



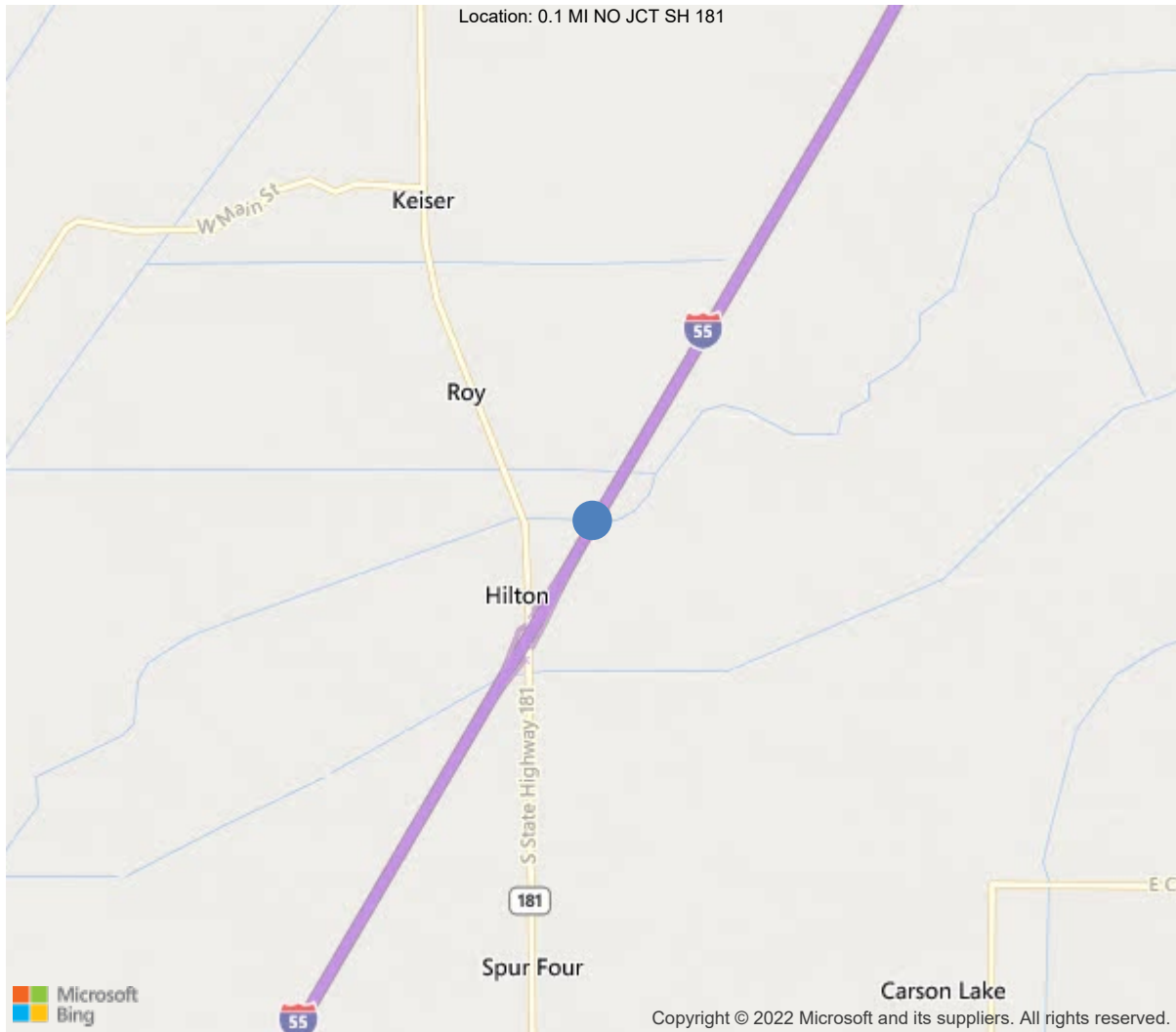
Latitude:35.65105, Longitude:-90.08363

Route:55 Section:12 Log:44.54

Arnold Road ID:47x55x12xB, Arnold Log mile:27.68

District 10, 93 - Mississippi County

Owner: 1 - State Highway Agency



35.65105, -90.08363



Asset #A3288(Routine)

