



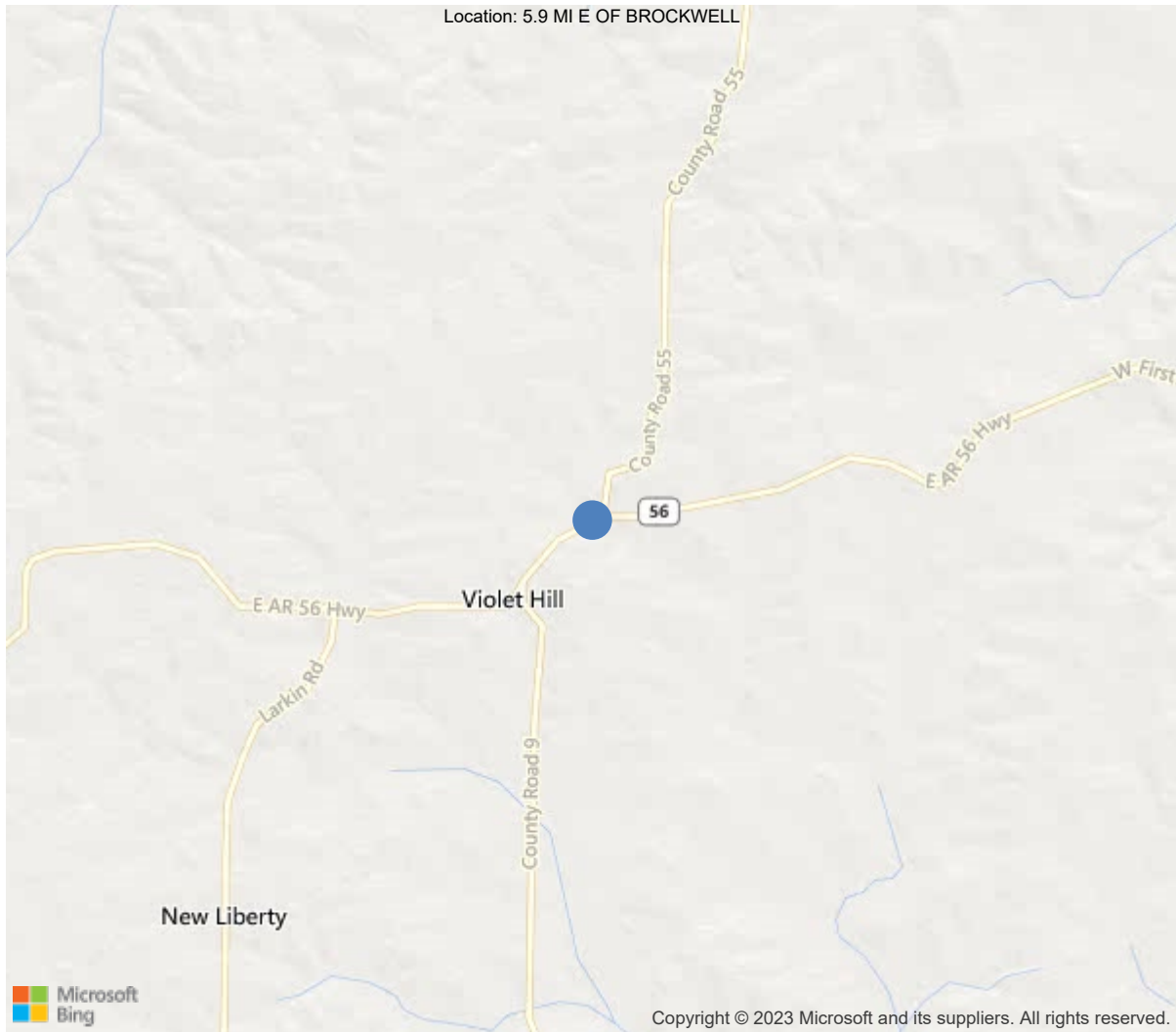
Latitude:36.15935, Longitude:-91.83423

Route:56 Section:02 Log:5.938

Arnold Road ID:33x56x2xA, Arnold Log mile:5.956

District 05, 65 - Iazard County

Owner: 1 - State Highway Agency



36.15935, -91.83423





Asset #M3313(Routine)

