



Latitude:33.81046, Longitude:-93.42436

Route:371 Section:04 Log:3

Arnold Road ID:50x371x4xA, Arnold Log mile:2.908

District 03, 99 - Nevada County

Owner: 1 - State Highway Agency

Bridge Posting Information

Item 41: A - Open, no restriction

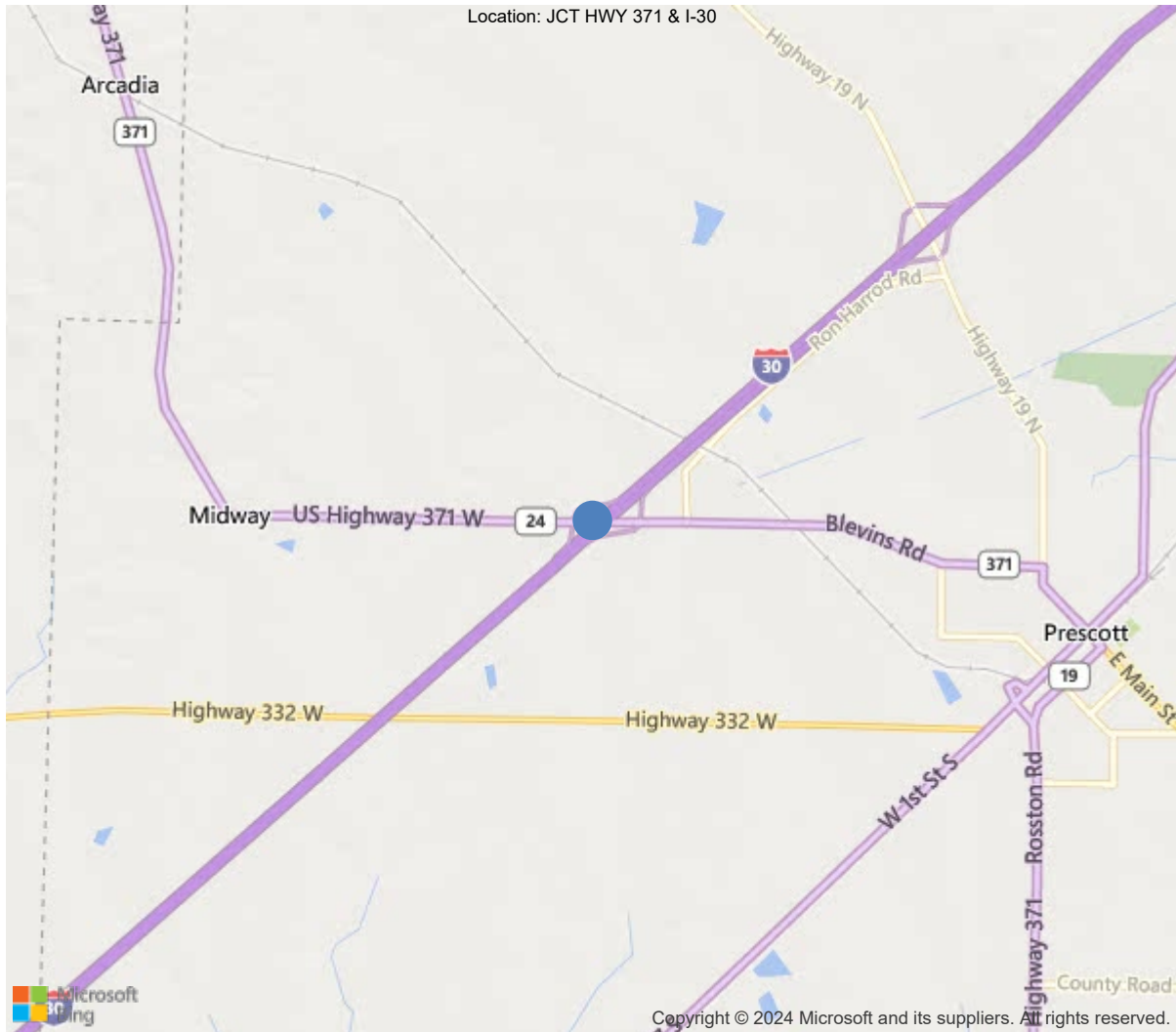
Item 70:5 - Equal to or above legal loads

