



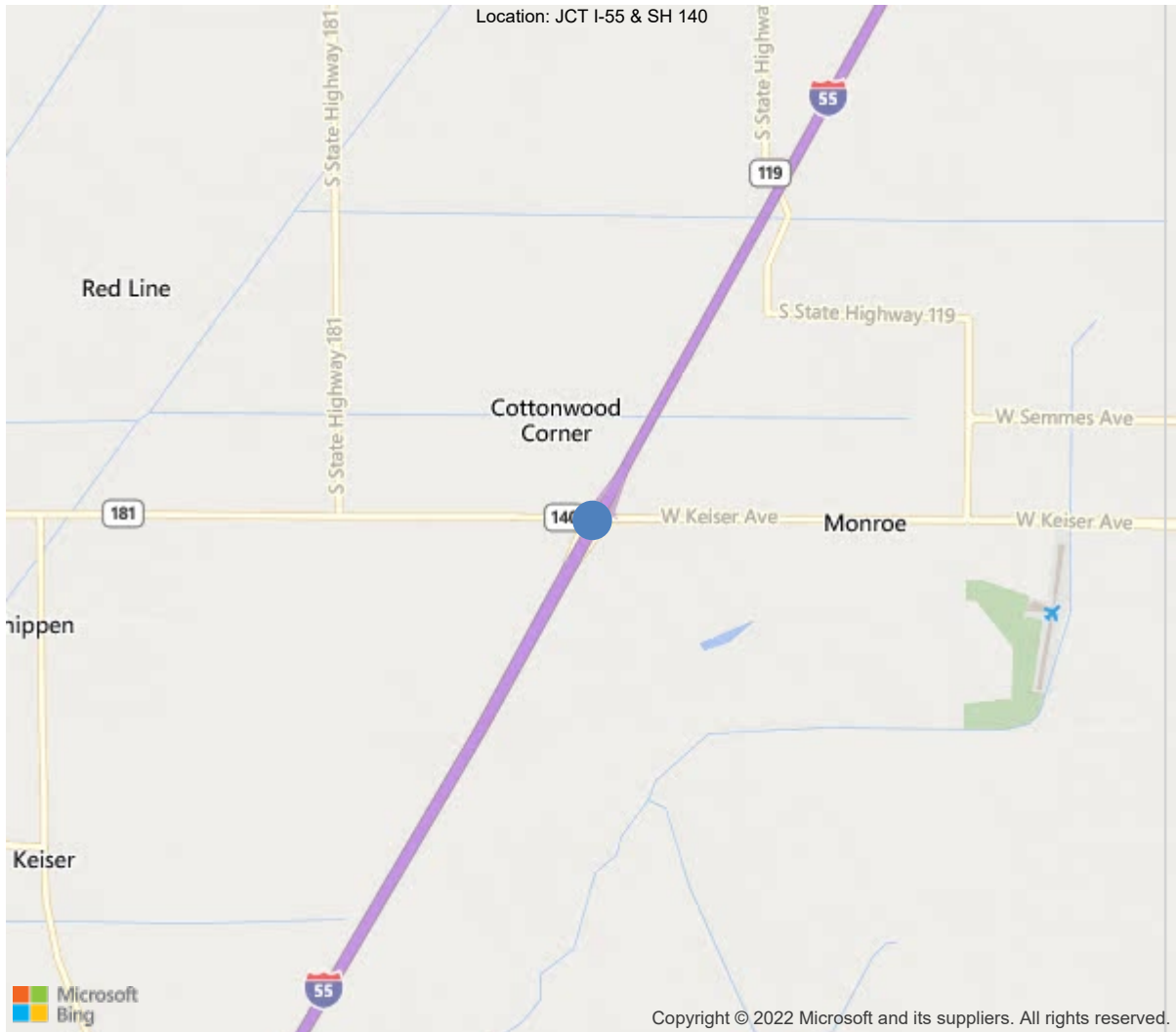
Latitude:35.69802, Longitude:-90.05036

Route:55 Section:12 Log:48.28

Arnold Road ID:47x55x12xB, Arnold Log mile:23.938

District 10, 93 - Mississippi County

Owner: 1 - State Highway Agency



35.69802, -90.05036



Asset #A3289(Routine)

