

## Bridge 02859 Inspection Report



Latitude:36.43460, Longitude:-90.40684

Route:62 Section:20 Log:11.71

Arnold Road ID:11x62x20xA, Arnold Log mile:11.714

District 10, 21 - Clay County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E

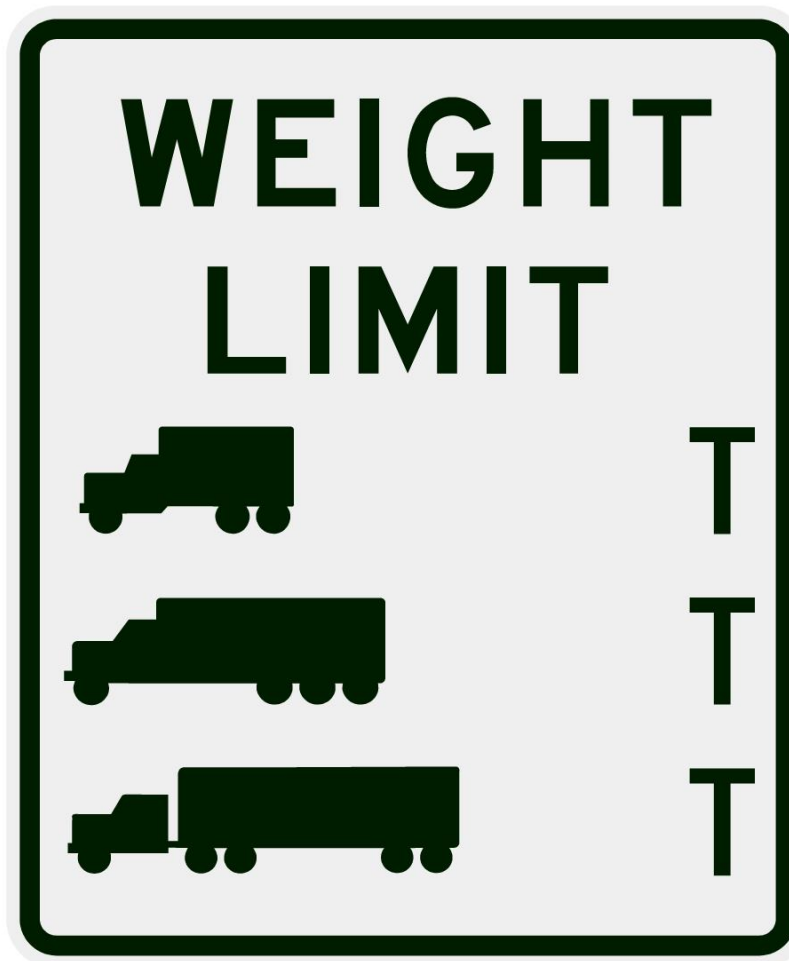
### Bridge Posting Information

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

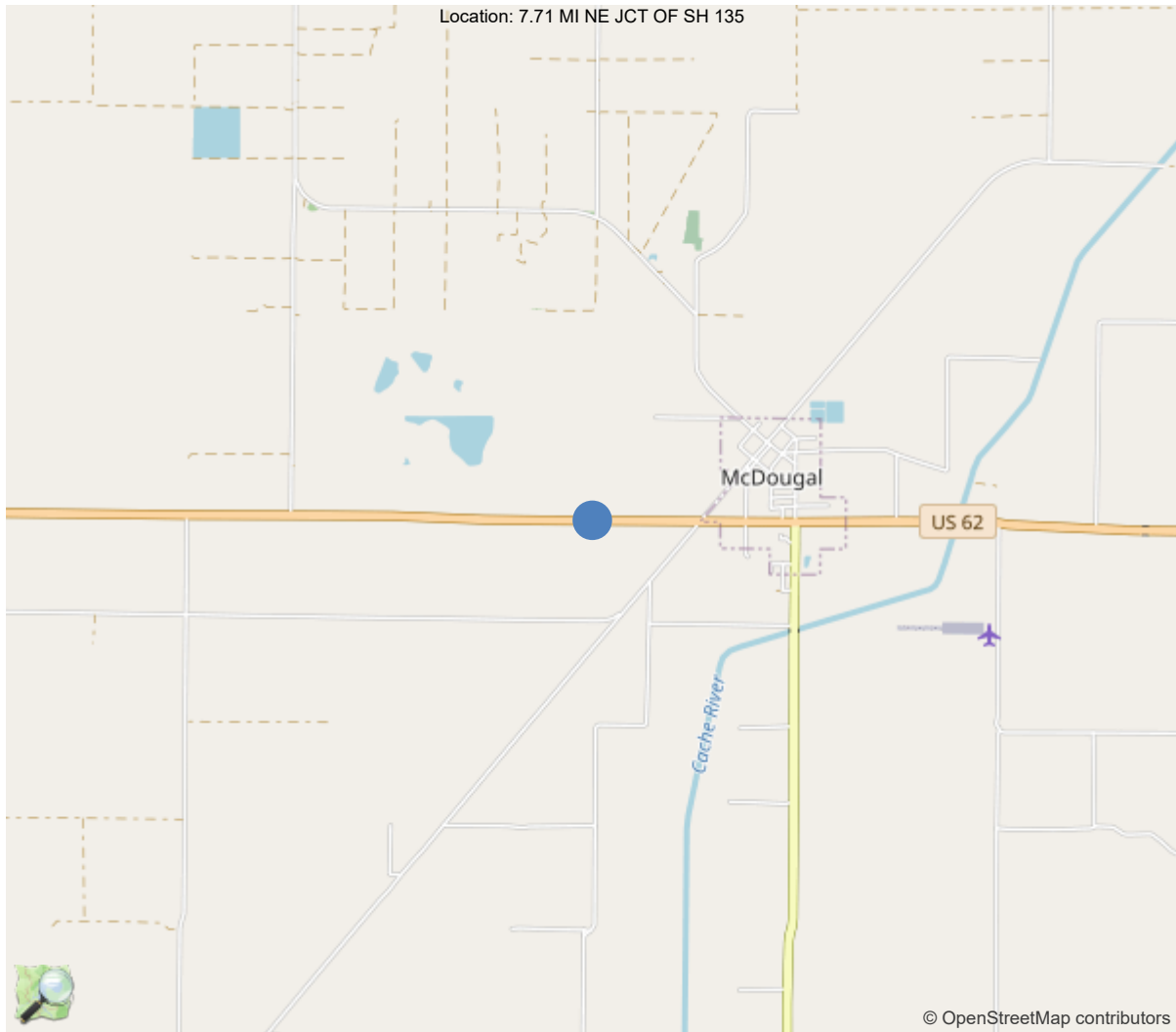
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	37		
Code 9 (31 Tons)	40		
Code 5 (40 Tons)	48		

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



36.43460, -90.40684

## National Bridge Inventory Data Sheet

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	02859
(5) Inventory Route	1
(2) Highway Agency District	10 - District 10
(3) County Code	21 - Clay County
(4) Place Code	0
(6) Features Intersected	DITCH NO 13
(7) Facility Carried	US 62-20- LM 11.71
(9) Location	7.71 MI NE JCT OF SH 135
(11) Mile Point	11.71 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000062200
(16) Latitude	36.4345963955501
(17) Longitude	-90.4068438678901
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	21
Material	2 - Concrete continuous
Type	1 - Slab
(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	1 - Concrete Cast-in-Place
(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	1953
(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	1300
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	6 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	33 ft
(49) Structure Length	88 ft
(50) Curb or Sidewalk Width	
Left	1.5 ft
Right	1.5 ft
(51) Bridge Roadway Width Curb to Curb	26 ft
(52) Deck Width Out to Out	29.5 ft
(32) Approach Roadway Width (W/Shoulders)	32.2 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	26 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	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 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	7
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	4 - M 18 / H 20
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	46
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	28
(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	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(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	1447
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			11/25/2024
(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.			

