



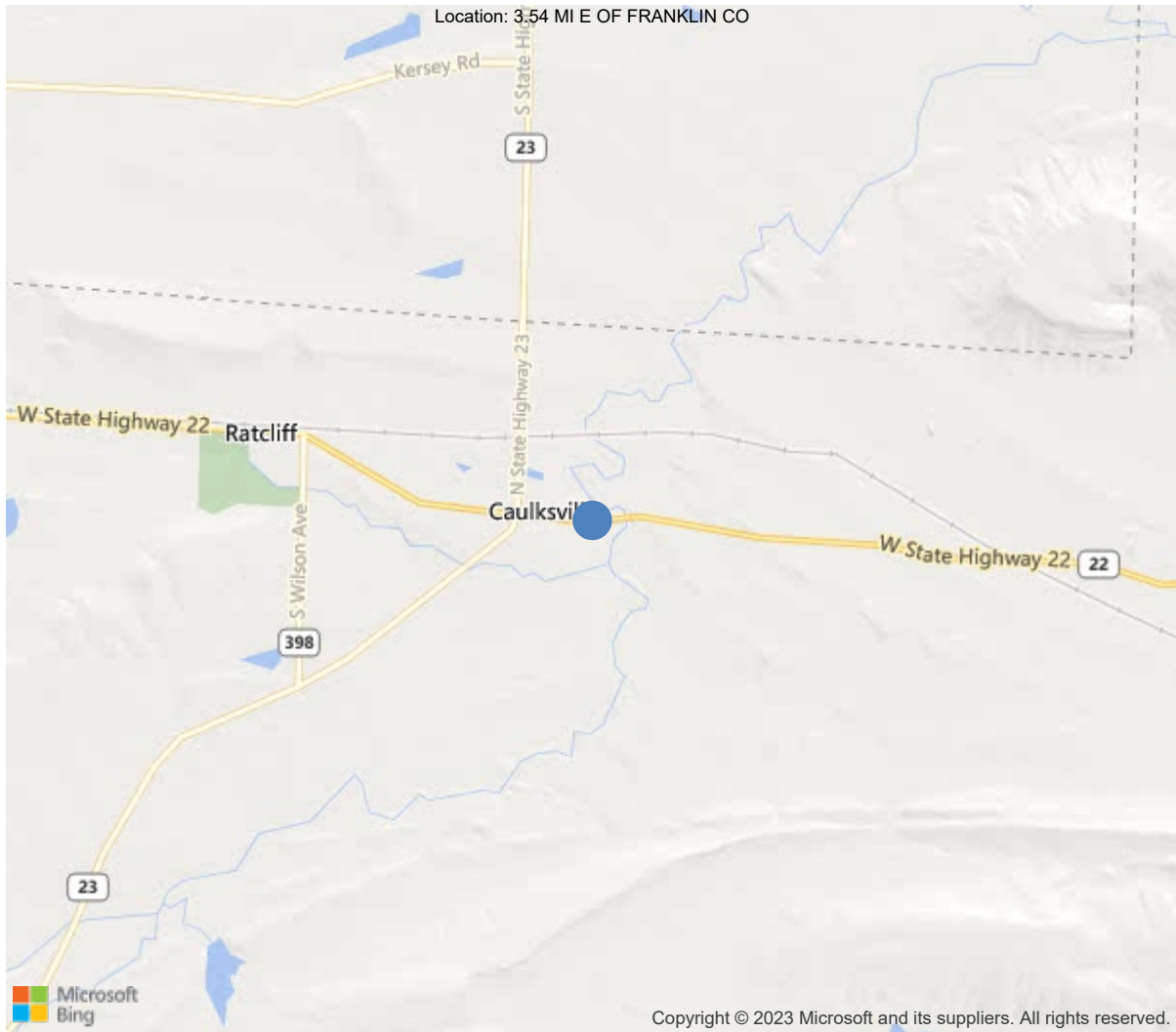
Latitude:35.30138, Longitude:-93.85728

Route:22 Section:03 Log:3.539

Arnold Road ID:42x22x3xA, Arnold Log mile:3.533

District 04, 83 - Logan County

Owner: 1 - State Highway Agency



35.30138, -93.85728



Asset #00355(Routine, Underwater type 2)

