

Bridge 23833 Inspection Report



Latitude:34.27110, Longitude:-93.67000

Route:28 Section:00 Log:2.55

Arnold Road ID:55xPALESTINERDx2xA, Arnold Log mile:1.455

District 03, 109 - Pike County

Owner: 2 - County Highway Agency

Inspection Direction: 3 - E to W

Bridge Posting Information

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

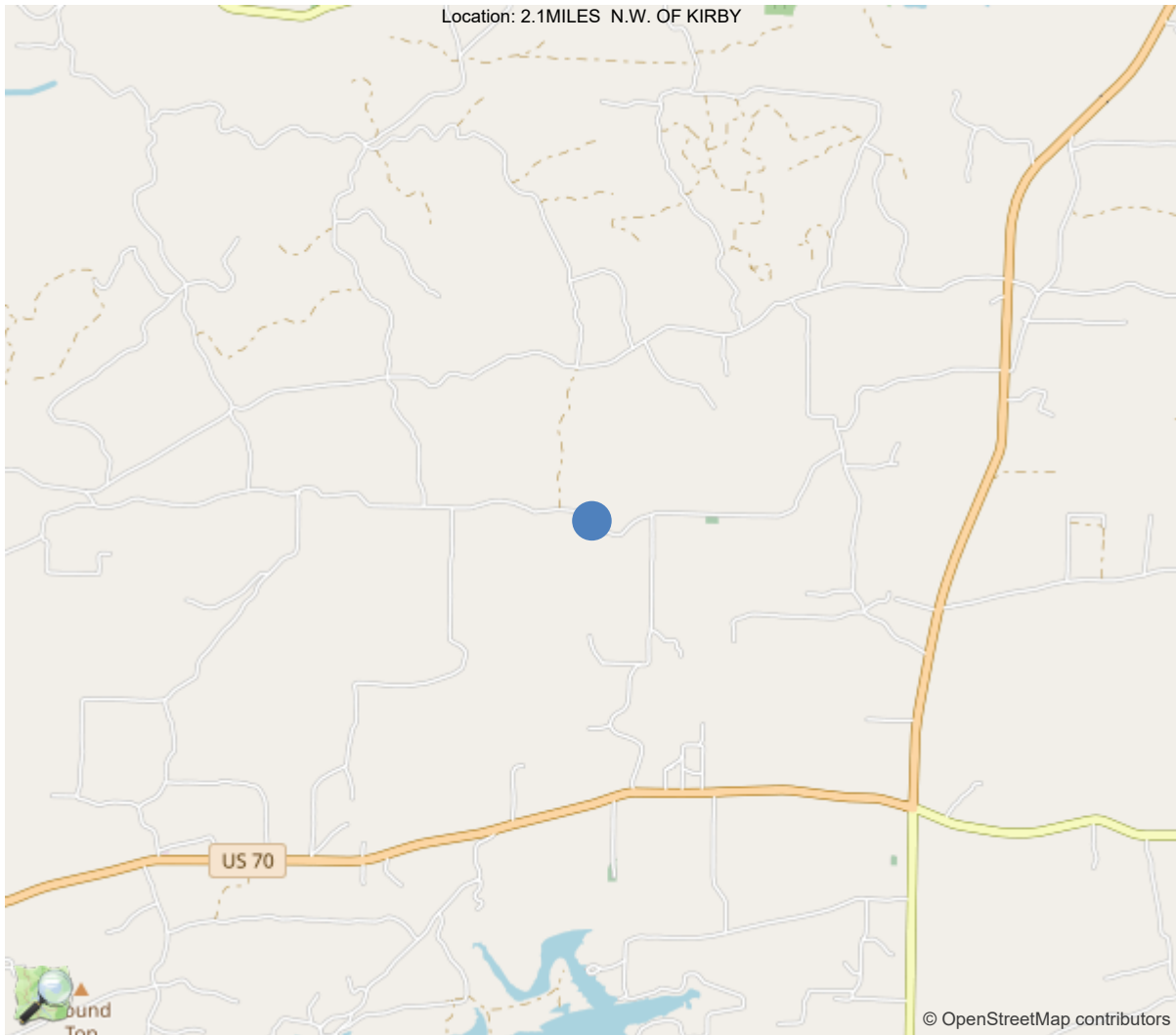
70 - Bridge Posting: 5 - Equal to or above legal loads

