

Bridge 05679 Inspection Report



Latitude:33.26909, Longitude:-93.27210

Route:371 Section:07 Log:3.789

Arnold Road ID:14x371x7xA, Arnold Log mile:3.793

District 07, 27 - Columbia County

Owner: 1 - State Highway Agency

Inspection Direction: 3 - E to W

Bridge Posting Information

41 - Structure Open/Posted/Closed: A - Open, no restriction

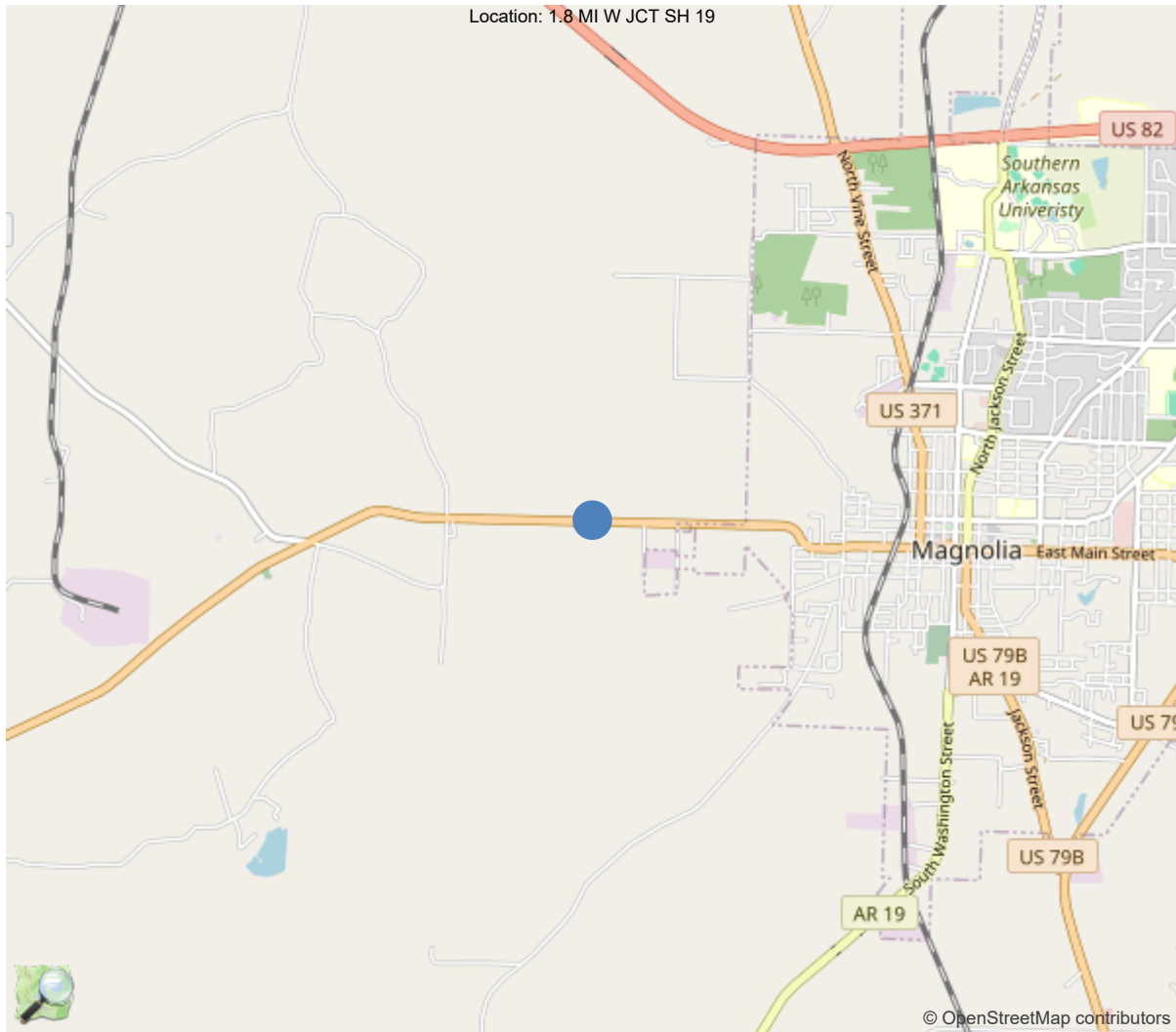
70 - Bridge Posting: 5 - Equal to or above legal loads

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



33.26909, -93.27210

National Bridge Inventory Data Sheet

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05679
(5) Inventory Route	1
(2) Highway Agency District	07 - District 07
(3) County Code	27 - Columbia County
(4) Place Code	0
(6) Features Intersected	BIG CREEK
(7) Facility Carried	US 371 S-7 LM 3.79
(9) Location	1.8 MI W JCT SH 19
(11) Mile Point	3.789 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000371070
(16) Latitude	33.269093
(17) Longitude	-93.272102
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	11
Material	1 - Concrete
Type	1 - Slab
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	17
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	5 - Epoxy Overlay
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1978
(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	3900
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	15 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	510 ft
(50) Curb or Sidewalk Width	
Left	0.6 ft
Right	0.6 ft
(51) Bridge Roadway Width Curb to Curb	44 ft
(52) Deck Width Out to Out	46.7 ft
(32) Approach Roadway Width (W/Shoulders)	46.9 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	44 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	16 - Urban 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	5 - Bridge is not eligible for
CONDITION	
(58) Deck	7
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	6
(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	7
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(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	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	
(114) Future ADT	4445
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			05/13/2024
(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.			

