



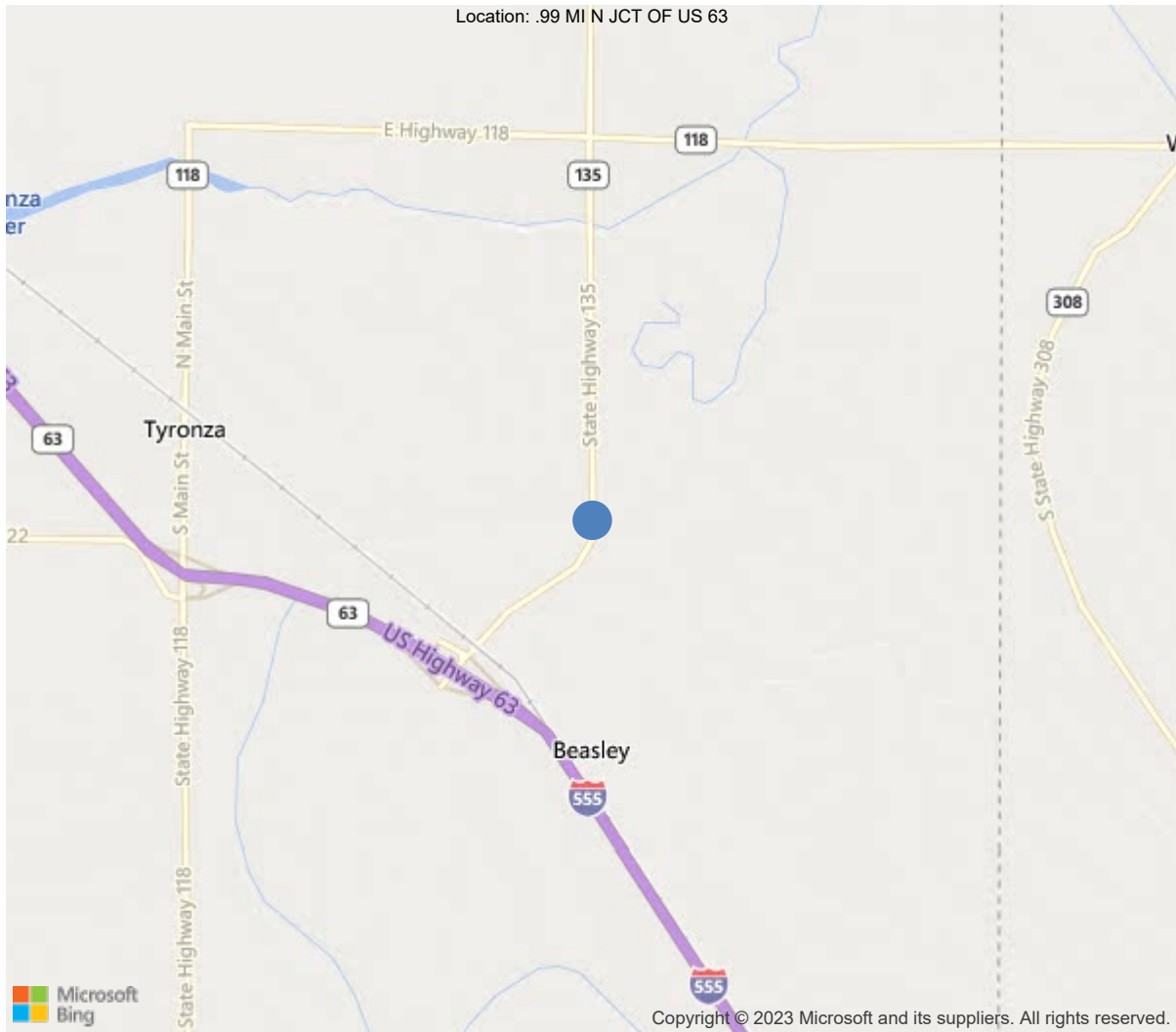
Latitude:35.48419, Longitude:-90.32261

Route:135 Section:01 Log:0.99

Arnold Road ID:56x135x1xA, Arnold Log mile:1.207

District 10, 111 - Poinsett County

Owner: 1 - State Highway Agency



35.48419, -90.32261



Asset #02884(Routine, Underwater type 2)
SH 135-01- LM 0.99 over DEAD TIMBER LAKE