SH/56 Izard County over LITTLE PINEY CREEK

Location: 5.9 MI E OF BROCKWELL

Team Lead: Kerry Little, Inspection Date: 03/13/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	M3313
(5) Inventory Route	1
(2) Highway Agency District	05 - District 05
(3) County Code	65 - Izard County
(4) Place Code	0
(6) Features Intersected	LITTLE PINEY CREEK
(7) Facility Carried	SH/56 Izard County
(9) Location	5.9 MI E OF BROCKWELL
(11) Mile Point	5.938 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000056020
(16) Latitude	36.159348
(17) Longitude	-91.834229
(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	2
(46) No. of Approach Spans	0
(107) Deck Structure Type	2 - Concrete Precast Panels
(108) Wearing Surface/Protective System	
Type of Wearing Surface	6 - Bituminous
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1971
(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	1700
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	11 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	31 ft
(49) Structure Length	50 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	25.9 ft
(52) Deck Width Out to Out	28 ft
(32) Approach Roadway Width (W/Shoulders)	22 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	27.2 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 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	0
(26) Functional Class	6 - Rural Minor 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	0 - The inventory route is not
(20) Toll	3 - On free road. The structure
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	6
(59) Superstructure	3
(60) Substructure	4
(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	27
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	16
(70) Bridge Posting	1 - 30.0 - 39.9 % below
(41) Structure Open/Posted/Closed	P - Posted for load (may include
APPRAISAL	
(67) Structural Evaluation	4
(68) Deck Geometry	5
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	7
(36A) Bridge Railings	1 - Inspected feature meets current
(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 to
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	1816
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	03/13/2023		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
* 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.			



### General Observation

Elevation with Log Mile running to the Right.

---

**59 - Superstructure** (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.)

Span 1 is in fair condition.

Span 2 has most units with cracks, large spalls with rebar exposed to most units.

---

**60 - Substructure** (4 - POOR CONDITION - advanced section loss, deterioration, spalling or scour.)

Condition lowered due to overall deteriorating condition of cap, cracking to concrete columns and cracks to abutments.

---

**A-19 - Code 4 (Beginning)** (18)

Load Posting @ Abutment 1.

---

**A-20 - Code 4 (end)** (18)

Load Posting @ Abutment 2.

---

**A-21 - Code 9 (Beginning)** (21)

-

---

**A-22 - Code 9 (End)** (21)

-

---

**A-46 - Asset Files**

-

---

**A-51 - Inspection Direction** (4 - W to E)

Roadway with Log Mile running West to East.

---





Asset #M3313(Routine)

