



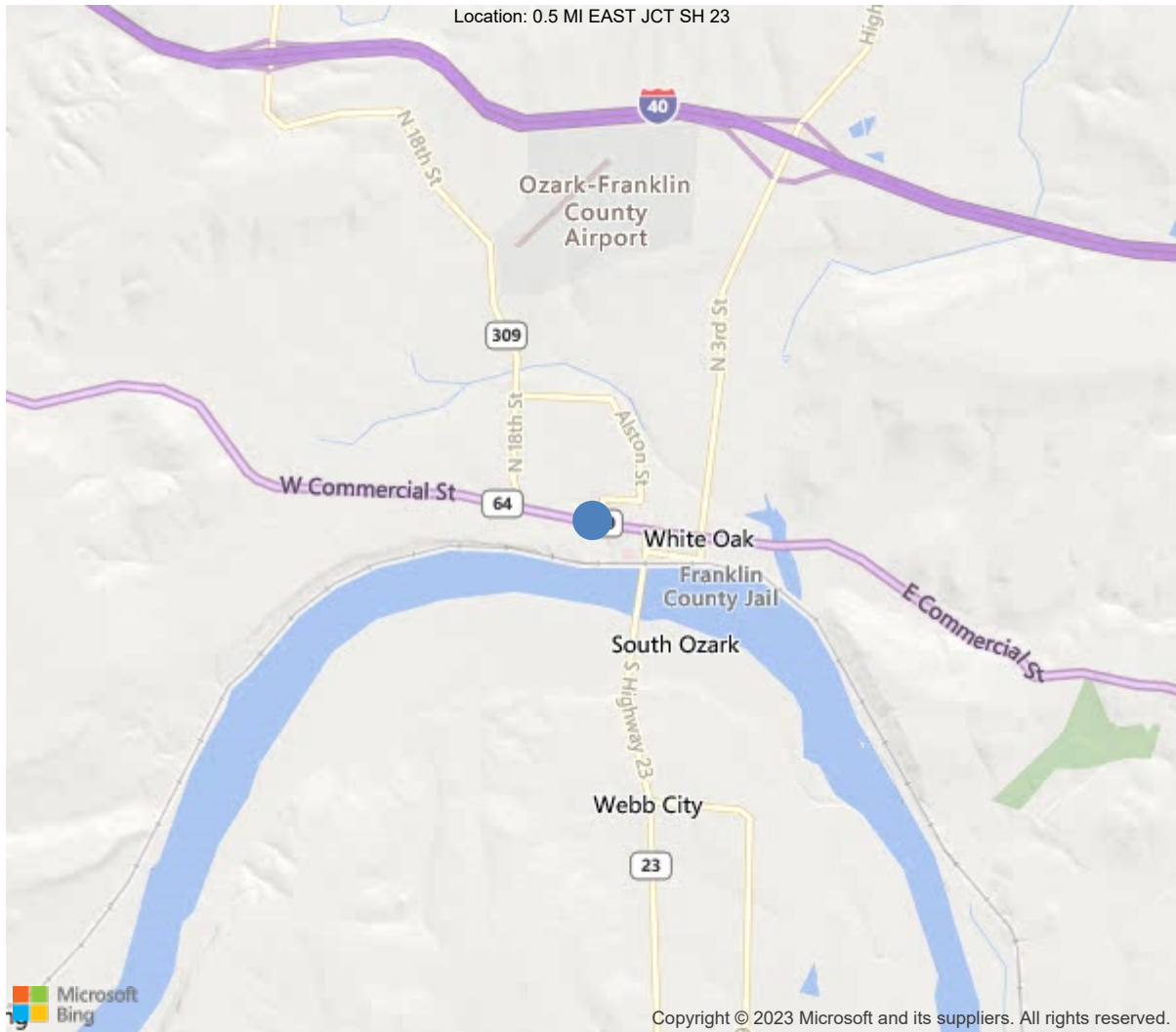
Latitude:35.48802, Longitude:-93.83671

Route:64 Section:03 Log:12.24

Arnold Road ID:24x64x3xA, Arnold Log mile:12.245

District 04, 47 - Franklin County

Owner: 1 - State Highway Agency



35.48802, -93.83671



Asset #A1415(Routine)

US Highway 64 over Town Branch-Franklin Co.