Team Lead: John Parks, Inspection Date: 05/13/2024

Specifications for National Bridge Inventory Sheets

IDENTIFICATION	
B.ID.01 Bridge Number	05679
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	
B.W.01 Year Built	1978

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	27 - Columbia County
B.L.03 Place Code	00000 - N/A
B.L.04 Highway Agency District	07 - District 07
B.L.05 Latitude	33.269093
B.L.06 Longitude	-93.272102
B.L.07 Border Bridge Number	
B.L.08 Border Bridge State or Country Code	
B.L.09 Border Bridge Insp. Resp.	
B.L.10 Border Bridge Designated Lead State	
B.L.11 Bridge Location	1.8 MI W JCT SH 19
B.L.12 Metropolitan Planning Organization	

CLASSIFICATION	
B.CL.01 Owner	S01 - State transportation departme
B.CL.02 Maint. Responsibility	S01 - State transportation departme
B.CL.03 Federal or Tribal Land Access	N - Not Applicable
B.CL.04 Historic Significance	N - Bridge is not eligible for the
B.CL.05 Toll	N - Bridge does not carry a toll ro
B.CL.06 Emergency Evacuation Designation	

ROADSIDE HARDWARE	
B.RH.01A Bridge Railing Type	
B.RH.01B Bridge Railing Year (YY)	
B.RH.01C Bridge Railing Test Level	
B.RH.02A Transition Type	
B.RH.02B Transition Year (YY)	
B.RH.02C Transition Test Level	

BRIDGE GEOMETRY	
B.G.01 NBIS Bridge Length	506
B.G.02 Total Bridge Length	509.8
B.G.03 Max Span Length	29.9
B.G.04 Min Span Length	30
B.G.05 Bridge Width Out-to-Out	46.6
B.G.06 Bridge Width Curb-to-Curb	44
B.G.07 Left Curb or Sidewalk Width	0
B.G.08 Right Curb or Sidewalk Width	0
B.G.09 Approach Roadway Width	46.9

B.G.10 Bridge Median	0 - No median
B.G.11 Skew	0
B.G.12 Curved Bridge	N - Not curved
B.G.13 Max Bridge Height	7
B.G.14 Sidehill Bridge	N - Not a sidehill bridge
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	23752.5

LOADS AND LOAD RATING	
B.LR.01 Design Load	HS20 - HS-20
B.LR.02 Design Method	
B.LR.03 Load Rating Date	
B.LR.04 Load Rating Method	LFR - Load Factor Rating
B.LR.05 Inventory Load Rating Factor	1
B.LR.06 Operating Load Rating Factor	1.67
B.LR.07 Controlling Legal Load Rating Factor	
B.LR.08 Routine Permit Loads	

INSPECTION REQUIREMENTS	
B.IR.01 NSTM Inspection Required	N - NSTM inspection not required.
B.IR.02 Fatigue Details	N - No E/E' details
B.IR.03 UW Inspection Required	N - Underwater inspection not requi
B.IR.04 Complex Feature	N - Bridge does not have complex fe

COMPONENT CONDITION RATINGS	
B.C.01 Deck Condition Rating	6 - SATISFACTORY - Widespread
B.C.02 Superstructure Condition	7 - GOOD - Some minor defects.
B.C.03 Substructure Condition	7 - GOOD - Some minor defects.
B.C.04 Culvert Condition	N - NOT APPLICABLE - Component
B.C.05 Bridge Railing Condition	7 - GOOD - Some minor defects.
B.C.06 Bridge Railing Transitions Condition	8 - VERY GOOD - Some inherent
B.C.07 Bridge Bearings Cond.	N - NOT APPLICABLE - Component
B.C.08 Bridge Joints Condition	8 - VERY GOOD - Some inherent
B.C.09 Channel Condition Rating	8 - VERY GOOD - Inherent defec
B.C.10 Channel Protection Condition	6 - SATISFACTORY - Widespread
B.C.11 Scour Condition Rating	6 - Widespread minor or isolat
B.C.12 Bridge Condition Classification	F - Fair
B.C.13 Lowest Condition Rating	6 - SATISFACTORY - Widespread
B.C.14 NSTM Insp. Condition	N - NOT APPLICABLE - Component
B.C.15 UW Inspection Condition	

