



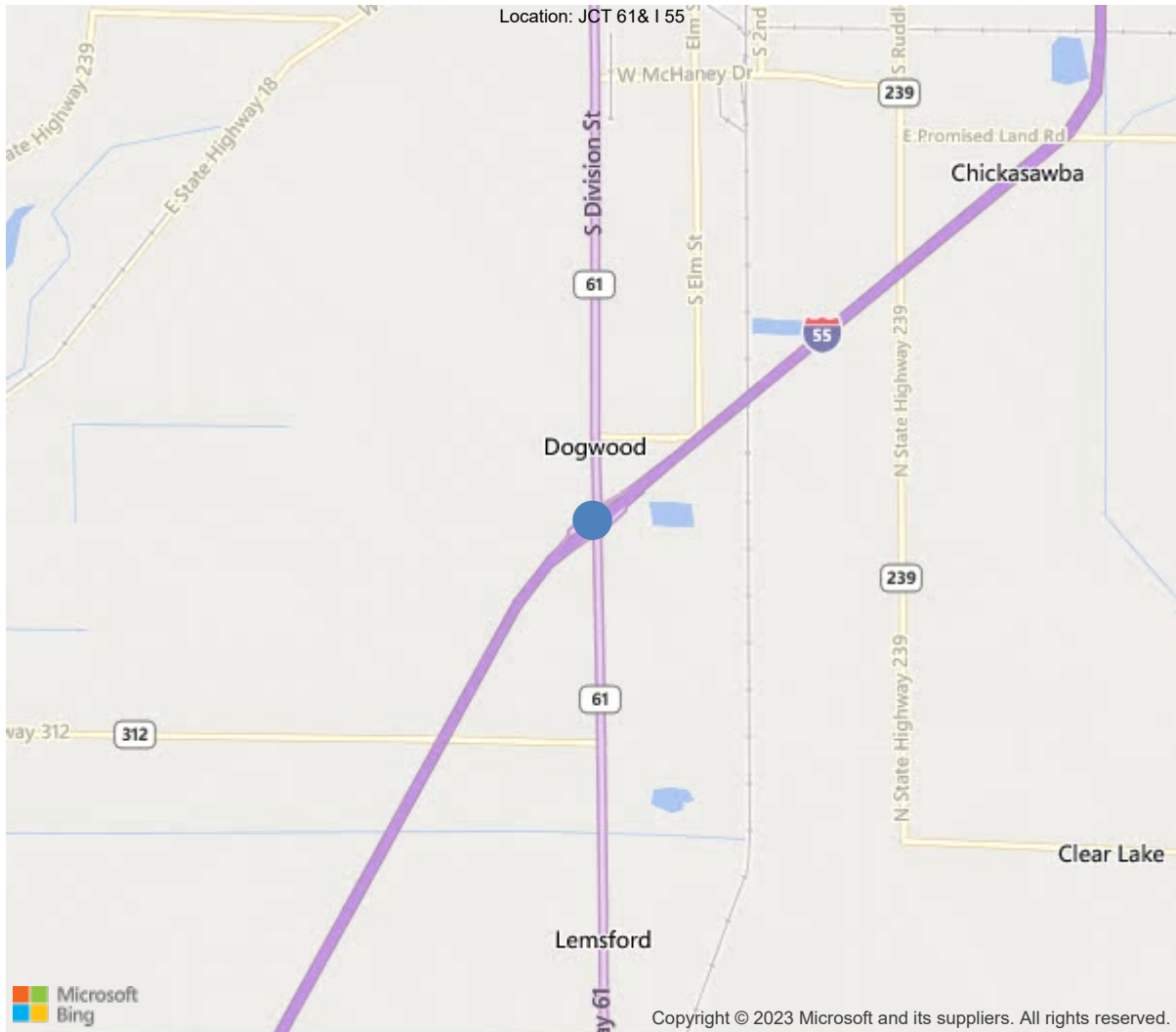
Latitude:35.88690, Longitude:-89.91887

Route:55 Section:12 Log:63.29

Arnold Road ID:47x55x12xB, Arnold Log mile:8.938

District 10, 93 - Mississippi County

Owner: 1 - State Highway Agency



35.88690, -89.91887



Asset #A3162(Routine)