SH/56 IZARD COUNTY OVER LITTLE PINEY CREEK

Location: 5.9 MI E OF BROCKWELL

Team Lead: Kerry Little, Inspection Date: 03/13/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	1400	1385	0	15	0
1080	Delamination/Spall/Patched Area	SF	1	0	0	1	0
1120	Efflorescence/Rust Staining	SF	14	0	0	14	0
510	Wearing Surfaces	SF	1300	996	0	304	0
3210	Delam/Spall/Patched Area/Pothole	SF	4	0	0	4	0
3220	Crack (Wearing Surface)	SF	300	0	0	300	0
(16) A few minor hairline cracks to soffit. Map cracking with light efflorescence to soffit at Unit 3 at Span 1. Large spall at drain opening at Unit 1 at Span 2. (510-16) Asphalt is cracked between units. Potholes along Joint.							
110	Reinforced Concrete Open Girder/Beam	LF	400	194	57	149	0
1080	Delamination/Spall/Patched Area	LF	20	0	20	0	0
1090	Exposed Rebar	LF	104	0	0	104	0
1120	Efflorescence/Rust Staining	LF	20	0	5	15	0
1130	Cracking (RC and Other)	LF	62	0	32	30	0
(110) Span 1: Unit 3 - 20' longitudinal efflorescent cracks to Lt. & Rt. girders. Unit 2 - Cracking to diaph. @ midspan. Unit 4 - Cracking to diaph. @ midspan. Spall with 2' of rebar exposed to diaphragm at end of span. Unit 5 - Cracking to diaph. @ midspan. Hairline longitudinal cracks at top of girders near soffit. Unit 6 - Cracking to diaph. @ midspan. Spall with 1' rebar exposed to girder. Units 7 & 8 - Minor spalls & hairline longitudinal cracks at top of girders near soffit. Span 2: Unit 1 - 9' Longitudinal cracks & spall with 2' rebar exposed to girder. Unit 2 - 8' Longitudinal cracks, spall with 2' rebar exposed to girder. Unit 3 - 4' Longitudinal cracks, 6' area of delamination 4' of spall & 8' of rebar. Unit 4 - 2' - Longitudinal cracks & spalls with 14' rebar exposed to girder. Unit 5 - Spalls with 8' rebar exposed & 5' cracking to girders. Unit 6 - 6' - Longitudinal cracks & large spalls with 19' of rebar exposed to Lt & Rt. girders. Unit 7 - 3' - Longitudinal cracks & spalls with 16' rebar exposed to girders. Unit 8 - OK Large areas of delamination & cracks with rust stains to Units 1 - 7. Hairline longitudinal cracks at top of girders near soffit at Units 1, 3, and 4. Spalls with rebar exposed to diaphragms at beginning of span at Units 1, 2, 5, 6, and 7. Some spalled areas have been patched in the past with grout. Patches are cracked and delaminated.							
205	Reinforced Concrete Column	EA	2	0	0	2	0
1130	Cracking (RC and Other)	EA	2	0	0	2	0
(205) Vertical cracks to Columns 1 & 2.							
215	Reinforced Concrete Abutment	LF	100	62	26	12	0
1080	Delamination/Spall/Patched Area	LF	5	0	2	3	0

## SH/56 IZARD COUNTY OVER LITTLE PINEY CREEK

**Location: 5.9 MI E OF BROCKWELL**

**Team Lead:** Kerry Little, **Inspection Date:** 03/13/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1120	Efflorescence/Rust Staining	LF	2	0	2	0	0
1130	Cracking (RC and Other)	LF	11	0	2	9	0
1190	Abrasion/Wear (PSC/RC)	LF	20	0	20	0	0
(215) 6 FH vertical cracks to Abutment 1. 5 FH vertical cracks to Abutment 2. Some cracks have minor efflorescence. Abrasion along bottom of Abutment 2. Erosion behind Left & Right wings @ Abutment 1.							
220	Reinforced Concrete Pile Cap/Footing	LF	32	8	23	1	0
1130	Cracking (RC and Other)	LF	1	0	0	1	0
6000	Scour	LF	23	0	23	0	0
(220) Crack to footing near centerline. Top of footing is exposed.							
234	Reinforced Concrete Pier Cap	LF	28	0	0	28	0
1080	Delamination/Spall/Patched Area	LF	10	0	0	10	0
1130	Cracking (RC and Other)	LF	18	0	0	18	0
(234) Several horizontal and vertical cracks and delaminated areas to Cap at Bent 1. (light rust stains to vertical cracks) 1.5' of spalls and deterioration to Left and Right ends of Cap.							
304	Open Expansion Joint	LF	28	0	0	28	0
2350	Debris Impaction	LF	28	0	0	28	0
(304) Joints are not visible due to asphalt overlay & debris.							
330	Metal Bridge Railing	LF	100	50	0	50	0
7000	Damage	LF	50	0	0	50	0
515	Steel Protective Coating	SF	232	232	0	0	0
(330) End post on Lt. side @ Abut. 1 & 2 are broke off. Few cracks and spalls to concrete posts.							

