



Latitude:33.50933, Longitude:-91.82417

Route:425 Section:03 Log:8.17

Arnold Road ID:22x425x3xA, Arnold Log mile:8.172

District 02, 43 - Drew County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

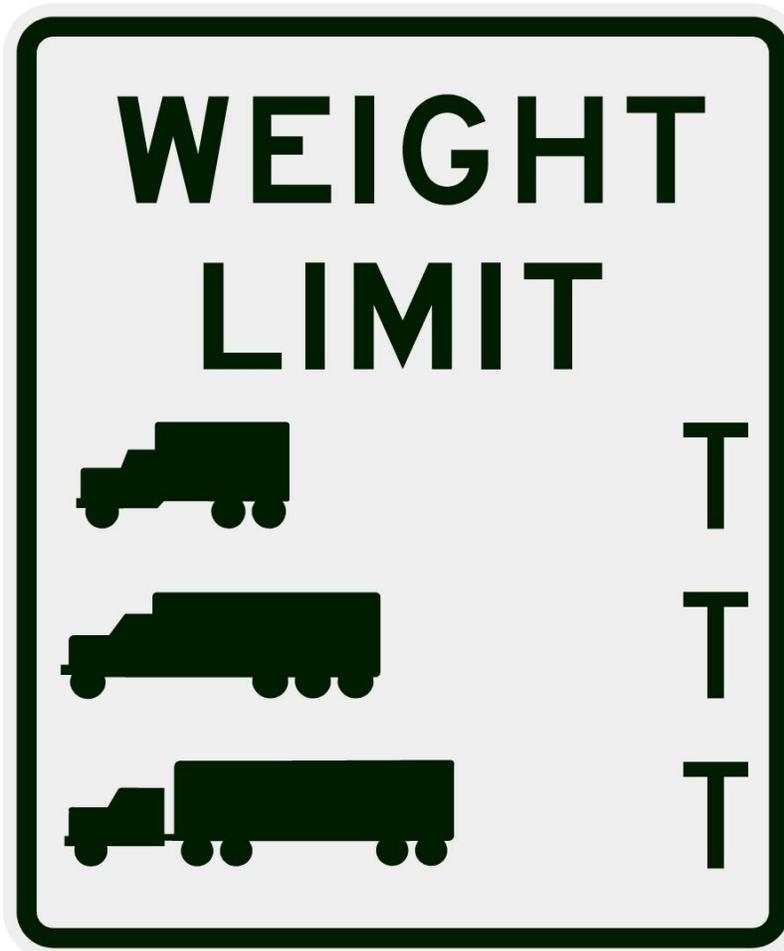
**Bridge Posting Information**

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

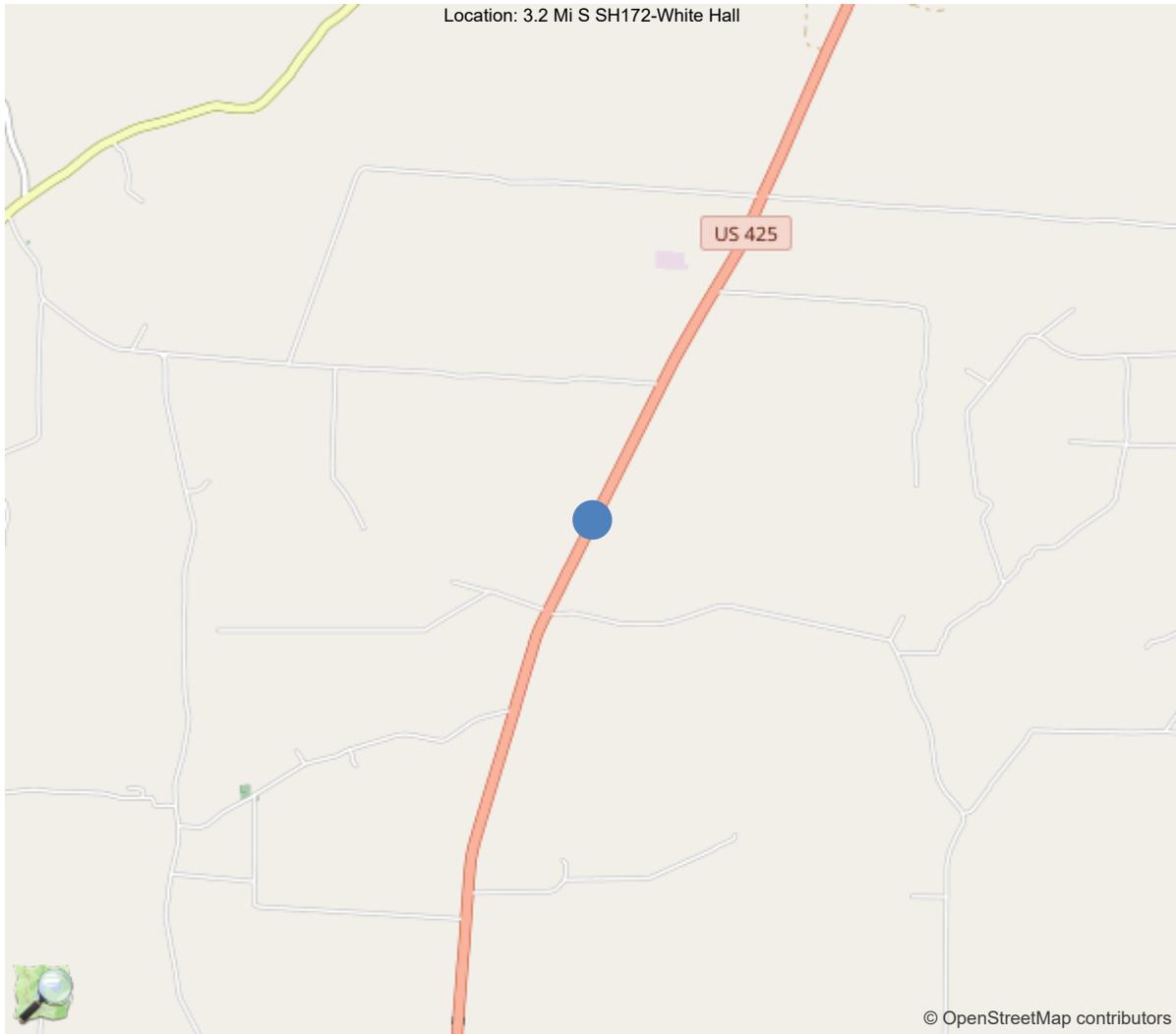
70 - Bridge Posting: 5 - Equal to or above legal loads

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



33.50933, -91.82417



IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	03935
(5) Inventory Route	1
(2) Highway Agency District	02 - District 02
(3) County Code	43 - Drew County
(4) Place Code	0
(6) Features Intersected	Clear Creek
(7) Facility Carried	US 425-03 LM 8.17
(9) Location	3.2 Mi S SH172-White Hall
(11) Mile Point	8.17 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000425030
(16) Latitude	33.50933
(17) Longitude	-91.82417
(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	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	6 - Bituminous
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1965
(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	4300
(30) Year of ADT	2018
(109) Truck ADT	15 %
(19) Bypass, Detour Length	45 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	90 ft
(50) Curb or Sidewalk Width	
Left	1.5 ft
Right	1.5 ft
(51) Bridge Roadway Width Curb to Curb	28 ft
(52) Deck Width Out to Out	33.5 ft
(32) Approach Roadway Width (W/Shoulders)	34.1 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	30.8 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	5 - None present but re-evalua
(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	1
(26) Functional Class	2 - Rural Principal Arterial -
(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	1 - The inventory route is par
(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	7
(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	4
(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	4900
(115) Year of Future ADT	2038

INSPECTIONS *			
(90) Inspection Date			07/25/2023
(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.			