Location: .99 MI N JCT OF US 63

Team Lead: Tim Myrick, Inspection Date: 04/07/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	02884
(5) Inventory Route	1
(2) Highway Agency District	10 - District 10
(3) County Code	111 - Poinsett County
(4) Place Code	0
(6) Features Intersected	DEAD TIMBER LAKE
(7) Facility Carried	SH 135-01- LM 0.99
(9) Location	.99 MI N JCT OF US 63
(11) Mile Point	0.99 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000135010
(16) Latitude	35.48419
(17) Longitude	-90.32261
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	32
Material	3 - Steel
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	5
(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 pl
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1954
(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	1100
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	4 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	152 ft
(50) Curb or Sidewalk Width	
Left	1 ft
Right	1 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	28.5 ft
(32) Approach Roadway Width (W/Shoulders)	27.9 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	25.9 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	0
(26) Functional Class	6 - Rural Minor Arterial
(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	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	3
(59) Superstructure	5
(60) Substructure	6
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2 - M 13.5 / H 15
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	45
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	27
(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	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	9
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0 - Inspected feature does not meet
(36B) Transitions	0 - Inspected feature does not meet
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	0 - Inspected feature does not meet
(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	1105
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	04/07/2022		
(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 (3 - SERIOUS CONDITION - loss of section, deterioration, spalling or scour have seriously affected primary structural components. Local failures are possible. Fatigue cracks in steel or shear cracks in concrete may be present.) Log posting & both flare boards on south end (bent 1) are missing. Several bridge rail posts have minor cracks and spalls. A few have been patched. Left bridge rail has areas of corrosion. Joints over bents are open, No seals. Approach roadways have up to ½ in. of settlement at each end. 12' Rt. lane bent 6 has 1" of settlement. Majority of deck is delaminated, spalled, patched, or cracked. Most patches are in fair to poor condition. Soffit has several areas of transverse and/or map cracking with efflorescence. Span 4 has 4' x 8' full depth patches in bays 3 and 4. Several spalled out areas top of deck with no rebar exposed at this time.

59 - Superstructure (5 - FAIR CONDITION - all primary structural elements are sound but may have minor section loss, cracking, spalling or scour.) Several girders have been repaired in the past with splices or plates welded over holes in web below haunch. Girders have areas of freckled rust on webs and along bottom flanges. Bearings have rust and section loss. Span 1 bent 1 girders 1 and 5 have splices at top of web 5' back from Bt.1 cap has rust with moderate section loss. Span 1 bent 1 girders 2 – 4 have been T-spliced. Span 1 bent 2 girders 1 and 5 have splices at top of web. Span 1 bent 2 girders 2 and 3 have plates welded over holes below haunch. Span 1 bent 2 girder 4 has been T-spliced. Span 2 bent 2 girders 1 and 5 have splices at top of web. Span 2 bent 2 girders 2 - 4 have been T-spliced. Span 2 bent 3 girders 1 and 5 have splices at top of web. Span 2 bent 3 girder 4 has plates welded over holes below haunch. Span 3 bent 3 girders 1 and 5 have splices at top of web. Span 3 bent 3 girder 2 has plates welded over hole below haunch. Span 3 bent 3 girders 3 and 4 have been T-spliced. Span 3 bent 4 girders 1 and 5 have splices at top of web. Span 3 bent 4 girders 3 and 4 have been T-spliced. Span 4 bent 4 girders 1 and 5 have splices at top of web. Span 4 bent 4 girder 3 has been T-spliced. Span 4 bent 5 girders 1 and 5 have splices at top of web. Span 4 bent 5 girder 3 has been T-spliced. Span 5 bent 5 girder 1 has 1' on end of web with section loss and some out of plane bending below haunch. Span 5 bent 5 girder 2 has a 4" x 1" hole in web below haunch. Span 5 bent 5 girder 3 has a 5" x 1" hole in web below haunch. Span 5 bent 5 girder 4 has a 4" x 1" hole in web below haunch. Span 5 bent 5 girder 5 has a 1' of heavy section loss on top half of web with a 8" x 2" hole in web below haunch. Span 5 bent 6 girder 1 has some section loss to web below haunch. Span 5 bent 6 girder 2 has a 12" x 1" hole in bottom of web 1' from end of girder. Right bottom flange has section loss near bearing (beginning to knife edge). 1' x 3" hole Left bottom flange has 3/16" remaining on edge of bottom flange. Hole in web below haunch has been filled with weld in the past. Span 5 bent 6 girders 3 and 4 have been T-spliced. Span 5 bent 6 girder 5 has 2' of 1/8" section loss along bottom of web 2.5' from end 1" x 4" hole in web at web near bottom flange 3' back from Bt.6.

