



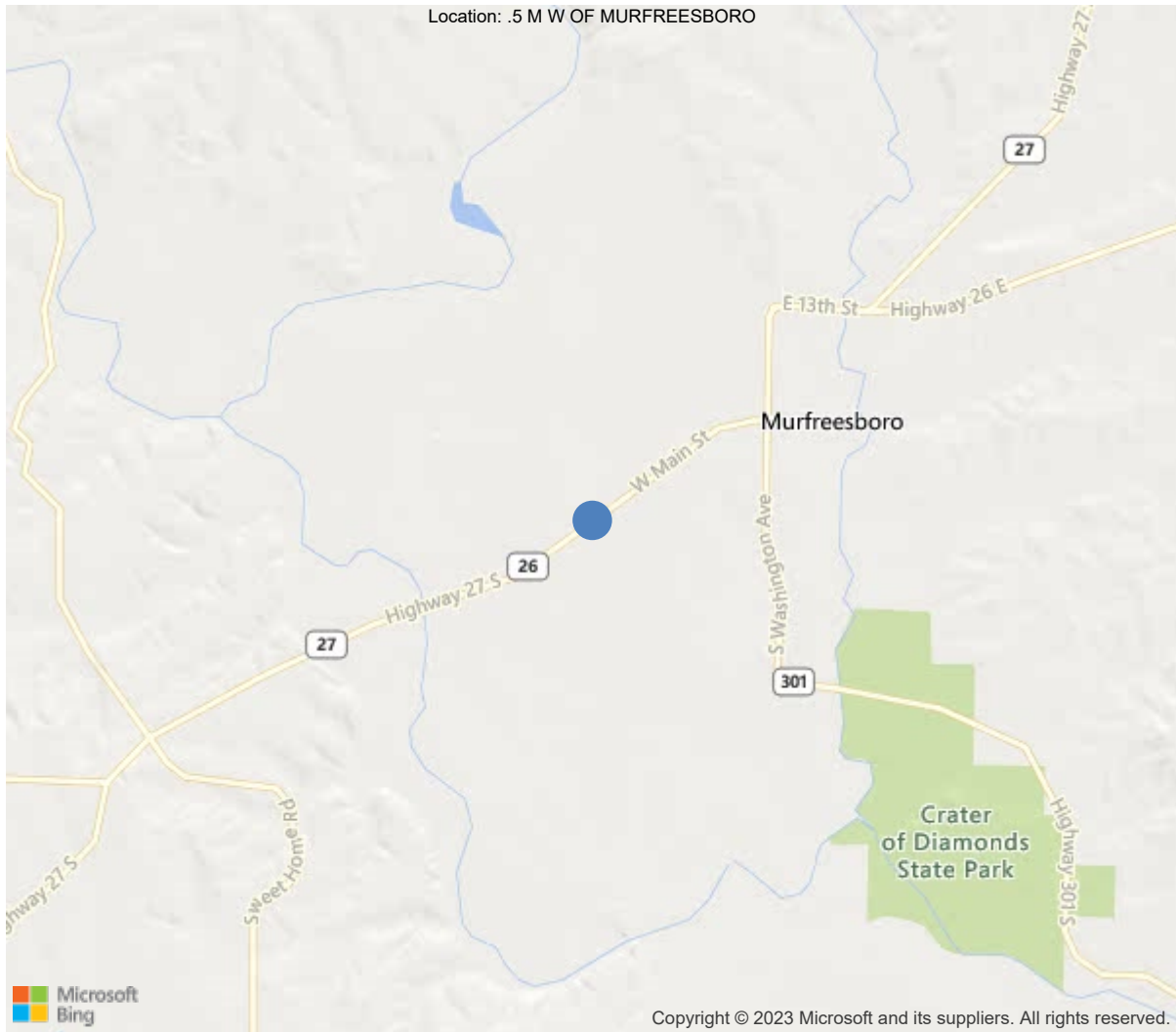
Latitude:34.05491, Longitude:-93.70541

Route:27 Section:04 Log:5.41

Arnold Road ID:55x27x4xA, Arnold Log mile:5.415

District 03, 109 - Pike County

Owner: 1 - State Highway Agency



34.05491, -93.70541



Asset #01622(Routine)