**Asset #03935**(Routine)

**US 425-03 LM 8.17 over Clear Creek**

**Location: 3.2 Mi S SH172-White Hall**

**Team Lead: Greg Loomis Inspection Date: 07/25/2023**

**General Observation**

Bridge is logged from south to north.  
Beginning of structure toward SH 133, Lacey, South End.



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	2700	2698	2	0	0
1130	Cracking (RC and Other)	SF	2	0	2	0	0
510	Wearing Surfaces	SF	2520	358	0	2162	0
3210	Delam/Spall/Patched Area/Pothole	SF	2	0	0	2	0
3220	Crack (Wearing Surface)	SF	2160	0	0	2160	0
<p>(38) Deck: 30' wide (1'-9" STEP-UP each side) x 90' long = 2700 sqft.            Wearing surface: 28' wide x 90' long = 2520 sqft.            Wearing surface - all spans: Minor- to moderate-sized map cracking throughout travel lanes with some transverse cracking and small potholes (spalling) at joints and bridge ends, especially Bent 3 right - 2 sqft CS3 spalling; 2160 sqft CS3 cracking.             Sides of slabs: Some moderate-sized vertical cracking at caps - 2 sqft CS2 cracking.</p>							
215	Reinforced Concrete Abutment	LF	76	76	0	0	0
<p>(215) Abutments: 30'-6" = 31' each (with 3'-6" wings each corner) / Bents 1 &amp; 4.</p>							
227	Reinforced Concrete Pile	EA	10	10	0	0	0
<p>(227) Pile: 5 per bent / Bents 2-3.</p>							
234	Reinforced Concrete Pier Cap	LF	56	52	3	1	0
1080	Delamination/Spall/Patched Area	LF	3	0	3	0	0
1090	Exposed Rebar	LF	1	0	0	1	0
<p>(234) Caps: 30'-6" = 31' each / Bents 2-3.            Bents 2 &amp; 3: Some scattered small spalls - rebar exposed with some initial section loss at Bent 3 - 3' CS2 spalling; 1' CS3 exposed rebar.</p>							
301	Pourable Joint Seal	LF	56	0	0	56	0
2350	Debris Impaction	LF	56	0	0	56	0
<p>(301) Joints: 28' each / Bents 2-3.            No evidence that joint was protected from filling with asphalt during overlay - 56' CS3 debris impaction.</p>							
330	Metal Bridge Railing	LF	180	180	0	0	0
515	Steel Protective Coating	SF	360	0	360	0	0
3410	Chalking (Steel Protective Coatings)	LF	360	0	360	0	0
<p>(330) Metal railing: 90' each side.            Coating: 2.0 square feet per linear feet of railing.            Metal railing on top of concrete curb (railing).            Metal railing is dull and has no luster.</p>							
331	Reinforced Concrete Bridge Railing	LF	180	180	0	0	0
<p>(331) Concrete railing: 90" each side.            Concrete curb (railing) topped with metal railing.</p>							



Right side view



Roadway view



Deck - Spans 1-3: Typical



Soffit - Span 2: Typical

**Maintenance Needs**

Date Reported: 07/21/2021

Priority: D- Routine

Type of Work: Miscellaneous

Status: Open

Component: Deck

**Deficiency Description**

Wearing surface - all spans: Minor- to moderate-sized map cracking throughout travel lanes with some transverse cracking and small potholes (spalling) at joints and bridge ends, especially Bent 3 right.

**Remarks**



Wearing surface - Bent 3: Spalling (pothole)



Approach asphalt as spalling.



Bent 3 spalling to asphalt wearing surface.