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

Minor embankment erosion under spans 1 and 5. Bent 2 cap has deterioration on left end with exposed rebar. Bent 3 cap has spalls with 3' of exposed rebar, and 2' delaminated. Bent 4 cap has vertical cracks near piles 2 and 3 on span 3 side. Bent 5 cap has 1' of exposed rebar on span 5 side near pile 2. Bent 6 abutment has some cracking with efflorescence. Dirt build up on bent 1 & 6 abutments, bearings & ends of girders due to open joints.



Asset **#02884**(Routine, Underwater type 2)

District: 10, **County:** 111 - Poinsett County

Team Lead: Tim Myrick, **Inspection Date:** 04/07/2022

A-46 - Asset Files

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Asset #02884(Routine, Underwater type 2)

SH 135-01- LM 0.99 over DEAD TIMBER LAKE

Location: .99 MI N JCT OF US 63

Team Lead: Tim Myrick, Inspection Date: 04/07/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	3800	0	871	2929	0
1080	Delamination/Spall/Patched Area	SF	3021	0	871	2150	0
1090	Exposed Rebar	SF	4	0	0	4	0
1120	Efflorescence/Rust Staining	SF	775	0	0	775	0
107	Steel Open Girder/Beam	LF	750	579	150	15	6
1000	Corrosion	LF	171	0	150	15	6
515	Steel Protective Coating	SF	4690	0	4054	424	212
3440	Effectiveness (Steel Protective Coatings)	LF	4690	0	4054	424	212
215	Reinforced Concrete Abutment	LF	66	64	0	2	0
1120	Efflorescence/Rust Staining	LF	2	0	0	2	0
227	Reinforced Concrete Pile	EA	16	16	0	0	0
234	Reinforced Concrete Pier Cap	LF	99	88	4	7	0
1080	Delamination/Spall/Patched Area	LF	3	0	3	0	0
1090	Exposed Rebar	LF	5	0	0	5	0
1120	Efflorescence/Rust Staining	LF	1	0	0	1	0
1130	Cracking (RC and Other)	LF	2	0	1	1	0
304	Open Expansion Joint	LF	152	152	0	0	0
311	Movable Bearing	EA	25	0	0	25	0
1000	Corrosion	EA	25	0	0	25	0
313	Fixed Bearing	EA	25	0	0	25	0
1000	Corrosion	EA	25	0	0	25	0
330	Metal Bridge Railing	LF	300	182	118	0	0
1000	Corrosion	LF	105	0	105	0	0
1010	Cracking	LF	13	0	13	0	0
515	Steel Protective Coating	SF	1020	663	357	0	0
3440	Effectiveness (Steel Protective Coatings)	LF	357	0	357	0	0



Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	3800	0	871	2929	0
1080	Delamination/Spall/Patched Area	SF	3021	0	871	2150	0
1090	Exposed Rebar	SF	4	0	0	4	0
1120	Efflorescence/Rust Staining	SF	775	0	0	775	0

58 - Deck (3 - SERIOUS CONDITION - loss of section, deterioration, spalling or scour have seriously affected primary structural components. Local failures are possible. Fatigue cracks in steel or shear cracks in concrete may be present.)

Comment: Log posting & both flare boards on south end (bent 1) are missing.

Several bridge rail posts have minor cracks and spalls. A few have been patched.

Left bridge rail has areas of corrosion.

Joints over bents are open, No seals.

Approach roadways have up to ½ in. of settlement at each end. 12' Rt. lane bent 6 has 1" of settlement.