I 55-12SB-LM 63.29 over US 61-SEC 3

Location: JCT 61& I 55

Team Lead: Jacob Turner, Inspection Date: 06/15/2021

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	A3162
(5) Inventory Route	1
(2) Highway Agency District	10 - District 10
(3) County Code	93 - Mississippi County
(4) Place Code	0
(6) Features Intersected	US 61-SEC 3
(7) Facility Carried	I 55-12SB-LM 63.29
(9) Location	JCT 61& I 55
(11) Mile Point	63.29 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000055120
(16) Latitude	35.8869
(17) Longitude	-89.91887
(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	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	1 - Monolithic Concrete (concurrently pl
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1960
(106) Year Reconstructed	1987
(42) Type of Service	61
On	6 - Overpass structure at an interchange or s
Under	1 - Highway, with or without pedestrian
(28) Lane	
On	2
Under	4
(29) Average Daily Traffic	11029
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	100 ft
(49) Structure Length	226 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	40 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	41 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	15.05 ft
Ref:	
(55) Min Lat Underclear RT	12 ft
Ref:	
(56) Min Lat Underclear LT	0 ft
NAVIGATION DATA	
(38) Navigation Control	N - Not applicable, no waterwa
(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	11 - Urban 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 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	6
(59) Superstructure	6
(60) Substructure	7
(61) Channel & Channel Protection	N
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	6 - MS 18+Mod / HS 20+Mod
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	58
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	35
(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	6
(71) Waterway Adequacy	N
(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	N - Bridge not over waterway.
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	12812
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	06/15/2021		
(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>			





**58 - Deck** (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Under clearance only this report 2020.

Approach Slabs have insignificant size and density open seal able cracks. (80sqft)

Concrete rails have moderate width map cracking on entire rail.

Top of Deck has numerous moderate width & open seal able cracks, several areas of map cracking; all spans. (1880sqft.)

Soffit portion of deck overhangs have moderate width cracks with light efflorescence.

Majority of Poured Joint Material Bents 1-4 is beginning to lose adhesion, separate and split allowing leakage thru joints.

Some of seal has debris impact (24 ft.). Bent 2 Joint has 35ft. and bent 3 has 4ft that has come loose and has fell down.

---

**59 - Superstructure** (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Majority of Girders have rust.

Outside Girders have been painted on the outside only in the past and paint system does not show the rust.

Majority of Girders has some rust with initial section loss at Pin and Hanger joints.

Span 1 girder 4(pack rust) & span 2 girders 3,4 & 5 have areas of bottom flange with peeling paint.

Span 2 Joint 2A Girders 1-6 Pin and Hanger Assembly has some pack rust between Web of Girders & hangers.

Span 1 Girder 3 Bent 1 has 1 anchor bolt missing.

Span 1 Girder 6 Bent 1 has 1 anchor bolt rusted or sheared off and 1 nut missing from the other bolt, bearing has shifted.

Span 2 Bay 2 near Bent 3 has 2 bolts & nuts missing from bottom lateral bracing.

Bents 1&4 Bearings have some pack rust developing.

---

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

Bent 2 concrete cap has 3 moderate width cracks in cap near column 3.

Bent 1 & 4 concrete abutments have moderate width cracks.

Bents 1&4 Caps have areas of dirt and debris buildup on top of caps and around bearings.

Minimum Clearances checked and verified.

Minimum clearance on parallel structure B3162 is 14' -10".

Small section top of ending end slope protection has collapsed about 12' in length.

---

**A-46 - Asset Files**

-

---





Asset #A3162(Routine)