APPRAISAL	
B.AP.01 Approach Roadway Alignment	G - Good
B.AP.02 Overtopping Likelihood	2 - Very low - once every 51 to 99
B.AP.03 Scour Vulnerability	AB-T - TEMP - Stable for scour, pos
B.AP.04 Scour Plan of Action	0 - A scour POA is not required.
B.AP.05 Seismic Vulnerability	0 - Seismic evaluation not complete

SPAN SETS			
M1			
B.SP.02 # of Spans	17	B.SP.08 Deck Interaction	IM - Integral or monolithic
B.SP.03 # of Beam Lines	1	B.SP.09 Deck Material and Type	C01 - Reinforced concrete - ca
B.SP.04 Span Material	C01 - Reinforced concrete - ca	B.SP.10 Wearing Surface	P01 - Polymer - epoxy
B.SP.05 Span Continuity	1 - Simple or single span	B.SP.11 Deck Protective System	A03 - Admixture - polymer impr
B.SP.06 Span Type	S01 - Slab - solid	B.SP.12 Deck Reinforcing Protective System	0 - None
B.SP.07 Span Protective System	0 - None	B.SP.13 Deck Stay-In-Place Forms	0 - None

SUBSTRUCTURE SETS			
A1			
B.SB.02 No. of Substructure Units	2	B.SB.05 Substructure Protective System	0 - None
B.SB.03 Substructure Material	C01 - Reinforced concrete - ca	B.SB.06 Foundation Type	PX - Pile - other
B.SB.04 Substructure Type	A02 - Abutment - stub	B.SB.07 Foundation Protective System	0 - None
P1			
B.SB.02 No. of Substructure Units	16	B.SB.05 Substructure Protective System	0 - None
B.SB.03 Substructure Material	C01 - Reinforced concrete - ca	B.SB.06 Foundation Type	PX - Pile - other
B.SB.04 Substructure Type	B03 - Bent - pile	B.SB.07 Foundation Protective System	0 - None

HIGHWAY FEATURES			
H1			
B.F.02 Feature Location	C - Carried on bridge	B.H.09 Annual ADT	3900
B.F.03 Feature Name	US 371 S-7 LM 3.79	B.H.10 Annual ADTT	39
B.H.01 Functional Classification	4 - Minor Arterial	B.H.11 Year of Annual ADT	2018
B.H.02 Urban Code	T-U	B.H.12 Highway Max Usable Vertical Clearance	99.9
B.H.03 NHS Designation	N - Non-NHS	B.H.13 Highway Min Vertical Clearance	99.9
B.H.04 National Highway Freight Network	N - Not on the NHFN	B.H.14 Highway Min Horizontal Clearance, Left	
B.H.05 STRAHNET Designation	N - Not a STRAHNET route	B.H.15 Highway Min Horizontal Clearance, Right	
B.H.06 LRS Route ID	371070	B.H.16 Highway Max Usable Surface Width	45.2
B.H.07 LRS Mile Point	3.789	B.H.17 Bypass Detour Length	15
B.H.08 Lanes On Highway	2	B.H.18 Crossing Bridge Number	

HIGHWAY ROUTES					
Highway Parent	B.RT.01 Route Designation	B.RT.02 Route Number	B.RT.03 Route Direction	B.RT.04 Route Type	B.RT.05 Service Type
H1	R01	371	2-T - TEMP - Two-way traffic - NS or EW	2 - U.S. route	1 - Mainline



Team Lead: John Parks, Inspection Date: 05/13/2024

WATERWAY FEATURES

W1			
B.F.02 Feature Location	B - Below bridge	B.N.03 Movable Bridge Max Navigation Vertical Clearance	
B.F.03 Feature Name	BIG CREEK	B.N.04 Navigation Channel Width	
B.N.01 Navigable Waterway	N - Not navigable waters	B.N.05 Navigation Channel Min Horizontal Clearance	
B.N.02 Navigation Min Vertical Clearance		B.N.06 Substructure Navigation Protection	

POSTING STATUS DATA

B.PS.01 Load Posting Status	B.PS.02 Posting Status Change Date
PO - Permanent - Open	

LOAD EVALUATION AND POSTING

B.EP.01 Legal Load Configuration	B.EP.02 Legal Load Rating Factor	B.EP.03 Posting Type	B.EP.04 Posting Value
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Asset #05679(Routine, Underwater type 2)

US 371 S-7 LM 3.79 over BIG CREEK

Location: 1.8 MI W JCT SH 19

Team Lead: John Parks Inspection Date: 05/13/2024

Inspection Notes

General Observation

This bridge is a slab span with stub abutments and pile bents. A joint rehab and polymer wearing surface has been added to the bridge. Waders are used for access to inspect the underside of all spans and pile bents. Inspection tools used are probing rods, tape measures, levels, and flashlights.