SH 27 - 04 - 5.41 over LAKE SLOUGH

Location: .5 M W OF MURFREESBORO

Team Lead: John King, Inspection Date: 07/20/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	01622
(5) Inventory Route	1
(2) Highway Agency District	03 - District 03
(3) County Code	109 - Pike County
(4) Place Code	0
(6) Features Intersected	LAKE SLOUGH
(7) Facility Carried	SH 27 - 04 - 5.41
(9) Location	.5 M W OF MURFREESBORO
(11) Mile Point	5.41 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.05491
(17) Longitude	-93.70541
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	14
Material	1 - Concrete
Type	4 - Tee beam
(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	1 - Monolithic Concrete (concurrently pl
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1933
(106) Year Reconstructed	1983
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	3700
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	36 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	91 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	44 ft
(52) Deck Width Out to Out	47 ft
(32) Approach Roadway Width (W/Shoulders)	44 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	45.6 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 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	7
(60) Substructure	6
(61) Channel & Channel Protection	8
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2 - M 13.5 / H 15
(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	6
(68) Deck Geometry	7
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	7
(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	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	4013
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	07/20/2022		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
* 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

BRIDGE BUILT IN 1933 AND RECONSTRUCTED IN 1983, OLD BRIDGE HAS TEE BEAMS AND RECONSTRUCTED IS CONCRETE SLAB. Deck cracks sealed in 2016.....7/23/2018 AL,SS,DECK PHOTOS TAKEN....7/15/2020...AL, Elevation, Deck, Def photos taken. Soundings taken this inspection...7/2022... Alignment, Elevation, Def. Photo taken this inspection

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

20' Reinforced Concrete Top Flange section

27' Slab section add-on

07/22 No change per this inspection...

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

CONCRETE TEE BEAMS ON OLD PART OF BRIDGE AND WIDENING NEW PART IS R.C. SLAB....07/22 no change per this inspection...

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

WIDENIG CAPS IN 1983 IN RECONCRUSTION JOB...

CONCRETE CAPS @BENT #1- RT. END SPALLED W/ REBAR EXP. LT. END END OF CAP IS SPALLED.BENT #2- LT. END SPALLED W/ REBAR EXP. CAP IS DELAMED UNDER BM'S # 1 & #3.BENT #3- RT. END OF OLD CAP. SPALLED W/ REBAR EXP.BENT #4- LT. END CAP IS SPALLED...07/22 no change per this inspection...

A-46 - Asset Files

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Asset #01622(Routine)

SH 27 - 04 - 5.41 over LAKE SLOUGH

Location: .5 M W OF MURFREESBORO

Team Lead: John King, Inspection Date: 07/20/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	1820	1620	200	0	0
1130	Cracking (RC and Other)	SF	200	0	200	0	0
(16) CONCRETE DECK HAS A R.C. SLAB ADD ON IN 1983 FOR WIDENING							
38	RC Slab	SF	2457	2232	225	0	0
1120	Efflorescence/Rust Staining	SF	25	0	25	0	0
1130	Cracking (RC and Other)	SF	200	0	200	0	0
(38) CONCRETE DECK HAS A R.C. SLAB ADD ON IN 1983 FOR WIDENING							
110	Reinforced Concrete Open Girder/Beam	LF	360	360	0	0	0
(110) CONCRETE DIAPHRAM OVER BENT #2 APPOX. 3' OF DIAPHRAM IS SPALLED W/ REBAR EXPOSED.							
215	Reinforced Concrete Abutment	LF	108	108	0	0	0
227	Reinforced Concrete Pile	EA	16	15	1	0	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
234	Reinforced Concrete Pier Cap	LF	190	183	4	3	0
1080	Delamination/Spall/Patched Area	LF	4	0	4	0	0
1090	Exposed Rebar	LF	3	0	0	3	0
(234) CAPS WERE EXTENDED IN 1983 IN RECONSTRUCTION JOB FOR WIDENING							
301	Pourable Joint Seal	LF	176	176	0	0	0
331	Reinforced Concrete Bridge Railing	LF	182	182	0	0	0

**Deck**

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	1820	1620	200	0	0
1130	Cracking (RC and Other)	SF	200	0	200	0	0
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(38) CONCRETE DECK HAS A R.C. SLAB ADD ON IN 1983 FOR WIDENING							

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

Comment: 20' Reinforced Concrete Top Flange section

27' Slab section add-on

07/22 No change per this inspection...



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Location: .5 M W OF MURFREESBORO

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Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
110	Reinforced Concrete Open Girder/Beam (110) CONCRETE DIAPHRAM OVER BENT #2 APPOX. 3' OF DIAPHRAM IS SPALLED W/ REBAR EXPOSED.	LF	360	360	0	0	0

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

Comment: CONCRETE TEE BEAMS ON OLD PART OF BRIDGE AND WIDENING NEW PART IS R.C. SLAB....07/22 no change per this inspection...