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)	53		

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



34.27110, -93.67000

National Bridge Inventory Data Sheet

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	23833
(5) Inventory Route	1
(2) Highway Agency District	03 - District 03
(3) County Code	109 - Pike County
(4) Place Code	0
(6) Features Intersected	Little Bear Creek
(7) Facility Carried	CR 28 Palestine Rd
(9) Location	2.1MILES N.W. OF KIRBY
(11) Mile Point	2.55 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.2711
(17) Longitude	-93.67
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	32
Material	3 - Steel
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	1
(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	0 - None
AGE AND SERVICE	
(27) Year Built	2012
(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	186
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	5 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	69.3 ft
(49) Structure Length	70.2 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	22.3 ft
(52) Deck Width Out to Out	23.6 ft
(32) Approach Roadway Width (W/Shoulders)	20.5 ft
(33) Bridge Median	0 - No median
(34) Skew	0 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.9 ft
(47) Inventory Route Total Horiz Clear	22.3 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	99.9 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	8 - Rural Minor 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	2 - County Highway Agency
(22) Owner	2 - County Highway Agency
(37) Historical Significance	4 - Historical significance is
CONDITION	
(58) Deck	6
(59) Superstructure	6
(60) Substructure	7
(61) Channel & Channel Protection	8
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	0 - Other or Unknown
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	56
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	33
(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	5
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	7
(72) Approach Roadway Alignment	6
(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	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	0
(114) Future ADT	110
(115) Year of Future ADT	2035

INSPECTIONS *			
(90) Inspection Date			11/05/2025
(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		
<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>			

Team Lead: Jared Kegley, Inspection Date: 11/05/2025

Specifications for National Bridge Inventory Sheets

IDENTIFICATION	
B.ID.01 Bridge Number	23833
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	
B.W.01 Year Built	2012

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	109 - Pike County
B.L.03 Place Code	00000 - N/A
B.L.04 Highway Agency District	03 - District 03
B.L.05 Latitude	34.2711
B.L.06 Longitude	-93.67
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	2.1MILES N.W. OF KIRBY
B.L.12 Metropolitan Planning Organization	

CLASSIFICATION	
B.CL.01 Owner	L01 - County highway agency
B.CL.02 Maint. Responsibility	L01 - County highway agency
B.CL.03 Federal or Tribal Land Access	N - Not Applicable
B.CL.04 Historic Significance	7 - Historic significance of the br
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	69.3
B.G.02 Total Bridge Length	70.2
B.G.03 Max Span Length	69.2
B.G.04 Min Span Length	72
B.G.05 Bridge Width Out-to-Out	23.6
B.G.06 Bridge Width Curb-to-Curb	22.3
B.G.07 Left Curb or Sidewalk Width	0
B.G.08 Right Curb or Sidewalk Width	0
B.G.09 Approach Roadway Width	20.3

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	15
B.G.14 Sidehill Bridge	N - Not a sidehill bridge
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	1656.7

LOADS AND LOAD RATING	
B.LR.01 Design Load	U - Unknown
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	0.92
B.LR.06 Operating Load Rating Factor	1.55
B.LR.07 Controlling Legal Load Rating Factor	
B.LR.08 Routine Permit Loads	Bridge does not carry routine permi

INSPECTION REQUIREMENTS	
B.IR.01 NSTM Inspection Required	N - NSTM inspection not required.
B.IR.02 Fatigue Details	Y - E/E' details are present
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	6 - SATISFACTORY - Widespread
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	6 - SATISFACTORY - Widespread
B.C.07 Bridge Bearings Cond.	N - NOT APPLICABLE - Component
B.C.08 Bridge Joints Condition	N - NOT APPLICABLE - Bridge do
B.C.09 Channel Condition Rating	8 - VERY GOOD - Inherent defec
B.C.10 Channel Protection Condition	N - NOT APPLICABLE - Bridge do
B.C.11 Scour Condition Rating	7 - Some minor scour.
B.C.12 Bridge Condition Classification	F - Fair
B.C.13 Lowest Condition Rating	6 - SATISFACTORY - Widespread
B.C.14 NSTM Insp. Condition	
B.C.15 UW Inspection Condition	

