

Bridge 06404 Inspection Report



Latitude:35.80843, Longitude:-92.03038

Route:5 Section:16 Log:12.22

Arnold Road ID:69x5x16xA, Arnold Log mile:11.954

District 05, 137 - Stone County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

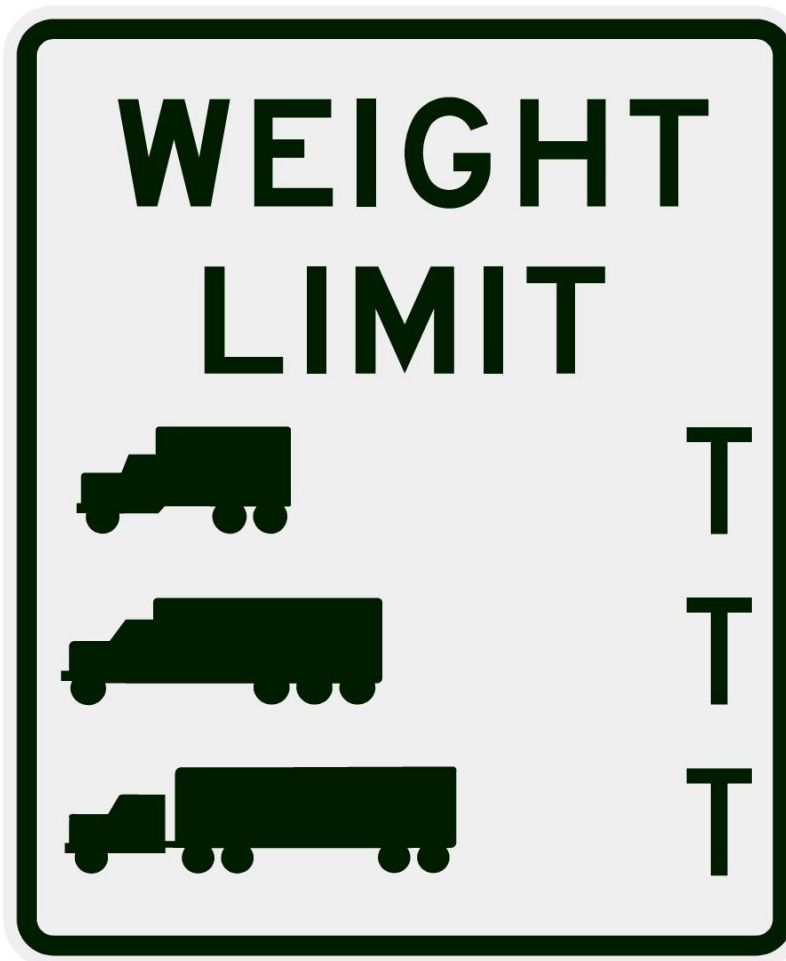
Bridge Posting Information

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

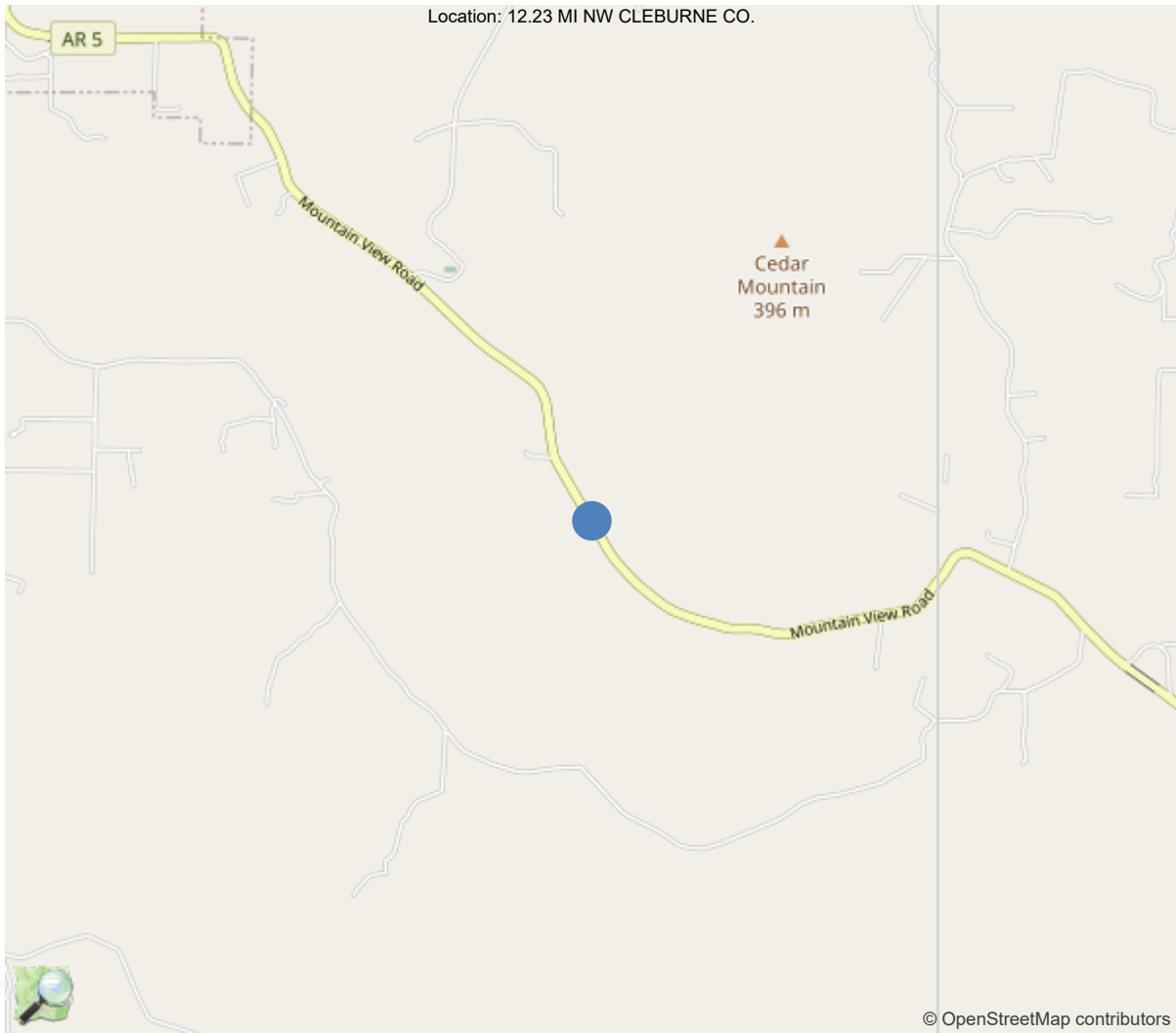
70 - Bridge Posting: 5 - Equal to or above legal loads

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



35.80843, -92.03038

National Bridge Inventory Data Sheet

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	06404
(5) Inventory Route	1
(2) Highway Agency District	05 - District 05
(3) County Code	137 - Stone County
(4) Place Code	0
(6) Features Intersected	COVE PRONG
(7) Facility Carried	SH 5/Stone County
(9) Location	12.23 MI NW CLEBURNE CO.
(11) Mile Point	12.22 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000005160
(16) Latitude	35.80843
(17) Longitude	-92.03038
(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	3
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	0 - None (no additional concrete thickne
Type of Membrane	0 - None
Type of Deck Protection	1 - Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	1992
(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	1900
(30) Year of ADT	2018
(109) Truck ADT	12 %
(19) Bypass, Detour Length	19 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	40 ft
(49) Structure Length	122 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	40 ft
(52) Deck Width Out to Out	42.8 ft
(32) Approach Roadway Width (W/Shoulders)	24 ft
(33) Bridge Median	0 - No median
(34) Skew	25 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	41 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	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	8
(60) Substructure	7
(61) Channel & Channel Protection	8
(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	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	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	2385
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			11/20/2024
(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: Floyd Haley, Inspection Date: 11/20/2024

Specifications for National Bridge Inventory Sheets

IDENTIFICATION	
B.ID.01 Bridge Number	06404
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	M0149
B.W.01 Year Built	1992

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	137 - Stone County
B.L.03 Place Code	00000 - N/A
B.L.04 Highway Agency District	05 - District 05
B.L.05 Latitude	35.80843
B.L.06 Longitude	-92.03038
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	12.23 MI NW CLEBURNE CO.
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	117.3
B.G.02 Total Bridge Length	122
B.G.03 Max Span Length	40
B.G.04 Min Span Length	40
B.G.05 Bridge Width Out-to-Out	42.7
B.G.06 Bridge Width Curb-to-Curb	40
B.G.07 Left Curb or Sidewalk Width	0
B.G.08 Right Curb or Sidewalk Width	0
B.G.09 Approach Roadway Width	24

