



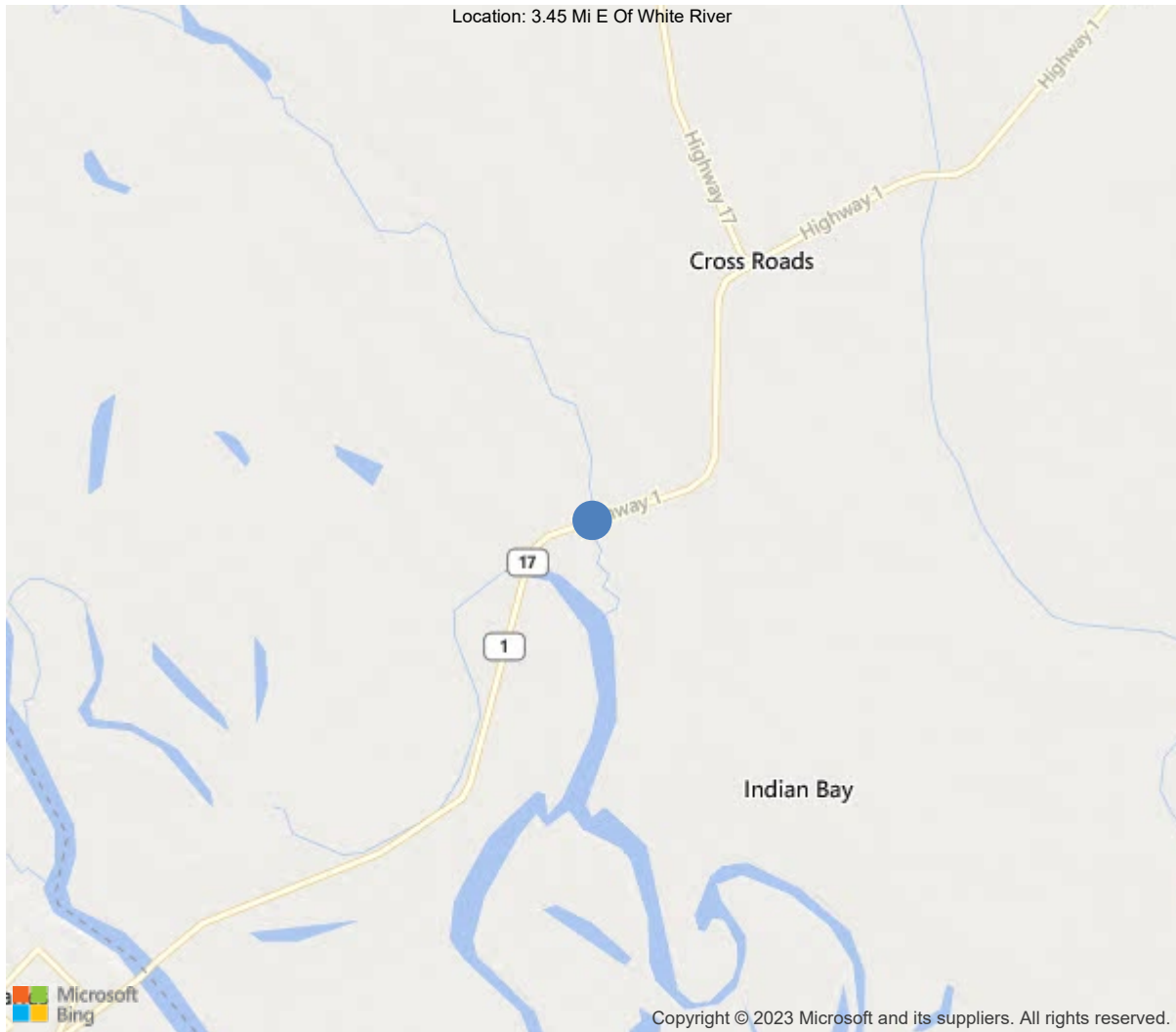
Latitude:34.40832, Longitude:-91.08348

Route:1 Section:06 Log:3.45

Arnold Road ID:48x1x6xA, Arnold Log mile:3.447

District 01, 95 - Monroe County

Owner: 1 - State Highway Agency



34.40832, -91.08348





Asset #05856(Routine, Underwater type 2)

