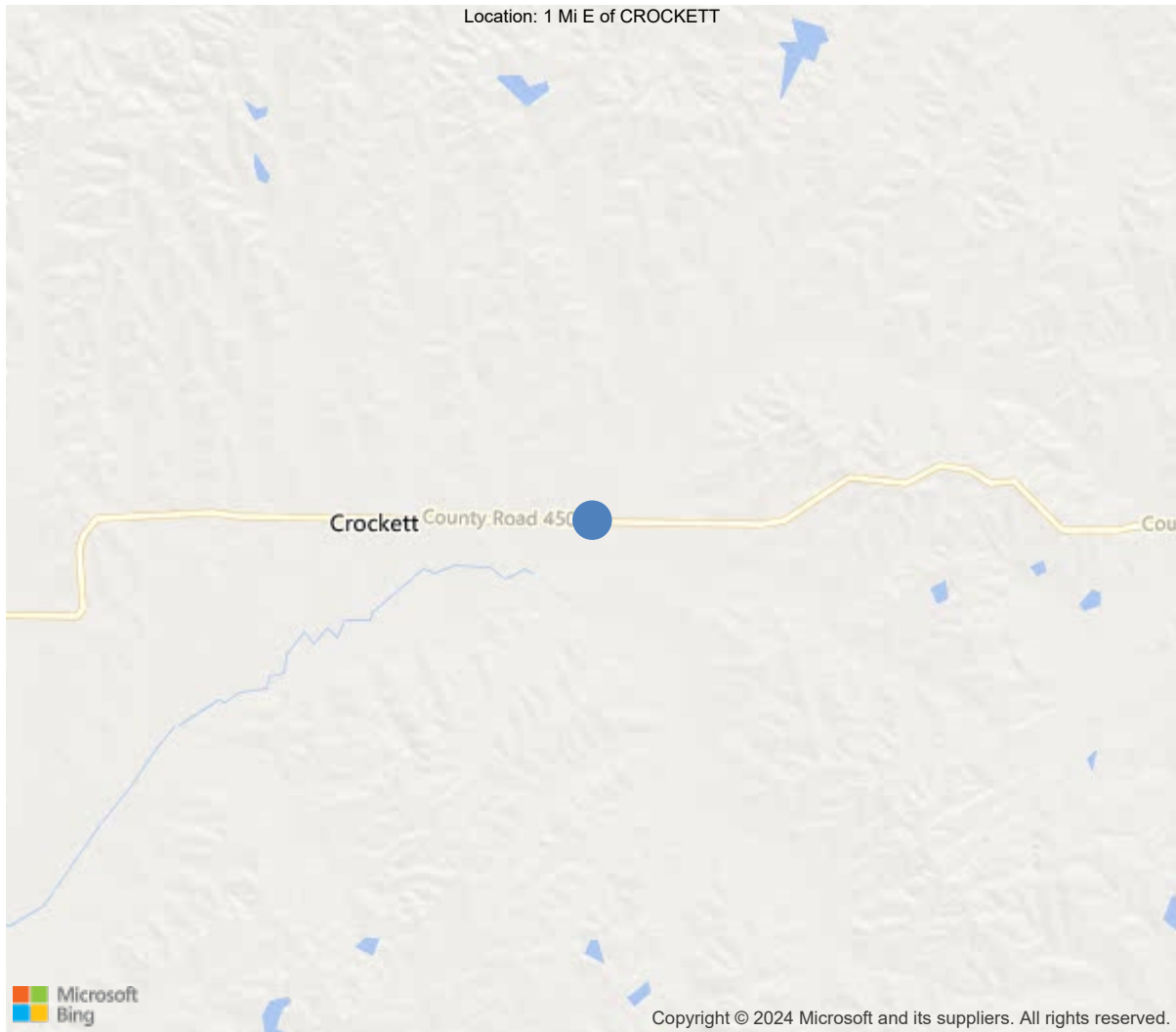
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	40		
Code 9 (31 Tons)	50		
Code 5 (40 Tons)	60		

If calculated Capacity is less than the Legal Load Listed, the Bridge Legally Requires Posting Signs to be installed by the Bridge Owner



30"x36" AR



36.37535, -90.31113



Asset #04907 (Routine, Underwater type 2)
CR 53-I 911=450 over South Fork Big Creek