SH 22-Logan Co. over Six Mile Creek Relief

Location: 3.54 MI E OF FRANKLIN CO

Team Lead: Bob McEntyre, Inspection Date: 06/20/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	00355
(5) Inventory Route	1
(2) Highway Agency District	04 - District 04
(3) County Code	83 - Logan County
(4) Place Code	0
(6) Features Intersected	Six Mile Creek Relief
(7) Facility Carried	SH 22-Logan Co.
(9) Location	3.54 MI E OF FRANKLIN CO
(11) Mile Point	3.539 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000022030
(16) Latitude	35.30138
(17) Longitude	-93.85728
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	24
Material	2 - Concrete continuous
Type	4 - Tee beam
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	10
(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	1928
(106) Year Reconstructed	1957
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	4800
(30) Year of ADT	2018
(109) Truck ADT	7 %
(19) Bypass, Detour Length	10 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	36 ft
(49) Structure Length	362 ft
(50) Curb or Sidewalk Width	
Left	1.5 ft
Right	1.5 ft
(51) Bridge Roadway Width Curb to Curb	27.9 ft
(52) Deck Width Out to Out	31.2 ft
(32) Approach Roadway Width (W/Shoulders)	40 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	27.9 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	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	2 - Bridge is eligible for the
CONDITION	
(58) Deck	5
(59) Superstructure	4
(60) Substructure	6
(61) Channel & Channel Protection	8
(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	36
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	21
(70) Bridge Posting	2 - 20.0 - 29.9 % below
(41) Structure Open/Posted/Closed	P - Posted for load (may include
APPRAISAL	
(67) Structural Evaluation	
(68) Deck Geometry	4
(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	1 - Inspected feature meets current
(113) Scour Critical Bridges	8 - 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	6309
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	06/20/2023		
(91) Frequency	12		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection	No		
<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>			



Asset #00355(Routine, Underwater type 2)

District: 04, County: 83 - Logan County

Team Lead: Bob McEntyre, Inspection Date: 06/20/2023

General Observation

06/20/2023 - RSM & SPC: Routine and Underwater Type II Inspections conducted this date. See notes tab for documentation. Channel sounded / profiled this inspection. See Microstation sketch linked in Files for sounding measurements.

04/21/2021 - JCJ & TJL - Routine Inspection conducted this date.

05/06/2020 - JCJ & TJL - Routine Inspection conducted this date.

05/23/2019 - EJW & JPW - Underwater Type II Inspection conducted on this date. Visual observation with low clear water conditions indicate no apparent scour problems. Footings have cover and are not exposed.

61 - Channel/Channel Protection (8 - Banks are protected or well vegetated. River control devices such as spur dikes and embankment protection are not required or are in a stable condition.)

06/20/2023 - RSM & SPC: Underwater Type II Inspection conducted this date. Visual observation in dry conditions revealed no apparent scour problems at this inspection. The east embankment at abutment # 2 has minor erosion that appears to be from approach roadway drainage.

A-15 - Late Reason (N/A)

06/20/2023 - RSM - Inspection 2 months late due to heavy workload.

A-46 - Asset Files

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A-55 - Deck Washing Needed (Y)

06/20/2023 - RSM - The shoulders have dirt and debris with vegetation growing.



Asset #00355(Routine, Underwater type 2)

SH 22-Logan Co. over Six Mile Creek Relief

Location: 3.54 MI E OF FRANKLIN CO

Team Lead: Bob McEntyre, Inspection Date: 06/20/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	11295	10817	216	262	0
1080	Delamination/Spall/Patched Area	SF	11	0	11	0	0
1090	Exposed Rebar	SF	97	0	11	86	0
1120	Efflorescence/Rust Staining	SF	312	0	136	176	0
1130	Cracking (RC and Other)	SF	58	0	58	0	0
510	Wearing Surfaces	SF	10100	500	92	9508	0
3210	Delam/Spall/Patched Area/Pothole	SF	115	0	92	23	0
3220	Crack (Wearing Surface)	SF	9485	0	0	9485	0



Asset #00355(Routine, Underwater type 2)