Location: 0.5 MI EAST JCT SH 23

Team Lead: Eric West, Inspection Date: 05/16/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	A1415
(5) Inventory Route	1
(2) Highway Agency District	04 - District 04
(3) County Code	47 - Franklin County
(4) Place Code	52970
(6) Features Intersected	Town Branch-Franklin Co.
(7) Facility Carried	US Highway 64
(9) Location	0.5 MI EAST JCT SH 23
(11) Mile Point	12.24 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000064120
(16) Latitude	35.488017128599
(17) Longitude	-93.8367090274493
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	14
Material	1 - Concrete
Type	4 - Tee beam
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	1
(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	1930
(106) Year Reconstructed	1961
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	10865
(30) Year of ADT	2018
(109) Truck ADT	4 %
(19) Bypass, Detour Length	5 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	30 ft
(50) Curb or Sidewalk Width	
Left	1.5 ft
Right	1.5 ft
(51) Bridge Roadway Width Curb to Curb	40.4 ft
(52) Deck Width Out to Out	43.6 ft
(32) Approach Roadway Width (W/Shoulders)	40 ft
(33) Bridge Median	0 - No median
(34) Skew	45 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	43 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	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	5
(59) Superstructure	6
(60) Substructure	5
(61) Channel & Channel Protection	7
(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	47
(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	6
(68) Deck Geometry	5
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	7
(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	8 - 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	13800
(115) Year of Future ADT	2038

INSPECTIONS *			
(90) Inspection Date	05/16/2022		
(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.			



General Observation

05/16/2022 - EJW & JPW - Routine Inspection conducted on this date. See element notes for documentation.

05/07/2020 - RSM & SPC: Routine and Underwater Type II inspections conducted this date.see element notes for documentation.

05/23/2018 - TJL - Elements were plan verified on this date.

Underwater Type II inspection conducted this date. Wading and clear water observation. No apparent or noteworthy scour problems at this inspection.

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

05/07/2020 - RSM & SPC: Underwater Type II inspection: Wading, probing and visual observation in low water conditions revealed that the substructure is founded on a non erodible solid rock channel. The footings constructed on the solid rock channel have only minor voids due to irregular rock channel with no apparent scour problems at this inspection.

A-46 - Asset Files

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Asset #A1415(Routine)

US Highway 64 over Town Branch-Franklin Co.

Location: 0.5 MI EAST JCT SH 23

Team Lead: Eric West, Inspection Date: 05/16/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	1297	1165	0	132	0
1120	Efflorescence/Rust Staining	SF	132	0	0	132	0
510	Wearing Surfaces	SF	1297	969	90	238	0
3210	Delam/Spall/Patched Area/Pothole	SF	93	0	90	3	0
3220	Crack (Wearing Surface)	SF	235	0	0	235	0
(16) Deck soffit - -The undersurface of the deck has a few transverse cracks with staining and efflorescence. Cracks appear to be perpendicular to the concrete girders and have variable spacing. -Map cracking with efflorescence and leaching is visible from the undersurface of the deck in Bay # 6. (510-16) -Asphalt wearing surface with map cracking typical throughout and potholes forming over the abutments.							
110	Reinforced Concrete Open Girder/Beam	LF	209	190	15	4	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1090	Exposed Rebar	LF	3	0	1	2	0
1120	Efflorescence/Rust Staining	LF	4	0	2	2	0
1130	Cracking (RC and Other)	LF	11	0	11	0	0
(110) -Girder #1 has a 2' long spall with exposed primary longitudinal reinforcing steel over abutment # 1. -Girder #2 has 2 shallow 8" spalls with exposed secondary reinforcing steel in the interior vertical face of the girder adjacent to abutment # 1. Exposed reinforcing steel has no apparent section loss at this inspection. -No visible shear cracks.							
205	Reinforced Concrete Column	EA	4	3	1	0	0
1190	Abrasion/Wear (PSC/RC)	EA	1	0	1	0	0
(205) -There is light abrasion at the base of Column # 2 at abutment # 2.							
215	Reinforced Concrete Abutment	LF	99	33	58	8	0
1080	Delamination/Spall/Patched Area	LF	5	0	5	0	0
1120	Efflorescence/Rust Staining	LF	6	0	1	5	0
1130	Cracking (RC and Other)	LF	47	0	46	1	0
1190	Abrasion/Wear (PSC/RC)	LF	8	0	6	2	0
(215) -Full height vertical cracks at variable spacing are visible in both abutment stem walls. -There are several vertical and random cracks in abutment # 2 stem wall. -The upper portion of abutment # 1 stem wall on the left side has delaminated areas in the grouted area where the steel utility conduit was incorporated in the stem wall. There are vertical and diagonal cracks propagating from the delaminated areas. -There is one 10" delaminated area in the Left side of abutment # 2. -Abutment # 2 stem wall has a horizontal hairline crack located approximately 8' above the footing that extends full width of abutment. -Abutment # 2 Rt stem wall has an apparent settlement crack under girder # 6 that has been grouted over in the past. The majority of the grout is delaminated. The upper portion of the stem wall in the affected area is mapcracked and beginning to spall.							
220	Reinforced Concrete Pile Cap/Footing	LF	99	54	44	1	0