Location: 1 Mi E of CROCKETT

Team Lead: James Adams, Inspection Date: 06/21/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	04907
(5) Inventory Route	1
(2) Highway Agency District	10 - District 10
(3) County Code	21 - Clay County
(4) Place Code	0
(6) Features Intersected	South Fork Big Creek
(7) Facility Carried	CR 53-I 911=450
(9) Location	1 Mi E of CROCKETT
(11) Mile Point	5.36 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	36.37535
(17) Longitude	-90.31113
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	122
Material	1 - Concrete
Type	22 - Channel beam
(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	2 - Concrete Precast Panels
(108) Wearing Surface/Protective System	
Type of Wearing Surface	0 - None (no additional concrete thicken
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	2009
(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	889
(30) Year of ADT	2018
(109) Truck ADT	5 %
(19) Bypass, Detour Length	3 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	31 ft
(49) Structure Length	93 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	27.9 ft
(52) Deck Width Out to Out	30.5 ft
(32) Approach Roadway Width (W/Shoulders)	29.9 ft
(33) Bridge Median	0 - No median
(34) Skew	0 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	27.9 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	0 ft
Ref:	
(56) Min Lat Underclear LT	0 ft
NAVIGATION DATA	
(38) Navigation Control	N - Not applicable, no waterwa
(111) Pier Protection	5 - None present but re-evalua
(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
(101) Parallel Structure	N - No parallel structure exis
(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
(20) Toll	3 - On free road. The structu
(21) Maintain	2 - County Highway Agency
(22) Owner	2 - County Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	7
(59) Superstructure	7
(60) Substructure	7
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	A - HL93
(63) Operating Rating Method	3
(64) Operating Rating	
Type	3 - Load and Resistance Factor(LRFR)
Rating	45
(65) Inventory Rating Method	3 - Load and Resistance Factor
(66) Inventory Rating	
Type	
Rating	35
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRAISAL	
(67) Structural Evaluation	
(68) Deck Geometry	7
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	9
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	1 - Inspected feature meets current
(36C) Approach Guardrail	1 - Inspected feature meets current
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	5 - Bridge foundations determined t
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	130
(115) Year of Future ADT	2029

INSPECTIONS *			
(90) Inspection Date	06/21/2023		
(91) Frequency	24		
(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.			

58 - Deck (7 - GOOD CONDITION - some minor problems.)

Routine & underwater type 2 inspection performed this report.
Approach guardrail at northeast corner has 2 spacer blocks missing.
Poured joint material is beginning to pull loose.
Deck is partially covered in dirt & gravel, especially gutterlines.
Units are bolted together and grout is in good condition with efflorescence between Units.

59 - Superstructure (7 - GOOD CONDITION - some minor problems.)

Precast units have very minor transverse cracks in girder portion of units, some cracks have light efflorescence.

60 - Substructure (7 - GOOD CONDITION - some minor problems.)

Routine & underwater type 2 inspection performed this report.
Some rust with pitting to steel piles, especially near caps.
Some section loss to pile encasements at bent 2 near ground line.
Bent 1 abutment has moderate width cracks.
Heavy vegetation growing beside bridge & into roadway & restricting flow of channel.
Minor erosion & drift under span 1.
Log across span 2 channel.
Minor scour around bent 2 pile encasements.
Minor embankment erosion and drift at Bents 2 & 3.

61 - Channel/Channel Protection (6 - Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly.)
Heavy vegetation and trees in channel & under bridge restricting flow.
Minor drift under span 1.
Minor scour around bent 2 pile encasements.
Minor embankment erosion and drift at Bents 2 & 3.

A-46 - Asset Files

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A-B.C.11 - B.C.11 Scour Condition Rating (New NBIS) (6 - Widespread minor or isolated moderate scour.)

Heavy vegetation and trees in channel & under bridge restricting flow.
Minor erosion & drift under span 1.
Minor scour around bent 2 pile encasements.
Minor embankment erosion and drift at Bents 2 & 3.



Team Lead: James Adams, Inspection Date: 06/21/2023

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4

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Superstructure

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Comment: Precast units have very minor transverse cracks in girder portion of units, some cracks have light efflorescence.



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Minor scour around bent 2 pile encasements.

Minor embankment erosion and drift at Bents 2 & 3.



Elevation



Elevation



East

Maintenance Needs

Date Reported: 06/14/2017

Priority: D- Routine

Status: Monitor

Type of Work: (Inactive) (Inactive) 9 - None

Component:

Deficiency Description

Heavy vegetation and trees in channel & under bridge restricting flow.