SH 22-Logan Co. over Six Mile Creek Relief

Location: 3.54 MI E OF FRANKLIN CO

Team Lead: Bob McEntyre, Inspection Date: 06/20/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
<p>(16) Span 1:</p> <ul style="list-style-type: none"> - Bays 2, 3 and 4 have a couple of transverse cracking with rust staining and efflorescence - Bay 3 has a couple shallow delaminated areas and an area of exposed reinforcing steel with corrosion adjacent to bent 2. <p>Span 2:</p> <ul style="list-style-type: none"> - Bays 2 & 3 have spalling with exposed reinforcing steel and transverse cracking with efflorescence - Bay 4 has longitudinal cracking (appears to be a construction joint) with heavy efflorescence accumulation full length of the span. <p>Span 3:</p> <ul style="list-style-type: none"> - Bays 2 & 3 have spalling with exposed reinforcing steel and transverse cracking with efflorescence - Bay 4 has longitudinal cracking (appears to be a construction joint) with a heavy accumulation of efflorescence full length of the span <p>Span 4:</p> <ul style="list-style-type: none"> - Bays 2 & 3 have transverse cracking with efflorescence <p>Span 5:</p> <ul style="list-style-type: none"> - Bays 2 & 3 have areas of exposed reinforcing steel with active corrosion and transverse cracking with efflorescence - Bay 4 has a heavy accumulation of efflorescence along the construction joint <p>Span 6:</p> <ul style="list-style-type: none"> - Bays 2 & 3 have multiple locations of exposed reinforcing steel with active corrosion - Bay 4 has a buildup of efflorescence along the construction joint <p>Span 7:</p> <ul style="list-style-type: none"> - Bays 2 & 3 transverse cracking with light efflorescence and 1 exposed reinforcing steel <p>Span 8:</p> <ul style="list-style-type: none"> - Bays 1 & 4 have efflorescence along the construction joint - Bays 2 & 3 have transverse cracking with efflorescence <p>Span 9:</p> <ul style="list-style-type: none"> - Bay 3 has spalling with exposed reinforcing steel adjacent to bent 9 - Bays 2 & 3 has transverse cracking with efflorescence - Bay 4 has efflorescence along the construction joint <p>Span 10:</p> <ul style="list-style-type: none"> - Bays 2 & 3 transverse cracking with efflorescence - Bay 4 efflorescence along the construction joint - Bay 2 has exposed reinforcing steel adjacent to abutment # 2. <p>(510-16) - The asphalt overlay has heavy deterioration with map cracking throughout with potholes forming along centerline and over expansion joint assemblies.</p>							
110	Reinforced Concrete Open Girder/Beam	LF	1800	1309	271	220	0
1080	Delamination/Spall/Patched Area	LF	3	0	0	3	0
1090	Exposed Rebar	LF	6	0	1	5	0
1120	Efflorescence/Rust Staining	LF	212	0	0	212	0
1130	Cracking (RC and Other)	LF	270	0	270	0	0



Asset #00355(Routine, Underwater type 2)

SH 22-Logan Co. over Six Mile Creek Relief

Location: 3.54 MI E OF FRANKLIN CO

Team Lead: Bob McEntyre, Inspection Date: 06/20/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(110) Span 1: - Girders 2, 3 and 4 at abutment 1 have shallow spalling with no exposed reinforcing steel in undersurface of haunched section of girders. Span 2: - Span 2 girder 5 has map cracking with efflorescence Span 3: - Girder 3 adjacent to bent 3 has exposed reinforcing steel from lack of concrete coverage - Span 2 girder 5 has map cracking with efflorescence Span 5: - Girder 5 has map cracking with a heavy buildup of efflorescence - Girder 3 has exposed reinforcing steel with active corrosion adjacent to bent 6 Span 6: - Girder 5 has map cracking with a heavy buildup of efflorescence Span 8: - Span 8, girder 4 undersurface has a narrow width longitudinal crack that begins approximately 4' from bent 8 and extends approximately 5' towards mid-span. The girder adjacent to bent 8 has two locations of spalling with exposed reinforcing steel. - Girder 5 has map cracking with efflorescence - Girder 2 has spalling along the haunches area adjacent to bent 8 Span 9: - Girder 5 has map cracking with efflorescence Span 10: - Girder 5 has map cracking with efflorescence - Girder 4 has two locations of exposed reinforcing steel adjacent to bent 10							
205	Reinforced Concrete Column	EA	65	46	9	10	0
1080	Delamination/Spall/Patched Area	EA	7	0	1	6	0
1090	Exposed Rebar	EA	4	0	0	4	0
1130	Cracking (RC and Other)	EA	1	0	1	0	0
1190	Abrasion/Wear (PSC/RC)	EA	7	0	7	0	0