APPRAISAL	
B.AP.01 Approach Roadway Alignment	F - Fair
B.AP.02 Overtopping Likelihood	2 - Very low - once every 51 to 99
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	0 - Seismic evaluation not complete

Team Lead: Jared Kegley, Inspection Date: 11/05/2025

SPAN SETS			
M1			
B.SP.02 # of Spans	1	B.SP.08 Deck Interaction	CU - Composite - unshored cons
B.SP.03 # of Beam Lines	5	B.SP.09 Deck Material and Type	C01 - Reinforced concrete - ca
B.SP.04 Span Material	S01 - Steel - rolled	B.SP.10 Wearing Surface	0 - None
B.SP.05 Span Continuity	1 - Simple or single span	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	0 - None
B.SP.07 Span Protective System	C01 - Coating - paint	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	F01 - Footing - not on rock
B.SB.04 Substructure Type	A01 - Abutment - cantilever/wa	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	186
B.F.03 Feature Name	CR 28 Palestine Rd	B.H.10 Annual ADTT	1
B.H.01 Functional Classification	6 - Minor Collector	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		B.H.16 Highway Max Usable Surface Width	21.9
B.H.07 LRS Mile Point	2.55	B.H.17 Bypass Detour Length	5
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	28	2-T - TEMP - Two-way traffic - NS or EW	4 - County route	1 - Mainline

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	Little Bear 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	



Team Lead: Jared Kegley, Inspection Date: 11/05/2025

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 #23833(Routine, Underwater type 2)

CR 28 Palestine Rd over Little Bear Creek

Location: 2.1MILES N.W. OF KIRBY

Team Lead: Jared Kegley Inspection Date: 11/05/2025

Inspection Notes

General Observation

11/05/2025 - Routine and Underwater Type 2 inspection performed by J. Kegley and D. Calhoun.

Inspection Procedure

Tools Needed:

Hip boots/snake chaps are needed for this inspection.

Depth of Water:

The water depth at the time of this inspection was approx. 1.5' deep.

Notes:

No lane closure was needed for this inspection.

58 - Deck (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

The deck is rated a 6 in this inspection due to the topside of the deck having cracking in various locations.

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

The superstructure is rated a 6 in this inspection due to all the steel beams having corrosion with minor pitting and paint loss in various locations.

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

The substructure is rated a 7 in this inspection due to bents 1 and 2 having abrasion in various locations.

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.)

The channel is rated an 8 in this inspection due to the upstream channel and downstream channel being well vegetated. Soundings were taken and linked to the asset files.

A-54 - Sealable Deck Cracks (Y)

The topside of the deck has excessive amounts of cracking in various locations.

B.IR.02 - Fatigue Prone Details (Y)

Cover plates are welded to the bottom flanges.

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

The bridge railing is rated a 6 in this inspection due to the left and right sides having minor corrosion and paint loss in various locations.

B.C.06 Bridge Railing Transitions Condition Rating (6 - SATISFACTORY - Widespread minor or isolated moderate defects.)

The bridge railing is rated a 6 in this inspection due to there being minor corrosion and paint loss in various locations.



Asset #23833(Routine, Underwater type 2)

CR 28 Palestine Rd over Little Bear Creek

Location: 2.1MILES N.W. OF KIRBY

Team Lead: Jared Kegley Inspection Date: 11/05/2025

B.C.07 Bridge Bearings Condition Rating (N)

The bearings are encased inside the concrete abutment.

A-B.C.11 - B.C.11 Scour Condition Rating (New NBIS) (7 - Some minor scour.)

The rating of the scour was dropped to a 7 this inspection due to bents 1 and 2 having minor scour in various locations.