Sh-1/Sec-6/L-3.45 over Indian Bayou

Location: 3.45 Mi E Of White River

Team Lead: Drew Melton, Inspection Date: 09/20/2021

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05856
(5) Inventory Route	1
(2) Highway Agency District	01 - District 01
(3) County Code	95 - Monroe County
(4) Place Code	0
(6) Features Intersected	Indian Bayou
(7) Facility Carried	Sh-1/Sec-6/L-3.45
(9) Location	3.45 Mi E Of White River
(11) Mile Point	3.45 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000001060
(16) Latitude	34.40832
(17) Longitude	-91.08348
(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	7
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	5 - Epoxy Overlay
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1981
(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	940
(30) Year of ADT	2019
(109) Truck ADT	27 %
(19) Bypass, Detour Length	72 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	57 ft
(49) Structure Length	381.2 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	42.8 ft
(32) Approach Roadway Width (W/Shoulders)	40 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	40 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	0 - No navigation control on w
(111) Pier Protection	1 - Navigation protection not
(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 -
(100) Defense Highway	0 - The inventory route is not
(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 par
(20) Toll	3 - On free road. The structu
(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	7
(60) Substructure	6
(61) Channel & Channel Protection	6
(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	60
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
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	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	3 - Bridge is scour critical; bridg
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	1200
(115) Year of Future ADT	2038

INSPECTIONS *			
(90) Inspection Date	09/20/2021		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
<p>* 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.</p>			



Asset #05856(Routine, Underwater type 2)

District: 01, County: 95 - Monroe County

Team Lead: Drew Melton, Inspection Date: 09/20/2021

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### General Observation

Vegetation is growing under and beside bridge and onto roadway.  
Abutment #2 left approach gutter undermined at bridge end.

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

09/25/2019-lowered deck from 8 to 7 due to cracking with efflorescence.

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

09/25/2019-lowered superstructure from 8 to 7 due to corrosion.

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### 60 - Substructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

09/18/2017 lowered substructure from 8 to 6 due to scour around bent piers exposing footings.

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### 108A - Type of Wearing Surface (5 - Epoxy Overlay)

9/14/2020-Epoxy overlay added since previous inspection.

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### A-2 - Wearing Surface Thickness (0.2)

Deck has epoxy overlay.

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### A-46 - Asset Files

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Asset #05856(Routine, Underwater type 2)

Sh-1/Sec-6/L-3.45 over Indian Bayou

Location: 3.45 Mi E Of White River

Team Lead: Drew Melton, Inspection Date: 09/20/2021

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	16233	15977	256	0	0
1090	Exposed Rebar	SF	3	0	3	0	0
1120	Efflorescence/Rust Staining	SF	253	0	253	0	0
1130	Cracking (RC and Other)	SF	1500	1500	0	0	0
510	Wearing Surfaces	SF	15160	15160	0	0	0
(12) 9/14/2020-Deck cracks have been sealed with epoxy overlay. Soffit-under surface overhangs have transverse cracks spaced six feet apart with light efflorescence. Span #4 right side soffit-under surface overhang has six inch spall with exposed rebar no section loss at 3/4 span. Span #5 right soffit-under surface overhang has six inch spall with exposed rebar no section loss at 1/4 span. Span #6 right soffit-under surface over hang has six inch spall with exposed rebar no section loss at 1/4 span. (510-12) 9/14/2020-Epoxy overlay has been added since last inspection.							
107	Steel Open Girder/Beam	LF	2274	2217	57	0	0
1000	Corrosion	LF	57	0	57	0	0
515	Steel Protective Coating	SF	15418	15418	0	0	0
(107) All steel members are beginning to form grainy rust. Span #1 girder #3 bottom of bottom flange has a thin sliver of steel hanging down 1/4" full length of girder.							
205	Reinforced Concrete Column	EA	12	12	0	0	0
215	Reinforced Concrete Abutment	LF	96	80	16	0	0
1120	Efflorescence/Rust Staining	LF	16	0	16	0	0
(215) Abutment back walls have vertical hairline cracks with light efflorescence spaced six feet apart.							
220	Reinforced Concrete Pile Cap/Footing	LF	3	0	1	2	0
6000	Scour	LF	3	0	1	2	0
(220) Bent #3 left footing is exposed 1' on all sides of columns. Bent # 4 footing is exposed on right column 2' on south and east sides and 5' on north side and beginning to undermine on north east corner. Bent # 4 footing is exposed on right column 2' on south and west sides and 5' on north side.							
234	Reinforced Concrete Pier Cap	LF	234	208	26	0	0
1010	Cracking	LF	25	0	25	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
(234) Caps have vertical and longitudinal hairline cracks at various spacing. Bent #4 cap front face above pile #1 has 6" piece of exposed rebar due to poor concrete coverage. Bent #6 right end of cap cs2 crack eight inches down from top.							
301	Pourable Joint Seal	LF	80	80	0	0	0
(301) 9/14/2020-Compression joint seals have been replaced with pourable joint sealer.							
310	Elastomeric Bearing	EA	48	46	0	2	0