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



33.81046, -93.42436



Asset #05061(Routine)

US 371 SEC 4 -3.00 over I 30- SEC-13- 43.95

Location: JCT HWY 371 & I-30

Team Lead: John King, Inspection Date: 06/19/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05061
(5) Inventory Route	1
(2) Highway Agency District	03 - District 03
(3) County Code	99 - Nevada County
(4) Place Code	57260
(6) Features Intersected	I 30- SEC-13- 43.95
(7) Facility Carried	US 371 SEC 4 -3.00
(9) Location	JCT HWY 371 & I-30
(11) Mile Point	3 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.810463
(17) Longitude	-93.424362
(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	32
Material	3 - Steel
Type	2 - Stringer/Multi-beam or girder
(45) No. of Spans in Main Unit	3
(46) No. of Approach Spans	2
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	3 - Latex Concrete or similar additive
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1972
(106) Year Reconstructed	0
(42) Type of Service	11
On	1 - Highway
Under	1 - Highway, with or without pedestrian
(28) Lane	
On	2
Under	4
(29) Average Daily Traffic	3200
(30) Year of ADT	2020
(109) Truck ADT	1 %
(19) Bypass, Detour Length	4 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	130 ft
(49) Structure Length	489 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	39 ft
(52) Deck Width Out to Out	42.3 ft
(32) Approach Roadway Width (W/Shoulders)	40 ft
(33) Bridge Median	0 - No median
(34) Skew	42 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	39.7 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	16.25 ft
Ref:	
(55) Min Lat Underclear RT	29.7 ft
Ref:	
(56) Min Lat Underclear LT	29.8 ft
NAVIGATION DATA	
(38) Navigation Control	N - Not applicable, no waterwa
(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 exis
(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 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	7
(59) Superstructure	7
(60) Substructure	6
(61) Channel & Channel Protection	N
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	5 - MS 18 / HS 20
(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	5
(71) Waterway Adequacy	N
(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	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	0
(114) Future ADT	3840
(115) Year of Future ADT	2040

INSPECTIONS *			
(90) Inspection Date	06/19/2023		
(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.			

General Observation

3 poured joints 1 slider plate joint
Walls beginning of bridge left and right side have delams before first joint on bridge
Bent 6 has exposed rebar with a large spall on the right side outside of beam.

27 - Year Built (1972)

see 05061.2021Eval.pdf for explanation of item 27 change

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

6/20/2019..1 1/2" thick hydro polymer overlay...
deck was lowered to 7 good due to light cracking in Hydro. top side and bottom side has
some spalls and efflorescence..

59 - Superstructure (7 - GOOD CONDITION - some minor problems.)

Superstructure rated a 7 due to:
Chalking of paint in various locations on beams
all bearings showing signs of corrosion.

60 - Substructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Substructure rated a 6 due to:
large amounts of cracking, spalling, and old patchwork " in some places failing" on caps and columns

A-54 - Sealable Deck Cracks

2019__ 1 1/2" thick hydro overlay..
6/2023 light cracking in Hydro. and spalls and efflorescence on bottom side deck

A-56 - Joint Cleaning/Flushing Needed

Joints were repaired in 2019 when Hydro was done.

A-57 - Beam End and Bearing Painting Needed (Y)

Bridge was raised in 2001 by state forces.
Bearings are rusting with some section loss. all beams will need to be painted soon.

A-59 - Joint Repair Needed

Joints were repaired when hydro was done in 2019.

A-62 - Hydro and LMC Advised

hydro was done in 2019__ 1 1/2 inch thick.



