



Latitude:33.77982, Longitude:-93.23727

Route:24 Section:05 Log:8.67

Arnold Road ID:50x24x5xA, Arnold Log mile:8.685

District 03, 99 - Nevada County

Owner: 1 - State Highway Agency

Bridge Posting Information

Item 41: A - Open, no restriction

Item 70:5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	40		
Code 9 (31 Tons)	50		
Code 5 (40 Tons)	60		

If calculated Capacity is less than the Legal Load Listed, the Bridge Legally Requires Posting Signs to be installed by the Bridge Owner



30"x36" AR



33.77982, -93.23727





Asset #07172(Routine)

SH 24 SEC. 05-8.67 over TERRE ROUGE CREEK

Location: 8.71 MI E JCT 67 PRESCOTT

Team Lead: John King, Inspection Date: 06/13/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	07172
(5) Inventory Route	1
(2) Highway Agency District	03 - District 03
(3) County Code	99 - Nevada County
(4) Place Code	0
(6) Features Intersected	TERRE ROUGE CREEK
(7) Facility Carried	SH 24 SEC. 05-8.67
(9) Location	8.71 MI E JCT 67 PRESCOTT
(11) Mile Point	8.67 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.77982
(17) Longitude	-93.23727
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	42
Material	4 - Steel continuous
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	7
(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	1 - Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	2011
(106) Year Reconstructed	0
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	720
(30) Year of ADT	2018
(109) Truck ADT	24 %
(19) Bypass, Detour Length	25 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	84 ft
(49) Structure Length	474 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	29.9 ft
(52) Deck Width Out to Out	32.9 ft
(32) Approach Roadway Width (W/Shoulders)	34.1 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	30.5 ft
(53) Min Vert Clear Over Bridge Rdwy	99.9 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	7 - Rural Major Collector
(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	5 - Bridge is not eligible for
CONDITION	
(58) Deck	7
(59) Superstructure	8
(60) Substructure	7
(61) Channel & Channel Protection	8
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	A - HL93
(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	
(68) Deck Geometry	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	5
(72) Approach Roadway Alignment	7
(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	5 - Bridge foundations determined t
PROPOSED IMPROVEMENTS	
(75) Type of Work	
(76) Length of Structure Improvement	0 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 0
(97) Year of Improvement Cost Estimate	0
(114) Future ADT	800
(115) Year of Future ADT	2038

INSPECTIONS *			
(90) Inspection Date	06/13/2023		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection	No		
* The inspection date and frequency information in this box contains the current NBI date and frequency information. Please refer to the report header for the date this inspection was conducted.			





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

6/23 bridge deck in good condition. Minor cracking in deck and efflorescence on over hangs.  
Deck pans on bottoms.

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**59 - Superstructure** (8 - VERY GOOD CONDITION - no problems noted.)

6/23 weathering steel beams are in very good condition. Some minor color changes in span 1  
And span 5 has some growth spores above creek channel.

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

6/23 substructure in good condition with very small cracks found in grout around edges

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**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.)

6/23 channel in very good condition vegetation along both sides of bank

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**A-3 - Weathering Steel** (Yes)

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**A-5 - Stay In Place Forms** (Yes)

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**A-54 - Sealable Deck Cracks**

6/23 very small cracking in deck not sealable at this time.

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**A-B.C.11 - B.C.11 Scour Condition Rating (New NBIS)** (8 - Insignificant scour.)

No noticeable scour under bridge.