Team Lead: Bob McEntyre, **Inspection Date:** 06/20/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(205) Bent 2: -Column 5 spalling exterior side Bent 4: (span 4) - Columns 2 & 4 have spalling with exposed reinforcing steel Bent 5: (span 4) - Column 1 spalling along the base. Bent 6: Columns 2, 3 and 4 have light abrasion at base. Bent 7: -Columns 2, 3 and 4 have light abrasion at base of column. Column 2 has light abrasion with a 4" area of concrete deterioration approximately 1" deep at base of column. Bent 8: (span 7) -Columns 2 and 3 have light abrasion at base of columns. -Column 4 has shallow spalls with exposed reinforcing steel. Bent 8: (span 8) -Columns 3 & 4 have spalling with exposed reinforcing steel Bent 9: - Column 4 has spalling along the base - Column 2 has soft deteriorated concrete along the base							
220	Reinforced Concrete Pile Cap/Footing	LF	220	220	0	0	0
(220) -Footings have cover with no apparent scour problems.							
234	Reinforced Concrete Pier Cap	LF	208	202	6	0	0
1090	Exposed Rebar	LF	6	0	6	0	0
(234) -Isolated areas of shallow softball sized concrete spalls with exposed reinforcing steel. Initial section loss to the exposed reinforcing steel.							
305	Assembly Joint without Seal	LF	62	0	0	62	0
2350	Debris Impaction	LF	62	0	0	62	0
(305) -The expansion joint assemblies are covered in asphalt and not visible. -Asphalt driving surface is deteriorating and breaking apart over the expansion joint assemblies at bents # 4 and 8.							
330	Metal Bridge Railing	LF	724	700	24	0	0
7000	Damage	LF	24	0	24	0	0
515	Steel Protective Coating	SF	2608	261	2086	261	0
3420	Peeling/Bubbling/Cracking	LF	2347	0	2086	261	0
(330) - Spans 2 & 3 have areas of collision damage on both sides of the structure - Bridge railing in span 10 on both sides of the structure has collision damage - Failed paint system throughout the structure with surface rust							

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	11295	10817	216	262	0
1080	Delamination/Spall/Patched Area	SF	11	0	11	0	0
1090	Exposed Rebar	SF	97	0	11	86	0
1120	Efflorescence/Rust Staining	SF	312	0	136	176	0
1130	Cracking (RC and Other)	SF	58	0	58	0	0
510	Wearing Surfaces	SF	10100	500	92	9508	0
3210	Delam/Spall/Patched Area/Pothole	SF	115	0	92	23	0
3220	Crack (Wearing Surface)	SF	9485	0	0	9485	0

(16) Span 1:

- Bays 2, 3 and 4 have a couple of transverse cracking with rust staining and efflorescence
- Bay 3 has a couple shallow delaminated areas and an area of exposed reinforcing steel with corrosion adjacent to bent 2.

Span 2:

- Bays 2 & 3 have spalling with exposed reinforcing steel and transverse cracking with efflorescence
- Bay 4 has longitudinal cracking (appears to be a construction joint) with heavy efflorescence accumulation full length of the span.

Span 3:

- Bays 2 & 3 have spalling with exposed reinforcing steel and transverse cracking with efflorescence
- Bay 4 has longitudinal cracking (appears to be a construction joint) with a heavy accumulation of efflorescence full length of the span

Span 4:

- Bays 2 & 3 have transverse cracking with efflorescence

Span 5:

- Bays 2 & 3 have areas of exposed reinforcing steel with active corrosion and transverse cracking with efflorescence
- Bay 4 has a heavy accumulation of efflorescence along the construction joint

Span 6:

- Bays 2 & 3 have multiple locations of exposed reinforcing steel with active corrosion
- Bay 4 has a buildup of efflorescence along the construction joint

Span 7:

- Bays 2 & 3 transverse cracking with light efflorescence and 1 exposed reinforcing steel

Span 8:

- Bays 1 & 4 have efflorescence along the construction joint
- Bays 2 & 3 have transverse cracking with efflorescence

Span 9:

- Bay 3 has spalling with exposed reinforcing steel adjacent to bent 9
- Bay 2 & 3 has transverse cracking with efflorescence
- Bay 4 has efflorescence along the construction joint

Span 10:

- Bays 2 & 3 transverse cracking with efflorescence
- Bay 4 efflorescence along the construction joint
- Bay 2 has exposed reinforcing steel adjacent to abutment # 2.