B.G.10 Bridge Median	0 - No median
B.G.11 Skew	25
B.G.12 Curved Bridge	N - Not curved
B.G.13 Max Bridge Height	15
B.G.14 Sidehill Bridge	N - Not a sidehill bridge
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	5205.4

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	
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	7 - GOOD - Some minor defects.
B.C.02 Superstructure Condition	8 - VERY GOOD - Some inherent
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	7 - GOOD - Some minor defects.
B.C.07 Bridge Bearings Cond.	6 - SATISFACTORY - Widespread
B.C.08 Bridge Joints Condition	4 - POOR - Widespread moderate
B.C.09 Channel Condition Rating	8 - VERY GOOD - Inherent defec
B.C.10 Channel Protection Condition	
B.C.11 Scour Condition Rating	8 - Insignificant scour.
B.C.12 Bridge Condition Classification	G - Good
B.C.13 Lowest Condition Rating	7 - GOOD - Some minor defects.
B.C.14 NSTM Insp. Condition	
B.C.15 UW Inspection Condition	

APPRAISAL	
B.AP.01 Approach Roadway Alignment	G - Good
B.AP.02 Overtopping Likelihood	1 - Remote - once every 100 years o
B.AP.03 Scour Vulnerability	0 - Scour appraisal has not been co
B.AP.04 Scour Plan of Action	0 - A scour POA is not required.
B.AP.05 Seismic Vulnerability	A - Seismic evaluation completed. B

Team Lead: Floyd Haley, Inspection Date: 11/20/2024

SPAN SETS			
M1			
B.SP.02 # of Spans	3	B.SP.08 Deck Interaction	CU - Composite - unshored cons
B.SP.03 # of Beam Lines	6	B.SP.09 Deck Material and Type	C01 - Reinforced concrete - ca
B.SP.04 Span Material	S-T - TEMP - steel - S01 or S0	B.SP.10 Wearing Surface	0 - None
B.SP.05 Span Continuity	C-T - TEMP - continuous - 2 or	B.SP.11 Deck Protective System	0 - None
B.SP.06 Span Type	G02 - Girder/beam - I-shaped s	B.SP.12 Deck Reinforcing Protective System	C01 - Coating - epoxy coated
B.SP.07 Span Protective System	P01 - Patina - uncoated weathe	B.SP.13 Deck Stay-In-Place Forms	M01 - Metal

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	P03 - Pile - concrete, cast-in
B.SB.04 Substructure Type	A02 - Abutment - stub	B.SB.07 Foundation Protective System	0 - None
P1			
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	F02 - Footing - on rock
B.SB.04 Substructure Type	B01 - Bent - column or open	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	1900
B.F.03 Feature Name	SH 5/Stone County	B.H.10 Annual ADTT	228
B.H.01 Functional Classification	4 - Minor Arterial	B.H.11 Year of Annual ADT	2018
B.H.02 Urban Code	99999	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	5160	B.H.16 Highway Max Usable Surface Width	40.6
B.H.07 LRS Mile Point	12.22	B.H.17 Bypass Detour Length	19
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	1	5	2-T - TEMP - Two-way traffic - NS or EW	3 - State route	1 - Mainline



Team Lead: Floyd Haley, Inspection Date: 11/20/2024

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	COVE PRONG	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 and 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 #06404(Routine, Underwater type 2)

SH 5/Stone County over COVE PRONG

Location: 12.23 MI NW CLEBURNE CO.

Team Lead: Floyd Haley Inspection Date: 11/20/2024

Inspection Notes

General Observation

11/20/2024

Routine and Underwater Type 2 inspections were conducted on this date from Southeast to Northwest. All deficiencies were noted and quantified in the report's elements section, and all components were rated according to their condition.

Construction Job 5802.

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

Deck is in Good condition with minor transverse cracking and undersurface has efflorescent cracking and a spall with corroded rebar exposed to overhangs. As a result, a rating of 7.

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

Superstructure is in Very Good condition with no defects noted. As a result, a rating of 8.

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

Substructure is in Good condition with efflorescent cracking to abutments. As a result, a rating of 7.

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.)

Channel is in Very Good condition with banks being well protected. As a result, a rating of 8.

64 - Operating Rating (60)

Do not have data to validate this capacity. When updating the other SU trucks, I tabbed into this field and am unable to delete it.