## SH/56 IZARD COUNTY OVER LITTLE PINEY CREEK

**Location: 5.9 MI E OF BROCKWELL**

**Team Lead:** Kerry Little, **Inspection Date:** 03/13/2023

## Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	1400	1385	0	15	0
1080	Delamination/Spall/Patched Area	SF	1	0	0	1	0
1120	Efflorescence/Rust Staining	SF	14	0	0	14	0
510	Wearing Surfaces	SF	1300	996	0	304	0
3210	Delam/Spall/Patched Area/Pothole	SF	4	0	0	4	0
3220	Crack (Wearing Surface)	SF	300	0	0	300	0
(16) A few minor hairline cracks to soffit. Map cracking with light efflorescence to soffit at Unit 3 at Span 1. Large spall at drain opening at Unit 1 at Span 2.							
(510-16) Asphalt is cracked between units. Potholes along Joint.							





## Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
110	Reinforced Concrete Open Girder/Beam	LF	400	194	57	149	0
1080	Delamination/Spall/Patched Area	LF	20	0	20	0	0
1090	Exposed Rebar	LF	104	0	0	104	0
1120	Efflorescence/Rust Staining	LF	20	0	5	15	0
1130	Cracking (RC and Other)	LF	62	0	32	30	0
<p>(110) Span 1: Unit 3 - 20' longitudinal efflorescent cracks to Lt. &amp; Rt. girders.  Unit 2 - Cracking to diaph. @ midspan.  Unit 4 - Cracking to diaph. @ midspan. Spall with 2' of rebar exposed to diaphragm at end of span.  Unit 5 - Cracking to diaph. @ midspan. Hairline longitudinal cracks at top of girders near soffit.  Unit 6 - Cracking to diaph. @ midspan. Spall with 1' rebar exposed to girder.  Units 7 &amp; 8 - Minor spalls &amp; hairline longitudinal cracks at top of girders near soffit.</p> <p>Span 2: Unit 1 - 9' Longitudinal cracks &amp; spall with 2' rebar exposed to girder.  Unit 2 - 8' Longitudinal cracks, spall with 2' rebar exposed to girder.  Unit 3 - 4' Longitudinal cracks, 6' area of delamination 4' of spall &amp; 8' of rebar.  Unit 4 - 2' - Longitudinal cracks &amp; spalls with 14' rebar exposed to girder.  Unit 5 - Spalls with 8' rebar exposed &amp; 5' cracking to girders.  Unit 6 - 6' - Longitudinal cracks &amp; large spalls with 19' of rebar exposed to Lt &amp; Rt. girders.  Unit 7 - 3' - Longitudinal cracks &amp; spalls with 16' rebar exposed to girders.  Unit 8 - OK</p> <p>Large areas of delamination &amp; cracks with rust stains to Units 1 - 7.  Hairline longitudinal cracks at top of girders near soffit at Units 1, 3, and 4.  Spalls with rebar exposed to diaphragms at beginning of span at Units 1, 2, 5, 6, and 7.</p> <p>Some spalled areas have been patched in the past with grout. Patches are cracked and delaminated.</p>							

**59 - Superstructure** (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: Span 1 is in fair condition.

Span 2 has most units with cracks, large spalls with rebar exposed to most units.



## Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	2	0	0	2	0
1130	Cracking (RC and Other)	EA	2	0	0	2	0
(205) Vertical cracks to Columns 1 & 2.							
215	Reinforced Concrete Abutment	LF	100	62	26	12	0
1080	Delamination/Spall/Patched Area	LF	5	0	2	3	0
1120	Efflorescence/Rust Staining	LF	2	0	2	0	0
1130	Cracking (RC and Other)	LF	11	0	2	9	0
1190	Abrasion/Wear (PSC/RC)	LF	20	0	20	0	0
(215) 6 FH vertical cracks to Abutment 1. 5 FH vertical cracks to Abutment 2. Some cracks have minor efflorescence. Abrasion along bottom of Abutment 2. Erosion behind Left & Right wings @ Abutment 1.							
220	Reinforced Concrete Pile Cap/Footing	LF	32	8	23	1	0
1130	Cracking (RC and Other)	LF	1	0	0	1	0
6000	Scour	LF	23	0	23	0	0
(220) Crack to footing near centerline. Top of footing is exposed.							
234	Reinforced Concrete Pier Cap	LF	28	0	0	28	0
1080	Delamination/Spall/Patched Area	LF	10	0	0	10	0
1130	Cracking (RC and Other)	LF	18	0	0	18	0
(234) Several horizontal and vertical cracks and delaminated areas to Cap at Bent 1. (light rust stains to vertical cracks) 1.5' of spalls and deterioration to Left and Right ends of Cap.							