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

Deck is rated 7 due to polymer overlay applied to the topside of the slab that is sealing all cracks.

59 - Superstructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

The superstructure is rate 6 due to the edges of the slab having minor cracks with efflorescence, the underside having minor cracks with efflorescence, few moderate spall with exposed rebar scattered throughout, and the slabs have up to 1/2" creep at midspan.

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

The substructure is rated 6 due to piles having minor abrasion and local scour, and a moderate spall in the cap of Bent 9.

61 - Channel/Channel Protection (6 - Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly.) Channel is rated 6 due to minor migration towards Bent 4 and the banks are slumping.

B.C.05 Bridge Railing Condition Rating (7 - GOOD - Some minor defects.)

Bridge rail is rated 7 due to minor spalls scattered throughout.

B.C.06 Bridge Railing Transitions Condition Rating (8 - VERY GOOD - Some inherent defects.)

Bridge rail transition is rated 8 due to being in good condition.

B.C.08 Bridge Joints Condition Rating (8 - VERY GOOD - Some inherent defects.)

Bridge joints rated 8 due to no defects observed.

B.C.10 Channel Protection Condition Rating (6 - SATISFACTORY - Widespread minor or isolated moderate defects.)

Channel protection is rated 6 due to riprap being in place at the abutments with erosion below the abutments.

A-B.C.11 - B.C.11 Scour Condition Rating (New NBIS) (6 - Widespread minor or isolated moderate scour.)

Scour condition is rated 6 due to the piles have minor local scour and erosion below the abutments.

National Bridge Element Quantities and Notes

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	23802	23418	350	34	0
1080	Delamination/Spall/Patched Area	SF	23	0	4	19	0
1090	Exposed Rebar	SF	15	0	0	15	0
1120	Efflorescence/Rust Staining	SF	190	0	190	0	0
1130	Cracking (RC and Other)	SF	156	0	156	0	0
510	Wearing Surfaces	SF	22440	22440	0	0	0
(38) Span 1: 26SF cracking CS2, 4SF efflorescence CS2. Top surface, no defects observed. Under surface, Longitudinal crack 4' right of centerline. Left and right edge 1' from back and ahead ends, vertical cracks with efflorescence.							
Span 2: 26SF cracking CS2, 4SF efflorescence CS2. Top surface, no defects observed. Under surface, Longitudinal crack 4' right of centerline. Left and right edge 1' from back and ahead ends, vertical cracks with efflorescence.							
Span 3: 26SF cracking CS2, 4SF efflorescence CS2. Top surface, no defects observed. Under surface, Longitudinal crack 4' right of centerline. Left and right edge 1' from back and ahead ends, vertical cracks with efflorescence.							
Span 4: 26SF cracking CS2, 4SF efflorescence CS2. Top surface, no defects observed. Under surface, Longitudinal crack 4' right of centerline. Left and right edge 1' from back and ahead ends, vertical cracks with efflorescence.							
Span 5: 26SF cracking CS2, 4SF efflorescence CS2. Top surface, no defects observed. Under surface, Longitudinal crack 4' right of centerline. Left and right edge 1' from back and ahead ends, vertical cracks with efflorescence.							
Span 6: 26SF cracking CS2, 4SF efflorescence CS2. Top surface, no defects observed. Under surface, Longitudinal crack at centerline. Left and right edge 1' from back and ahead ends, vertical cracks with efflorescence.							
Span 7: 30SF efflorescence CS2. Top surface, no defects observed. Under surface, Longitudinal crack with efflorescence. 1' right of centerline. Left and right edge 1' from back and ahead ends, vertical cracks with efflorescence.							
Span 8: 1SF spall CS3, 4SF efflorescence CS2. Top surface, no defects observed. Under surface, left side 4' back of Bent 9, 12" x 2" deep spall with exposed rebar. Left and right edge 1' from back and ahead ends, vertical cracks with efflorescence.							
Span 9: 12SF efflorescence CS2. Top surface, no defects observed.							



Asset #05679(Routine, Underwater type 2)