Team Lead: James Adams, Inspection Date: 11/25/2024

### Specifications for National Bridge Inventory Sheets

IDENTIFICATION	
B.ID.01 Bridge Number	02859
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	
B.W.01 Year Built	1953

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	21 - Clay County
B.L.03 Place Code	00000 - N/A
B.L.04 Highway Agency District	10 - District 10
B.L.05 Latitude	36.4345963955501
B.L.06 Longitude	-90.4068438678901
B.L.07 Border Bridge Number	
B.L.08 Border Bridge State or Country Code	
B.L.09 Border Bridge Insp. Resp.	
B.L.10 Border Bridge Designated Lead State	
B.L.11 Bridge Location	7.71 MI NE JCT OF SH 135
B.L.12 Metropolitan Planning Organization	

CLASSIFICATION	
B.CL.01 Owner	S01 - State transportation departme
B.CL.02 Maint. Responsibility	S01 - State transportation departme
B.CL.03 Federal or Tribal Land Access	N - Not Applicable
B.CL.04 Historic Significance	N - Bridge is not eligible for the
B.CL.05 Toll	N - Bridge does not carry a toll ro
B.CL.06 Emergency Evacuation Designation	

ROADSIDE HARDWARE	
B.RH.01A Bridge Railing Type	
B.RH.01B Bridge Railing Year (YY)	
B.RH.01C Bridge Railing Test Level	
B.RH.02A Transition Type	
B.RH.02B Transition Year (YY)	
B.RH.02C Transition Test Level	

BRIDGE GEOMETRY	
B.G.01 NBIS Bridge Length	88
B.G.02 Total Bridge Length	87.9
B.G.03 Max Span Length	33.1
B.G.04 Min Span Length	27.5
B.G.05 Bridge Width Out-to-Out	29.5
B.G.06 Bridge Width Curb-to-Curb	25.9
B.G.07 Left Curb or Sidewalk Width	1.6
B.G.08 Right Curb or Sidewalk Width	1.6
B.G.09 Approach Roadway Width	32.2

B.G.10 Bridge Median	0 - No median
B.G.11 Skew	0
B.G.12 Curved Bridge	N - Not curved
B.G.13 Max Bridge Height	10
B.G.14 Sidehill Bridge	N - Not a sidehill bridge
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	2596.3

LOADS AND LOAD RATING	
B.LR.01 Design Load	H20 - H-20
B.LR.02 Design Method	
B.LR.03 Load Rating Date	
B.LR.04 Load Rating Method	LFR - Load Factor Rating
B.LR.05 Inventory Load Rating Factor	0.78
B.LR.06 Operating Load Rating Factor	1.28
B.LR.07 Controlling Legal Load Rating Factor	
B.LR.08 Routine Permit Loads	

INSPECTION REQUIREMENTS	
B.IR.01 NSTM Inspection Required	N - NSTM inspection not required.
B.IR.02 Fatigue Details	N - No E/E' details
B.IR.03 UW Inspection Required	N - Underwater inspection not requi
B.IR.04 Complex Feature	N - Bridge does not have complex fe

COMPONENT CONDITION RATINGS	
B.C.01 Deck Condition Rating	7 - GOOD - Some minor defects.
B.C.02 Superstructure Condition	7 - GOOD - Some minor defects.
B.C.03 Substructure Condition	7 - GOOD - Some minor defects.
B.C.04 Culvert Condition	N - NOT APPLICABLE - Component
B.C.05 Bridge Railing Condition	6 - SATISFACTORY - Widespread
B.C.06 Bridge Railing Transitions Condition	6 - SATISFACTORY - Widespread
B.C.07 Bridge Bearings Cond.	N - NOT APPLICABLE - Component
B.C.08 Bridge Joints Condition	N - NOT APPLICABLE - Bridge do
B.C.09 Channel Condition Rating	6 - SATISFACTORY - Widespread
B.C.10 Channel Protection Condition	N - NOT APPLICABLE - Bridge do
B.C.11 Scour Condition Rating	6 - Widespread minor or isolat
B.C.12 Bridge Condition Classification	G - Good
B.C.13 Lowest Condition Rating	7 - GOOD - Some minor defects.
B.C.14 NSTM Insp. Condition	N - NOT APPLICABLE - Component
B.C.15 UW Inspection Condition	