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**Location: 3.45 Mi E Of White River**

**Team Lead:** Drew Melton, **Inspection Date:** 09/20/2021

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
2220	Alignment	EA	2	0	0	2	0
(310) Bent #7 girders #3,6 bearing material has come unglued and has slid 1".							
331	Reinforced Concrete Bridge Railing	LF	758	758	0	0	0



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Team Lead: Drew Melton, Inspection Date: 09/20/2021

## Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	16233	15977	256	0	0
1090	Exposed Rebar	SF	3	0	3	0	0
1120	Efflorescence/Rust Staining	SF	253	0	253	0	0
1130	Cracking (RC and Other)	SF	1500	1500	0	0	0
510	Wearing Surfaces	SF	15160	15160	0	0	0
<p>(12) 9/14/2020-Deck cracks have been sealed with epoxy overlay. Soffit-under surface overhangs have transverse cracks spaced six feet apart with light efflorescence. Span #4 right side soffit-under surface overhang has six inch spall with exposed rebar no section loss at 3/4 span. Span #5 right soffit-under surface overhang has six inch spall with exposed rebar no section loss at 1/4 span. Span #6 right soffit-under surface over hang has six inch spall with exposed rebar no section loss at 1/4 span. (510-12) 9/14/2020-Epoxy overlay has been added since last inspection.</p>							

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

Comment: 09/25/2019-lowered deck from 8 to 7 due to cracking with efflorescence.





Asset #05856(Routine, Underwater type 2)

Sh-1/Sec-6/L-3.45 over Indian Bayou

Location: 3.45 Mi E Of White River

Team Lead: Drew Melton, Inspection Date: 09/20/2021

## Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	2274	2217	57	0	0
1000	Corrosion	LF	57	0	57	0	0
515	Steel Protective Coating	SF	15418	15418	0	0	0
(107) All steel members are beginning to form grainy rust. Span #1 girder #3 bottom of bottom flange has a thin sliver of steel hanging down 1/4" full length of girder.							

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

Comment: 09/25/2019-lowered superstructure from 8 to 7 due to corrosion.



Asset #05856(Routine, Underwater type 2)

Sh-1/Sec-6/L-3.45 over Indian Bayou

Location: 3.45 Mi E Of White River

Team Lead: Drew Melton, Inspection Date: 09/20/2021

## Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	12	12	0	0	0
215	Reinforced Concrete Abutment	LF	96	80	16	0	0
1120	Efflorescence/Rust Staining	LF	16	0	16	0	0
(215) Abutment back walls have vertical hairline cracks with light efflorescence spaced six feet apart.							
220	Reinforced Concrete Pile Cap/Footing	LF	3	0	1	2	0
6000	Scour	LF	3	0	1	2	0
(220) Bent #3 left footing is exposed 1' on all sides of columns. Bent # 4 footing is exposed on right column 2' on south and east sides and 5' on north side and beginning to undermine on north east corner. Bent # 4 footing is exposed on right column 2' on south and west sides and 5' on north side.							
234	Reinforced Concrete Pier Cap	LF	234	208	26	0	0
1010	Cracking	LF	25	0	25	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
(234) Caps have vertical and longitudinal hairline cracks at various spacing. Bent #4 cap front face above pile #1 has 6" piece of exposed rebar due to poor concrete coverage. Bent #6 right end of cap cs2 crack eight inches down from top.							

**60 - Substructure** (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Comment: 09/18/2017 lowered substructure from 8 to 6 due to scour around bent piers exposing footings.



**Asset #05856**(Routine, Underwater type 2)

**Sh-1/Sec-6/L-3.45 over Indian Bayou**

**Location: 3.45 Mi E Of White River**

**Team Lead:** Drew Melton, **Inspection Date:** 09/20/2021

## Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4





Side view-elevation

**Maintenance Needs**

**Date Reported:** 09/17/2013  
**Priority:** D- Routine  
**Type of Work:** Repair (General)  
**Status:** Assigned  
**Component:** Approach

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**Deficiency Description**

Abutment #1 right approach rail has impact damage.

**Remarks**

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Abutment #1 right approach rail collision damage

**Date Reported:** 09/17/2013  
**Priority:** (Inactive) (Inactive) G - General/ Preventive maintenance  
**Type of Work:** Repair (General)  
**Status:** Monitor  
**Component:** Element

---

**Deficiency Description**

Span #1 girder #3 bottom of bottom flange has a thin sliver of steel hanging down 1/4" full length of girder.