I 55-12SB-LM 63.29 over US 61-SEC 3

Location: JCT 61& I 55

Team Lead: Jacob Turner, Inspection Date: 06/15/2021

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	9686	0	9444	242	0
1130	Cracking (RC and Other)	SF	2422	0	2180	242	0
1190	Abrasion/Wear (PSC/RC)	SF	7264	0	7264	0	0
(12) 06/21/2021 - JRT & VLC							
- The driving surface has transverse cracking at various spacing throughout the structure							
- The outside lane has map cracking throughout the driving surface							
- The driving surface has light to moderate scaling throughout the driving surface.							
107	Steel Open Girder/Beam	LF	1337	1300	1	36	0
1000	Corrosion	LF	37	0	1	36	0
1900	Distortion	LF	1	1	0	0	0
515	Steel Protective Coating	SF	21348	20910	0	396	42
3440	Effectiveness (Steel Protective Coatings)	LF	438	0	0	396	42
(107) 06/21/2021 - JRT & VLC							
- Bent 1 (West Abutment) - (Span 1 / Girder 4) has active corrosion with flaking rust along the bottom flange of the beam end.							
- Span 2 (Girders 1 thru 6) distortion along the bottom flanges in the Northbound lane from what appears to be from vehicular impaction.							
- Span 2 (Girder 5) has out of plane bending between diaphragms 3 and 4 adjacent to bent 2.							
- Span 2 (Girder 6) has active corrosion with 100% section loss along the diaphragm connection adjacent to bent 3.							
161	Steel Pin, Pin and Hanger Assembly	EA	12	0	0	12	0
1000	Corrosion	EA	12	0	0	12	0
(161) 06/22/2021 - JRT & VCL							
- Span 2 (Girder 1) has active corrosion with flaking rust and section loss along the wind-lock connection adjacent to bent 3.							
- Each of the pin and hanger connections has active corrosion with flaking rust and pack rust between the connections							
205	Reinforced Concrete Column	EA	8	6	2	0	0
1130	Cracking (RC and Other)	EA	2	0	2	0	0
(205) 06/22/2021 - JRT & AMJ							
- Columns 3 and 4 (Bent 2) has cracking going around both columns.							
215	Reinforced Concrete Abutment	LF	106	76	30	0	0
1120	Efflorescence/Rust Staining	LF	15	0	15	0	0
1130	Cracking (RC and Other)	LF	15	0	15	0	0



Asset #A3162(Routine)

I 55-12SB-LM 63.29 over US 61-SEC 3

Location: JCT 61& I 55

Team Lead: Jacob Turner, Inspection Date: 06/15/2021

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(215) 006/22/2021 - JRT & VCL							
<ul style="list-style-type: none"> <li>- Bent 1 (West Abutment) has map cracking with efflorescence along the backwall between girders 1 and 2 (Bay 1)</li> <li>- Both abutments have vertical cracking with efflorescence</li> <li>- Bent 1 (West Abutment) and Bent 4 (East Abutment) wing-walls have vertical and horizontal cracking</li> <li>- Bent 4 (East Abutment) has spalling along the top of the head wall in the outside lane</li> <li>- Bent 4 (East Abutment) has erosion and undermining along the bridge seat on the North end of the abutment.</li> <li>- Bent 1 (West Abutment) and Bent 4 (East Abutment) has an accumulation of roadway debris from the failed joints.</li> </ul>							
234	Reinforced Concrete Pier Cap	LF	106	86	20	0	0
1010	Cracking	LF	5	0	5	0	0
1120	Efflorescence/Rust Staining	LF	15	0	15	0	0
(234) 06/22/2021 - JRT & VCL							
- Both caps at bents 2 and 3 have vertical and horizontal cracking with efflorescence							
301	Pourable Joint Seal	LF	219	87	32	68	32
2310	Leakage	LF	100	0	0	68	32
2340	Seal Cracking	LF	32	0	32	0	0
(301) 07/06/2021 - JRT & VCL							
- Bent 1 (West Abutment) has adhesion failure, cracking, and joint failure causing water and road debris to accumulate on top of the bridge seat.							
311	Movable Bearing	EA	12	12	0	0	0
313	Fixed Bearing	EA	12	0	2	10	0
1000	Corrosion	EA	6	0	0	6	0
1020	Connection	EA	2	0	2	0	0
2210	Movement	EA	3	0	0	3	0
2220	Alignment	EA	1	0	0	1	0

**Team Lead:** Jacob Turner, **Inspection Date:** 06/15/2021

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(313)	06/22/2021 - JRT & VCL						
-	Each of the fixed bearings at bents 1 and 4 have active corrosion with flaking rust and section loss						
-	Bent 1 (West Abutment) - (Girder 1 / Bearing 1) has active corrosion with flaking rust and section loss						
-	Bent 1 (West Abutment) - (Girder 6 / Bearing 6) has active corrosion with flaking rust along with one anchor bolt that is sheared off on the North side and one missing nut on the South side. (Bearing 6 also has misalignment of approximately 3.25")						
-	Bent 1 (West Abutment) - (Girder 4 / Bearing 4) has active corrosion with flaking rust along with one sheared anchor bolt.						
-	Bent 4 (East Abutment) - (Bearing 4) has active corrosion with measurable section loss. The bearing at this locations is floating (See files for video of floating bearing).						
-	Bent 1 (West Abutment) - (Girder 5 / Bearing 5) has active corrosion with measurable section loss. The bearing at this locations is floating (See files for video of floating bearing).						
321	Reinforced Concrete Approach Slab	SF	1920	1920	0	0	0
(321)	06/22/2021 - JRT and VCL						
-	East approach slab has spalling along the outside lane adjacent to the top head wall of bent 4 abutment.						
331	Reinforced Concrete Bridge Railing	LF	452	268	158	26	0
1090	Exposed Rebar	LF	26	0	0	26	0
1130	Cracking (RC and Other)	LF	158	0	158	0	0
(331)	06/22/2021 - JRT and VCL						
-	The bridge railings on both sides of the bridge has vertical and map cracking at various locations throughout the driving surface						
-	The bridge railing on the North side of the structure has spalling with exposed reinforcing steel						