### 60 - Substructure (4 - POOR CONDITION - advanced section loss, deterioration, spalling or scour.)

Comment: Condition lowered due to overall deteriorating condition of cap, cracking to concrete columns and cracks to abutments.



Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
----------	-------------	-------	-------	-----	-----	-----	-----





Elevation with log mile going right.



Roadway with log mile looking east.



Span 2 - Large spalls with rebar exposed to Girders.



Span 2 - Large spalls with rebar exposed to Girders.





Span 2 - Large areas of delamination & cracks with rust stains to Units 1 - 7.



2 Full height vertical crack @ abutment 2.



Spalls with rebar exposed to units 1 - 6.



Efflorescent map cracking to girder @ Unit 3 @ Span 1.





Overall soffit @ span 2.



Upstream



Downstream



Typical cracks to wearing surface.





Overall deck.



Load posting sign @ abutment 1.



Load posting sign @ abutment 2.

**Maintenance Needs**

**Date Reported:** 04/04/2017  
**Priority:** C - Important  
**Type of Work:** (Inactive) (Inactive) 9 - None  
**Status:** Monitor  
**Component:**

**Deficiency Description**

Span 1 - Longitudinal cracks with heavy efflorescence to Girders of Unit 3.  
Span 2 - Large areas of delamination & cracks with rust stains to Units 1 - 7.

**Remarks**



Span 1 - Longitudinal cracks with heavy efflorescence to Girders of Unit 3.



Span 2 - Large areas of delamination & cracks with rust stains to Units 1 - 7.



**Date Reported:** 03/22/2018  
**Priority:** C - Important  
**Type of Work:** Repair (General)  
**Status:** Monitor  
**Component:** Bridge

---

**Deficiency Description**

Erosion behind Left & Right wings @ Abutment 1.

**Remarks**

---



Erosion behind Left & Right wings @ Abutment 1.

**Date Reported:** 03/07/2019  
**Priority:** C - Important  
**Type of Work:** (Inactive) (Inactive) 9 - None  
**Status:** Monitor  
**Component:**

---

**Deficiency Description**

Cracking, Spalls and delaminated areas to Cap at Bent 1.

**Remarks**

---



Cracking, Spalls and delaminated areas to Cap at Bent 1.



Cracking, Spalls and delaminated areas to Cap at Bent 1.



**Asset #M3313(Routine)**

**SH/56 Izard County over LITTLE PINEY CREEK**

**Location: 5.9 MI E OF BROCKWELL**

**Team Lead: Kerry Little, Inspection Date: 03/13/2023**

**Date Reported:** 04/04/2017  
**Priority:** B - Pressing  
**Type of Work:** (Inactive) (Inactive) 9 - None  
**Status:** Open  
**Component:**

---

**Deficiency Description**

Span 2 - Large spalls with rebar exposed to Girders.  
Span 2 - Large areas of delamination & cracks with rust stains to Units 1 - 7.

**Remarks**

---





Span 2 - Large spalls with rebar exposed to Girders.



Unit 7 - Spall with 8' rebar exposed.





Unit 6 - Spall with 36' rebar exposed.



Span 2 - Large spalls with rebar exposed to Girders.

**Date Reported:** 04/02/2021  
**Priority:** D- Routine  
**Type of Work:** Repair (General)  
**Status:** Monitor  
**Component:** Bridge

---

**Deficiency Description**

All concrete posts on Left side have collision damage.

**Remarks**

---



All concrete posts on Left side have collision damage.



All concrete posts on Left side have collision damage.