A-51 - Inspection Direction (2 - S to N)

Roadway with Log Mile running Southeast to Northwest.

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

Insignificant scour.



Asset #06404(Routine, Underwater type 2)

SH 5/Stone County over COVE PRONG

Location: 12.23 MI NW CLEBURNE CO.

Team Lead: Floyd Haley Inspection Date: 11/20/2024

National Bridge Element Quantities and Notes

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	5222	5146	73	3	0
1080	Delamination/Spall/Patched Area	SF	1	0	0	1	0
1090	Exposed Rebar	SF	2	0	0	2	0
1120	Efflorescence/Rust Staining	SF	48	0	48	0	0
1130	Cracking (RC and Other)	SF	25	0	25	0	0
(12) Minor transverse cracks to deck in gutter lines. 25' CS2 Minor efflorescent cracking to Left & Right overhangs. 48' CS2 Abutment 2: Spall to Right outside edge of deck.1' CS3 Span 3: Right overhang: Spalls with corroded reinforcing steel exposed. 2' CS3							
107	Steel Open Girder/Beam	LF	720	720	0	0	0
515	Steel Protective Coating	SF	4442	4442	0	0	0
(107) No defects noted. (515-107) No defects noted.							
205	Reinforced Concrete Column	EA	6	6	0	0	0
(205) No defects noted.							
215	Reinforced Concrete Abutment	LF	134	123	11	0	0
1120	Efflorescence/Rust Staining	LF	11	0	11	0	0
(215) Abutment 1: 4 vertical efflorescent cracks to backwall. 4' CS2 Abutment 2: 4 vertical efflorescent cracks to backwall. 4' CS2 Abutment 2: Right turnback: 3' diagonal efflorescent crack. 3' CS2							
234	Reinforced Concrete Pier Cap	LF	90	90	0	0	0
(234) No defects noted.							
301	Pourable Joint Seal	LF	94	0	0	94	0
2310	Leakage	LF	94	0	0	94	0
(301) Pourable joint seal @ Abutments 1 & 2 is losing adhesion and leaking. 94' CS3							
311	Movable Bearing	EA	12	0	0	12	0
1000	Corrosion	EA	12	0	0	12	0
515	Steel Protective Coating	SF	24	0	0	24	0
3440	Effectiveness (Steel Protective Coatings)	SF	24	0	0	24	0
(311) Flaking rust to Moveable Bearings at Abutments. 12EA CS3 (515-311) Flaking rust to Moveable Bearings at Abutments. 24' CS3							
313	Fixed Bearing	EA	12	12	0	0	0

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
515	Steel Protective Coating	SF	24	24	0	0	0
(313) No defects noted.							
(515-313) No defects noted.							
331	Reinforced Concrete Bridge Railing	LF	240	240	0	0	0
(331) No defects noted.							

Inspection Photos and Notes



Elevation with Log Mile running to the Right



Undersurface photo.



Typical deck



Overall deck.



Downstream



Upstream



Roadway with Log Mile running Southeast to Northwest.



Typical railing



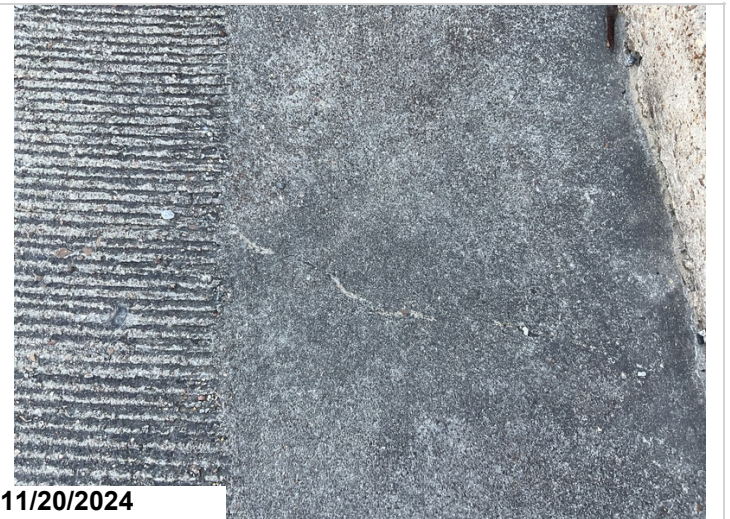
Typical transitions



Span 3, right: has 2 spalls with exposed rebar. 2' CS3



Typical overhangs have 8SF CS2 PER side per span. 48SF CS2



Minor transverse cracks on gutters. 25SF CS2



Typical girders.