US Highway 64 over Town Branch-Franklin Co.

Location: 0.5 MI EAST JCT SH 23

Team Lead: Eric West, **Inspection Date:** 05/16/2022

[illegible]

US Highway 64 over Town Branch-Franklin Co.

Location: 0.5 MI EAST JCT SH 23

Team Lead: Eric West, **Inspection Date:** 05/16/2022

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	1297	1165	0	132	0
1120	Efflorescence/Rust Staining	SF	132	0	0	132	0
510	Wearing Surfaces	SF	1297	969	90	238	0
3210	Delam/Spall/Patched Area/Pothole	SF	93	0	90	3	0
3220	Crack (Wearing Surface)	SF	235	0	0	235	0
<p>(16) Deck soffit -</p> <p>-The undersurface of the deck has a few transverse cracks with staining and efflorescence. Cracks appear to be perpendicular to the concrete girders and have variable spacing.</p> <p>-Map cracking with efflorescence and leaching is visible from the undersurface of the deck in Bay # 6.</p> <p>(510-16) -Asphalt wearing surface with map cracking typical throughout and potholes forming over the abutments.</p>							

US Highway 64 over Town Branch-Franklin Co.

Location: 0.5 MI EAST JCT SH 23

Team Lead: Eric West, **Inspection Date:** 05/16/2022

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
110	Reinforced Concrete Open Girder/Beam	LF	209	190	15	4	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1090	Exposed Rebar	LF	3	0	1	2	0
1120	Efflorescence/Rust Staining	LF	4	0	2	2	0
1130	Cracking (RC and Other)	LF	11	0	11	0	0
<p>(110) -Girder #1 has a 2' long spall with exposed primary longitudinal reinforcing steel over abutment # 1.</p> <p>-Girder #2 has 2 shallow 8" spalls with exposed secondary reinforcing steel in the interior vertical face of the girder adjacent to abutment # 1. Exposed reinforcing steel has no apparent section loss at this inspection.</p> <p>-No visible shear cracks.</p>							



Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	4	3	1	0	0
1190	Abrasion/Wear (PSC/RC)	EA	1	0	1	0	0
(205) -There is light abrasion at the base of Column # 2 at abutment # 2.							
215	Reinforced Concrete Abutment	LF	99	33	58	8	0
1080	Delamination/Spall/Patched Area	LF	5	0	5	0	0
1120	Efflorescence/Rust Staining	LF	6	0	1	5	0
1130	Cracking (RC and Other)	LF	47	0	46	1	0
1190	Abrasion/Wear (PSC/RC)	LF	8	0	6	2	0
(215) -Full height vertical cracks at variable spacing are visible in both abutment stem walls. -There are several vertical and random cracks in abutment # 2 stem wall. -The upper portion of abutment # 1 stem wall on the left side has delaminated areas in the grouted area where the steel utility conduit was incorporated in the stem wall. There are vertical and diagonal cracks propagating from the delaminated areas. -There is one 10" delaminated area in the Left side of abutment # 2. -Abutment # 2 stem wall has a horizontal hairline crack located approximately 8' above the footing that extends full width of abutment. -Abutment # 2 Rt stem wall has an apparent settlement crack under girder # 6 that has been grouted over in the past. The majority of the grout is delaminated. The upper portion of the stem wall in the affected area is mapcracked and beginning to spall.							
220	Reinforced Concrete Pile Cap/Footing	LF	99	54	44	1	0
1130	Cracking (RC and Other)	LF	2	0	1	1	0
1190	Abrasion/Wear (PSC/RC)	LF	43	0	43	0	0
(220) -The exposed footings at both abutments have areas of abrasion. -The vertical cracks in the abutment stem walls propagate transversely across the footings in some locations. -Footings appear to be cast on a rock channel that is exposed in areas.							