Asset #05061 (Routine)

US 371 SEC 4 -3.00 over I 30- SEC-13- 43.95

Location: JCT HWY 371 & I-30

Team Lead: John King, Inspection Date: 06/19/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	20677	19192	1485	0	0
1080	Delamination/Spall/Patched Area	SF	100	0	100	0	0
1090	Exposed Rebar	SF	15	0	15	0	0
1120	Efflorescence/Rust Staining	SF	750	0	750	0	0
1130	Cracking (RC and Other)	SF	620	0	620	0	0
(12) 6/20/2019...New hydro polymer overlay on deck, 1 1/2" thick, still has cracks showing underneath deck...							
Map like cracking in various locations on deck Cracking in deck various locations							
Spall in honches various locations, Most honches have spalls some with rebar exposed.							
Deck over hangs have cracking and efflorescence in various locations Beginning of bridge right side deck over hang has rebar exposed							
Span 1 bay 5 has spall Span 1 bay 1 has spalls							
Span 2 efflorescence in various locations Span 2 bays 1 & 2 have spalls							
Span 3 efflorescence bay 5 Span 3 bay 5 old patch Span 3 efflorescence in various locations							
107	Steel Open Girder/Beam	LF	2934	2933	0	1	0
1000	Corrosion	LF	1	0	0	1	0
515	Steel Protective Coating	SF	26112	10112	16000	0	0
3410	Chalking (Steel Protective Coatings)	LF	4000	0	4000	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	12000	0	12000	0	0
(107) Beginning of bridge beam 1 has corrosion with section loss at top of beam end very small area.							
(515-107) Beams chalking and oxide build up in various locations							
205	Reinforced Concrete Column	EA	12	4	7	1	0
1080	Delamination/Spall/Patched Area	EA	4	0	3	1	0
1090	Exposed Rebar	EA	2	0	2	0	0
1130	Cracking (RC and Other)	EA	2	0	2	0	0

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
	(205) Old patch work bent 5 column 1 Old patch work bent 5 column 3 Cracking in bent 5 column 3 Column 1 bent 2 has cracking and delam Delams with wire showing bent 2 column 3 Bent 3 column 1 rebar exposed Bent 3 column 2 rebar exposed						
234	Reinforced Concrete Pier Cap	LF	156	100	50	6	0
1080	Delamination/Spall/Patched Area	LF	50	0	50	0	0
1130	Cracking (RC and Other)	LF	6	0	0	6	0
	(234) Old patch work bent 5 Bent 2 cap old patchwork is failing and popping out Cracking in bent 2 cap Delam bent 4 span 3 side on cap						
301	Pourable Joint Seal	LF	174	174	0	0	0
	(301) Joints were repaired when Hydro was done in 2019.						
303	Assembly Joint with Seal	LF	58	58	0	0	0
311	Movable Bearing	EA	18	0	18	0	0
1000	Corrosion	EA	18	0	18	0	0
	(311) All movable bearings are showing corrosion need painted..						
313	Fixed Bearing	EA	30	0	30	0	0
1000	Corrosion	EA	30	0	30	0	0
	(313) All Fixed bearings are showing signs of rusting . all need painted						
321	Reinforced Concrete Approach Slab	SF	2940	2940	0	0	0
330	Metal Bridge Railing	LF	836	836	0	0	0
331	Reinforced Concrete Bridge Railing	LF	836	685	151	0	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
1130	Cracking (RC and Other)	LF	149	0	149	0	0
	(331) Cracking in concrete bridge railing Delam Rt side end of span 1 Span 4 left side of concrete railing above bent 5 spall						



Asset #05061(Routine)

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Location: JCT HWY 371 & I-30

Team Lead: John King, Inspection Date: 06/19/2023

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	20677	19192	1485	0	0
1080	Delamination/Spall/Patched Area	SF	100	0	100	0	0
1090	Exposed Rebar	SF	15	0	15	0	0
1120	Efflorescence/Rust Staining	SF	750	0	750	0	0
1130	Cracking (RC and Other)	SF	620	0	620	0	0
(12) 6/20/2019...New hydro polymer overlay on deck, 1 1/2" thick, still has cracks showing underneath deck...							
Map like cracking in various locations on deck Cracking in deck various locations							
Spall in honches various locations, Most honches have spalls some with rebar exposed.							
Deck over hangs have cracking and efflorescence in various locations Beginning of bridge right side deck over hang has rebar exposed							
Span 1 bay 5 has spall Span 1 bay 1 has spalls							
Span 2 efflorescence in various locations Span 2 bays 1 & 2 have spalls							
Span 3 efflorescence bay 5 Span 3 bay 5 old patch Span 3 efflorescence in various locations							

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

Comment: 6/20/2019..1 1/2" thick hydro polymer overlay...

deck was lowered to 7 good due to light cracking in Hydro. top side and bottom side has some spalls and efflorescence..



