

## Bridge 05672 Inspection Report



Latitude:35.03419, Longitude:-91.80783

Route:13 Section:12 Log:0.39

Arnold Road ID:73x13x12xA, Arnold Log mile:0.383

District 05, 145 - White County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

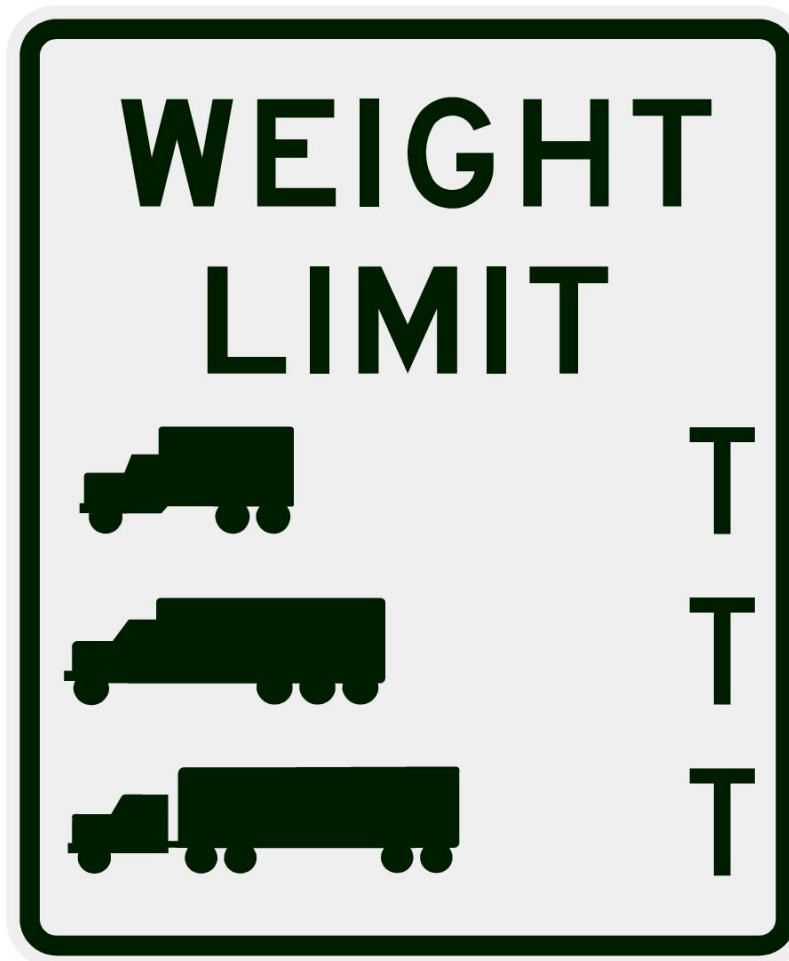
### Bridge Posting Information

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

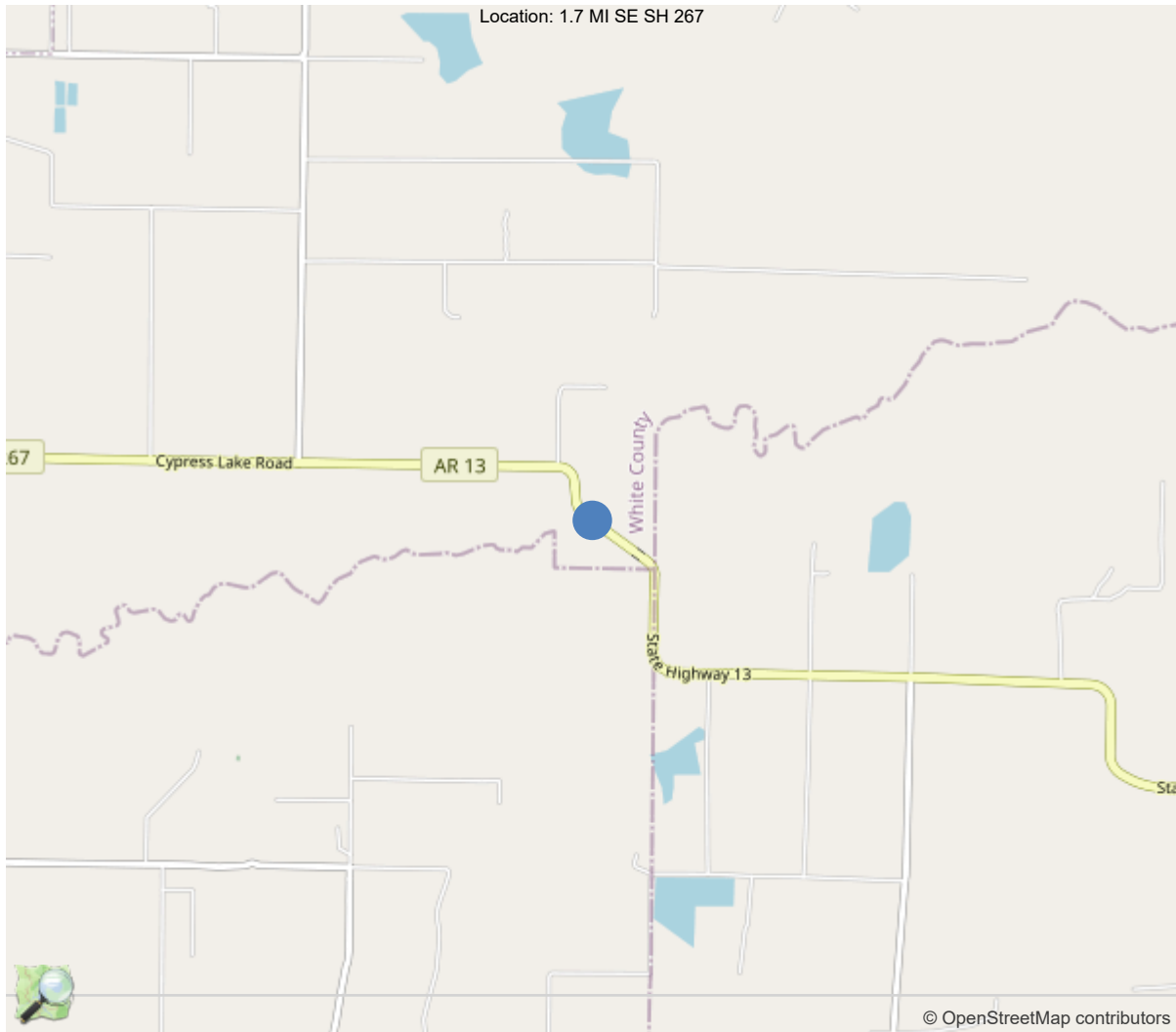
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	34		
Code 9 (31 Tons)	38		
Code 5 (40 Tons)	44		

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



35.03419, -91.80783



# National Bridge Inventory Data Sheet

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05672
(5) Inventory Route	1
(2) Highway Agency District	05 - District 05
(3) County Code	145 - White County
(4) Place Code	0
(6) Features Intersected	CYPRESS CREEK
(7) Facility Carried	SH 13 White County
(9) Location	1.7 MI SE SH 267
(11) Mile Point	0.39 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.03419
(17) Longitude	-91.80783
(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	6
(46) No. of Approach Spans	1
(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	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	670
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	13 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	35 ft
(49) Structure Length	210 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	26.7 ft
(32) Approach Roadway Width (W/Shoulders)	24 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	25.3 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	7 - Rural Major 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	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	6
(59) Superstructure	6
(60) Substructure	7
(61) Channel & Channel Protection	7
(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	50
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	30
(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	1 - Inspected feature meets current
(36C) Approach Guardrail	0 - Inspected feature does not meet
(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	
(114) Future ADT	813
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			06/18/2024
(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: Seth Foreman, Inspection Date: 06/18/2024

### Specifications for National Bridge Inventory Sheets

IDENTIFICATION	
B.ID.01 Bridge Number	05672
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	M3689
B.W.01 Year Built	1978