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SH 24 SEC. 05-8.67 over TERRE ROUGE CREEK

**Location: 8.71 MI E JCT 67 PRESCOTT**

**Team Lead:** John King, **Inspection Date:** 06/13/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	15642	15302	340	0	0
1120	Efflorescence/Rust Staining	SF	280	0	280	0	0
1130	Cracking (RC and Other)	SF	60	0	60	0	0
(12) 6/23 small cracking in top side of bridge deck. Efflorescence on overhangs right and left side of bridge.							
107	Steel Open Girder/Beam	LF	1896	1896	0	0	0
515	Steel Protective Coating	SF	18467	18387	80	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	80	0	80	0	0
(107) Weathering steel beams have some discoloration in span 1 and in span 3 and 5 bottoms side of beams. (515-107) Span 1 beams 2,3&4 has a light color to weathering beams							
215	Reinforced Concrete Abutment	LF	112	105	7	0	0
1120	Efflorescence/Rust Staining	LF	7	0	7	0	0
(215) Concrete abutments are in good condition with riprap placed on both ends.							
226	Prestressed concrete piles	EA	37	36	1	0	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
(226) Bent 4 pile 2 has small delam							
234	Reinforced Concrete Pier Cap	LF	256	256	0	0	0
(234) 6/23 typical photo of bents photo taken of bent 2							
300	Strip Seal Expansion Joint	LF	66	66	0	0	0
(300) 6/23 typical joint photo							
301	Pourable Joint Seal	LF	269	269	0	0	0
310	Elastomeric Bearing	EA	32	32	0	0	0
(310) Photo of elastomeric bearing at beam 2 bent 1							
331	Reinforced Concrete Bridge Railing	LF	952	831	121	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	120	0	120	0	0
(331) 6/23 spall in concrete parapet wall Right side near end of bridge 6/23Cracking with efflorescence in concrete parapet wall right and left sides. 6/23 cracking in parapet wall right and left side.							



Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	15642	15302	340	0	0
1120	Efflorescence/Rust Staining	SF	280	0	280	0	0
1130	Cracking (RC and Other)	SF	60	0	60	0	0
(12) 6/23 small cracking in top side of bridge deck. Efflorescence on overhangs right and left side of bridge.							

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

Comment: 6/23 bridge deck in good condition. Minor cracking in deck and efflorescence on over hangs.  
Deck pans on bottoms.



**Superstructure**

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	1896	1896	0	0	0
515	Steel Protective Coating	SF	18467	18387	80	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	80	0	80	0	0
(107) Weathering steel beams have some discoloration in span 1 and in span 5 bottoms side of beams.							
(515-107) Span 1 beams 2,3&4 has a light color to weathering beams							

**59 - Superstructure** (8 - VERY GOOD CONDITION - no problems noted.)

Comment: 6/23 weathering steel beams are in very good condition. Some minor color changes in span 1 And span 5 has some growth spores above creek channel.

**Substructure**

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	112	105	7	0	0
1120	Efflorescence/Rust Staining	LF	7	0	7	0	0
(215) Concrete abutments are in good condition with riprap placed on both ends.							
226	Prestressed concrete piles	EA	37	36	1	0	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
(226) Bent 4 pile 2 has small delam							
234	Reinforced Concrete Pier Cap	LF	256	256	0	0	0
(234) 6/23 typical photo of bents photo taken of bent 2							

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

Comment: 6/23 substructure in good condition with very small cracks found in grout around edges

**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: 6/23 channel in very good condition vegetation along both sides of bank



6/23 elevation of left side bridge



6/23 channel vegetation



Photo of weathering steel beams over water span 5



Span 1 beams 2,3&4 has a light color to weathering beams





6/23 typical deck pans bottom side deck



Typical efflorescence on over hangs



Photo of elastomeric bearing at beam 2 bent 1



6/23 Substructure photo of bent 2





6/23 abutment photo of abutment 1 with riprap



6/23 abutment photo of abutment 1 with riprap



6/23 photo of weathering steel beams



6/23 typical photo of bents photo taken of bent 2





6/23 protective coating for weathering steel beams



6/23 weathering steel beams.



6/23 typical efflorescence on overhangs right and left side of bridge deck



6/23 typical joint photo





6/23 cracking in concrete deck



6/23 spall in concrete parapet wall Right side near end of bridge.



6/23Cracking with efflorescence in concrete parapet wall right and left sides.



6/23 cracking in parapet wall right and left side.





6/23 cracking in deck photo taken near end of bridge.