APPRAISAL	
B.AP.01 Approach Roadway Alignment	G - Good
B.AP.02 Overtopping Likelihood	1 - Remote - once every 100 years o
B.AP.03 Scour Vulnerability	0 - Scour appraisal has not been co
B.AP.04 Scour Plan of Action	0 - A scour POA is not required.
B.AP.05 Seismic Vulnerability	0 - Seismic evaluation not complete

Team Lead: James Adams, Inspection Date: 11/25/2024

SPAN SETS			
<b>M1</b>			
B.SP.02 # of Spans	3	B.SP.08 Deck Interaction	IM - Integral or monolithic
B.SP.03 # of Beam Lines	1	B.SP.09 Deck Material and Type	C01 - Reinforced concrete - ca
B.SP.04 Span Material	C01 - Reinforced concrete - ca	B.SP.10 Wearing Surface	B01 - Bituminous (asphalt)
B.SP.05 Span Continuity	2 - Continuous	B.SP.11 Deck Protective System	0 - None
B.SP.06 Span Type	S01 - Slab - solid	B.SP.12 Deck Reinforcing Protective System	0 - None
B.SP.07 Span Protective System	0 - None	B.SP.13 Deck Stay-In-Place Forms	0 - None

SUBSTRUCTURE SETS			
<b>A1</b>			
B.SB.02 No. of Substructure Units	2	B.SB.05 Substructure Protective System	0 - None
B.SB.03 Substructure Material	C01 - Reinforced concrete - ca	B.SB.06 Foundation Type	PX - Pile - other
B.SB.04 Substructure Type	A02 - Abutment - stub	B.SB.07 Foundation Protective System	0 - None
<b>P1</b>			
B.SB.02 No. of Substructure Units	2	B.SB.05 Substructure Protective System	0 - None
B.SB.03 Substructure Material	C01 - Reinforced concrete - ca	B.SB.06 Foundation Type	PX - Pile - other
B.SB.04 Substructure Type	B03 - Bent - pile	B.SB.07 Foundation Protective System	0 - None

HIGHWAY FEATURES			
<b>H1</b>			
B.F.02 Feature Location	C - Carried on bridge	B.H.09 Annual ADT	1300
B.F.03 Feature Name	US 62-20- LM 11.71	B.H.10 Annual ADTT	13
B.H.01 Functional Classification	4 - Minor Arterial	B.H.11 Year of Annual ADT	2018
B.H.02 Urban Code	99999	B.H.12 Highway Max Usable Vertical Clearance	99.9
B.H.03 NHS Designation	N - Non-NHS	B.H.13 Highway Min Vertical Clearance	99.9
B.H.04 National Highway Freight Network	1-T - TEMP - NHFN - 1 or 2 or	B.H.14 Highway Min Horizontal Clearance, Left	
B.H.05 STRAHNET Designation	N - Not a STRAHNET route	B.H.15 Highway Min Horizontal Clearance, Right	
B.H.06 LRS Route ID	62200	B.H.16 Highway Max Usable Surface Width	25.9
B.H.07 LRS Mile Point	11.71	B.H.17 Bypass Detour Length	6
B.H.08 Lanes On Highway	2	B.H.18 Crossing Bridge Number	

HIGHWAY ROUTES					
Highway Parent	B.RT.01 Route Designation	B.RT.02 Route Number	B.RT.03 Route Direction	B.RT.04 Route Type	B.RT.05 Service Type
H1	1	62	2-T - TEMP - Two-way traffic - NS or EW	2 - U.S. route	1 - Mainline