Inspection Photos and Notes



Elevation.



Typical photo of the undersurface.



The topside of the deck has cracking in various locations,
CS2



Typical photo of the topside of the deck.



The topside of the deck has cracking in various locations, CS2



The topside of the deck has cracking in various locations, CS2



Typical photo of the superstructure.



All steel beams have widespread minor corrosion in various locations, CS2.



11/05/2025

All steel beams have paint loss in various locations, CS2.



11/05/2025

Bents 1 and 2 have honeycombs in various locations, CS2.



11/05/2025

Typical photo of the substructure.



11/05/2025

Downstream channel.



Upstream channel.



Inventory.



The topside of the deck has excessive amounts of cracking in various locations.



Cover plates are welded to the bottom flanges.



The bridge railing is rated a 6 in this inspection due to the left and right sides having minor corrosion and paint loss in various locations.



The bridge railing is rated a 6 in this inspection due to there being minor corrosion and paint loss in various locations.



The rating of the scour was dropped to a 7 this inspection due to bents 1 and 2 having minor scour in various locations.



The rating of the scour was dropped to a 7 this inspection due to bents 1 and 2 having minor scour in various locations.

Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is Recommended?
A-54 - Sealable Deck Cracks	Yes
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	No
A-65 - Clogged deck drains?	No
A-66 - Approach minor pothole/leveling needed	No

A-54 - Sealable Deck Cracks (Yes)

The topside of the deck has excessive amounts of cracking in various locations.



The topside of the deck has excessive amounts of cracking in various locations.



Asset #23833(Routine, Underwater type 2)

CR 28 Palestine Rd over Little Bear Creek

Location: 2.1MILES N.W. OF KIRBY

Team Lead: Jared Kegley Inspection Date: 11/05/2025

A-55 - Deck Washing Needed (No)

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

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)



Asset #23833(Routine, Underwater type 2)

CR 28 Palestine Rd over Little Bear Creek

Location: 2.1MILES N.W. OF KIRBY

Team Lead: Jared Kegley Inspection Date: 11/05/2025

A-64 - Vegetation Removal Requested (No)

A-65 - Clogged deck drains? (No)

A-66 - Approach minor pothole/leveling needed (No)



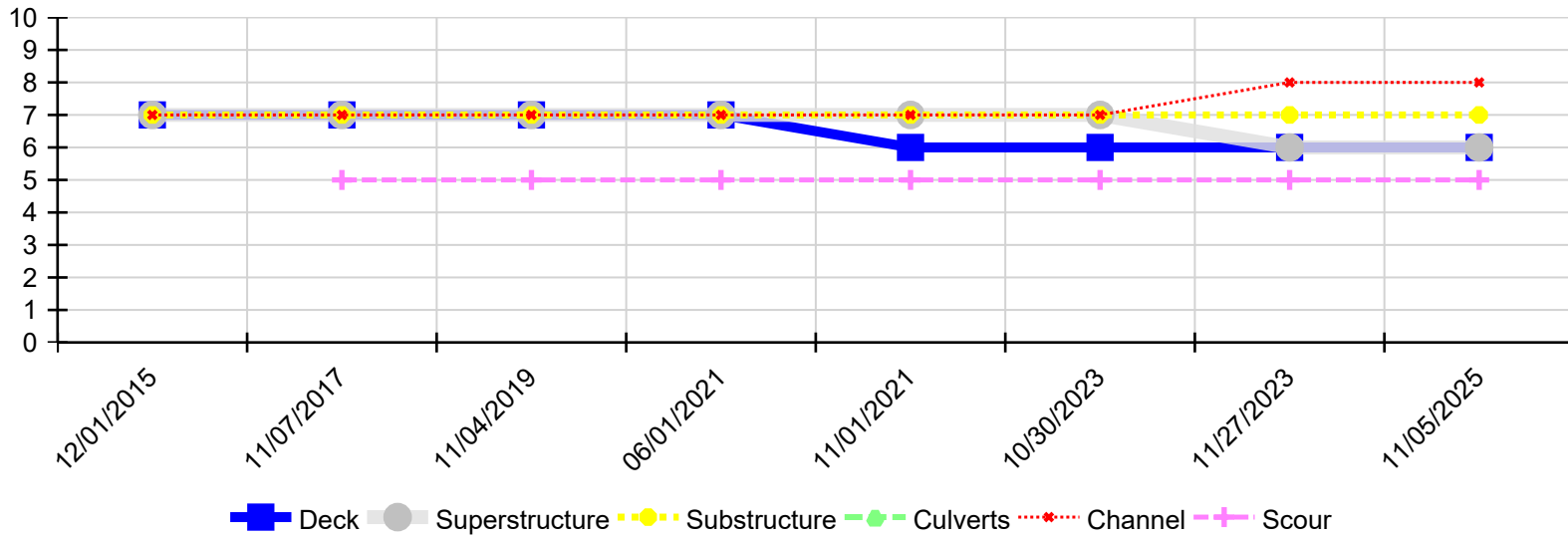
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CR 28 Palestine Rd over Little Bear Creek