6/23 deck photo



6/23 cracking in deck top side



6/23 cracking in the deck mid span



6/23 alignment





## 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	
A-63 Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	

#### A-54 - Sealable Deck Cracks

6/23 very small cracking in deck not sealable at this time.

#### A-55 - Deck Washing Needed

#### A-56 - Joint Cleaning/Flushing Needed



**Asset #07172(Routine)**

**SH 24 SEC. 05-8.67 over TERRE ROUGE CREEK**

**Location: 8.71 MI E JCT 67 PRESCOTT**

**Team Lead: John King, Inspection Date: 06/13/2023**

**A-57 - Beam End and Bearing Painting 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**



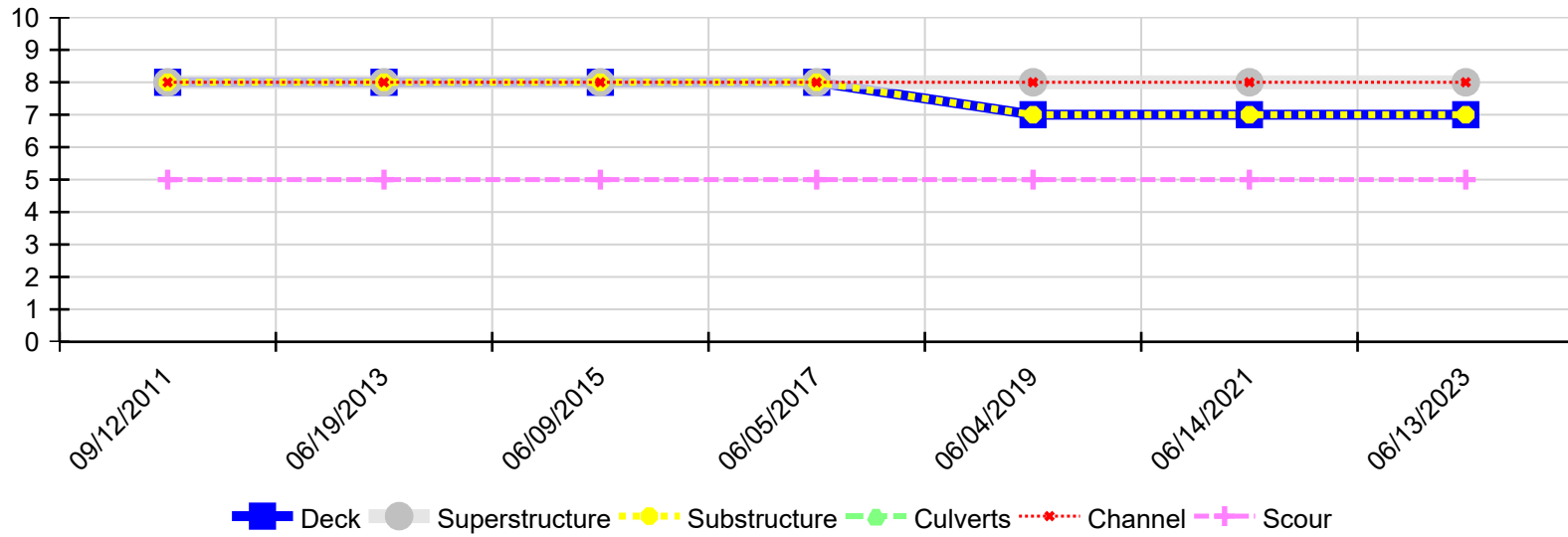
Asset #07172(Routine)

SH 24 SEC. 05-8.67 over TERRE ROUGE CREEK

Location: 8.71 MI E JCT 67 PRESCOTT

Team Lead: John King, Inspection Date: 06/13/2023

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
06/13/2023	7	8	7	N	8	5
06/14/2021	7	8	7	N	8	5
06/04/2019	7	8	7	N	8	5
06/05/2017	8	8	8	N	8	5
06/09/2015	8	8	8	N	8	5
06/19/2013	8	8	8	N	8	5
09/12/2011	8	8	8	N	8	5