US 371 S-7 LM 3.79 over BIG CREEK

Location: 1.8 MI W JCT SH 19

Team Lead: John Parks Inspection Date: 05/13/2024

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
	<p>Under surface, ahead end, 3' left of centerline is a longitudinal crack with efflorescence.</p> <p>Left and right edge 1' from back and ahead ends, vertical cracks with efflorescence.</p> <p>Span 10: 1SF spall CS3, 20SF efflorescence CS2.</p> <p>Top surface, no defects observed.</p> <p>Under surface, in the center, 10" x 8" x 2" deep spall with exposed rebar.</p> <p>Under surface, 4' left of centerline is a longitudinal crack with efflorescence.</p> <p>Left and right edge 1' from back and ahead ends, vertical cracks with efflorescence.</p> <p>Span 11: 1SF spall CS3, 6SF exposed rebar CS3, 30SF efflorescence CS2.</p> <p>Top surface, no defects observed.</p> <p>Under surface, left side 6' back of Bent 12, 12"x 3" deep spall with exposed rebar.</p> <p>Under surface, right side 6' back of Bent 12, 30" x 20" x 3" spall with exposed rebar, rebar has minor section loss.</p> <p>Under surface, 3' right of centerline, longitudinal crack with efflorescence.</p> <p>Under surface, at center line and 4' right of center line, longitudinal crack with efflorescence.</p> <p>Left and right edge 1' from back and ahead ends, vertical cracks with efflorescence.</p> <p>Span 12: 2SF spall CS3, 5SF exposed rebar CS3, 12SF efflorescence CS2.</p> <p>Top surface, no defects observed.</p> <p>Under surface, left side center, 12" x 2" spall with exposed rebar.</p> <p>Under surface, 2' ahead of center, 12" x 3" deep spall with exposed rebar.</p> <p>Under surface, right side 3' ahead of Bent 12, 30" x 14" x 3" deep spall with exposed rebar, rebar has minor section loss.</p> <p>Under surface, center, 14" x 12" x 3" deep spall with exposed rebar, rebar has minor section loss.</p> <p>Under surface, ahead end 3' left of center, longitudinal crack with efflorescence.</p> <p>Left and right edge 1' from back and ahead ends, vertical cracks with efflorescence.</p> <p>Span 13: 2SF spall CS2, 4SF exposed rebar CS3, 30SF efflorescence CS2.</p> <p>Top surface, no defects observed.</p> <p>Under surface, right side 2' ahead of Bent 13, 14" x 12" x 3" deep spall with exposed rebar, rebar has minor section loss.</p> <p>Under surface, right side 5' ahead of Bent 13, 24" x 12" x 3" deep spall with exposed rebar, rebar has minor section loss.</p> <p>Under surface, right side 3' ahead of center, 24" x 12" delam.</p> <p>Under surface, 4' right of center, longitudinal crack with efflorescence.</p> <p>Left and right edge 1' from back and ahead ends, vertical cracks with efflorescence.</p> <p>Span 14: 1SF spall CS2, 3SF spall CS3, 4SF efflorescence CS2.</p> <p>Top surface, no defects observed.</p> <p>Under surface, right side ahead of Bent 14, 20" x 12" x 3" deep spall with exposed rebar.</p> <p>Under surface, right side 3' back of Bent 15, 12" x 10" x 3" deep spall with exposed rebar.</p> <p>Under surface, right side back of Bent 15, 12" delam.</p> <p>Left and right edge 1' from back and ahead ends, vertical cracks with efflorescence.</p> <p>Span 15: 11SF spall CS3, 14SF efflorescence CS2.</p> <p>Top surface, no defects observed.</p> <p>Under surface, scattered along the right side, 12" x 3" deep spalls.</p> <p>Under surface, ahead end 2' left of center, longitudinal crack with efflorescence.</p> <p>Left and right edge 1' from back and ahead ends, vertical cracks with efflorescence.</p> <p>Span 16: 1SF spall CS3, 6SF efflorescence CS2.</p> <p>Top surface, no defects observed.</p> <p>Under surface, ahead left corner had a crack with efflorescence.</p> <p>Under surface, left side 5' back of Bent 17, 12" x 3" deep spall.</p> <p>Left and right edge 1' from back and ahead ends, vertical cracks with efflorescence.</p> <p>Span 17: 1SF spall CS2, 4SF efflorescence CS2.</p> <p>Top surface, no defects observed.</p> <p>Under surface, right side center, 12" delam.</p> <p>Left and right edge 1' from back and ahead ends, vertical cracks with efflorescence.</p>						

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(510-38) Polymer overlay with no defects observed.							
215	Reinforced Concrete Abutment	LF	107.2	95.2	12	0	0
1120	Efflorescence/Rust Staining	LF	1	0	1	0	0
6000	Scour	LF	11	0	11	0	0
(215) Bent 1: 3LF scour CS2. 12' right of left edge, 3' of embankment has been eroded 8" below the stub. Bent 18: 8LF scour CS2, 1LF efflorescence CS2. Right end, 8' of embankment has been eroded 10" below the stub. 3' from the left and right end, minor vertical cracks with efflorescence.							
227	Reinforced Concrete Pile	EA	112	44	68	0	0
1190	Abrasion/Wear (PSC/RC)	EA	42	0	42	0	0
6000	Scour	EA	26	0	26	0	0
(227) Bent 2: Pile 1 No defects observed Pile 2 No defects observed Pile 3 No defects observed Pile 4 No defects observed Pile 5 No defects observed Pile 6 No defects observed Pile 7 No defects observed Bent 3: Pile 1 No defects observed Pile 2 No defects observed Pile 3 No defects observed Pile 4 No defects observed Pile 5 No defects observed Pile 6 No defects observed Pile 7 No defects observed Bent 4: Pile 1 No defects observed Pile 2 No defects observed Pile 3 No defects observed Pile 4 No defects observed Pile 5 No defects observed Pile 6 No defects observed Pile 7 No defects observed Bent 5: 7Each scour CS2 Pile 1 minor local scour. Pile 2 minor local scour. Pile 3 minor local scour. Pile 4 minor local scour. Pile 5 minor local scour. Pile 6 minor local scour. Pile 7 minor local scour. Bent 6: 7Each scour CS2 Pile 1 minor local scour.							