(510-16) - The asphalt overlay has heavy deterioration with map cracking throughout with potholes forming along centerline and over expansion joint assemblies.

Location: 3.54 MI E OF FRANKLIN CO

Team Lead: Bob McEntyre, **Inspection Date:** 06/20/2023

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
110	Reinforced Concrete Open Girder/Beam	LF	1800	1309	271	220	0
1080	Delamination/Spall/Patched Area	LF	3	0	0	3	0
1090	Exposed Rebar	LF	6	0	1	5	0
1120	Efflorescence/Rust Staining	LF	212	0	0	212	0
1130	Cracking (RC and Other)	LF	270	0	270	0	0
<p>(110) Span 1:</p> <ul style="list-style-type: none"> - Girders 2, 3 and 4 at abutment 1 have shallow spalling with no exposed reinforcing steel in undersurface of haunched section of girders. <p>Span 2:</p> <ul style="list-style-type: none"> - Span 2 girder 5 has map cracking with efflorescence <p>Span 3:</p> <ul style="list-style-type: none"> - Girder 3 adjacent to bent 3 has exposed reinforcing steel from lack of concrete coverage - Span 2 girder 5 has map cracking with efflorescence <p>Span 5:</p> <ul style="list-style-type: none"> - Girder 5 has map cracking with a heavy buildup of efflorescence - Girder 3 has exposed reinforcing steel with active corrosion adjacent to bent 6 <p>Span 6:</p> <ul style="list-style-type: none"> - Girder 5 has map cracking with a heavy buildup of efflorescence <p>Span 8:</p> <ul style="list-style-type: none"> - Span 8, girder 4 undersurface has a narrow width longitudinal crack that begins approximately 4' from bent 8 and extends approximately 5' towards mid-span. The girder adjacent to bent 8 has two locations of spalling with exposed reinforcing steel. - Girder 5 has map cracking with efflorescence - Girder 2 has spalling along the haunches area adjacent to bent 8 <p>Span 9:</p> <ul style="list-style-type: none"> - Girder 5 has map cracking with efflorescence <p>Span 10:</p> <ul style="list-style-type: none"> - Girder 5 has map cracking with efflorescence - Girder 4 has two locations of exposed reinforcing steel adjacent to bent 10 							



Asset #00355(Routine, Underwater type 2)

SH 22-Logan Co. over Six Mile Creek Relief

Location: 3.54 MI E OF FRANKLIN CO

Team Lead: Bob McEntyre, Inspection Date: 06/20/2023

Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	65	46	9	10	0
1080	Delamination/Spall/Patched Area	EA	7	0	1	6	0
1090	Exposed Rebar	EA	4	0	0	4	0
1130	Cracking (RC and Other)	EA	1	0	1	0	0
1190	Abrasion/Wear (PSC/RC)	EA	7	0	7	0	0
(205) Bent 2: -Column 5 spalling exterior side Bent 4: (span 4) - Columns 2 & 4 have spalling with exposed reinforcing steel Bent 5: (span 4) - Column 1 spalling along the base. Bent 6: Columns 2, 3 and 4 have light abrasion at base. Bent 7: -Columns 2, 3 and 4 have light abrasion at base of column. Column 2 has light abrasion with a 4" area of concrete deterioration approximately 1" deep at base of column. Bent 8: (span 7) -Columns 2 and 3 have light abrasion at base of columns. -Column 4 has shallow spalls with exposed reinforcing steel. Bent 8: (span 8) -Columns 3 & 4 have spalling with exposed reinforcing steel Bent 9: - Column 4 has spalling along the base - Column 2 has soft deteriorated concrete along the base							
220	Reinforced Concrete Pile Cap/Footing	LF	220	220	0	0	0
(220) -Footings have cover with no apparent scour problems.							
234	Reinforced Concrete Pier Cap	LF	208	202	6	0	0
1090	Exposed Rebar	LF	6	0	6	0	0
(234) -Isolated areas of shallow softball sized concrete spalls with exposed reinforcing steel. Initial section loss to the exposed reinforcing steel.							

61 - Channel/Channel Protection (8 - Banks are protected or well vegetated. River control devices such as spur dikes and embankment protection are not required or are in a stable condition.)