I 55-12SB-LM 44.54 over UPPER SANDY BAYOU

Location: 0.1 MI NO JCT SH 181

Team Lead: Richard Jones, Inspection Date: 07/19/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	A3288
(5) Inventory Route	1
(2) Highway Agency District	10 - District 10
(3) County Code	93 - Mississippi County
(4) Place Code	0
(6) Features Intersected	UPPER SANDY BAYOU
(7) Facility Carried	I 55-12SB-LM 44.54
(9) Location	0.1 MI NO JCT SH 181
(11) Mile Point	44.54 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000055120
(16) Latitude	35.65105
(17) Longitude	-90.08363
(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	4
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	3 - Latex Concrete or similar additive
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1962
(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	12500
(30) Year of ADT	2018
(109) Truck ADT	46 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	120 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	40 ft
(52) Deck Width Out to Out	43.7 ft
(32) Approach Roadway Width (W/Shoulders)	44 ft
(33) Bridge Median	0 - No median
(34) Skew	30 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	40 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 w
(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	1
(26) Functional Class	1 - Rural Principal Arterial -
(100) Defense Highway	1 - The inventory route is on
(101) Parallel Structure	L - The left structure of para
(102) Direction of Traffic	1 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0 - N/A
(110) Designated National Network	1 - The inventory route is par
(20) Toll	3 - On free road. The struct
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	7
(59) Superstructure	6
(60) Substructure	7
(61) Channel & Channel Protection	7
(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	43
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	26
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRAISAL	
(67) Structural Evaluation	5
(68) Deck Geometry	7
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(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	35 - Bridge rehabilitation bec
(76) Length of Structure Improvement	120 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 234
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	12000
(115) Year of Future ADT	2033

INSPECTIONS *			
(90) Inspection Date	07/19/2022		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
* 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)

Deck received a LMC overlay around 2015 under job BB1003.
Concrete approach slabs have several cracks. Some of the cracks at bent 5 approach slab were sealed in the past.
Concrete rails have vertical cracks.
Poured joint seals have lost adhesion with a few areas missing.
Span 3 has a 4' spall along joint over bent 4.

59 - Superstructure (6)

Slab soffit has some hairline longitudinal cracks near center line. Some have efflorescence. Soffit has a few spalls with rebar exposed.
Span 4 soffit has a few delaminated areas and spalls with rebar exposed near Lt edge.

60 - Substructure (7)

Caps and abutments have a few minor cracks or spalls near key ways. Some cracks have efflorescence.
Bent 2 cap has a moderate vertical crack with efflorescence at key way near pile 7.
Bent 4 has a deep spall with exposed rebar on corner on Lt end. Ahead face of cap has a moderate vertical crack with efflorescence at keyway.

A-46 - Asset Files

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Asset #A3288(Routine)