Typical



Typical cracks to backwall.



Overall abutment 1



Typical



Abutment 1, seal. Both all in CS3. 94' CS3



Typical bearings



Asset #06404(Routine, Underwater type 2)

SH 5/Stone County over COVE PRONG

Location: 12.23 MI NW CLEBURNE CO.

Team Lead: Floyd Haley Inspection Date: 11/20/2024

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	Yes
A-60 - Full Beam Painting Needed	No
A-61 - Polymer Overlay Advised	Yes
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 #06404(Routine, Underwater type 2)

SH 5/Stone County over COVE PRONG

Location: 12.23 MI NW CLEBURNE CO.

Team Lead: Floyd Haley Inspection Date: 11/20/2024

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

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

A-59 - Joint Repair Needed (Yes)

A-60 - Full Girder Painting Needed (No)

A-61 - Polymer Overlay Advised (Yes)

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?



Asset #06404(Routine, Underwater type 2)

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Location: 12.23 MI NW CLEBURNE CO.

Team Lead: Floyd Haley Inspection Date: 11/20/2024

A-66 - Approach minor pothole/leveling needed



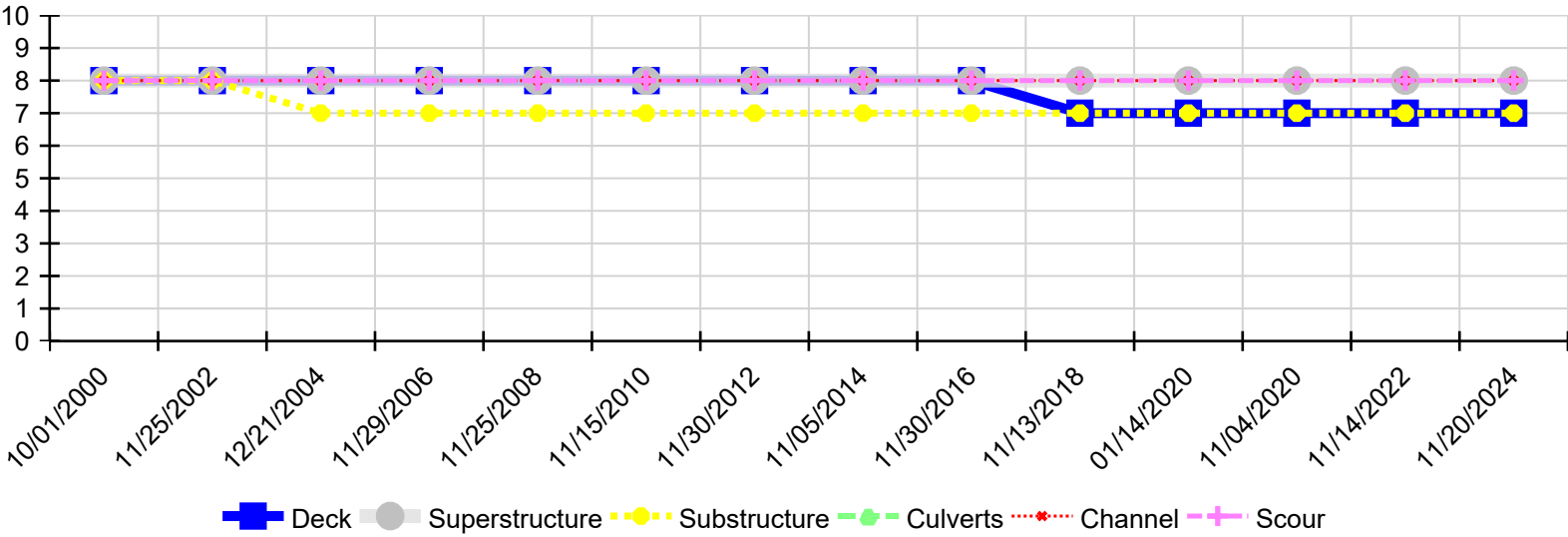
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SH 5/Stone County over COVE PRONG