Asset #05679(Routine, Underwater type 2)

US 371 S-7 LM 3.79 over BIG CREEK

Location: 1.8 MI W JCT SH 19

Team Lead: John Parks Inspection Date: 05/13/2024

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
	Pile 2 minor local scour. Pile 3 minor local scour. Pile 4 minor local scour. Pile 5 minor local scour. Pile 6 minor local scour. Pile 7 minor local scour. Bent 7: 5Each scour CS2 Pile 1No defects observed Pile 2 No defects observed Pile 3 minor local scour. Pile 4 minor local scour. Pile 5 minor local scour. Pile 6 minor local scour. Pile 7 minor local scour. Bent 8: 2Each scour CS2 Pile 1 No defects observed Pile 2 No defects observed Pile 3 No defects observed Pile 4 minor local scour. Pile 5 minor local scour. Pile 6 No defects observed Pile 7 No defects observed Bent 9: 3Each scour CS2 Pile 1 No defects observed Pile 2 No defects observed Pile 3 minor local scour. Pile 4 minor local scour. Pile 5 minor local scour. Pile 6 No defects observed Pile 7 No defects observed Bent 10: Pile 1 No defects observed Pile 2 No defects observed Pile 3 No defects observed Pile 4 No defects observed Pile 5 No defects observed Pile 6 No defects observed Pile 7 No defects observed Bent 11: 2Each scour CS2 Pile 1 No defects observed Pile 2 minor local scour. Pile 3 minor local scour. Pile 4 No defects observed Pile 5 No defects observed Pile 6 No defects observed Pile 7 No defects observed Bent 12: 5Each abrasion CS2 Pile 1 No defects observed Pile 2 minor abrasion Pile 3 minor abrasion Pile 4 minor abrasion						

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
Pile 5 minor abrasion Pile 6 minor abrasion Pile 7 No defects observed							
Bent 13: 7Each abrasion CS2 Pile 1 minor abrasion Pile 2 minor abrasion Pile 3 minor abrasion Pile 4 minor abrasion Pile 5 minor abrasion Pile 6 minor abrasion Pile 7 minor abrasion							
Bent 14: 7Each abrasion CS2 Pile 1 minor abrasion Pile 2 minor abrasion Pile 3 minor abrasion Pile 4 minor abrasion Pile 5 minor abrasion Pile 6 minor abrasion Pile 7 minor abrasion							
Bent 15: 7Each abrasion CS2 Pile 1 minor abrasion Pile 2 minor abrasion Pile 3 minor abrasion Pile 4 minor abrasion Pile 5 minor abrasion Pile 6 minor abrasion Pile 7 minor abrasion							
Bent 16: 7Each abrasion CS2 Pile 1 minor abrasion Pile 2 minor abrasion Pile 3 minor abrasion Pile 4 minor abrasion Pile 5 minor abrasion Pile 6 minor abrasion Pile 7 minor abrasion							
Bent 17: 7Each abrasion CS2 Pile 1 minor abrasion Pile 2 minor abrasion Pile 3 minor abrasion Pile 4 minor abrasion Pile 5 minor abrasion Pile 6 minor abrasion Pile 7 minor abrasion							
234	Reinforced Concrete Pier Cap	LF	752	749	3	0	0
1090	Exposed Rebar	LF	3	0	3	0	0
(234) Bent 2:	No defects observed.						
Bent 3:	No defects observed.						



Asset #05679(Routine, Underwater type 2)

US 371 S-7 LM 3.79 over BIG CREEK

Location: 1.8 MI W JCT SH 19

Team Lead: John Parks Inspection Date: 05/13/2024

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
	Bent 4: No defects observed.						
	Bent 5: No defects observed.						
	Bent 6: No defects observed.						
	Bent 7: No defects observed.						
	Bent 8: No defects observed.						
	Bent 9: 3LF spall CS3 Ahead side 4' right of the left end, 30" x 24" x 3" spall with exposed rebar.						
	Bent 10: No defects observed.						
	Bent 11: No defects observed.						
	Bent 12: No defects observed.						
	Bent 13: No defects observed.						
	Bent 14: No defects observed.						
	Bent 15: No defects observed.						
	Bent 16: No defects observed.						
	Bent 17: No defects observed.						
301	Pourable Joint Seal	LF	840	840	0	0	0
	(301) Bent 2: No defects observed.						
	Bent 3: No defects observed.						
	Bent 4: No defects observed.						
	Bent 5: No defects observed.						
	Bent 6:						