Majority of deck is delaminated, spalled, patched, or cracked. Most patches are in fair to poor condition.

Soffit has several areas of transverse and/or map cracking with efflorescence.

Span 4 has 4' x 8' full depth patches in bays 3 and 4.

Several spalled out areas top of deck with no rebar exposed at this time.



Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	750	579	150	15	6
1000	Corrosion	LF	171	0	150	15	6
515	Steel Protective Coating	SF	4690	0	4054	424	212
3440	Effectiveness (Steel Protective Coatings)	LF	4690	0	4054	424	212

59 - Superstructure (5 - FAIR CONDITION - all primary structural elements are sound but may have minor section loss, cracking, spalling or scour.)

Comment: Several girders have been repaired in the past with splices or plates welded over holes in web below haunch. Girders have areas of freckled rust on webs and along bottom flanges.

Bearings have rust and section loss.

Span 1 bent 1 girders 1 and 5 have splices at top of web 5' back from Bt.1 cap has rust with moderate section loss.

Span 1 bent 1 girders 2 – 4 have been T-spliced.

Span 1 bent 2 girders 1 and 5 have splices at top of web.

Span 1 bent 2 girders 2 and 3 have plates welded over holes below haunch.

Span 1 bent 2 girder 4 has been T-spliced.

Span 2 bent 2 girders 1 and 5 have splices at top of web.

Span 2 bent 2 girders 2 - 4 have been T-spliced.

Span 2 bent 3 girders 1 and 5 have splices at top of web.

Span 2 bent 3 girder 4 has plates welded over holes below haunch.

Span 3 bent 3 girders 1 and 5 have splices at top of web.

Span 3 bent 3 girder 2 has plates welded over hole below haunch.

Span 3 bent 3 girders 3 and 4 have been T-spliced.

Span 3 bent 4 girders 1 and 5 have splices at top of web.

Span 3 bent 4 girders 3 and 4 have been T-spliced.

Span 4 bent 4 girders 1 and 5 have splices at top of web.

Span 4 bent 4 girder 3 has been T-spliced.

Span 4 bent 5 girders 1 and 5 have splices at top of web.

Span 4 bent 5 girder 3 has been T-spliced.

Span 5 bent 5 girder 1 has 1' on end of web with section loss and some out of plane bending below haunch.

Span 5 bent 5 girder 2 has a 4" x 1" hole in web below haunch.

Span 5 bent 5 girder 3 has a 5" x 1" hole in web below haunch.

Span 5 bent 5 girder 4 has a 4" x 1" hole in web below haunch.

Span 5 bent 5 girder 5 has a 1' of heavy section loss on top half of web with a 8" x 2" hole in web below haunch.

Span 5 bent 6 girder 1 has some section loss to web below haunch.

Span 5 bent 6 girder 2 has a 12" x 1" hole in bottom of web 1' from end of girder. Right bottom flange has section loss near bearing (beginning to knife edge). 1' x 3" hole Left bottom flange has 3/16" remaining on edge of bottom flange. Hole in web below haunch has been filled with weld in the past.

Span 5 bent 6 girders 3 and 4 have been T-spliced.

Span 5 bent 6 girder 5 has 2' of 1/8" section loss along bottom of web 2.5' from end 1" x 4" hole in web at web near bottom flange 3' back from Bt.6.



Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	66	64	0	2	0
1120	Efflorescence/Rust Staining	LF	2	0	0	2	0
227	Reinforced Concrete Pile	EA	16	16	0	0	0
234	Reinforced Concrete Pier Cap	LF	99	88	4	7	0
1080	Delamination/Spall/Patched Area	LF	3	0	3	0	0
1090	Exposed Rebar	LF	5	0	0	5	0
1120	Efflorescence/Rust Staining	LF	1	0	0	1	0
1130	Cracking (RC and Other)	LF	2	0	1	1	0

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

Comment: Minor embankment erosion under spans 1 and 5.

Bent 2 cap has deterioration on left end with exposed rebar.

Bent 3 cap has spalls with 3' of exposed rebar, and 2' delaminated.

Bent 4 cap has vertical cracks near piles 2 and 3 on span 3 side.