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Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
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227	Reinforced Concrete Pile	EA	16	15	1	0	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
234	Reinforced Concrete Pier Cap	LF	190	183	4	3	0
1080	Delamination/Spall/Patched Area	LF	4	0	4	0	0
1090	Exposed Rebar	LF	3	0	0	3	0
(234) CAPS WERE EXTENDED IN 1983 IN RECONSTRUCTION JOB FOR WIDENING							

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

Comment: WIDENING CAPS IN 1983 IN RECONSTRUCTION JOB...

CONCRETE CAPS @BENT #1- RT. END SPALLED W/ REBAR EXP. LT. END END OF CAP IS SPALLED.BENT #2- LT. END SPALLED W/ REBAR EXP. CAP IS DELAMED UNDER BM'S # 1 & #3.BENT #3- RT. END OF OLD CAP. SPALLED W/ REBAR EXP.BENT #4- LT. END CAP IS SPALLED...07/22 no change per this inspection...



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Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



07/22 Elevation photo



07/22 alignment photo



Bent 3 pile 6



07/22 typical deck photo



7/2022... underside of deck typical of all spans



07/22 typical substructure photo



07/22 typical superstructure photo



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Location: .5 M W OF MURFREESBORO

Team Lead: John King, Inspection Date: 07/20/2022

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	



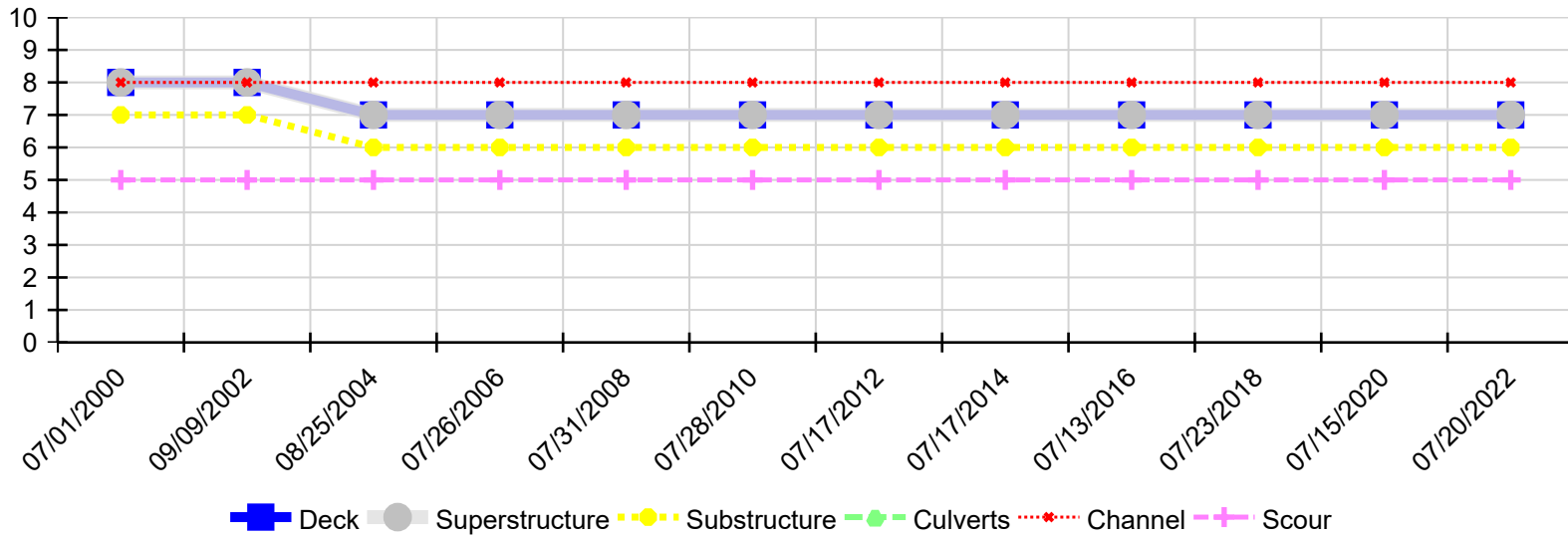
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Location: .5 M W OF MURFREESBORO

Team Lead: John King, Inspection Date: 07/20/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
07/20/2022	7	7	6	N	8	5
07/15/2020	7	7	6	N	8	5
07/23/2018	7	7	6	N	8	5
07/13/2016	7	7	6	N	8	5
07/17/2014	7	7	6	N	8	5
07/17/2012	7	7	6	N	8	5
07/28/2010	7	7	6	N	8	5
07/31/2008	7	7	6	N	8	5
07/26/2006	7	7	6	N	8	5
08/25/2004	7	7	6	N	8	5
09/09/2002	8	8	7	N	8	5
07/01/2000	8	8	7	N	8	5