Team Lead: James Adams, Inspection Date: 11/25/2024

## WATERWAY FEATURES

W1

B.F.02 Feature Location	B - Below bridge	B.N.03 Movable Bridge Max Navigation Vertical Clearance	
B.F.03 Feature Name	DITCH NO 13	B.N.04 Navigation Channel Width	
B.N.01 Navigable Waterway	N - Not navigable waters	B.N.05 Navigation Channel Min Horizontal Clearance	
B.N.02 Navigation Min Vertical Clearance		B.N.06 Substructure Navigation Protection	

## POSTING STATUS DATA

B.PS.01 Load Posting Status	B.PS.02 Posting Status Change Date
PO - Permanent and Open	

## LOAD EVALUATION AND POSTING

B.EP.01 Legal Load Configuration	B.EP.02 Legal Load Rating Factor	B.EP.03 Posting Type	B.EP.04 Posting Value
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Asset #02859(Routine)

US 62-20- LM 11.71 over DITCH NO 13

Location: 7.71 MI NE JCT OF SH 135

Team Lead: James Adams Inspection Date: 11/25/2024

## Inspection Notes

### General Observation

Equipment: Waders.

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

See elements

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

See elements

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

See elements

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**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.)  
Bent 1 abutment is undermined on left and right ends up to 2ft. below and 1.5ft. back under cap.  
Bent 4 abutment is undermined on for 8ft. on left end up to 1.5ft. below and 2ft. back under cap. Pile 1 is exposed.

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

Bent 1 abutment is undermined on left and right ends up to 2ft. below and 1.5ft. back under cap.  
Bent 4 abutment is undermined on for 8ft. on left end up to 1.5ft. below and 2ft. back under cap. Pile 1 is exposed.

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Asset #02859(Routine)

US 62-20- LM 11.71 over DITCH NO 13

Location: 7.71 MI NE JCT OF SH 135

Team Lead: James Adams Inspection Date: 11/25/2024

### National Bridge Element Quantities and Notes

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	2596	2363	0	233	0
1080	Delamination/Spall/Patched Area	SF	60	0	0	60	0
1090	Exposed Rebar	SF	20	0	0	20	0
1120	Efflorescence/Rust Staining	SF	98	0	0	98	0
1130	Cracking (RC and Other)	SF	55	0	0	55	0
510	Wearing Surfaces	SF	2288	2041	0	247	0
3210	Delam/Spall/Patched Area/Pothole	SF	18	0	0	18	0
3220	Crack (Wearing Surface)	SF	229	0	0	229	0
(38) Curbs have areas of concrete disintegration 52 SF Spalling (CS3) Curbs have some exposed rebar.4SF (CS3) Undersurface has a few longitudinal cracks. 55 LF (CS3), Delam. 8SF (CS3) Undersurface has transverse cracks with some efflorescence along construction joints. 98 SF (CS3) Undersurface has some efflorescence or spalls with exposed rebar near edges & drains. 16 SF (CS3) (510-38) Asphalt wearing surface has numerous cracks 229 SF (CS3) Asphalt wearing surface has a few small spalls along center line. 18SF (CS3).							
215	Reinforced Concrete Abutment	LF	77	54	0	23	0
1080	Delamination/Spall/Patched Area	LF	6	0	0	6	0
1090	Exposed Rebar	LF	2	0	0	2	0
6000	Scour	LF	15	0	0	15	0
(215) Bent 1 abutment is undermined on left and right ends up to 2ft. below and 1.5ft. back under cap. 7LF (CS3) Bent 4 abutment is undermined on for 8ft. on left end up to 1.5ft. below and 2ft. back under cap. Pile 1 is exposed. 8LF (CS3). Bent 4 abutment has a 6LF (CS3) of delaminated areas/spalls. Bent 4 abutment has 2LF of exposed rebar (CS3).							
227	Reinforced Concrete Pile	EA	10	0	10	0	0
1190	Abrasion/Wear (PSC/RC)	EA	10	0	10	0	0
(227) Piles have minor abrasion. 10 EA (CS2).							
234	Reinforced Concrete Pier Cap	LF	61	45	0	16	0
1080	Delamination/Spall/Patched Area	LF	6	0	0	6	0
1090	Exposed Rebar	LF	10	0	0	10	0
(234) Caps have exposed rebar and delaminations. Bent 2 cap: 8LF (CS3) Bent 4 cap:2LF (CS3). 6LF Delamination (CS3)							
330	Metal Bridge Railing	LF	176	88	85	3	0
1000	Corrosion	LF	85	0	85	0	0

