



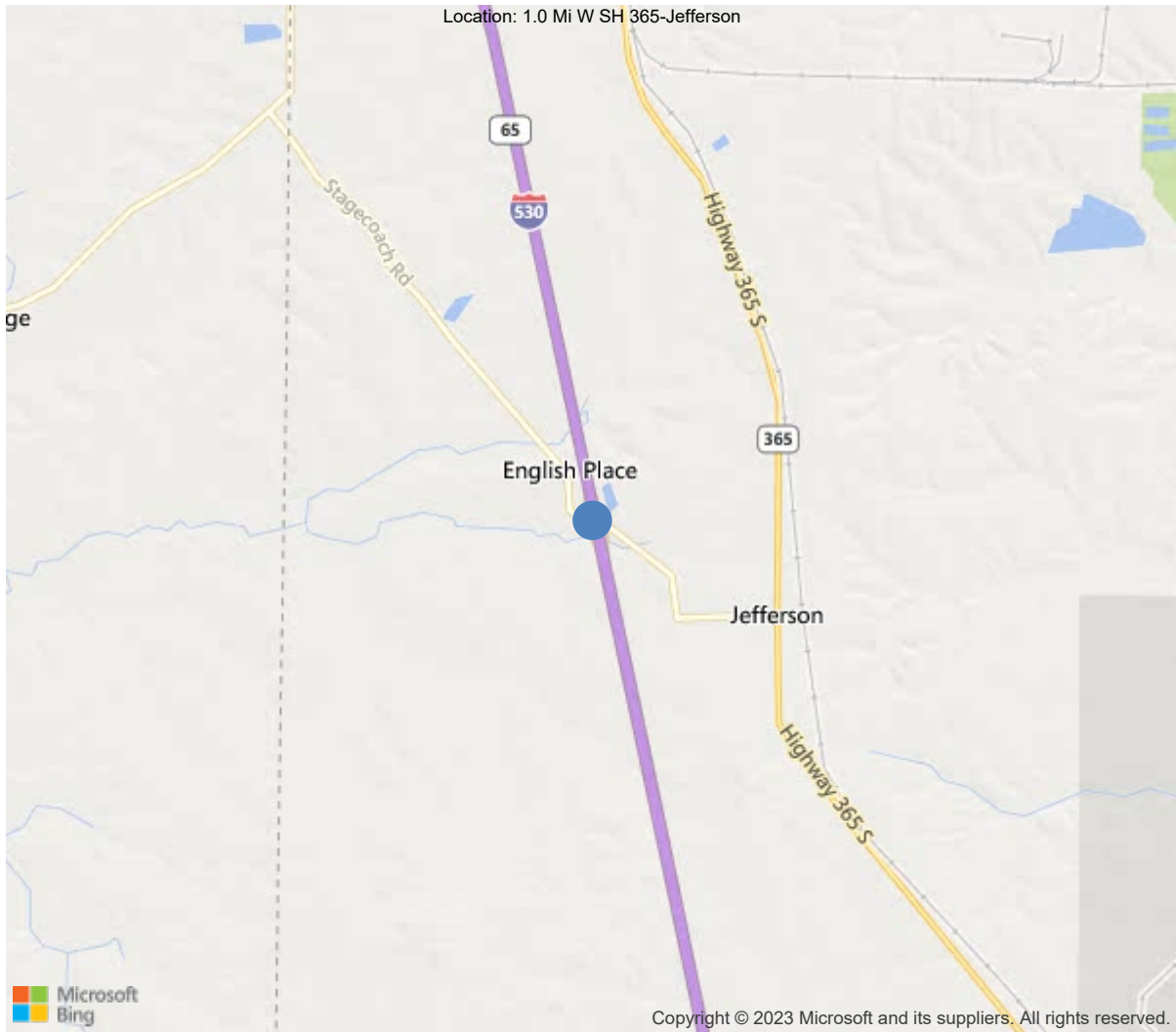
Latitude:34.38728, Longitude:-92.18220

Route:530 Section:05 Log:23.76

Arnold Road ID:35x530x5xA, Arnold Log mile:23.763

District 02, 69 - Jefferson County

Owner: 1 - State Highway Agency



34.38728, -92.18220



Asset #A5612(Routine)