Minor drift under span 1.

Minor scour around bent 2 pile encasements.

Minor embankment erosion and drift under span 1 & at Bents 2 & 3.

Remarks



Span 2 tree



Span 1 drift



Bent 2 encasement



Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	Yes
A-56 - Joint Cleaning/Flushing Needed	
A-57 - Beam End and Bearing Paint Needed	
A-58 - Cap Cleaning/Flushing Needed	
A-59 - Joint Repair Needed	
A-60 - Full Beam Painting Needed	
A-61 - Polymer Overlay Advised	
A-62 - Hydro and LMC Advised	
A-63 Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	Yes

A-54 - Sealable Deck Cracks

A-55 - Deck Washing Needed (Yes)

A-56 - Joint Cleaning/Flushing Needed



Asset #04907(Routine, Underwater type 2)
CR 53-I 911=450 over South Fork Big Creek

Location: 1 Mi E of CROCKETT

Team Lead: James Adams, Inspection Date: 06/21/2023

A-57 - Beam End and Bearing Painting Needed

A-58 - Cap Cleaning/Flushing Needed

A-59 - Joint Repair Needed

A-60 - Full Beam Painting Needed

A-61 - Polymer Overlay Advised

A-62 - Hydro and LMC Advised

A-63 - Missing/Incorrect Log Mile Signage

A-64 - Vegetation Removal Requested (Yes)



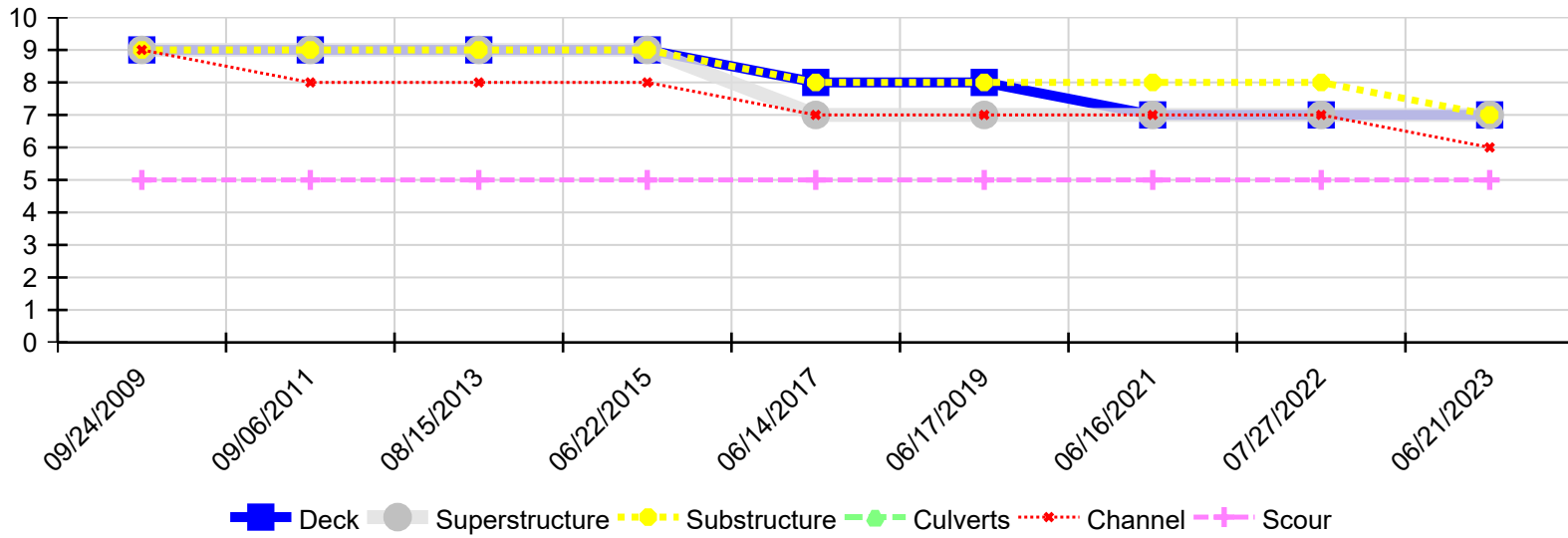
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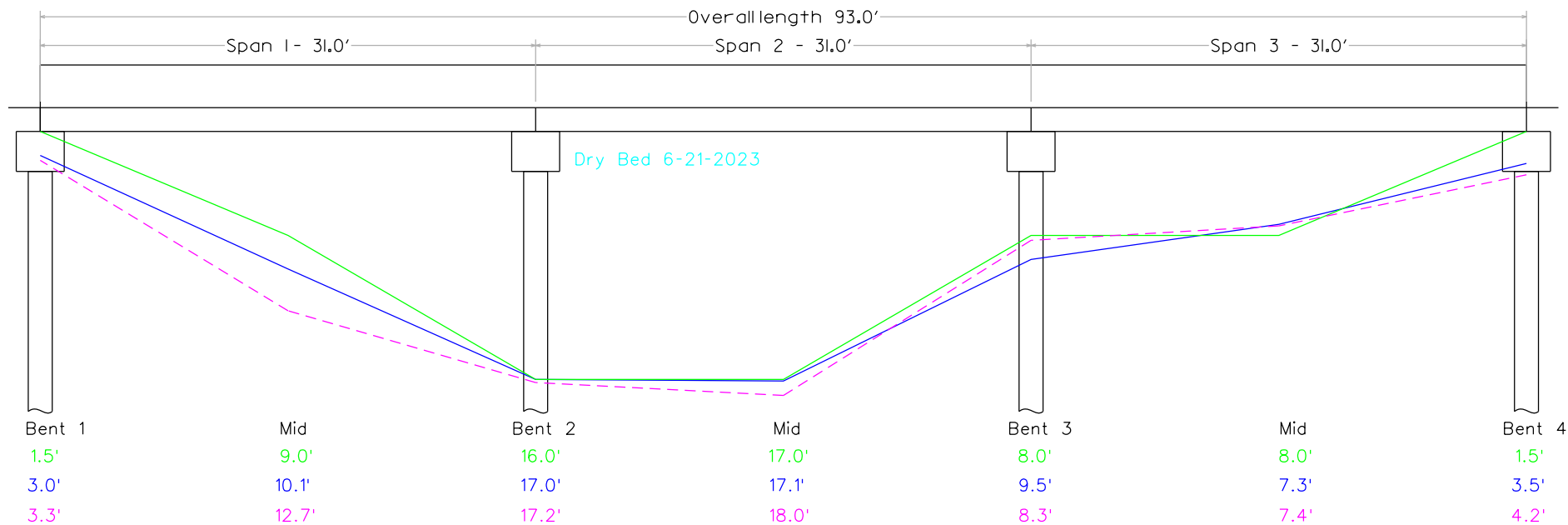
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Team Lead: James Adams, Inspection Date: 06/21/2023