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Team Lead: John King, Inspection Date: 06/19/2023

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	2934	2933	0	1	0
1000	Corrosion	LF	1	0	0	1	0
515	Steel Protective Coating	SF	26112	10112	16000	0	0
3410	Chalking (Steel Protective Coatings)	LF	4000	0	4000	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	12000	0	12000	0	0
(107) Beginning of bridge beam 1 has corrosion with section loss at top of beam end very small area.							
(515-107) Beams chalking and oxide build up in various locations							

59 - Superstructure (7 - GOOD CONDITION - some minor problems.)

Comment: Superstructure rated a 7 due to:

Chalking of paint in various locations on beams

all bearings showing signs of corrosion.



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Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	12	4	7	1	0
1080	Delamination/Spall/Patched Area	EA	4	0	3	1	0
1090	Exposed Rebar	EA	2	0	2	0	0
1130	Cracking (RC and Other)	EA	2	0	2	0	0
(205) Old patch work bent 5 column 1 Old patch work bent 5 column 3 Cracking in bent 5 column 3 Column 1 bent 2 has cracking and delam Delams with wire showing bent 2 column 3 Bent 3 column 1 rebar exposed Bent 3 column 2 rebar exposed							
234	Reinforced Concrete Pier Cap	LF	156	100	50	6	0
1080	Delamination/Spall/Patched Area	LF	50	0	50	0	0
1130	Cracking (RC and Other)	LF	6	0	0	6	0
(234) Old patch work bent 5 Bent 2 cap old patchwork is failing and popping out Cracking in bent 2 cap Delam bent 4 span 3 side on cap							

60 - Substructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Comment: Substructure rated a 6 due to:

large amounts of cracking, spalling, and old patchwork " in some places failing" on caps and columns



Bent 3 cap at top of column 3 has cracking in cap



Elevation



Delam bent 4 span 3 side on cap



Span 3 efflorescence in various locations



Beams chalking and oxide build up in various locations



Span 3 bay 5 old patch



Span 3 efflorescence bay 5



Bent 3 column 1 rebar exposed



Bent 3 column 2 rebar exposed



Span 2 bays 1 & 2 have spalls



Typical substructure



Typical superstructure



Span 2 efflorescence in various locations



Delams with wire showing bent 2 column 3



Cracking in bent 2 cap



Bent 2 cap old patchwork is failing and popping out



Bent 2 cap old patchwork is failing and popping out



Bent 2 cap old patchwork is failing and popping out



Column 1 bent 2 has cracking and delam



Span 1 bay 1 has spalls



Beginning of bridge beam 1 has corrosion with section loss



Most honches have spalls some with rebar exposed



Span 1 bay 5 has spall



Beginning of bridge right side deck over hang has rebar exposed



Deck over hangs have cracking and efflorescence in various locations



Cracking in bent 5 column 3



Old patch work bent 5 column 3



Old patch work bent 5 column 1



Old patch work bent 5



Old patch work bent 5



Bent 6 right side large spall with rebar exposed



Bent 6 rebar exposed



Spall in honches various locations



All movable bearings are showing corrosion



All fixed bearings are beginning to rust



All Fixed bearings are showing signs of rusting



Cracking in deck various locations



Cracking in deck various locations



Map like cracking in various locations on deck



Span 4 left side of concrete railing above bent 5 spall



Delam Rt side end of span 1



Cracking in concrete bridge railing



Walls beginning of bridge left and right side have delams
before first joint on bridge



Walls beginning of bridge left and right side have delams
before first joint on bridge



Typical deck



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	Yes
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

2019___ 1 1/2" thick hydro overlay..

6/2023 light cracking in Hydro. and spalls and efflorescence on bottom side deck

A-55 - Deck Washing Needed

A-56 - Joint Cleaning/Flushing Needed

Joints were repaired in 2019 when Hydro was done.



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A-57 - Beam End and Bearing Painting Needed (Yes)

Bridge was raised in 2001 by state forces.