Comment: 06/20/2023 - RSM & SPC: Underwater Type II Inspection conducted this date. Visual observation in dry conditions revealed no apparent scour problems at this inspection. The east embankment at abutment # 2 has minor erosion that appears to be from approach roadway drainage.



Elevation



Inventory 1 looking East



Abutment 1 right end post-Fractured



Abutment 1 right end post fractured



East approach load posting



West approach load posting



East embankment at abutment 2 has erosion



Dirt, debris with vegetation growing in shoulders



Span 10, right exterior edge of deck-Concrete deteriorating / spalling



Span 9, bay 3 deck undersurface at bent 9-Spalling with exposed reinforcing steel



Span 6, bay 4-Efflorescence along longitudinal construction joint



Span 6 undersurface-Shallow spalling with exposed reinforcing steel



Span 5 deck undersurface-Shallow spalling with exposed reinforcing steel



Span 3, bay 3-Spall with exposed reinforcing steel



Span 2, bays 2 and 3 have shallow spalling with exposed reinforcing steel in deck undersurface



Span 1 undersurface



Span 1, bay 3-Delaminated areas and shallow spall with exposed reinforcing steel



Span 8 right curb



Right curb over bent 5



Span 2 right curb-Concrete deterioration



Span 8, right lane-Failing repair



Mapcracking in wheel paths



Dirt, debris with vegetation growing in shoulders



Driving surface



Span 10, girder 5-Mapcracking with efflorescence



Span 8 right side-Mapcracking with efflorescence in girder 5 and deck undersurface



Span 8, girder 4 undersurface has a narrow width longitudinal crack that begins approximately 4' from bent 8 and extends approximately 5' towards mid-span.



Span 6, girder 5-Mapcracking with efflorescence



Span 2, girder 5-Mapcracking with efflorescence



Span 1, girder 4 at abutment 1-Spalling in haunch portion of girder



Bent 9, column 4-Spalling with exposed reinforcing steel



Bent 8, column 3 of span 8-Spalling with concrete section loss and exposed primary reinforcing steel. Exposed reinforcing steel has measurable section loss.



Bent 7, column 2 has light abrasion with a 4" area of concrete deterioration approximately 1" deep at base of column.



Bent 4, span 4, column 2-Shallow spall with exposed reinforcing steel



Bent 2



Abutment 2



Bent 7



Abutment 1



Expansion joint over bent 8



Driving surface over bent 4



Span 8 right railing at bent 9-Collision damage



Bridge railing typical

Maintenance Needs

Date Reported: 07/14/2011

Priority: C - Important

Status: Monitor

Type of Work: Superstructure Repair

Component: Element

Deficiency Description

Superstructure -

Span 1, girders 2, 3 and 4 at abutment 1 have shallow spalling with no exposed reinforcing steel in undersurface of haunch section of girders.

Span 2, girder 5 has map cracking with efflorescence.

Span 3, girder 3 adjacent to bent 3 has exposed reinforcing steel from lack of concrete coverage.

Span 2, girder 5 has map cracking with efflorescence.

Span 5, girder 5 has map cracking with a heavy buildup of efflorescence, Span 5, girder 3 has exposed reinforcing steel with active corrosion adjacent to bent 6

Span 6, girder 5 has map cracking with a heavy buildup of efflorescence

Span 8, girder 4 adjacent to bent 8 has two locations of spalling with exposed reinforcing steel.

Span 8, girder 5 has map cracking with efflorescence

Span 8, girder 2 has spalling along the haunches area adjacent to bent 8

Span 9, girder 5 has map cracking with efflorescence

Span 10, girder 5 has map cracking with efflorescence

Span 10, girder 4 has two locations of exposed reinforcing steel adjacent to bent 10

Remarks



Span 10, girder 5-Mapcracking with efflorescence.



Span 10, girder 5-Mapcracking with efflorescence.



Span 2, girder 5-Mapcracking with efflorescence.



Span 11 right map cracking with efflorescence and leaching.

Maintenance Needs

Date Reported: 07/14/2011

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Concrete Curbs -

Curbs on both sides of the bridge has multiple areas of soft deteriorated concrete with exposed reinforcing steel.

Remarks



Curbs on both sides of the bridge has multiple areas of soft deteriorated concrete with exposed reinforcing steel.
Span # 5, right curb pictured.



Concrete deterioration in the curbs with exposed reinforcing steel.