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	145 - White County
B.L.03 Place Code	00000 - N/A
B.L.04 Highway Agency District	05 - District 05
B.L.05 Latitude	35.03419
B.L.06 Longitude	-91.80783
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	1.7 MI SE SH 267
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	210
B.G.02 Total Bridge Length	210
B.G.03 Max Span Length	35.1
B.G.04 Min Span Length	35
B.G.05 Bridge Width Out-to-Out	26.6
B.G.06 Bridge Width Curb-to-Curb	24
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	0
B.G.12 Curved Bridge	N - Not curved
B.G.13 Max Bridge Height	19
B.G.14 Sidehill Bridge	N - Not a sidehill bridge
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	5580

LOADS AND LOAD RATING	
B.LR.01 Design Load	H15 - H-15
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	0.83
B.LR.06 Operating Load Rating Factor	1.39
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	N - NOT APPLICABLE - Component
B.C.07 Bridge Bearings Cond.	N - NOT APPLICABLE - Component
B.C.08 Bridge Joints Condition	7 - GOOD - Some minor defects.
B.C.09 Channel Condition Rating	7 - GOOD - Some minor defects.
B.C.10 Channel Protection Condition	7 - GOOD - Some minor defects.
B.C.11 Scour Condition Rating	8 - Insignificant scour.
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	1 - Remote - once every 100 years o
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

Team Lead: Seth Foreman, Inspection Date: 06/18/2024

SPAN SETS			
<b>M1</b>			
B.SP.02 # of Spans	6	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	C01 - Concrete - monolithic
B.SP.05 Span Continuity	1 - Simple or single span	B.SP.11 Deck Protective System	0 - None
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			
<b>A1</b>			
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
<b>P1</b>			
B.SB.02 No. of Substructure Units	5	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			
<b>H1</b>			
B.F.02 Feature Location	C - Carried on bridge	B.H.09 Annual ADT	670
B.F.03 Feature Name	SH 13 White County	B.H.10 Annual ADTT	6
B.H.01 Functional Classification	5 - Major 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	25.2
B.H.07 LRS Mile Point	0.39	B.H.17 Bypass Detour Length	13
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	13	2-T - TEMP - Two-way traffic - NS or EW	3 - State route	1 - Mainline



Team Lead: Seth Foreman, Inspection Date: 06/18/2024

## 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	CYPRESS 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 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 #05672(Routine)  
SH 13 White County over CYPRESS CREEK

Location: 1.7 MI SE SH 267

Team Lead: Seth Foreman Inspection Date: 06/18/2024

### Inspection Notes

#### General Observation

Elevation with Log Mile going to the Right.  
Bridge was inspected with hip waders and Skydio S2.

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

Overall deck is in satisfactory condition with cracks to deck throughout and large delaminated areas to undersurface at all spans.

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

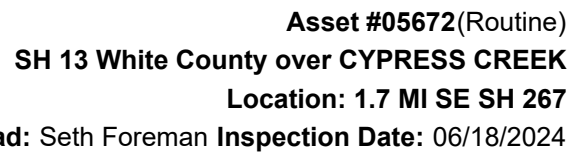
Overall substructure is in good condition with minor spalls with rebar exposed to caps at bents 1 & 2.

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

Roadway with Log Mile running Southeast to Northwest.