I 55-12SB-LM 44.54 over UPPER SANDY BAYOU

Location: 0.1 MI NO JCT SH 181

Team Lead: Richard Jones, Inspection Date: 07/19/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	5240	5095	72	73	0
1080	Delamination/Spall/Patched Area	SF	40	0	36	4	0
1090	Exposed Rebar	SF	19	0	0	19	0
1120	Efflorescence/Rust Staining	SF	30	0	0	30	0
1130	Cracking (RC and Other)	SF	56	0	36	20	0
215	Reinforced Concrete Abutment	LF	124	118	3	3	0
1080	Delamination/Spall/Patched Area	LF	2	0	0	2	0
1090	Exposed Rebar	LF	1	0	0	1	0
1130	Cracking (RC and Other)	LF	3	0	3	0	0
227	Reinforced Concrete Pile	EA	24	24	0	0	0
234	Reinforced Concrete Pier Cap	LF	149	110	22	17	0
1080	Delamination/Spall/Patched Area	LF	24	0	19	5	0
1090	Exposed Rebar	LF	7	0	0	7	0
1120	Efflorescence/Rust Staining	LF	3	0	0	3	0
1130	Cracking (RC and Other)	LF	5	0	3	2	0
301	Pourable Joint Seal	LF	252	177	18	15	42
2320	Seal Adhesion	LF	18	0	18	0	0
2330	Seal Damage	LF	57	0	0	15	42
321	Reinforced Concrete Approach Slab	SF	1752	1663	8	81	0
1080	Delamination/Spall/Patched Area	SF	2	0	2	0	0
1130	Cracking (RC and Other)	SF	129	42	6	81	0
331	Reinforced Concrete Bridge Railing	LF	240	175	10	55	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1120	Efflorescence/Rust Staining	LF	4	0	4	0	0
1130	Cracking (RC and Other)	LF	60	0	5	55	0

**Deck**

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4
38	RC Slab	SF	5240	5095	72	73	0
1080	Delamination/Spall/Patched Area	SF	40	0	36	4	0
1090	Exposed Rebar	SF	19	0	0	19	0
1120	Efflorescence/Rust Staining	SF	30	0	0	30	0
1130	Cracking (RC and Other)	SF	56	0	36	20	0

58 - Deck (7)

Comment: Deck received a LMC overlay around 2015 under job BB1003.

Concrete approach slabs have several cracks. Some of the cracks at bent 5 approach slab were sealed in the past.

Concrete rails have vertical cracks.

Poured joint seals have lost adhesion with a few areas missing.

Span 3 has a 4' spall along joint over bent 4.



Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4

59 - Superstructure (6)

Comment: Slab soffit has some hairline longitudinal cracks near center line. Some have efflorescence. Soffit has a few spalls with rebar exposed.
Span 4 soffit has a few delaminated areas and spalls with rebar exposed near Lt edge.

**Substructure**

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	124	118	3	3	0
1080	Delamination/Spall/Patched Area	LF	2	0	0	2	0
1090	Exposed Rebar	LF	1	0	0	1	0
1130	Cracking (RC and Other)	LF	3	0	3	0	0
227	Reinforced Concrete Pile	EA	24	24	0	0	0
234	Reinforced Concrete Pier Cap	LF	149	110	22	17	0
1080	Delamination/Spall/Patched Area	LF	24	0	19	5	0
1090	Exposed Rebar	LF	7	0	0	7	0
1120	Efflorescence/Rust Staining	LF	3	0	0	3	0
1130	Cracking (RC and Other)	LF	5	0	3	2	0

60 - Substructure (7)

Comment: Caps and abutments have a few minor cracks or spalls near key ways. Some cracks have efflorescence.

Bent 2 cap has a moderate vertical crack with efflorescence at key way near pile 7.

Bent 4 has a deep spall with exposed rebar on corner on Lt end. Ahead face of cap has a moderate vertical crack with efflorescence at keyway.



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Team Lead: Richard Jones, Inspection Date: 07/19/2022

Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
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Deck



Maintenance Needs

Date Reported: 06/13/2016
Priority: (Inactive) (Inactive) G - General/ Preventive maintenance
Type of Work: Repair (General)
Status: Monitor
Component: Approach

Deficiency Description

Concrete approach slabs have several unsealed cracks.

Remarks

Some cracks are sealed on bent 5 end.