**Team Lead:** James Adams **Inspection Date:** 11/25/2024

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
7000	Damage	LF	3	0	0	3	0
515	Steel Protective Coating	SF	563	281	282	0	0
3440	Effectiveness (Steel Protective Coatings)	SF	282	0	282	0	0
(330) Left rail has surface rust. Right rail was replaced sometime in the past 85 LF (CS2)							
Several posts were patched, 3 are cracked. 3LF (CS3) damage							
(515-330) Left rail has surface rust. 282 SF (CS2).							

## Inspection Photos and Notes



Span 2 undersurface



Span 1 has 3 Right posts cracks



Deck



Roadway



**Asset #02859**(Routine)

**US 62-20- LM 11.71 over DITCH NO 13**

**Location: 7.71 MI NE JCT OF SH 135**

**Team Lead: James Adams Inspection Date: 11/25/2024**



Elevation

### Maintenance Needs

Date Reported: 11/08/2016

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Channel

### Deficiency Description

Bent 1 abutment is undermined on Lt and Rt ends up to 2' below and 1.5' back under cap.

Bent 4 abutment is undermined on for 8' on Lt end up to 1.5' below and 2' back under cap. Pile 1 is exposed.

### Remarks



Bent 4



Bent 1



2022 - Bent 1



2022 - Bent 4

### Maintenance Needs

Date Reported: 11/24/2014

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Deck

### Deficiency Description

Curbs have areas of concrete disintegration with some rebar exposed.

### Remarks



Right curb



Left curb



Lt curb



Asset #02859(Routine)

US 62-20- LM 11.71 over DITCH NO 13

Location: 7.71 MI NE JCT OF SH 135

Team Lead: James Adams Inspection Date: 11/25/2024

## Routine Maintenance

### Check Box Maintenance Items

Type of Maintenance	Is Recommended?
A-54 - Sealable Deck Cracks	No
A-55 - Deck Washing Needed	No
A-56 - Joint Cleaning/Flushing Needed	No
A-57 - Beam End and Bearing Paint Needed	No
A-58 - Cap Cleaning/Flushing Needed	No
A-59 - Joint Repair Needed	No
A-60 - Full Beam Painting Needed	No
A-61 - Polymer Overlay Advised	No
A-62 - Hydro and LMC Advised	No
A-63 - Missing/Incorrect Log Mile Signage	No
A-64 - Vegetation Removal Requested	No
A-65 - Clogged deck drains?	
A-66 - Approach minor pothole/leveling needed	