Asset #A3162(Routine)

I 55-12SB-LM 63.29 over US 61-SEC 3

Location: JCT 61& I 55

Team Lead: Jacob Turner, Inspection Date: 06/15/2021

## Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	9686	0	9444	242	0
1130	Cracking (RC and Other)	SF	2422	0	2180	242	0
1190	Abrasion/Wear (PSC/RC)	SF	7264	0	7264	0	0
(12) 06/21/2021 - JRT & VLC							
- The driving surface has transverse cracking at various spacing throughout the structure							
- The outside lane has map cracking throughout the driving surface							
- The driving surface has light to moderate scaling throughout the driving surface.							

**58 - Deck** (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Comment: Under clearance only this report 2020.

Approach Slabs have insignificant size and density open seal able cracks. (80sqft)

Concrete rails have moderate width map cracking on entire rail.

Top of Deck has numerous moderate width & open seal able cracks, several areas of map cracking; all spans. (1880sqft.)

Soffit portion of deck overhangs have moderate width cracks with light efflorescence.

Majority of Poured Joint Material Bents 1-4 is beginning to lose adhesion, separate and split allowing leakage thru joints.

Some of seal has debris impact (24 ft.). Bent 2 Joint has 35ft. and bent 3 has 4ft that has come loose and has fell down.



Asset #A3162(Routine)

I 55-12SB-LM 63.29 over US 61-SEC 3

Location: JCT 61& I 55

Team Lead: Jacob Turner, Inspection Date: 06/15/2021

## Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	1337	1300	1	36	0
1000	Corrosion	LF	37	0	1	36	0
1900	Distortion	LF	1	1	0	0	0
515	Steel Protective Coating	SF	21348	20910	0	396	42
3440	Effectiveness (Steel Protective Coatings)	LF	438	0	0	396	42
(107) 06/21/2021 - JRT & VLC							
- Bent 1 (West Abutment) - (Span 1 / Girder 4) has active corrosion with flaking rust along the bottom flange of the beam end.							
- Span 2 (Girders 1 thru 6) distortion along the bottom flanges in the Northbound lane from what appears to be from vehicular impaction.							
- Span 2 (Girder 5) has out of plane bending between diaphragms 3 and 4 adjacent to bent 2.							
- Span 2 (Girder 6) has active corrosion with 100% section loss along the diaphragm connection adjacent to bent 3.							
161	Steel Pin, Pin and Hanger Assembly	EA	12	0	0	12	0
1000	Corrosion	EA	12	0	0	12	0
(161) 06/22/2021 - JRT & VCL							
- Span 2 (Girder 1) has active corrosion with flaking rust and section loss along the wind-lock connection adjacent to bent 3.							
- Each of the pin and hanger connections has active corrosion with flaking rust and pack rust between the connections							

### 59 - Superstructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Comment: Majority of Girders have rust.

Outside Girders have been painted on the outside only in the past and paint system does not show the rust.

Majority of Girders has some rust with initial section loss at Pin and Hanger joints.

Span 1 girder 4(pack rust) & span 2 girders 3,4 & 5 have areas of bottom flange with peeling paint.

Span 2 Joint 2A Girders 1-6 Pin and Hanger Assembly has some pack rust between Web of Girders & hangers.

Span 1 Girder 3 Bent 1 has 1 anchor bolt missing.

Span 1 Girder 6 Bent 1 has 1 anchor bolt rusted or sheared off and 1 nut missing from the other bolt, bearing has shifted.

Span 2 Bay 2 near Bent 3 has 2 bolts & nuts missing from bottom lateral bracing.

Bents 1&4 Bearings have some pack rust developing.



## Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	8	6	2	0	0
1130	Cracking (RC and Other)	EA	2	0	2	0	0
(205) 06/22/2021 - JRT & AMJ							
- Columns 3 and 4 (Bent 2) has cracking going around both columns.							
215	Reinforced Concrete Abutment	LF	106	76	30	0	0
1120	Efflorescence/Rust Staining	LF	15	0	15	0	0
1130	Cracking (RC and Other)	LF	15	0	15	0	0
(215) 006/22/2021 - JRT & VCL							
- Bent 1 (West Abutment) has map cracking with efflorescence along the backwall between girders 1 and 2 (Bay 1)							
- Both abutments have vertical cracking with efflorescence							
- Bent 1 (West Abutment) and Bent 4 (East Abutment) wing-walls have vertical and horizontal cracking							
- Bent 4 (East Abutment) has spalling along the top of the head wall in the outside lane							
- Bent 4 (East Abutment) has erosion and undermining along the bridge seat on the North end of the abutment.							
- Bent 1 (West Abutment) and Bent 4 (East Abutment) has an accumulation of roadway debris from the failed joints.							
234	Reinforced Concrete Pier Cap	LF	106	86	20	0	0
1010	Cracking	LF	5	0	5	0	0
1120	Efflorescence/Rust Staining	LF	15	0	15	0	0
(234) 06/22/2021 - JRT & VCL							
- Both caps at bents 2 and 3 have vertical and horizontal cracking with efflorescence							

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

Comment: Bent 2 concrete cap has 3 moderate width cracks in cap near column 3.

Bent 1 & 4 concrete abutments have moderate width cracks.

Bents 1&4 Caps have areas of dirt and debris buildup on top of caps and around bearings.

Minimum Clearances checked and verified.

Minimum clearance on parallel structure B3162 is 14' -10".

Small section top of ending end slope protection has collapsed about 12' in length.





Asset #A3162(Routine)

I 55-12SB-LM 63.29 over US 61-SEC 3

Location: JCT 61& I 55

Team Lead: Jacob Turner, Inspection Date: 06/15/2021

## Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Elevation



Elevation



Inventory photo



Typical driving surface



Typical under surface



Span 2 (Girder 5) has out of plane bending between diaphragms 3 and 4 adjacent to bent 2.



Typical cracking with efflorescence along bent 3 cap



Bent 1 (West Abutment) and Bent 4 (East Abutment) has an accumulation of roadway debris from the failed joints.





Bent 4 (East Abutment) has erosion and undermining along the bridge seat on the North end of the abutment.



Typical cracking with efflorescence along the back walls of both abutments.



Bent 4 (East Abutment) has erosion and undermining along the bridge seat on the North end of the abutment.



Bent 4 (East Abutment) has erosion and undermining along the bridge seat on the North end of the abutment.





Bent 4 (East Abutment) has erosion and undermining along the bridge seat on the North end of the abutment.



Typical spalling with exposed reinforcing steel along the concrete bridge railing