Bearings are rusting with some section loss. all beams will need to be painted soon.

A-58 - Cap Cleaning/Flushing Needed

A-59 - Joint Repair Needed

Joints were repaired when hydro was done in 2019.

A-60 - Full Beam Painting Needed

A-61 - Polymer Overlay Advised

A-62 - Hydro and LMC Advised

hydro was done in 2019__ 1 1/2 inch thick.

A-63 Missing/Incorrect Log Mile Signage

A-64 - Vegetation Removal Requested



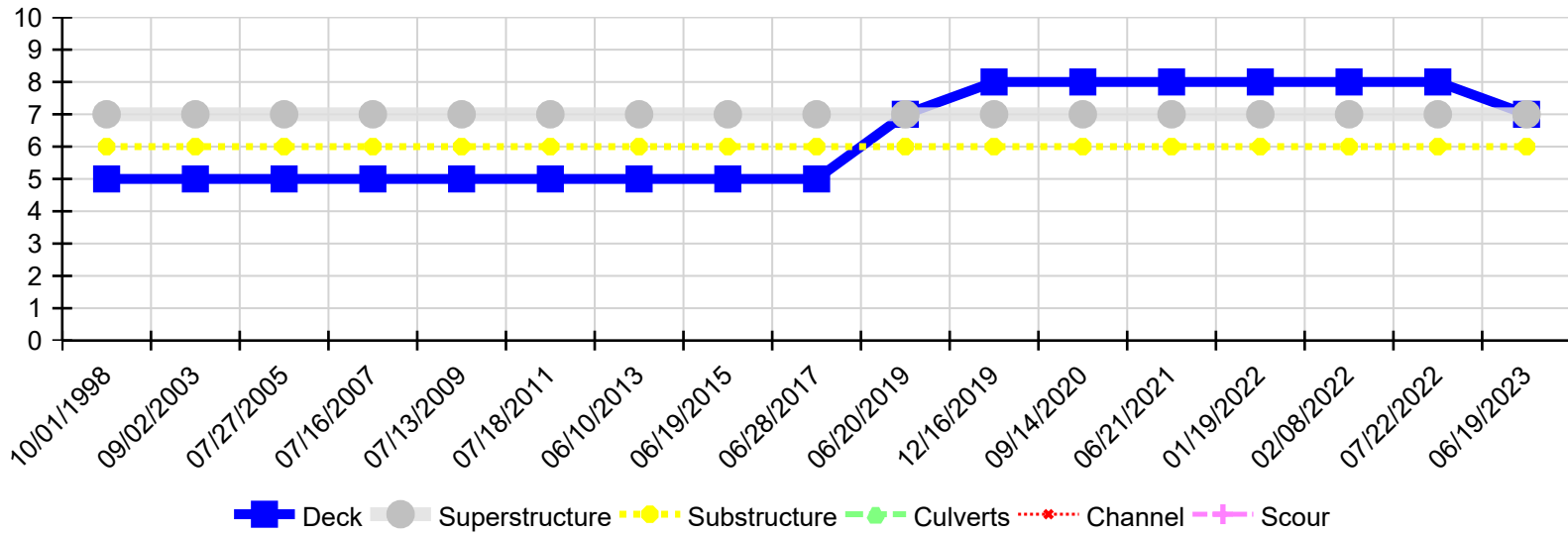
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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
06/19/2023	7	7	6	N	N	N
07/22/2022	8	7	6	N	N	N
02/08/2022	8	7	6	N	N	N
01/19/2022	8	7	6	N	N	N
06/21/2021	8	7	6	N	N	N
09/14/2020	8	7	6	N	N	N
12/16/2019	8	7	6	N	N	N
06/20/2019	7	7	6	N	N	N
06/28/2017	5	7	6	N	N	N
06/19/2015	5	7	6	N	N	N
06/10/2013	5	7	6	N	N	N
07/18/2011	5	7	6	N	N	N
07/13/2009	5	7	6	N	N	N
07/16/2007	5	7	6	N	N	N
07/27/2005	5	7	6	N	N	N
09/02/2003	5	7	6	N	N	N
10/01/1998	5	7	6	N	N	N