**Remarks**

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Span #1 girder #3





**Asset #05856**(Routine, Underwater type 2)

**Sh-1/Sec-6/L-3.45 over Indian Bayou**

**Location: 3.45 Mi E Of White River**

**Team Lead:** Drew Melton, **Inspection Date:** 09/20/2021

**Date Reported:** 09/17/2013

**Priority:** D- Routine

**Type of Work:** (Inactive) (Inactive) 1 - Clean

**Status:** Assigned

**Component:** Miscellaneous

---

**Deficiency Description**

Vegetation is growing under and beside bridge and onto roadway.

**Remarks**

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Typical vegetation



Typical vegetation



Typical vegetation



**Date Reported:** 09/17/2013  
**Priority:** D- Routine  
**Type of Work:** Repair (General)  
**Status:** Monitor  
**Component:** Element

---

**Deficiency Description**

Bent #6 girder #4 right anchor nut loose.  
Abutment #1 girder # 1 left anchor nut loose.

**Remarks**

Tightened anchor bolt nuts.

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Abutment #1 girder #1 left anchor nut has been tightened.



Span #6 girder #4 right anchor nut has been tightened.



**Asset #05856**(Routine, Underwater type 2)

**Sh-1/Sec-6/L-3.45 over Indian Bayou**

**Location: 3.45 Mi E Of White River**

**Team Lead:** Drew Melton, **Inspection Date:** 09/20/2021

**Date Reported:** 09/18/2017  
**Priority:** D- Routine  
**Type of Work:** Repair (General)  
**Status:** Monitor  
**Component:** Element

---

#### **Deficiency Description**

Span #5 girder #5 bottom field splice bolt loose and backed out.  
Span #6 girder #3 bottom field splice bolt loose and backed out.

#### **Remarks**

Tightened field splice bolts.

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Span #5 girder #5 bottom splice bolt loose and backed out.



Span #5 girder #5 splice bolt has been tightened.



Span #6 girder #3 splice bolt has been tightened.



**Date Reported:** 09/18/2017  
**Priority:** C - Important  
**Type of Work:** Repair (General)  
**Status:** Monitor  
**Component:** Element

---

**Deficiency Description**

Bent #7 girders #3 & #6, elastomeric bearing pad material has debonded from the load plate and has slid approximately 1".

**Remarks**

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Bent #7 bearing #3



Bent #7 bearing #6

**Date Reported:** 09/25/2019  
**Priority:** C - Important  
**Type of Work:** Repair (General)  
**Status:** Monitor  
**Component:** Approach

---

**Deficiency Description**

Abutment #2 left approach gutter undermined at bridge end.

**Remarks**

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Small void under abutment #2 left approach gutter.



**Date Reported:** 09/13/2011  
**Priority:** D- Routine  
**Type of Work:** Repair (General)  
**Status:** Monitor  
**Component:** Element

---

**Deficiency Description**

Bent #3 left footing is exposed 1' on all sides of columns.

**Remarks**

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Bent #3 ahead face footings

**Date Reported:** 09/19/2018  
**Priority:** C - Important  
**Type of Work:** Repair (General)  
**Status:** Forward State  
**Component:** Element

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### Deficiency Description

Bent #3 right footing west and north side is exposed five and a half feet one foot other two sides  
Bent # 4 footing is exposed on right column 2' on south and east sides and 5' on north side and beginning to undermine on north east corner.

### Remarks

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Bent #3 ahead face footings



Bent #3 footing back face

**Date Reported:** 09/15/2020  
**Priority:** C - Important  
**Type of Work:** Repair (General)  
**Status:** Forward State  
**Component:** Approach

---

**Deficiency Description**

Abutment #1 right approach gutter has small hole and small void at bridge end.

**Remarks**

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Small hole in abutment #1 right gutter at bridge end.



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**Sh-1/Sec-6/L-3.45 over Indian Bayou**

**Location: 3.45 Mi E Of White River**

**Team Lead:** Drew Melton, **Inspection Date:** 09/20/2021

**Date Reported:** 09/23/2021  
**Priority:** D- Routine  
**Type of Work:** Repair (General)  
**Status:** Open  
**Component:** Element

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#### **Deficiency Description**

Span #4 right side soffit-under surface overhang has six inch spall with exposed rebar no section loss at 3/4 span.  
Span #5 right soffit-under surface overhang has six inch spall with exposed rebar no section loss at 1/4 span.  
Span #6 right soffit-under surface over hang has six inch spall with exposed rebar no section loss at 1/4 span.