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
	No defects observed.						
Bent 7:	No defects observed.						
Bent 8:	No defects observed.						
Bent 9:	No defect observed.						
Bent 10:	No defects observed.						
Bent 11:	No defects observed.						
Bent 12:	No defects observed.						
Bent 13:	No defects observed.						
Bent 14:	No defects observed.						
Bent 15:	No defects observed.						
Bent 16:	No defects observed.						
Bent 17:	No defects observed.						
321	Reinforced Concrete Approach Slab	SF	1380	1320	0	60	0
1130	Cracking (RC and Other)	SF	60	0	0	60	0
(321) Bent 1:	20SF crack CS3 Longitudinal crack at center line.						
Bent 18:	40SF crack CS3 Longitudinal cracks 6' left and right of center line.						
331	Reinforced Concrete Bridge Railing	LF	1020	1015	4	1	0
1080	Delamination/Spall/Patched Area	LF	5	0	4	1	0
(331) Left rail:	No defects observed.						
Right rail:	4LF spall CS2, 1LF spall CS3 Minor spalls scattered through out and a moderate spall at Bent 18.						

Inspection Photos and Notes



Elevation



Deck overview



Undersurface of slab



Right side, all spans have upto 1/2" creep.



Span 4, right side, 1/2" creep at mid span. All spans have creep, span 4 is the worst.



Typical superstructure



Typical substructure



Channel left side downstream



Channel right side upstream



Approach



Vegetation



Span 11 Under surface, right side 6' back of Bent 12, 30" x 20" x 3" spall with exposed rebar, rebar has minor section loss. 6SF exposed rebar CS3



05/14/2024

Spans 2 and 3 right side at bent 3 cracks with efflorescence, typical at both sides of all spans.



05/14/2024

Bent 9 Ahead side 4' right of the left end, 30" x 24" x 3" spall with exposed rebar.



05/14/2024

Typical of all joints, joint rehab has been performed and expansion material is in good condition.

Maintenance Needs

Date Reported: 05/26/2022

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Substructure

Deficiency Description

Bent 18:
Right end, 8' of embankment has been eroded 10" below the stub.

Remarks



Bent 18:
Right end, 8' of embankment has been eroded 10" below the stub.



Asset #05679(Routine, Underwater type 2)

US 371 S-7 LM 3.79 over BIG CREEK

Location: 1.8 MI W JCT SH 19

Team Lead: John Parks Inspection Date: 05/13/2024

Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is Recommended?
A-54 - Sealable Deck Cracks	No
A-55 - Deck Washing Needed	No
A-56 - Joint Cleaning/Flushing Needed	No
A-57 - Beam End and Bearing Paint Needed	No
A-58 - Cap Cleaning/Flushing Needed	No
A-59 - Joint Repair Needed	No
A-60 - Full Beam Painting Needed	No
A-61 - Polymer Overlay Advised	No
A-62 - Hydro and LMC Advised	No
A-63 - Missing/Incorrect Log Mile Signage	No
A-64 - Vegetation Removal Requested	Yes
A-65 - Clogged deck drains?	
A-66 - Approach minor pothole/leveling needed	

A-54 - Sealable Deck Cracks (No)

A-55 - Deck Washing Needed (No)

A-56 - Joint Cleaning/Flushing Needed (No)



Asset #05679(Routine, Underwater type 2)

US 371 S-7 LM 3.79 over BIG CREEK

Location: 1.8 MI W JCT SH 19

Team Lead: John Parks Inspection Date: 05/13/2024

A-57 - Girder End and Bearing Painting Needed (No)

A-58 - Cap Cleaning/Flushing Needed (No)

A-59 - Joint Repair Needed (No)

A-60 - Full Girder Painting Needed (No)

A-61 - Polymer Overlay Advised (No)

A-62 - Hydro and LMC Advised (No)

A-63 - Missing/Incorrect Log Mile Signage (No)

A-64 - Vegetation Removal Requested (Yes)



Vegetation

A-65 - Clogged deck drains?