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ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	5607	5346	217	44	0
1080	Delamination/Spall/Patched Area	SF	44	0	44	0	0
1120	Efflorescence/Rust Staining	SF	21	0	17	4	0
1130	Cracking (RC and Other)	SF	166	0	156	10	0
1190	Abrasion/Wear (PSC/RC)	SF	30	0	0	30	0
(38) Moderate abrasion to deck @ Span 1. 15' CS 3 Span 2-5 has areas of minor cracking & scaling. 15' CS 3 Cracking insignificant in size & density. 156' CS 2, 10' CS 3 Efflorescent cracks to outside edge of deck on Left & Right sides over all Bents. 15' CS 2, 4' CS 3  Span 1 - 5 - Areas of delaminating & cracking, some with rust stains to soffit to Left & Right side.  Span 1 - has 4' of delaminated area to Rt side undersurface. 4' CS 2 2' of efflorescence to Rt side of undersurface.  Span 2 - has 14' of delaminated area to Lt side of undersurface. 14' CS 2  Span 3 - has 5' of delaminated area to Lt side & 3' of delaminated area to Rt side of undersurface. 8' CS 2  Span 4 - has 22' of delaminated area to Rt side of undersurface. 22' CS 2  Negative camber in deck.							
215	Reinforced Concrete Abutment	LF	67	58	9	0	0
6000	Scour	LF	9	0	9	0	0
(215) Abutment 1 - Erosion under abutment with 2 piles exposed. 6' CS 2 Abutment 2 - Erosion under abutment with 1 pile exposed. 3' CS 2							
227	Reinforced Concrete Pile	EA	28	12	16	0	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
1190	Abrasion/Wear (PSC/RC)	EA	15	0	15	0	0
(227) Minor abrasion to piles @ Bents 2, 3 & 4. 15 CS 2 Bent 3, Pile 3 has spall 1' CS 2							
234	Reinforced Concrete Pier Cap	LF	135	129	2	4	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
1090	Exposed Rebar	LF	3	0	0	3	0
1130	Cracking (RC and Other)	LF	1	0	0	1	0
(234) Bent 1 - Crack to left end of cap. 1' CS 3 Bent 2 - Areas of delaminating & spall with 2' rebar exposed to bottom of cap. 2' CS 3 Spall with no rebar exposed to back side of cap near Pile 2. 1' CS 2 Bent 3 - Spall to back face of cap & spall with 2" rebar exposed to bottom of cap. 1' CS 2 spall, 1' CS 3 rebar							



Asset #05672(Routine)  
SH 13 White County over CYPRESS CREEK  
Location: 1.7 MI SE SH 267

Team Lead: Seth Foreman Inspection Date: 06/18/2024

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
301	Pourable Joint Seal	LF	134	0	0	134	0
2320	Seal Adhesion	LF	134	0	0	134	0
(301) Joint seal is losing adhesion. 134' CS 3							
331	Reinforced Concrete Bridge Railing	LF	420	420	0	0	0



## Inspection Photos and Notes



Elevation with Log Mile going to the Right.



Inventory.



Typical undersurface.



Typical deck.





Right side of Bridge: Channel view.



Left side of Bridge: Channel view.



Spans 1 - 6: minor cracking.



Spans 1 - 5: Minor abrasion.





Abutment 2: Minor erosion causing one pile to be exposed.



Piles: Minor abrasion throughout the structure.



### Maintenance Needs

Date Reported: 06/23/2014

Priority: C - Important

Type of Work: Joint Repair

Status: Monitor

Component: Deck

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### Deficiency Description

Poured joint seals are cracked, deteriorated & leak.

### Remarks

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06/04/2020

Poured joint seals are cracked, deteriorated & leak.



06/04/2020

Poured joint seals are cracked, deteriorated & leak.

### Maintenance Needs

Date Reported: 06/29/2012

Priority: D- Routine

Type of Work: Substructure Repair

Status: Monitor

Component: Substructure

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### Deficiency Description

Spalls to cap with rebar exposed to Bents 2 & 3.

### Remarks

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Spalls to cap with rebar exposed to Bents 2 & 3.  
Bent 3.



Spalls to cap with rebar exposed to Bents 2 & 3.  
Bottom of cap between piles 3 & 4 @ bent 3.

### Maintenance Needs

**Date Reported:** 06/29/2012

**Priority:** D- Routine

**Type of Work:** Deck Repair

**Status:** Monitor

**Component:** Deck

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### Deficiency Description

Unsealed cracks to deck.

Typical deck cracking on Left & Right edges of deck over Bents.

### Remarks

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Unsealed cracks to deck.



Typical deck cracking on Left & Right edges of deck over Bents.



### Maintenance Needs

Date Reported: 06/29/2012

Priority: D- Routine

Type of Work: Substructure Repair

Status: Monitor

Component: Substructure

### Deficiency Description

Scour under Abutment 1 with 2 piles exposed & under Abutment 2 with 1 pile exposed.

### Remarks



06/20/2024

Scour under Abutment 1 with 2 piles exposed & under Abutment 2 with 1 pile exposed.  
Abutment 2.



06/20/2024

Scour under Abutment 1 with 2 piles exposed & under Abutment 2 with 1 pile exposed.  
Abutment 1.



06/19/2024

Abutment 1, Right, Approach Roadway: Pothole from erosion.