I 55-SB-12- 48.27 over SH 140-SEC 2

Location: JCT I-55 & SH 140

Team Lead: Richard Jones, Inspection Date: 10/27/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	A3289
(5) Inventory Route	1
(2) Highway Agency District	10 - District 10
(3) County Code	93 - Mississippi County
(4) Place Code	52580
(6) Features Intersected	SH 140-SEC 2
(7) Facility Carried	I 55-SB-12- 48.27
(9) Location	JCT I-55 & SH 140
(11) Mile Point	48.28 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000055120
(16) Latitude	35.6980166666667
(17) Longitude	-90.0503611111111
(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	1962
(106) Year Reconstructed	1988
(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	9500
(30) Year of ADT	2018
(109) Truck ADT	46 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	84 ft
(49) Structure Length	187 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)	38.1 ft
(33) Bridge Median	0 - No median
(34) Skew	29 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	15.71 ft
Ref:	
(55) Min Lat Underclear RT	2.5 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	7
(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	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	7
(68) Deck Geometry	7
(69) Clearances, Vertical/Horizontal	3
(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	12000
(115) Year of Future ADT	2033

INSPECTIONS *			
(90) Inspection Date	10/27/2022		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
<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)

Approach slabs have a few minor cracks.

Deck has several unsealed longitudinal and transverse cracks. Deck has areas of minor abrasion.

Overhangs have a few transverse cracks with efflorescence.

Compression seals are ripped and torn with some areas losing adhesion. Some are pulled out or missing.

Bent 3 joint has had some of road iron removed.

Lt approach rail end post at bent 4 is cracked and spalled. Lt approach gutter and curb are cracked and spalled at dop inlet. Metal grate over drain is cracked/broken.

59 - Superstructure (7)

Girders have scattered areas of freckled surface rust. Girders have a few areas of minor pitting, especially on bottom flange.

Bearings have some pack rust and section loss, especially at abutments.

Span 2 bent 2 bearings are rotated back.

Span 2 bent 2 bearing 1 is rotated back. Girder is butted up against girder 1 in span 1.

Span 2 bent 2 bearing 2 is rotated beyond maximum limit. Anchor bolts are sheared off. Girder is butted up against girder 2 in span 1.

Span 2 bent 2 bearings 3 - 6 are near max rotation.

Span 2 bent 3 bearing 1 Rt side cap screw is protruding out of bearing. Bearing is rotated ahead and has a gap between masonry plate and cap on back side.

Span 2 bent 3 bearing 2 is rotated ahead and has a gap between cap and masonry plate on back side.

Span 3 bent 3 bearing 1 is rotated back and has a gap between masonry plate and cap on ahead side.

Span 3 bent 4 bearing 3 has a $\frac{3}{4}$ " gap between masonry and sole plates on 1 side.

Span 3 bent 4 bearing 5 is missing 1 anchor bolt.

60 - Substructure (7)

Bents 1 and 4 abutments have a few vertical cracks. Backwalls have efflorescence and some rebar exposed.

Caps have a few minor cracks. Columns have a few cracks and delaminated areas.

Bent 2 columns 2 and 3 have several spalls with exposed rebar.

Bent 3 cap has cracked and delaminated areas along bottom of cap between columns 2 and 3.

Bent 3 columns 2 and 3 have spalls with exposed rebar.

Bent 4 back wall has 4' of cracks with efflorescence on Lt end.

A-27 - Job Number (10608)

Widened under job R00010

A-46 - Asset Files

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Asset #A3289(Routine)

I 55-SB-12- 48.27 over SH 140-SEC 2

Location: JCT I-55 & SH 140

Team Lead: Richard Jones, Inspection Date: 10/27/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	7908	4604	825	2479	0
1080	Delamination/Spall/Patched Area	SF	12	0	11	1	0
1120	Efflorescence/Rust Staining	SF	24	0	0	24	0
1130	Cracking (RC and Other)	SF	2514	0	60	2454	0
1190	Abrasion/Wear (PSC/RC)	SF	754	0	754	0	0
107	Steel Open Girder/Beam	LF	1108	604	504	0	0
1000	Corrosion	LF	504	0	504	0	0
515	Steel Protective Coating	SF	10348	7244	1552	1552	0
3440	Effectiveness (Steel Protective Coatings)	LF	3104	0	1552	1552	0
205	Reinforced Concrete Column	EA	6	2	0	4	0
1090	Exposed Rebar	EA	4	0	0	4	0
215	Reinforced Concrete Abutment	LF	145	105	38	2	0
1120	Efflorescence/Rust Staining	LF	14	0	14	0	0
1130	Cracking (RC and Other)	LF	26	0	24	2	0
234	Reinforced Concrete Pier Cap	LF	96	67	4	25	0
1080	Delamination/Spall/Patched Area	LF	4	0	4	0	0
1090	Exposed Rebar	LF	7	0	0	7	0
1130	Cracking (RC and Other)	LF	18	0	0	18	0
302	Compression Joint Seal	LF	195	0	0	171	24
2330	Seal Damage	LF	60	0	0	36	24
2340	Seal Cracking	LF	135	0	0	135	0
311	Movable Bearing	EA	18	0	0	17	1
1000	Corrosion	EA	12	0	0	12	0
2220	Alignment	EA	6	0	0	5	1
313	Fixed Bearing	EA	18	0	15	3	0
1000	Corrosion	EA	15	0	15	0	0
2220	Alignment	EA	3	0	0	3	0
321	Reinforced Concrete Approach Slab	SF	1752	1733	1	18	0
1080	Delamination/Spall/Patched Area	SF	1	0	1	0	0
1130	Cracking (RC and Other)	SF	18	0	0	18	0