Beginning approach slab



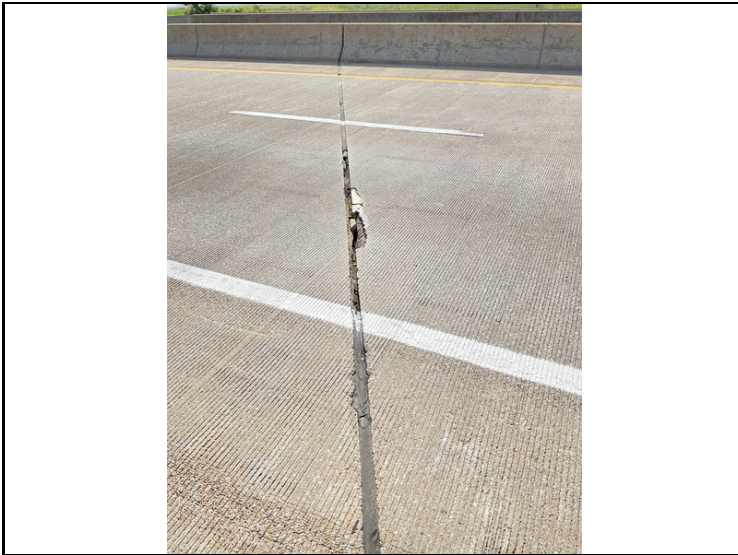
Approach slab at end

Date Reported: 06/13/2016
Priority: C - Important
Type of Work: Repair (General)
Status: Monitor
Component: Deck

Deficiency Description

Span 3 has a 4' spall along joint over bent 4.

Remarks



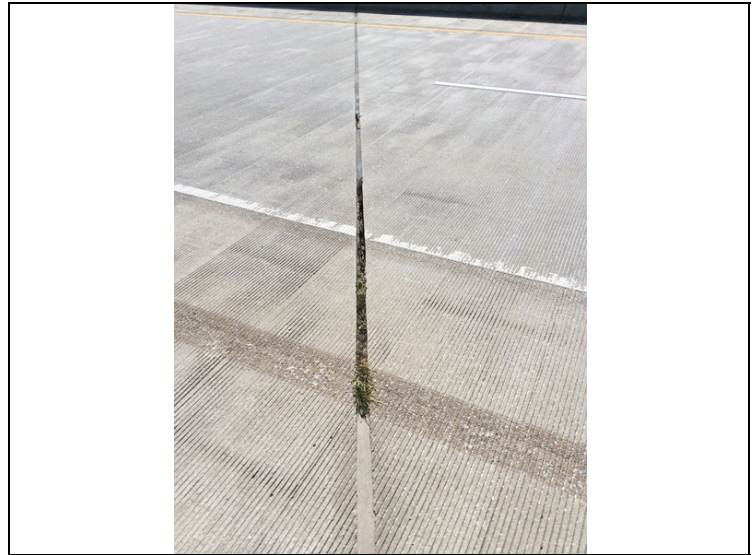
Bent 4 joint

Date Reported: 06/13/2016
Priority: D- Routine
Type of Work: Replace (General)
Status: Monitor
Component: Element

Deficiency Description

Poured joint seals have lost adhesion with a few areas missing.

Remarks



Bent 3 joint



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Team Lead: Richard Jones, Inspection Date: 07/19/2022

Date Reported: 06/13/2016
Priority: C - Important
Type of Work: Repair (General)
Status: Monitor
Component: Substructure

Deficiency Description

Caps and abutments have a few minor cracks or spalls near key ways. Some cracks have efflorescence.
Bent 2 cap has a moderate vertical crack with efflorescence at key way near pile 7.
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Remarks



Bent 4 Lt



Bent 4 ahead



Bent 4 Lt





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I 55-12SB-LM 44.54 over UPPER SANDY BAYOU

Location: 0.1 MI NO JCT SH 181

Team Lead: Richard Jones, Inspection Date: 07/19/2022

Date Reported: 06/04/2018
Priority: D- Routine
Type of Work: Repair (General)
Status: RepairDocumented
Component: Channel

Deficiency Description

Trees growing against bridge.