A-66 - Approach minor pothole/leveling needed



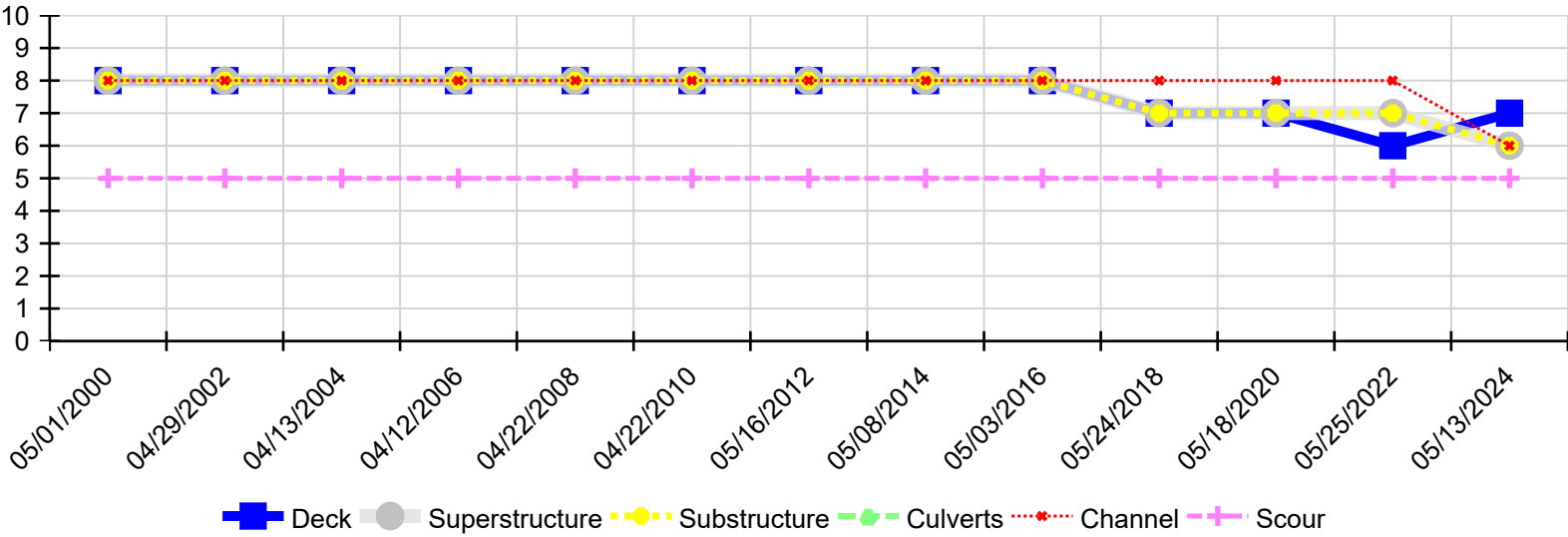
Asset #05679(Routine, Underwater type 2)

US 371 S-7 LM 3.79 over BIG CREEK

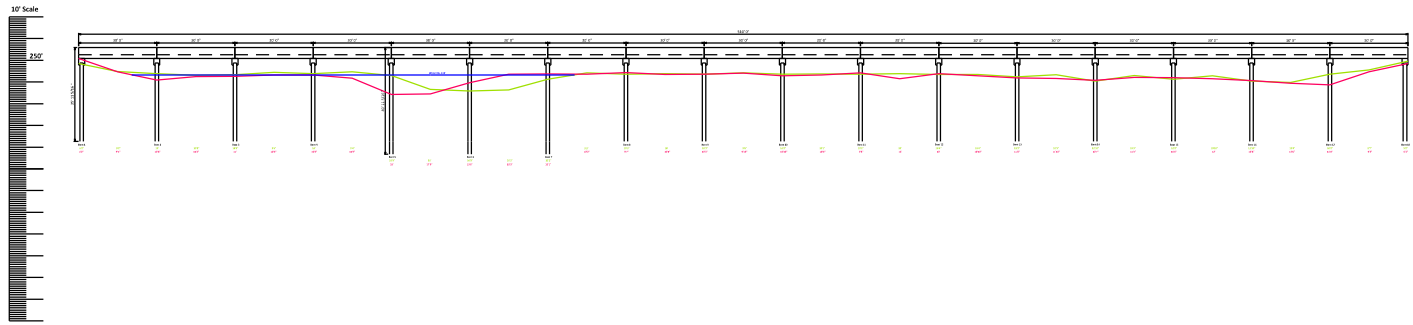
Location: 1.8 MI W JCT SH 19

Team Lead: John Parks Inspection Date: 05/13/2024

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
05/13/2024	7	6	6	N	6	5
05/25/2022	6	7	7	N	8	5
05/18/2020	7	7	7	N	8	5
05/24/2018	7	7	7	N	8	5
05/03/2016	8	8	8	N	8	5
05/08/2014	8	8	8	N	8	5
05/16/2012	8	8	8	N	8	5
04/22/2010	8	8	8	N	8	5
04/22/2008	8	8	8	N	8	5
04/12/2006	8	8	8	N	8	5
04/13/2004	8	8	8	N	8	5
04/29/2002	8	8	8	N	8	5
05/01/2000	8	8	8	N	8	5



ARKANSAS STATE HIGHWAY COMMISSION
Little Rock, ARK.

<div>0'50'100'</div> <div>Scale:1"=50'</div>	BRIDGE NO. 5679	
		Drawn By: JWP Project: Channel Profile
Inspection Dir: E to W	Channel Flow: N to S	Checked By: JDP Date: 5/14/2024