Asset #A3289(Routine)

I 55-SB-12- 48.27 over SH 140-SEC 2

Location: JCT I-55 & SH 140

Team Lead: Richard Jones, **Inspection Date:** 10/27/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
331	Reinforced Concrete Bridge Railing	LF	370	271	18	81	0
1080	Delamination/Spall/Patched Area	LF	5	0	0	5	0
1120	Efflorescence/Rust Staining	LF	18	0	18	0	0
1130	Cracking (RC and Other)	LF	76	0	0	76	0

**Deck**

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	7908	4604	825	2479	0
1080	Delamination/Spall/Patched Area	SF	12	0	11	1	0
1120	Efflorescence/Rust Staining	SF	24	0	0	24	0
1130	Cracking (RC and Other)	SF	2514	0	60	2454	0
1190	Abrasion/Wear (PSC/RC)	SF	754	0	754	0	0

58 - Deck (6)

Comment: Approach slabs have a few minor cracks.

Deck has several unsealed longitudinal and transverse cracks. Deck has areas of minor abrasion.

Overhangs have a few transverse cracks with efflorescence.

Compression seals are ripped and torn with some areas losing adhesion. Some are pulled out or missing.

Bent 3 joint has had some of road iron removed.

Lt approach rail end post at bent 4 is cracked and spalled. Lt approach gutter and curb are cracked and spalled at dop inlet. Metal grate over drain is cracked/broken.

**Superstructure**

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	1108	604	504	0	0
1000	Corrosion	LF	504	0	504	0	0
515	Steel Protective Coating	SF	10348	7244	1552	1552	0
3440	Effectiveness (Steel Protective Coatings)	LF	3104	0	1552	1552	0

59 - Superstructure (7)

Comment: Girders have scattered areas of freckled surface rust. Girders have a few areas of minor pitting, especially on bottom flange.

Bearings have some pack rust and section loss, especially at abutments.

Span 2 bent 2 bearings are rotated back.

Span 2 bent 2 bearing 1 is rotated back. Girder is butted up against girder 1 in span 1.

Span 2 bent 2 bearing 2 is rotated beyond maximum limit. Anchor bolts are sheared off. Girder is butted up against girder 2 in span 1.

Span 2 bent 2 bearings 3 - 6 are near max rotation.

Span 2 bent 3 bearing 1 Rt side cap screw is protruding out of bearing. Bearing is rotated ahead and has a gap between masonry plate and cap on back side.

Span 2 bent 3 bearing 2 is rotated ahead and has a gap between cap and masonry plate on back side.

Span 3 bent 3 bearing 1 is rotated back and has a gap between masonry plate and cap on ahead side.

Span 3 bent 4 bearing 3 has a $\frac{3}{4}$ " gap between masonry and sole plates on 1 side.

Span 3 bent 4 bearing 5 is missing 1 anchor bolt.

**Substructure**

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	6	2	0	4	0
1090	Exposed Rebar	EA	4	0	0	4	0
215	Reinforced Concrete Abutment	LF	145	105	38	2	0
1120	Efflorescence/Rust Staining	LF	14	0	14	0	0
1130	Cracking (RC and Other)	LF	26	0	24	2	0
234	Reinforced Concrete Pier Cap	LF	96	67	4	25	0
1080	Delamination/Spall/Patched Area	LF	4	0	4	0	0
1090	Exposed Rebar	LF	7	0	0	7	0
1130	Cracking (RC and Other)	LF	18	0	0	18	0

60 - Substructure (7)

Comment: Bents 1 and 4 abutments have a few vertical cracks. Backwalls have efflorescence and some rebar exposed. Caps have a few minor cracks. Columns have a few cracks and delaminated areas.