Maintenance Needs

Date Reported: 07/14/2011

Priority: D- Routine

Type of Work: Deck Repair

Status: Monitor

Component: Element

Deficiency Description

Deck Undersurface -

Span 1, bays 2 & 3 have transverse cracking with rust staining and efflorescence. Bay 3 has exposed reinforcing steel with corrosion adjacent to bent 2.

Span 2, bays 2 & 3 have spalling with exposed reinforcing steel and transverse cracking with efflorescence. Bay 4 has longitudinal cracking (appears to be a construction joint) with a heavy accumulation of efflorescence full length of the span.

Span 3, bays 2 & 3 have spalling with exposed reinforcing steel and transverse cracking with efflorescence. Bay 4 has longitudinal cracking (appears to be a construction joint) with a heavy accumulation of efflorescence full length of the span.

Span 4, bays 2 & 3 have transverse cracking with efflorescence.

Span 5, bays 2 & 3 have areas of exposed reinforcing steel with active corrosion and transverse cracking with efflorescence. Bay 4 has a heavy accumulation of efflorescence along the construction joint.

Span 6, bays 2 & 3 have multiple locations of exposed reinforcing steel with active corrosion. Bay 4 undersurface has efflorescence accumulation along the construction joint.

Span 7, bays 2 & 3 transverse cracking with light efflorescence and 1 section of exposed reinforcing steel.

Span 8, bays 1 & 4 have efflorescence along the construction joint.

Span 9, bay 3 has spalling with exposed reinforcing steel adjacent to bent 9. Bay 4 has efflorescence along the construction joint.

Span 10, bay 2 has exposed reinforcing steel adjacent to abutment # 2. Bay 4 has efflorescence along the construction joint.

Remarks



Span 6, bay 4-Efflorescence along longitudinal construction joint



Span 5 deck undersurface-Shallow spalling with exposed reinforcing steel



Span 2, bays 2 and 3 have shallow spalling with exposed reinforcing steel in deck undersurface



Span # 10 Right concrete deterioration with exposed reinforcing steel.

Maintenance Needs

Date Reported: 07/14/2011

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Driving Surface -

The asphalt driving surface has heavy deterioration with map cracking throughout the structure with failing repairs and potholes forming in the driving surface. The asphalt wearing surface is breaking apart over the deck joint assemblies at bents # 4 and 8.

Remarks



Span # 8, right lane-Failing repair.



Mapcracking in wheel paths



The asphalt driving surface has heavy deterioration with map cracking throughout the structure with failing repairs and potholes forming in the driving surface. The asphalt wearing surface is breaking apart over the deck joint assemblies at bents # 4 and 8.

Maintenance Needs

Date Reported: 07/14/2011

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Substructure -

Bent 2, column 5 has spalling on exterior side.

Bent 4: (span 4), columns 2 & 4 have spalling with exposed reinforcing steel.

Bent 5: (span 4), column 1 has spalling along the base.

Bent 7, column 2 has abrasion with a 4" area of concrete deterioration approximately 1" deep at base of column.

Bent 8, column 4 has shallow spalls with exposed reinforcing steel.

Bent 8: (span 8), columns 3 & 4 have spalling with exposed reinforcing steel

Bent 9, column 2 has soft deteriorated concrete along the base. column 4 has spalling at the base.

Remarks



Bent 9, column 4-Spalling with exposed reinforcing steel.



Bent 8, column 3 of span 8-Spalling with concrete section loss and exposed primary reinforcing steel. Exposed reinforcing steel has measurable section loss.



Bent 7, column 2 has light abrasion with a 4" area of concrete deterioration approximately 1" deep at base of column.



Bent # 7 Columns # 3 & 4 spalling with exposed reinforcing steel.

Maintenance Needs

Date Reported: 07/14/2011

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Bridge Railing -

Span 10 on both sides of the structure has collision damage.

Spans 2 & 3 have areas of collision damage on both sides of the structure.

Failed paint system throughout the structure with surface rust.

Collision damage on the right side of span # 8. Bridge railing is bent out of plane with damage to two bridge railing post.

The right end post at abutment #1 (West abutment) is fractured at the base and has exposed reinforcing steel.

The Northwest approach guardrail has one post with collision damage that has caused the post to lean out of plumb and break the railing loose from the post.

The bridge railing anchorage is attached to soft deteriorated concrete in the edges of the deck.