Typical cracking along the concrete bridge railing

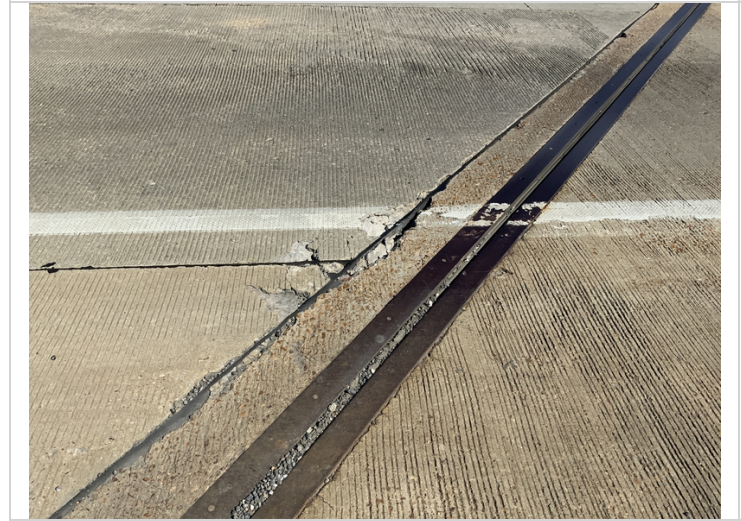


Typical abrasion throughout the driving surface

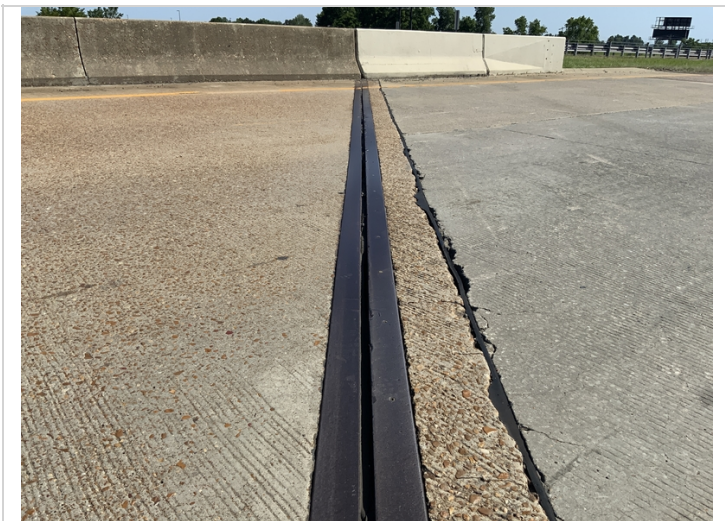




East approach slab has spalling along the outside lane adjacent to the top head wall of bent 4 abutment.



Bent 4 (East Abutment) has spalling along the top of the head wall in the outside lane



Bent 1 (West Abutment) has adhesion failure, cracking, and joint failure causing water and road debris to accumulate on top of the bridge seat.



Bent 1 (West Abutment) has adhesion failure, cracking, and joint failure causing water and road debris to accumulate on top of the bridge seat.





Typical cracking along the wing-walls of both abutments



Bent 1 (West Abutment) - (Girder 4 / Bearing 4) has active corrosion with flaking rust along with one sheared anchor bolt.



Bent 1 (West Abutment) has map cracking with efflorescence along the backwall between girders 1 and 2 (Bay 1)



Span 2 (Girders 1 thru 6) distortion along the bottom flanges in the Northbound lane from what appears to be from vehicular impactation.





Span 2 (Girders 1 thru 6) distortion along the bottom flanges in the Northbound lane from what appears to be from vehicular impact.



Bent 2 (Columns 3 & 4) has cracking going around the columns



Typical vertical and horizontal cracking with light efflorescence along the cap at bent 2



Typical minor pitting in various locations throughout structure.



Bt1 sp1 g6



**Asset #A3162**(Routine)

**I 55-12SB-LM 63.29 over US 61-SEC 3**

**Location: JCT 61& I 55**

**Team Lead:** Jacob Turner, **Inspection Date:** 06/15/2021

#### **Maintenance Needs**

**Date Reported:** 05/09/2011

**Priority:** D- Routine

**Type of Work:** Repair (General)

**Status:** Open

**Component:** Superstructure

---

#### **Deficiency Description**

Majority of Girders at Pin and Hanger Joints have rust with initial loss of section.

#### **Remarks**

07/06/2021 JRT & VCL

This maintenance need has been put in twice (this maintenance item can be removed)

---

**Maintenance Needs**

**Date Reported:** 05/09/2011

**Priority:** D- Routine

**Type of Work:** Repair (General)

**Status:** Monitor

**Component:** Superstructure

---

**Deficiency Description**

Span 2 Bay 2 near Bent 3 has 2 bolts missing from bottom lateral bracing.

**Remarks**

---



A3162 05-21-2015 Span 2 Bay 2 near Bent 3



### Maintenance Needs

Date Reported: 05/09/2011

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Superstructure

---

### Deficiency Description

07/06/2021 - JRT & VCL

- Bent 1 (West Abutment) - (Girder 6 / Bearing 6) has a anchor bolt that has been sheared off with misalignment of approximately 3.25"

- Bent 1 (West Abutment) - (Girder 5 / Bearing 5) has active corrosion with measurable section loss. The bearing at this locations is floating (See files for video of floating bearing).

- Bent 4 (East Abutment) - (Bearing 4) has active corrosion with measurable section loss. The bearing at this locations is floating (See files for video of floating bearing).

### Remarks

---



Bent 4 (East Abutment) - (Bearing 4) has active corrosion with measurable section loss. The bearing at this locations is floating (See files for video of floating bearing).



Bent 1 (West Abutment) - (Girder 5 / Bearing 5) has active corrosion with measurable section loss. The bearing at this locations is floating (See files for video of floating bearing).