Bent 5 cap has 1' of exposed rebar on span 5 side near pile 2.

Bent 6 abutment has some cracking with efflorescence.

Dirt build up on bent 1 & 6 abutments, bearings & ends of girders due to open joints.



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SH 135-01- LM 0.99 over DEAD TIMBER LAKE

Location: .99 MI N JCT OF US 63

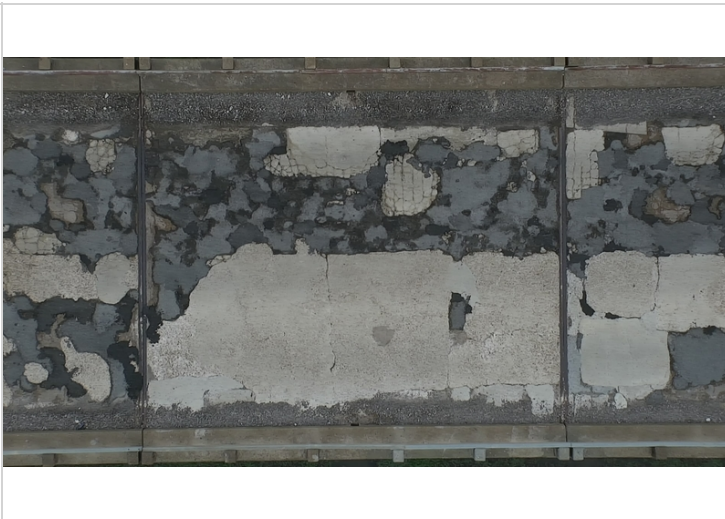
Team Lead: Tim Myrick, Inspection Date: 04/07/2022

Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Span 5 soffit





Bent 2 Cap Left



Span 5 Bent 5 Girder 5



Span 2 Girders 4 and 5

Maintenance Needs

Date Reported: 04/02/2012

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Substructure

Deficiency Description

Bent 2 cap has deterioration on Lt end with rebar exposed.
Bent 3 cap has spalls with 3' of rebar exposed, and 2' delaminated.
Bent 4 cap has vertical cracks near piles 2 and 3.
Bent 5 cap has 1' of rebar exposed on ahead side near pile 2

Remarks



bent 4





Maintenance Needs

Date Reported: 04/02/2012

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Deck

Deficiency Description

Majority of deck is delaminated, spalled, patched, or cracked. Most patches are in fair to poor condition. Soffit has several areas of transverse and/or map cracking with efflorescence. Span 4 has 4' x 8' full depth patches in bays 3 and 4.

Remarks







Span 4 & 5



Asset #02884(Routine, Underwater type 2)
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Location: .99 MI N JCT OF US 63

Team Lead: Tim Myrick, **Inspection Date:** 04/07/2022

Maintenance Needs

Date Reported: 04/07/2014

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Approach

Deficiency Description

Approach roadways have up to ½" of settlement at each end.

Remarks

Maintenance Needs

Date Reported: 03/07/2016

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Superstructure

Deficiency Description

Span 5 bent 5 girder 1 has 1' on end of web with section loss and some out of plane bending below haunch.
Span 5 bent 5 girder 2 has a 4" x 1" hole in web below haunch.
Span 5 bent 5 girder 3 has a 5" x 1" hole in web below haunch.
Span 5 bent 5 girder 4 has a 4" x 1" hole in web below haunch.
Span 5 bent 5 girder 5 has a 1' of heavy section loss on top half of web with a 8" x 2" hole in web below haunch.
Span 5 bent 6 girder 5 has 2' of 1/8" section loss along bottom of web 2.5' from end.

Remarks



Span 5 bent 6 girder 5





Span 5 Bent 5 Girder 5



S1 b1 g1



S5 b5 g5



S5 b6 g5

Maintenance Needs

Date Reported: 03/27/2018

Priority: B - Pressing

Type of Work: Repair (General)

Status: Assigned

Component: Superstructure

Deficiency Description

Span 5 bent 6 girder 2 has a 12" x 1" hole in bottom of web 1' from end of girder. Rt bottom flange has section loss near bearing (beginning to knife edge). 1' x 3" hole Lt bottom flange has 3/16" remaining on edge of bottom flange. Hole in web below haunch has been filled with weld in the past.