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

Comment: 05/07/2020 - RSM & SPC: Underwater Type II inspection: Wading, probing and visual observation in low water conditions revealed that the substructure is founded on a non erodible solid rock channel. The footings constructed on the solid rock channel have only minor voids due to irregular rock channel with no apparent scour problems at this inspection.



Asset #A1415(Routine)

US Highway 64 over Town Branch-Franklin Co.

Location: 0.5 MI EAST JCT SH 23

Team Lead: Eric West, Inspection Date: 05/16/2022

Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Elevation



Elevation



Roadway



Typical driving surface of deck.



Typical undersurface of the deck.



Bay #6 map cracking with efflorescence buildup.



Transverse cracking with rust stains.



Typical cracking on the wearing surface.



Asphalt wearing surface patched areas.



Wearing surface with potholes forming over the abutments.



Abutment #1 girder #1 spalling with exposed reinforcing steel.



Abutment #1 Girder #7 with exposed reinforcing steel in the side of the girder.



Abutment #1 Lt cracking at the wing wall juncture.



Typical bridge rail.

Maintenance Needs

Date Reported: 04/28/2014
Priority: D- Routine
Type of Work: Repair (General)
Status: Monitor
Component: Element

Deficiency Description

Superstructure -

Girder # 1 adjacent to abutment # 1 has a 2' long spall with exposed primary longitudinal reinforcing steel. Exposed reinforcing steel has corrosion with flaking rust.

Girder # 7 adjacent to abutment # 1 has 2 shallow 8" spalls with exposed secondary reinforcing steel. Exposed reinforcing steel has no apparent section loss at this inspection.

Remarks



Girder # 1 has a 2' long spall with exposed primary longitudinal reinforcing steel over abutment # 1.

There are 2 shallow 8" spalls with exposed secondary reinforcing steel in Girder # 7 adjacent to abutment # 1. Exposed reinforcing steel has no apparent section loss at this inspection.



Girder # 1 has a 2' long spall with exposed primary longitudinal reinforcing steel over abutment # 1.

There are 2 shallow 8" spalls with exposed secondary reinforcing steel in Girder # 7 adjacent to abutment # 1. Exposed reinforcing steel has no apparent section loss at this inspection.

Date Reported: 05/23/2018
Priority: D- Routine
Type of Work: Repair (General)
Status: Monitor
Component: Element

Deficiency Description

Driving surface -
The asphalt patches in the right lane are failing in locations with potholes forming.

Remarks



Asphalt wearing surface patched areas.



The asphalt patches in the right lane are failing in locations with potholes forming.

Date Reported: 05/12/2020
Priority: D- Routine
Type of Work: Repair (General)
Status: Monitor
Component: Element

Deficiency Description

Deck undersurface -
The undersurface of the deck has mapcracking with efflorescence in bay # 6.

Remarks



Mapcracking with efflorescence in undersurface of
deck in bay # 6.

Date Reported: 05/12/2020
Priority: D- Routine
Type of Work: Repair (General)
Status: Monitor
Component: Element

Deficiency Description

Abutment # 2 -

The grouted repairs to the vertical crack in the right side of abutment # 2 stem wall under girder # 6 are delaminated. The upper portion of the stem wall in the same area has mapcracking with delaminated areas.