Span 1 girder 3

**Maintenance Needs**

**Date Reported:** 05/09/2011

**Priority:** C - Important

**Type of Work:** Repair (General)

**Status:** Monitor

**Component:** Element

---

**Deficiency Description**

07/06/2021 - JRT & VCL

- The driving surface has open transverse cracking at various spacing throughout the structure
- There are areas of map cracking along the driving surface throughout the structure

**Remarks**

---



Typical map cracking along the outside lane throughout the length of the driving surface



Typical transverse cracking at various spacing throughout the driving surface



**Maintenance Needs**

**Date Reported:** 05/07/2013

**Priority:** D- Routine

**Type of Work:** Repair (General)

**Status:** Monitor

**Component:** Element

---

**Deficiency Description**

07/06/2021 - JRT & VCL

- Each of the pin and hanger assemblies have active corrosion with pack rust plus section loss between the hanger bar and the steel girder

**Remarks**

---



Typical active corrosion with flaking rust and pack rust along the pin and hanger connections



**Asset #A3162**(Routine)

**I 55-12SB-LM 63.29 over US 61-SEC 3**

**Location: JCT 61& I 55**

**Team Lead:** Jacob Turner, **Inspection Date:** 06/15/2021

#### **Maintenance Needs**

**Date Reported:** 05/07/2013

**Priority:** C - Important

**Type of Work:** Repair (General)

**Status:** Monitor

**Component:** Substructure

---

#### **Deficiency Description**

Caps Bents 1 & 4 have areas of dirt and debris on top of caps and around bearings.

#### **Remarks**

---



**Maintenance Needs**

**Date Reported:** 05/07/2013

**Priority:** D- Routine

**Type of Work:** Repair (General)

**Status:** Monitor

**Component:** Element

---

**Deficiency Description**

07/06/2021 - JRT & VCL

- The beam ends along each bent has corrosion with flaking rust and pitting.
- Span 2 (Girder 6) has active corrosion with 100% section loss along the diaphragm connection adjacent to bent 3.

**Remarks**

---



Span 2 (Girder 1) has active corrosion with flaking rust and section loss along the wind-lock connection adjacent to bent 3.



Span 2 (Girder 6) has active corrosion with 100% section loss along the diaphragm connection adjacent to bent 3.



Bent 1 (West Abutment) - (Span 1 / Girder 4) has active corrosion with flaking rust along the bottom flange of the beam end.



Bent 1 (West Abutment) - (Span 1 / Girder 4) has active corrosion with flaking rust along the bottom flange of the beam end.



**Asset #A3162**(Routine)

**I 55-12SB-LM 63.29 over US 61-SEC 3**

**Location: JCT 61& I 55**

**Team Lead:** Jacob Turner, **Inspection Date:** 06/15/2021

#### **Maintenance Needs**

**Date Reported:** 05/07/2013

**Priority:** D- Routine

**Type of Work:** Repair (General)

**Status:** Open

**Component:** Approach

---

#### **Deficiency Description**

07/06/2021 - JRT & VCL (There were no apparent cracking along the approach slabs)

New Approach Slabs have insignificant size and density cracks at this time.

#### **Remarks**

---

**Maintenance Needs**

**Date Reported:** 05/07/2013

**Priority:** C - Important

**Type of Work:** Repair (General)

**Status:** Monitor

**Component:** Element

---

**Deficiency Description**

07/06/2021 JRT & VCL

- The pourable joints have lost its adhesion and is failing causing water and road debris to accumulate on top of the girder ends and bridge seats and bent caps.

**Remarks**

---



Bent 3 pourable joint has sections of adhesion failure, 100% joint failure (Inside lane approximately 2'), and debris impaction (along the gutter lines).



Bent 2 pourable joint has 100% along both of the travel lanes





A3162 05-21-2015 Bent 2 Joint seal



A3162 05-21-2015 Bent 3 Joint seal



### Maintenance Needs

Date Reported: 05/20/2019

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Element

---

### Deficiency Description

07/06/2021 - JRT & VCL

- Bent 1 (West Abutment) - (Girder 6 / Bearing 6) has a anchor bolt that has been sheared off with misalignment of approximately 3.25"

### Remarks

---



Bent 1 (West Abutment) - (Girder 6 / Bearing 6) has a anchor bolt that has been sheared off with misalignment of approximately 3.25"



Bent 1 (West Abutment) - (Girder 6 / Bearing 6) has active corrosion with flaking rust along with one anchor bolt that is sheared of on the North side and one missing nut on the South side. (Bearing 6 also has misalignment of approximately 3.25")



A3162 05-21-2015 Bent 1 Girder 6 Anchor bolt

**Maintenance Needs**

**Date Reported:** 05/20/2019

**Priority:** C - Important

**Type of Work:** Repair (General)

**Status:** Monitor

**Component:** Element

---

**Deficiency Description**

07/06/2021 - JRT & VCL

- The bearings along bent 1 and bent 4 each have heavy corrosion with an accumulation of flaking rust and pack rust

**Remarks**

---



Bent 4 (East Abutment) - (Bearing 4) has active corrosion with measurable section loss.