Condition History



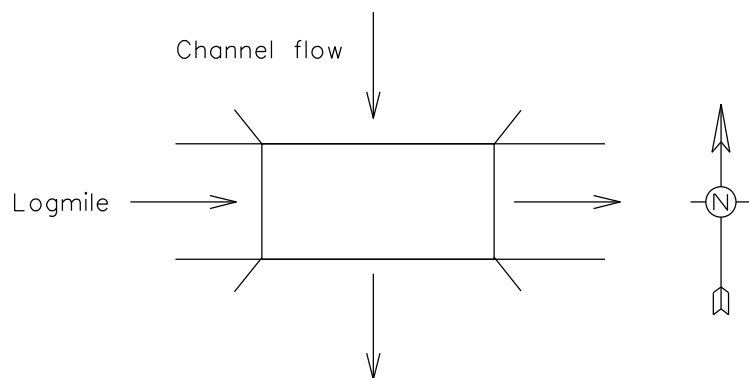
Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
06/21/2023	7	7	7	N	6	5
07/27/2022	7	7	8	N	7	5
06/16/2021	7	7	8	N	7	5
06/17/2019	8	7	8	N	7	5
06/14/2017	8	7	8	N	7	5
06/22/2015	9	9	9	N	8	5
08/15/2013	9	9	9	N	8	5
09/06/2011	9	9	9	N	8	5
09/24/2009	9	9	9	N	9	5



Channel sounded from top of deck downstream (RT) side

Green line readings taken on 9-24-2009

Pink dashed-line taken 6-21-2023



*To Scale

Bridge No. 04907	Dist. 10	Co. Clay - 11
Logmile 5.36	Rt. 53	Sect/Zone - I
Date Drawn 6/17/19	Insp. / Assist.	TJM / CCP