Bent 2 columns 2 and 3 have several spalls with exposed rebar.

Bent 3 cap has cracked and delaminated areas along bottom of cap between columns 2 and 3.

Bent 3 columns 2 and 3 have spalls with exposed rebar.

Bent 4 back wall has 4' of cracks with efflorescence on Lt end.



Asset #A3289(Routine)

I 55-SB-12- 48.27 over SH 140-SEC 2

Location: JCT I-55 & SH 140

Team Lead: Richard Jones, Inspection Date: 10/27/2022

Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Span 2



Bent 1

Maintenance Needs

Date Reported: 10/22/2012
Priority: C - Important
Type of Work: Replace (General)
Status: Monitor
Component: Element

Deficiency Description

Compression seals are ripped and torn with some areas losing adhesion. Some are pulled out or missing.

Remarks



Bent 2 joint



Bent 3 joint

Date Reported: 10/22/2012
Priority: (Inactive) (Inactive) G - General/ Preventive maintenance
Type of Work: (Inactive) (Inactive) 9 - None
Status: Monitor
Component: Substructure

Deficiency Description

Bent 2 columns 2 and 3 have several spalls with exposed rebar.
Bent 3 columns 2 and 3 have spalls with exposed rebar.

Remarks



Bent 2

Date Reported: 10/22/2012
Priority: (Inactive) (Inactive) G - General/ Preventive maintenance
Type of Work: (Inactive) (Inactive) 1 - Clean
Status: Monitor
Component: Superstructure

Deficiency Description

Girders have scattered areas of freckled surface rust. Girders have a few areas of minor pitting, especially on bottom flange.

Remarks



Span 2





Asset #A3289(Routine)

I 55-SB-12- 48.27 over SH 140-SEC 2

Location: JCT I-55 & SH 140

Team Lead: Richard Jones, **Inspection Date:** 10/27/2022

Date Reported: 10/22/2012

Priority: (Inactive) (Inactive) G - General/ Preventive maintenance

Type of Work: (Inactive) (Inactive) 9 - None

Status: Monitor

Component: Approach

Deficiency Description

Approach slabs have a few minor cracks.

Remarks

Date Reported: 10/22/2012

Priority: C - Important

Type of Work: Repair (General)
Status: Open
Component: Superstructure

Deficiency Description

Bearings have some pack rust and section loss, especially at abutments.
Span 2 bent 2 bearing 1 is rotated back. Girder is butted up against girder 1 in span 1.
Span 2 bent 2 bearing 2 is rotated beyond maximum limit. Anchor bolts are sheared off. Girder is butted up against girder 2 in span 1.
Span 2 bent 2 bearings 3 - 6 are near max rotation.
Span 2 bent 3 bearing 1 Rt side cap screw is protruding out of bearing. Bearing is rotated ahead and has a gap between masonry plate and cap on back side.
Span 2 bent 3 bearing 2 is rotated ahead and has a gap between cap and masonry plate on back side.
Span 3 bent 3 bearing 1 is rotated back and has a gap between masonry plate and cap on ahead side.
Span 3 bent 4 bearing 3 has a $\frac{3}{4}$ " gap between masonry and sole plates on 1 side.
Span 3 bent 4 bearing 5 is missing 1 anchor bolt.

Remarks



Girder 1 over bent 2



Span 2 bent 2 rocker bearings



Span 2 bent 2 rocker bearings 3 - 6



Span 2 bent 2 bearing 2



Span 2 bent 3 bearing 1



Span 2 bent 3 bearing 2



Span 3 bent 4 bearing 3



Span 3 bent 4 bearing 4



Span 1&2 girder 2 bent 2

Date Reported: 10/22/2012
Priority: C - Important
Type of Work: Repair (General)
Status: Monitor
Component: Deck

Deficiency Description

Deck has several unsealed longitudinal and transverse cracks.

Remarks



Span 1 longitudinal cracks

Date Reported: 10/24/2016
Priority: (Inactive) (Inactive) G - General/ Preventive maintenance
Type of Work: (Inactive) (Inactive) 9 - None
Status: Monitor
Component: Substructure

Deficiency Description

Bents 1 and 4 abutments have a few vertical cracks. Backwalls have efflorescence and some rebar exposed. Bent 4 back wall has 4' of cracks with efflorescence on Lt end.

Remarks



Bent 4 Lt

Date Reported: 10/09/2018
Priority: D- Routine
Type of Work: Repair (General)
Status: Monitor
Component: Substructure

Deficiency Description

Bent 3 cap has cracked and delaminated areas along bottom of cap between columns 2 and 3.