Bent 1 (West Abutment) - (Girder 1 / Bearing 1) has active corrosion with flaking rust and section loss





Bent 1 (West Abutment) - (Girder 1 / Bearing 1) has active corrosion with flaking rust and section loss



Bent 4 girder 3



**Asset #A3162(Routine)**

**I 55-12SB-LM 63.29 over US 61-SEC 3**

**Location: JCT 61& I 55**

**Team Lead:** Jacob Turner, **Inspection Date:** 06/15/2021

## **Routine Maintenance**

Check Box Maintenance Items

<b>Type of Maintenance</b>	<b>Is recommended?</b>
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	



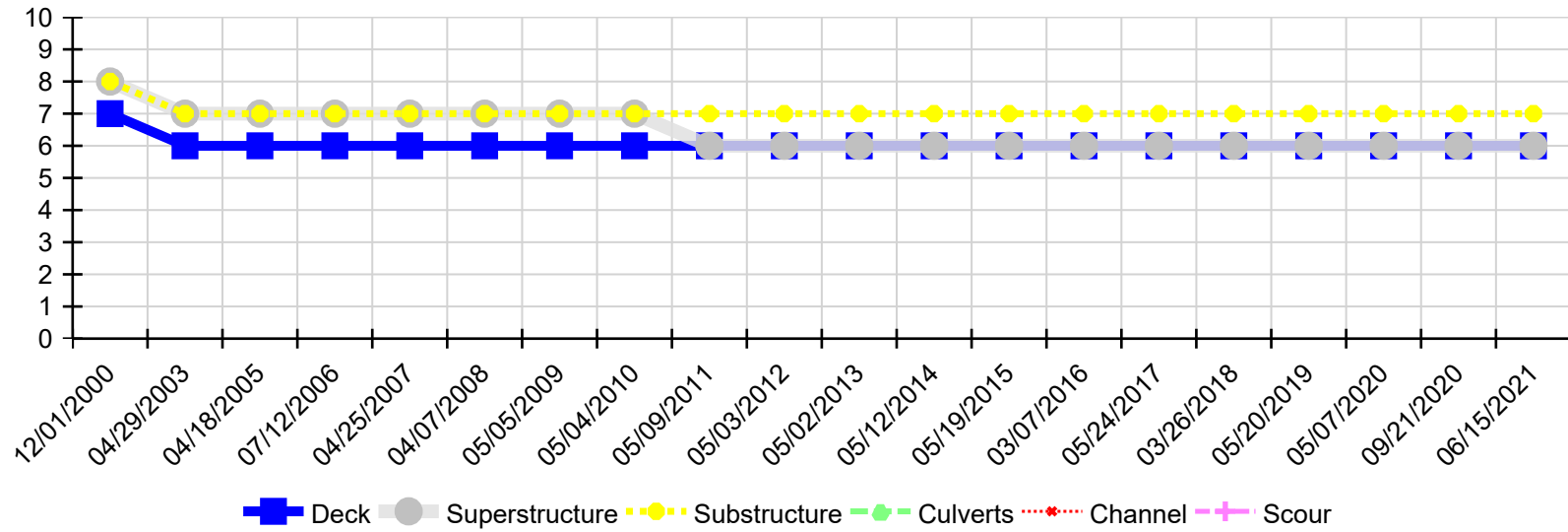
Asset #A3162(Routine)

I 55-12SB-LM 63.29 over US 61-SEC 3

Location: JCT 61& I 55

Team Lead: Jacob Turner, Inspection Date: 06/15/2021

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
06/15/2021	6	6	7	N	N	N
09/21/2020	6	6	7	N	N	N
05/07/2020	6	6	7	N	N	N
05/20/2019	6	6	7	N	N	N
03/26/2018	6	6	7	N	N	N
05/24/2017	6	6	7	N	N	N
03/07/2016	6	6	7	N	N	N
05/19/2015	6	6	7	N	N	N
05/12/2014	6	6	7	N	N	N
05/02/2013	6	6	7	N	N	N
05/03/2012	6	6	7	N	N	N
05/09/2011	6	6	7	N	N	N
05/04/2010	6	7	7	N	N	N
05/05/2009	6	7	7	N	N	N
04/07/2008	6	7	7	N	N	N
04/25/2007	6	7	7	N	N	N
07/12/2006	6	7	7	N	N	N
04/18/2005	6	7	7	N	N	N
04/29/2003	6	7	7	N	N	N
12/01/2000	7	8	8	N	N	N