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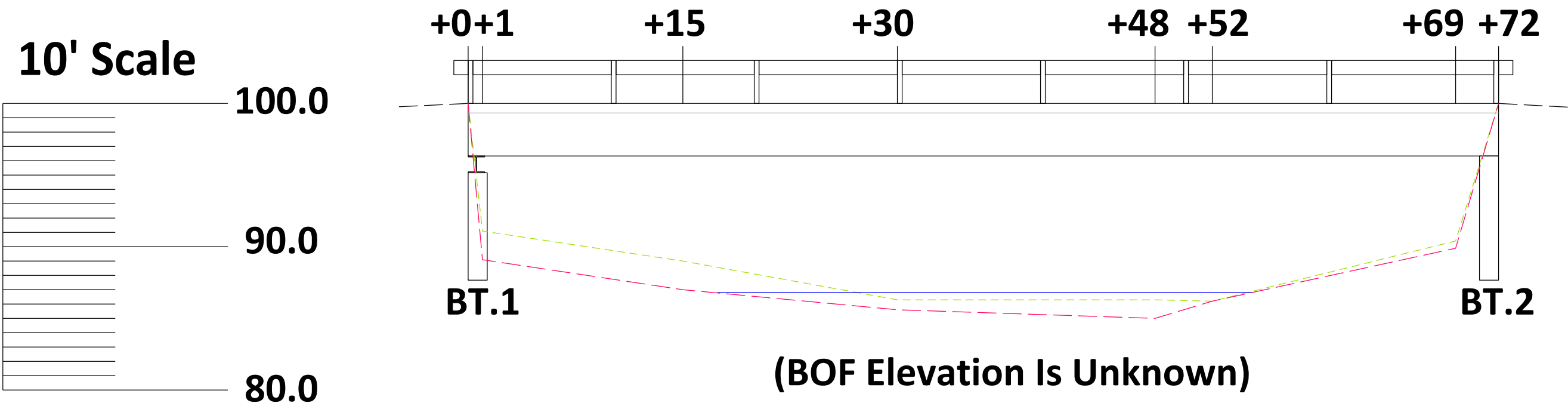
Team Lead: Jared Kegley Inspection Date: 11/05/2025

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
11/05/2025	6	6	7	N	8	5
11/27/2023	6	6	7	N	8	5
10/30/2023	6	7	7	N	7	5
11/01/2021	6	7	7	N	7	5
06/01/2021	7	7	7	N	7	5
11/04/2019	7	7	7	N	7	5
11/07/2017	7	7	7	N	7	5
12/01/2015	7	7	7	N	7	N

(Channel Soundings Taken Top Of Deck)



Right Side Sounding Left Side Sounding		BRIDGE NO. 23833		
		Drawn By: D.Calhoun	Project: Soundings	
ARKANSAS STATE HIGHWAY COMMISSION Little Rock, ARK.	Scale: 1"=8'	Inspection Dir: E To W	Channel Flow: N To S	Checked By: J.Kegley Date: 20251105