Asset #03935(Routine)

US 425-03 LM 8.17 over Clear Creek

Location: 3.2 Mi S SH172-White Hall

Team Lead: Greg Loomis Inspection Date: 07/25/2023

## 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	
A-63 - Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	Yes

**A-54 - Sealable Deck Cracks**

**A-55 - Deck Washing Needed**

**A-56 - Joint Cleaning/Flushing Needed**



**Asset #03935(Routine)**

**US 425-03 LM 8.17 over Clear Creek**

**Location: 3.2 Mi S SH172-White Hall**

**Team Lead: Greg Loomis Inspection Date: 07/25/2023**

**A-57 - Girder End and Bearing Painting Needed**

**A-58 - Cap Cleaning/Flushing Needed**

**A-59 - Joint Repair Needed**

**A-60 - Full Girder 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 (Yes)**



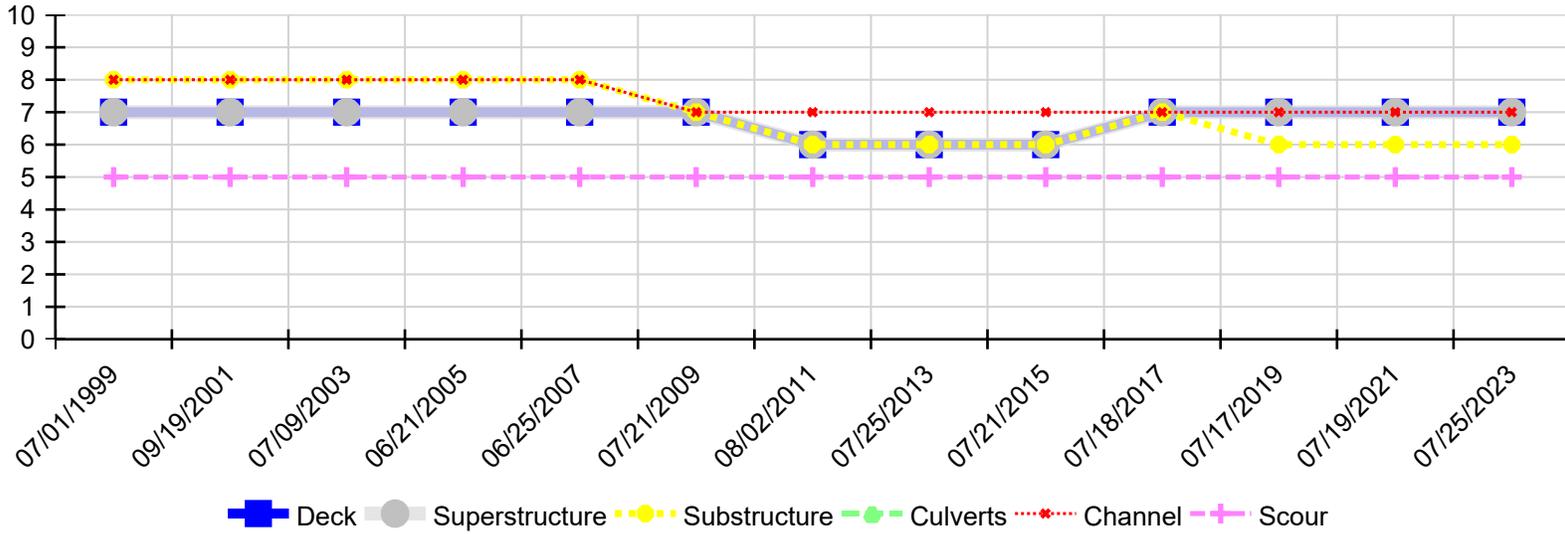
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US 425-03 LM 8.17 over Clear Creek

Location: 3.2 Mi S SH172-White Hall

Team Lead: Greg Loomis Inspection Date: 07/25/2023

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
07/25/2023	7	7	6	N	7	5
07/19/2021	7	7	6	N	7	5
07/17/2019	7	7	6	N	7	5
07/18/2017	7	7	7	N	7	5
07/21/2015	6	6	6	N	7	5
07/25/2013	6	6	6	N	7	5
08/02/2011	6	6	6	N	7	5
07/21/2009	7	7	7	N	7	5
06/25/2007	7	7	8	N	8	5
06/21/2005	7	7	8	N	8	5
07/09/2003	7	7	8	N	8	5
09/19/2001	7	7	8	N	8	5
07/01/1999	7	7	8	N	8	5