## 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	Yes
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?	
A-66 - Approach minor pothole/leveling needed	

**A-54 - Sealable Deck Cracks (Yes)**

**A-55 - Deck Washing Needed (No)**

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



**Asset #05672**(Routine)  
**SH 13 White County over CYPRESS CREEK**

**Location: 1.7 MI SE SH 267**

**Team Lead: Seth Foreman Inspection Date: 06/18/2024**

**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 (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?**



**Asset #05672**(Routine)

**SH 13 White County over CYPRESS CREEK**

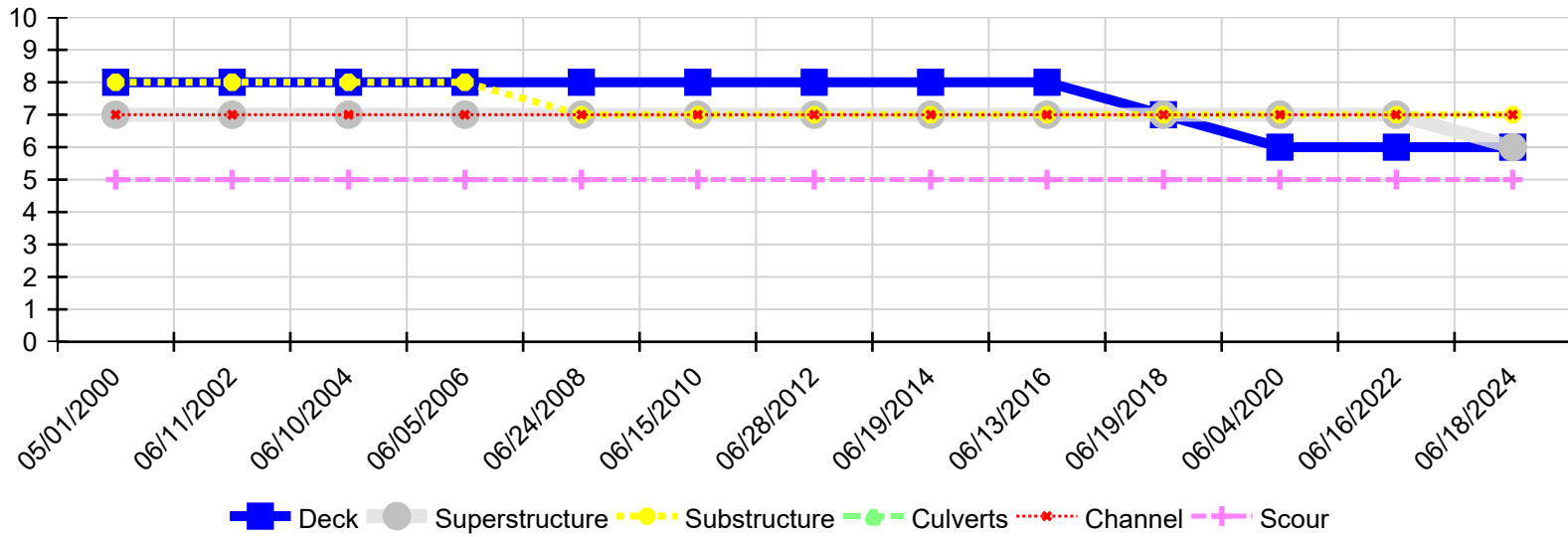
**Location: 1.7 MI SE SH 267**

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**A-66 - Approach minor pothole/leveling needed**



Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
06/18/2024	6	6	7	N	7	5
06/16/2022	6	7	7	N	7	5
06/04/2020	6	7	7	N	7	5
06/04/2020	6	7	7	N	7	5
06/19/2018	7	7	7	N	7	5
06/13/2016	8	7	7	N	7	5
06/19/2014	8	7	7	N	7	5
06/28/2012	8	7	7	N	7	5
06/15/2010	8	7	7	N	7	5
06/24/2008	8	7	7	N	7	5
06/05/2006	8	7	8	N	7	5
06/10/2004	8	7	8	N	7	5
06/11/2002	8	7	8	N	7	5
05/01/2000	8	7	8	N	7	5