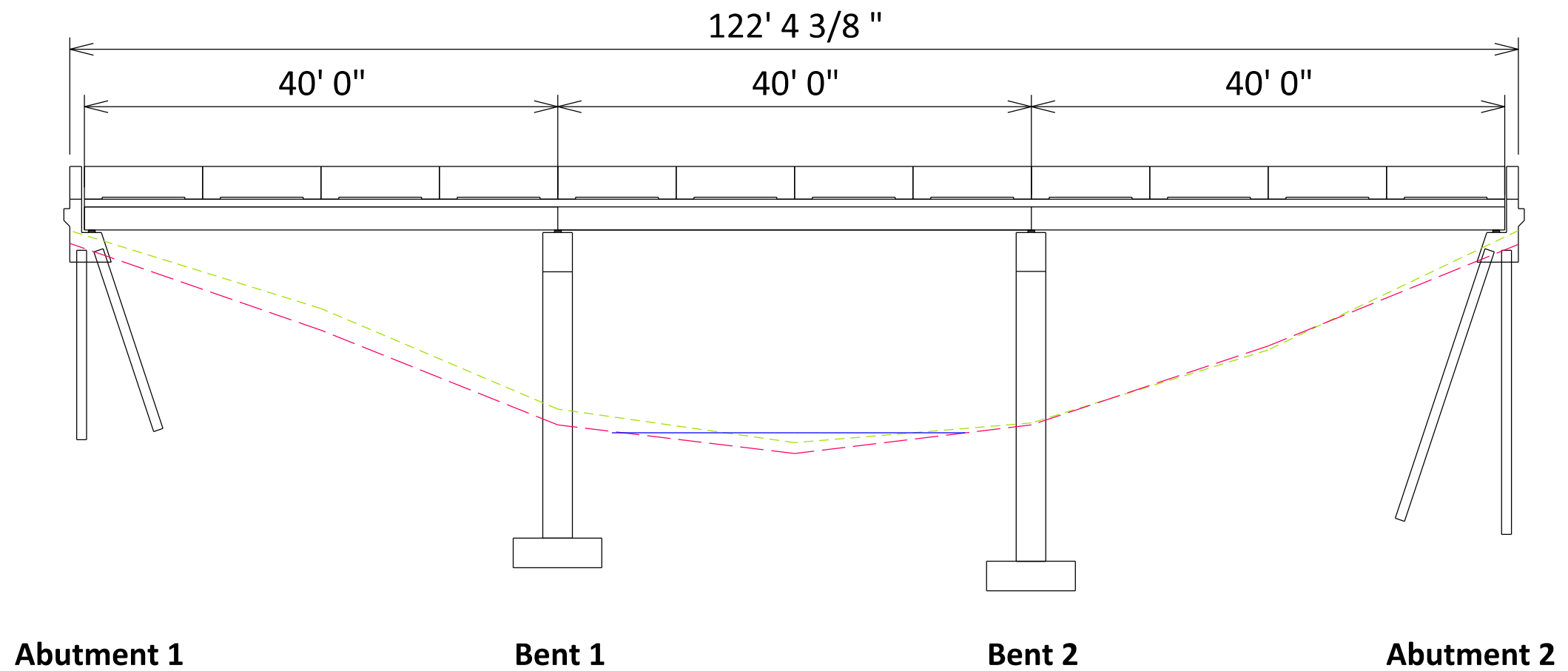
Location: 12.23 MI NW CLEBURNE CO.


Team Lead: Floyd Haley Inspection Date: 11/20/2024

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
11/20/2024	7	8	7	N	8	8
11/14/2022	7	8	7	N	8	8
11/04/2020	7	8	7	N	8	8
01/14/2020	7	8	7	N	8	8
11/13/2018	7	8	7	N	8	8
11/30/2016	8	8	7	N	8	8
11/05/2014	8	8	7	N	8	8
11/30/2012	8	8	7	N	8	8
11/15/2010	8	8	7	N	8	8
11/25/2008	8	8	7	N	8	8
11/29/2006	8	8	7	N	8	8
12/21/2004	8	8	7	N	8	8
11/25/2002	8	8	8	N	8	8
10/01/2000	8	8	8	N	8	8



Right Side Sounding Left Side Sounding			BRIDGE NO.	
			0604	
	Scale: 1"=12' Inspection Dir: S to N Channel Flow: W to E		Drawn By: ZBA Checked By: Edit	Project: Chan_Prof Date: 20241121

ARKANSAS STATE HIGHWAY COMMISSION
Little Rock, ARK.