Remarks

to Miss One Crew
slopes were recently mowed



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Routine Maintenance

Check Box Maintenance Items

Data Field	Value
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	
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 - Hydo and LMC Advised	



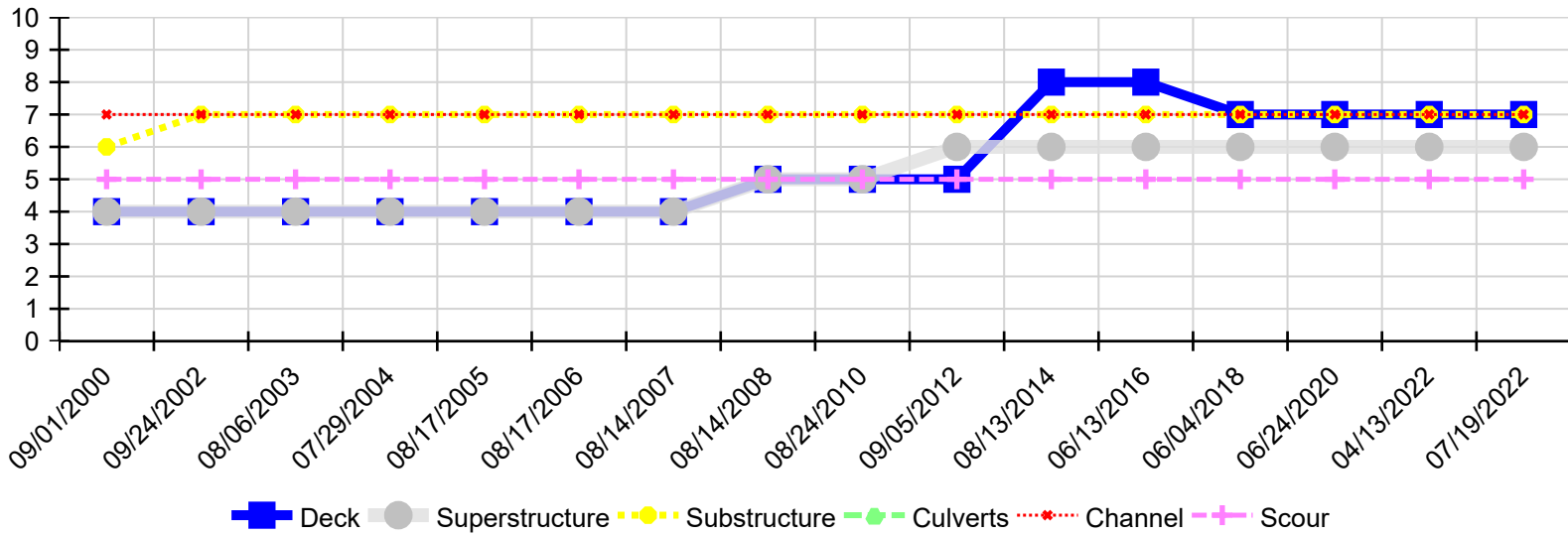
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Team Lead: Richard Jones, Inspection Date: 07/19/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
07/19/2022	7	6	7	N	7	5
04/13/2022	7	6	7	N	7	5
06/24/2020	7	6	7	N	7	5
06/04/2018	7	6	7	N	7	5
06/13/2016	8	6	7	N	7	5
08/13/2014	8	6	7	N	7	5
09/05/2012	5	6	7	N	7	5
08/24/2010	5	5	7	N	7	5
08/14/2008	5	5	7	N	7	5
08/14/2007	4	4	7	N	7	5
08/17/2006	4	4	7	N	7	5
08/17/2005	4	4	7	N	7	5
07/29/2004	4	4	7	N	7	5
08/06/2003	4	4	7	N	7	5
09/24/2002	4	4	7	N	7	5
09/01/2000	4	4	6	N	7	5