Remarks



Bent 3 cap



Bent 3 cap bottom

Date Reported: 10/23/2020
Priority: C - Important
Type of Work: Repair (General)
Status: Open
Component: Approach

Deficiency Description

Lt approach rail end post at bent 4 is cracked and spalled. Lt approach gutter and curb are cracked and spalled at dop inlet. Metal grate over drain is cracked/broken.

Remarks



Bent 4 Lt approach gutter



Bent 4 Lt end post



Asset #A3289(Routine)

I 55-SB-12- 48.27 over SH 140-SEC 2

Location: JCT I-55 & SH 140

Team Lead: Richard Jones, Inspection Date: 10/27/2022

Routine Maintenance

Check Box Maintenance Items

Data Field	Value
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 - Hydo and LMC Advised	

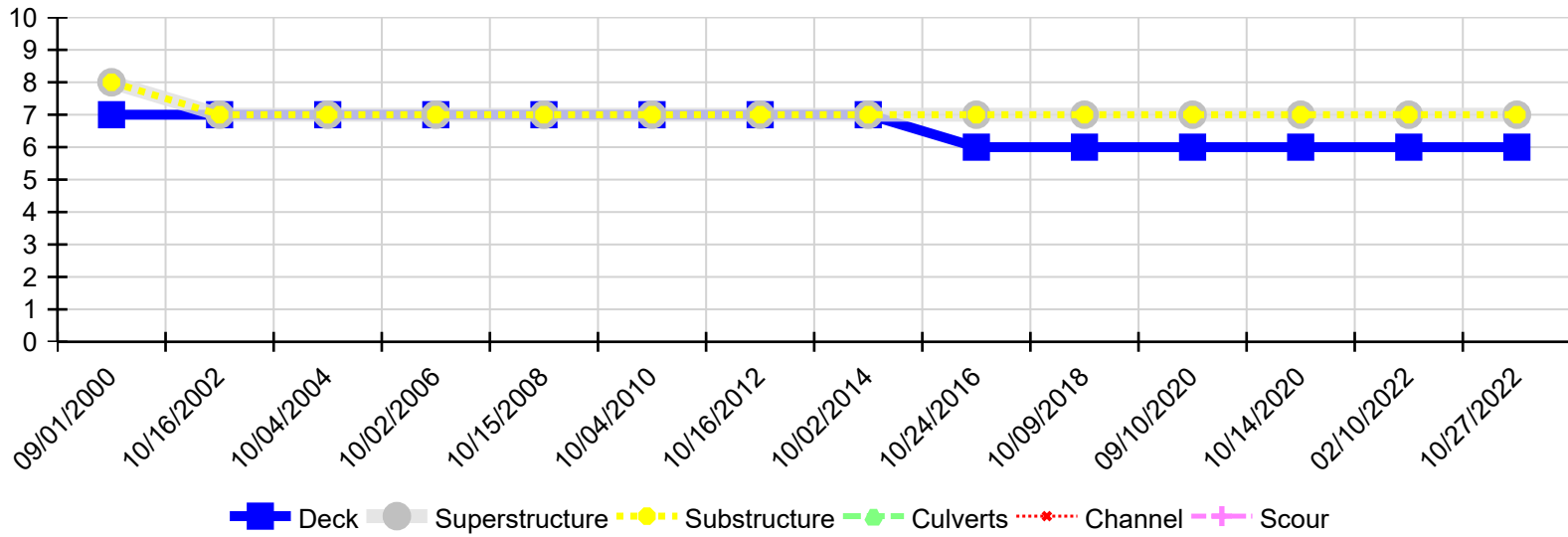


Asset #A3289(Routine)
I 55-SB-12- 48.27 over SH 140-SEC 2

Location: JCT I-55 & SH 140

Team Lead: Richard Jones, Inspection Date: 10/27/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
10/27/2022	6	7	7	N	N	N
02/10/2022	6	7	7	N	N	N
10/14/2020	6	7	7	N	N	N
09/10/2020	6	7	7	N	N	N
10/09/2018	6	7	7	N	N	N
10/24/2016	6	7	7	N	N	N
10/02/2014	7	7	7	N	N	N
10/16/2012	7	7	7	N	N	N
10/04/2010	7	7	7	N	N	N
10/15/2008	7	7	7	N	N	N
10/02/2006	7	7	7	N	N	N
10/04/2004	7	7	7	N	N	N
10/16/2002	7	7	7	N	N	N
09/01/2000	7	8	8	N	N	N