**A-54 - Sealable Deck Cracks (No)**

**A-55 - Deck Washing Needed (No)**

**A-56 - Joint Cleaning/Flushing Needed (No)**



**Asset #02859**(Routine)

**US 62-20- LM 11.71 over DITCH NO 13**

**Location: 7.71 MI NE JCT OF SH 135**

**Team Lead: James Adams Inspection Date: 11/25/2024**

**A-57 - Girder End and Bearing Painting Needed (No)**

**A-58 - Cap Cleaning/Flushing Needed (No)**

**A-59 - Joint Repair Needed (No)**

**A-60 - Full Girder Painting Needed (No)**

**A-61 - Polymer Overlay Advised (No)**

**A-62 - Hydro and LMC Advised (No)**

**A-63 - Missing/Incorrect Log Mile Signage (No)**

**A-64 - Vegetation Removal Requested (No)**

**A-65 - Clogged deck drains?**



**Asset #02859**(Routine)

**US 62-20- LM 11.71 over DITCH NO 13**

**Location: 7.71 MI NE JCT OF SH 135**

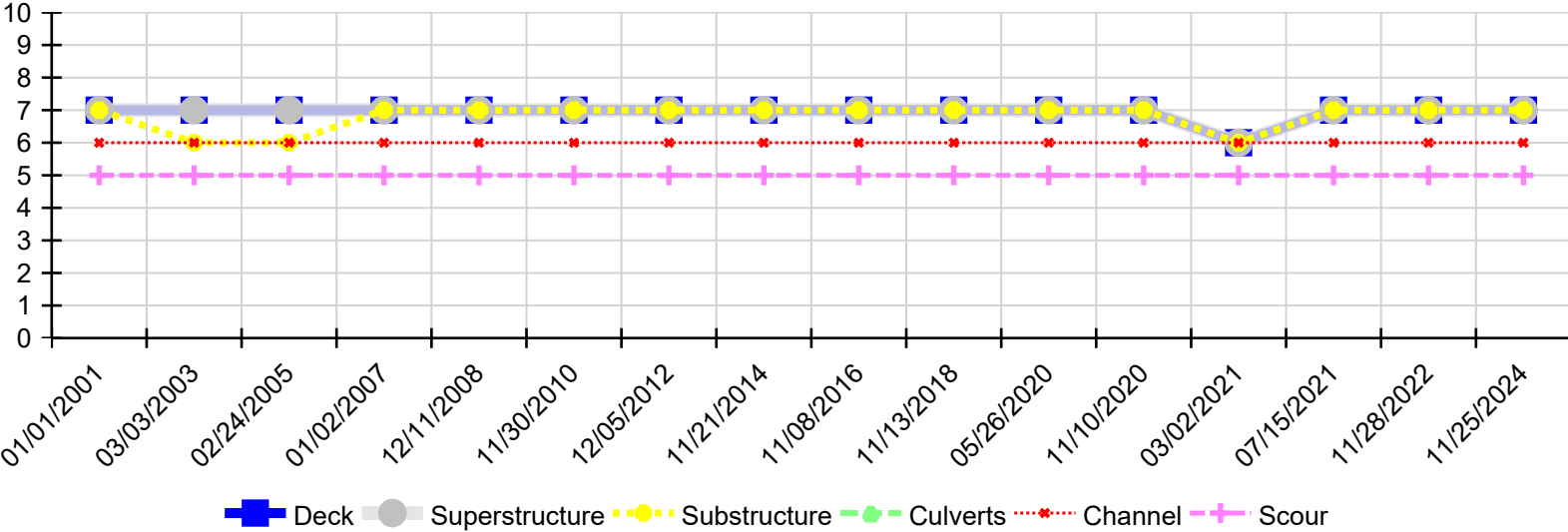
**Team Lead: James Adams Inspection Date: 11/25/2024**

**A-66 - Approach minor pothole/leveling needed**



Asset #02859(Routine)  
US 62-20- LM 11.71 over DITCH NO 13  
Location: 7.71 MI NE JCT OF SH 135  
Team Lead: James Adams Inspection Date: 11/25/2024

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
11/25/2024	7	7	7	N	6	5
11/28/2022	7	7	7	N	6	5
07/15/2021	7	7	7	N	6	5
03/02/2021	6	6	6	N	6	5
11/10/2020	7	7	7	N	6	5
05/26/2020	7	7	7	N	6	5
11/13/2018	7	7	7	N	6	5
11/08/2016	7	7	7	N	6	5
11/21/2014	7	7	7	N	6	5
12/05/2012	7	7	7	N	6	5
11/30/2010	7	7	7	N	6	5
12/11/2008	7	7	7	N	6	5
01/02/2007	7	7	7	N	6	5
02/24/2005	7	7	6	N	6	5
03/03/2003	7	7	6	N	6	5
01/01/2001	7	7	7	N	6	5