#### **Remarks**

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Span #4 right side soffit-under surface overhang  
3/4 span.



Span #5 right side soffit-Under surface over hang  
1/4 span



Span #6 right soffit-under surface over hang 1/4  
span





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**Location: 3.45 Mi E Of White River**

**Team Lead:** Drew Melton, **Inspection Date:** 09/20/2021

## **Routine Maintenance**

Check Box Maintenance Items

Type of Maintenance	Is recommended?
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 - Hydro and LMC Advised	



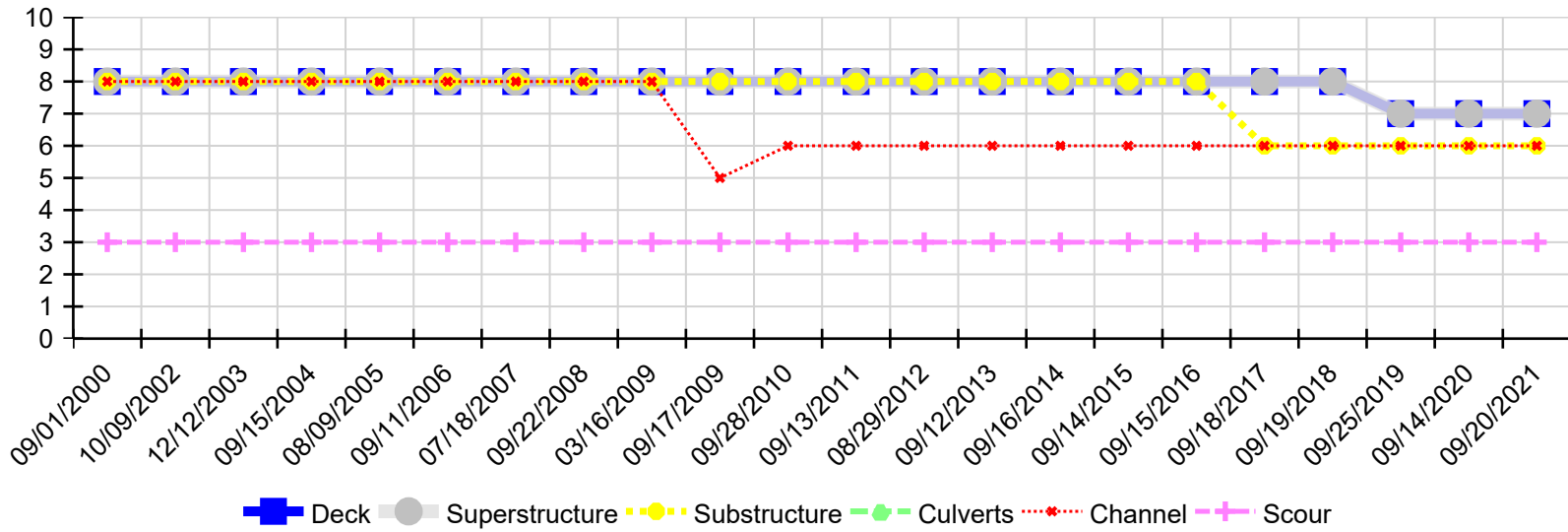
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Location: 3.45 Mi E Of White River

Team Lead: Drew Melton, Inspection Date: 09/20/2021

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
09/20/2021	7	7	6	N	6	3
09/14/2020	7	7	6	N	6	3
09/25/2019	7	7	6	N	6	3
09/19/2018	8	8	6	N	6	3
09/18/2017	8	8	6	N	6	3
09/15/2016	8	8	8	N	6	3
09/14/2015	8	8	8	N	6	3
09/16/2014	8	8	8	N	6	3
09/12/2013	8	8	8	N	6	3
08/29/2012	8	8	8	N	6	3
09/13/2011	8	8	8	N	6	3
09/28/2010	8	8	8	N	6	3
09/17/2009	8	8	8	N	5	3
03/16/2009	8	8	8	N	8	3
09/22/2008	8	8	8	N	8	3
07/18/2007	8	8	8	N	8	3
09/11/2006	8	8	8	N	8	3
08/09/2005	8	8	8	N	8	3
09/15/2004	8	8	8	N	8	3
12/12/2003	8	8	8	N	8	3
10/09/2002	8	8	8	N	8	3
09/01/2000	8	8	8	N	8	3