**Asset #M3313(Routine)**

**SH/56 Izard County over LITTLE PINEY CREEK**

**Location: 5.9 MI E OF BROCKWELL**

**Team Lead: Kerry Little, Inspection Date: 03/13/2023**

## **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	





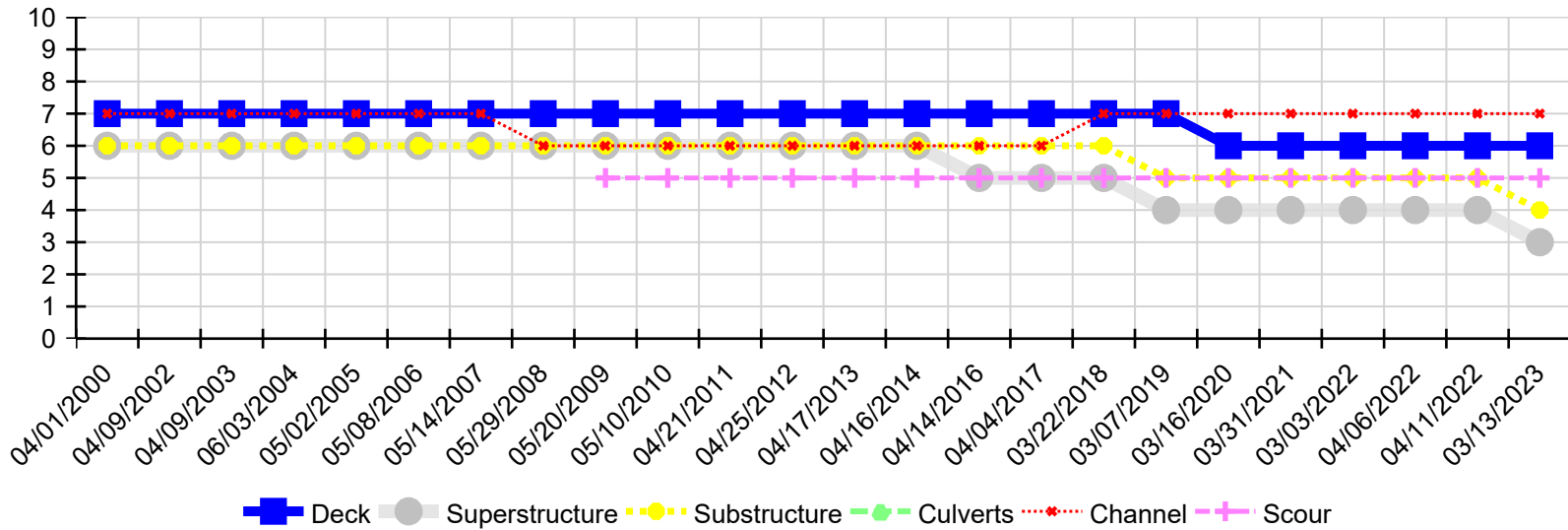
Asset #M3313(Routine)

SH/56 Izard County over LITTLE PINEY CREEK

Location: 5.9 MI E OF BROCKWELL

Team Lead: Kerry Little, Inspection Date: 03/13/2023

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
03/13/2023	6	3	4	N	7	5
04/11/2022	6	4	5	N	7	5
04/06/2022	6	4	5	N	7	5
04/06/2022	6	4	5	N	7	5
03/03/2022	6	4	5	N	7	5
03/31/2021	6	4	5	N	7	5
03/16/2020	6	4	5	N	7	5
03/16/2020	6	4	5	N	7	5
03/07/2019	7	4	5	N	7	5
03/22/2018	7	5	6	N	7	5
04/04/2017	7	5	6	N	6	5
04/14/2016	7	5	6	N	6	5
04/16/2014	7	6	6	N	6	5
04/17/2013	7	6	6	N	6	5
04/25/2012	7	6	6	N	6	5
04/21/2011	7	6	6	N	6	5
05/10/2010	7	6	6	N	6	5
05/20/2009	7	6	6	N	6	5
05/29/2008	7	6	6	N	6	N
05/14/2007	7	6	6	N	7	N
05/08/2006	7	6	6	N	7	N
05/02/2005	7	6	6	N	7	N
06/03/2004	7	6	6	N	7	N
04/09/2003	7	6	6	N	7	N
04/09/2002	7	6	6	N	7	N
04/01/2000	7	6	6	N	7	N