Remarks



The grouted repairs to the vertical crack in the right side of abutment # 2 stem wall under girder # 6 are delaminated. The upper portion of the stem wall in the same area has mapcracking with delaminated areas.



The grouted repairs to the vertical crack in the right side of abutment # 2 stem wall under girder # 6 are delaminated. The upper portion of the stem wall in the same area has mapcracking with delaminated areas.



Asset #A1415(Routine)

US Highway 64 over Town Branch-Franklin Co.

Location: 0.5 MI EAST JCT SH 23

Team Lead: Eric West, Inspection Date: 05/16/2022

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	



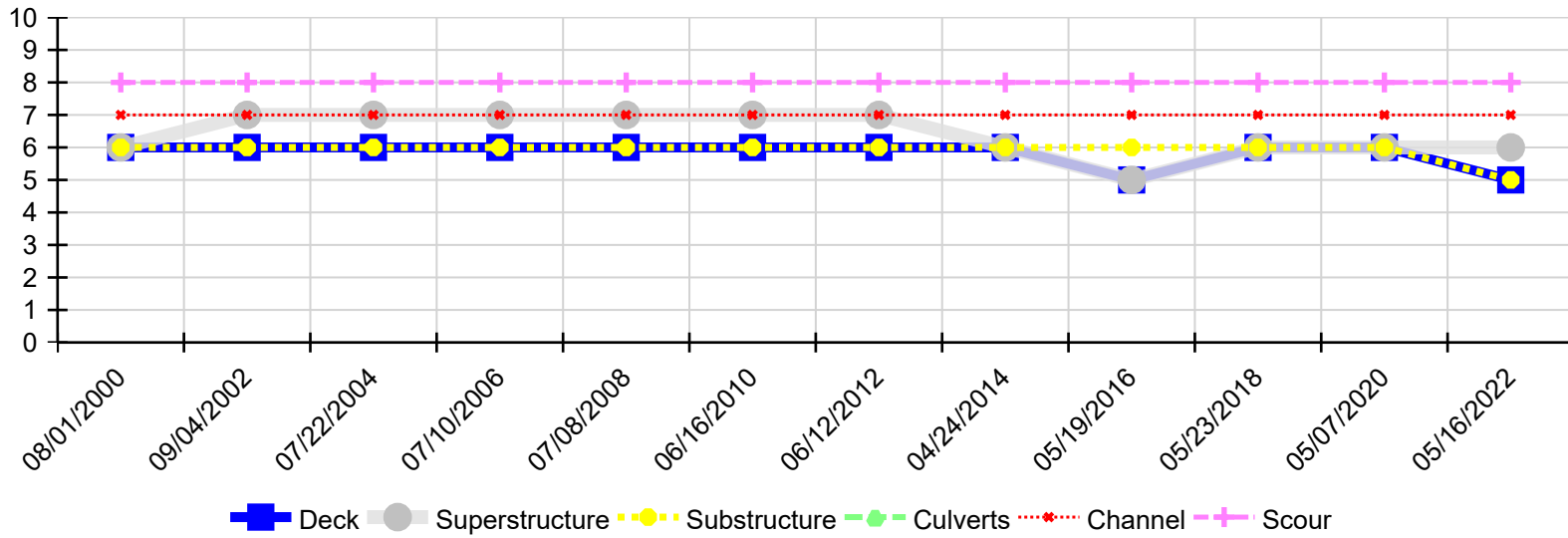
Asset #A1415(Routine)

US Highway 64 over Town Branch-Franklin Co.

Location: 0.5 MI EAST JCT SH 23

Team Lead: Eric West, Inspection Date: 05/16/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
05/16/2022	5	6	5	N	7	8
05/07/2020	6	6	6	N	7	8
05/23/2018	6	6	6	N	7	8
05/19/2016	5	5	6	N	7	8
04/24/2014	6	6	6	N	7	8
06/12/2012	6	7	6	N	7	8
06/16/2010	6	7	6	N	7	8
07/08/2008	6	7	6	N	7	8
07/10/2006	6	7	6	N	7	8
07/22/2004	6	7	6	N	7	8
09/04/2002	6	7	6	N	7	8
08/01/2000	6	6	6	N	7	8