Remarks



Span 8 right railing at bent 9-Collision damage



Span # 8 RT collision damage in the bridge rail and concrete deterioration in the curbs with exposed reinforcing steel.



Northwest approach guardrail.



Asset #00355(Routine, Underwater type 2)

SH 22-Logan Co. over Six Mile Creek Relief

Location: 3.54 MI E OF FRANKLIN CO

Team Lead: Bob McEntyre, **Inspection Date:** 06/20/2023

Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	Yes
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	
A-63 Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	



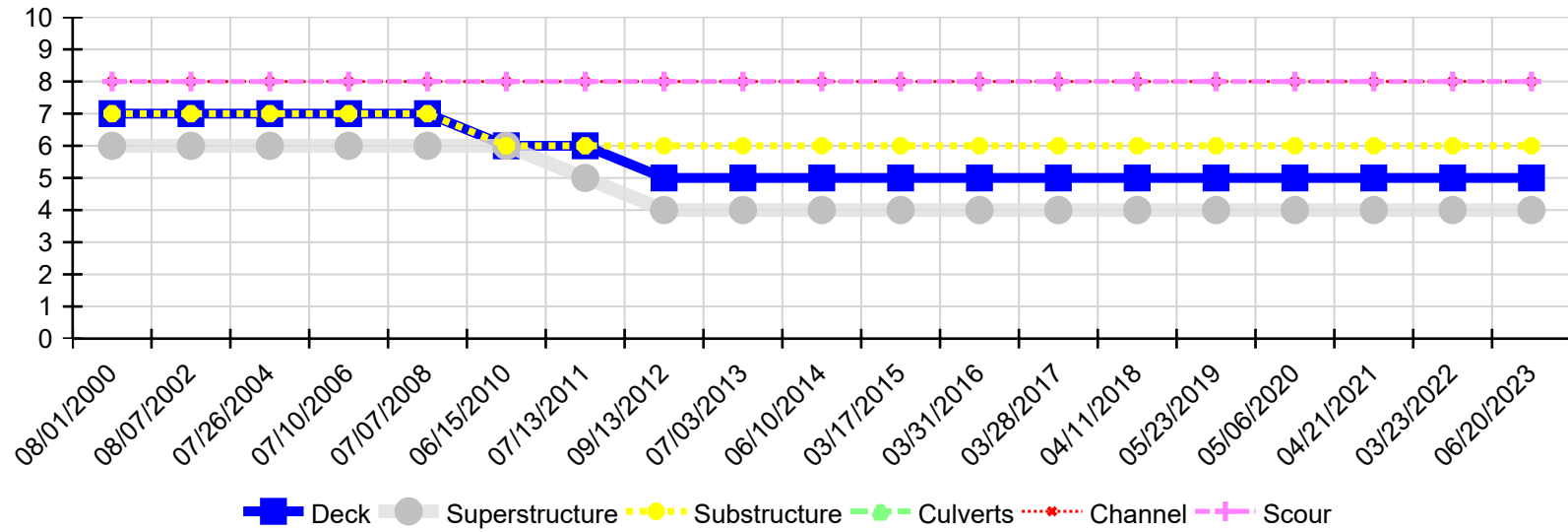
Asset #00355(Routine, Underwater type 2)

SH 22-Logan Co. over Six Mile Creek Relief

Location: 3.54 MI E OF FRANKLIN CO

Team Lead: Bob McEntyre, Inspection Date: 06/20/2023

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
06/20/2023	5	4	6	N	8	8
03/23/2022	5	4	6	N	8	8
04/21/2021	5	4	6	N	8	8
05/06/2020	5	4	6	N	8	8
05/23/2019	5	4	6	N	8	8
04/11/2018	5	4	6	N	8	8
03/28/2017	5	4	6	N	8	8
03/31/2016	5	4	6	N	8	8
03/17/2015	5	4	6	N	8	8
06/10/2014	5	4	6	N	8	8
07/03/2013	5	4	6	N	8	8
09/13/2012	5	4	6	N	8	8
07/13/2011	6	5	6	N	8	8
06/15/2010	6	6	6	N	8	8
07/07/2008	7	6	7	N	8	8
07/10/2006	7	6	7	N	8	8
07/26/2004	7	6	7	N	8	8
08/07/2002	7	6	7	N	8	8
08/01/2000	7	6	7	N	8	8