Remarks



span 5 bent 6 girder 2





s5 b6 g2



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SH 135-01- LM 0.99 over DEAD TIMBER LAKE

Location: .99 MI N JCT OF US 63

Team Lead: Tim Myrick, **Inspection Date:** 04/07/2022

Maintenance Needs

Date Reported: 03/26/2020

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Deck

Deficiency Description

Span 3 left lane near bent 3 has a 1 ft. diameter spall with exposed rebar.
Top of deck has several spalled out areas with rebar exposed four 1' diameter areas total.

Remarks



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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	

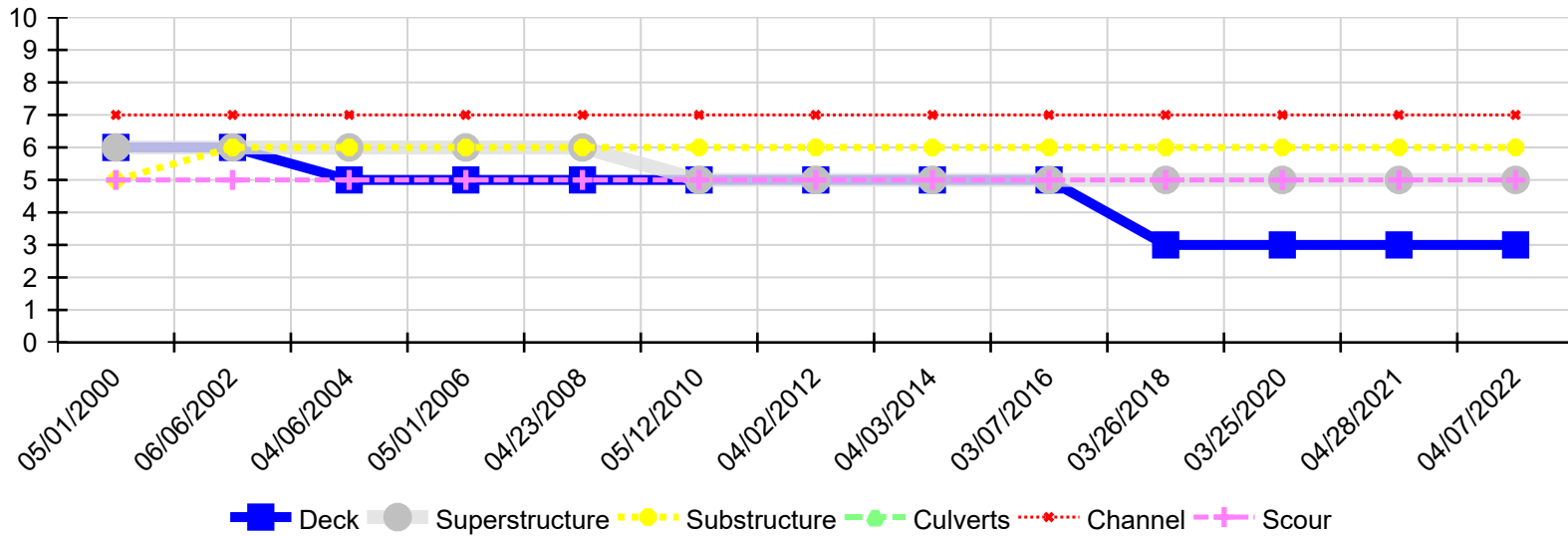


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Location: .99 MI N JCT OF US 63

Team Lead: Tim Myrick, Inspection Date: 04/07/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
04/07/2022	3	5	6	N	7	5
04/28/2021	3	5	6	N	7	5
03/25/2020	3	5	6	N	7	5
03/26/2018	3	5	6	N	7	5
03/07/2016	5	5	6	N	7	5
04/03/2014	5	5	6	N	7	5
04/02/2012	5	5	6	N	7	5
05/12/2010	5	5	6	N	7	5
04/23/2008	5	6	6	N	7	5
05/01/2006	5	6	6	N	7	5
04/06/2004	5	6	6	N	7	5
06/06/2002	6	6	6	N	7	5
05/01/2000	6	6	5	N	7	5