I-530 SB LM 23.76 over CR 117 (Jefferson)

Location: 1.0 Mi W SH 365-Jefferson

Team Lead: Sharon Hooks, Inspection Date: 02/14/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	A5612
(5) Inventory Route	1
(2) Highway Agency District	02 - District 02
(3) County Code	69 - Jefferson County
(4) Place Code	0
(6) Features Intersected	CR 117 (Jefferson)
(7) Facility Carried	I-530 SB LM 23.76
(9) Location	1.0 Mi W SH 365-Jefferson
(11) Mile Point	23.76 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000530050
(16) Latitude	34.38728
(17) Longitude	-92.1822
(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	1 - Monolithic Concrete (concurrently pl
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1975
(106) Year Reconstructed	0
(42) Type of Service	11
On	1 - Highway
Under	1 - Highway, with or without pedestrian
(28) Lane	
On	2
Under	2
(29) Average Daily Traffic	12488
(30) Year of ADT	2018
(109) Truck ADT	12 %
(19) Bypass, Detour Length	9 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	62 ft
(49) Structure Length	147 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	39 ft
(52) Deck Width Out to Out	42 ft
(32) Approach Roadway Width (W/Shoulders)	40 ft
(33) Bridge Median	0 - No median
(34) Skew	30 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	39 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	16 ft
Ref:	
(55) Min Lat Underclear RT	16 ft
Ref:	
(56) Min Lat Underclear LT	14 ft
NAVIGATION DATA	
(38) Navigation Control	N - Not applicable, no waterwa
(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	1 - Rural Principal Arterial -
(100) Defense Highway	1 - The inventory route is on
(101) Parallel Structure	R - The right structure of par
(102) Direction of Traffic	1 - 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	6
(59) Superstructure	8
(60) Substructure	7
(61) Channel & Channel Protection	N
(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	7
(68) Deck Geometry	6
(69) Clearances, Vertical/Horizontal	7
(71) Waterway Adequacy	N
(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	N - Bridge not over waterway.
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	35100
(115) Year of Future ADT	2038

INSPECTIONS *			
(90) Inspection Date	02/14/2022		
(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.			



Asset #A5612(Routine)

District: 02, County: 69 - Jefferson County

Team Lead: Sharon Hooks, Inspection Date: 02/14/2022

General Observation

Bridge is logged from north to south (from Little Rock - I-30 junction)
Under-route (CR 117) is logged from northwest to southeast.

A-46 - Asset Files

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Asset #A5612(Routine)

I-530 SB LM 23.76 over CR 117 (Jefferson)

Location: 1.0 Mi W SH 365-Jefferson

Team Lead: Sharon Hooks, Inspection Date: 02/14/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	6048	4459	956	633	0
1080	Delamination/Spall/Patched Area	SF	9	0	6	3	0
1120	Efflorescence/Rust Staining	SF	25	0	25	0	0
1130	Cracking (RC and Other)	SF	1555	0	925	630	0
(12) Deck: 42' wide x 144' long = 6048 sqft. All spans: Unsealed, moderate-sized transverse & longitudinal cracks with some reflective efflorescence showing on soffit, mainly in right (outside) lane. Span 2 right (outer) lane: A couple small areas of cracking and active spalling - concrete beginning to come loose. (CS3 6' sqft) Small pothole (currently filled with concrete) near centerline in Span 2. Deck overhangs: Some cracking with efflorescence - approximately 5' intervals.							
107	Steel Open Girder/Beam	LF	720	720	0	0	0
515	Steel Protective Coating	SF	5306	0	5306	0	0
3410	Chalking (Steel Protective Coatings)	LF	4245	0	4245	0	0
3420	Peeling/Bubbling/Cracking	LF	1061	0	1061	0	0
(107) Girders: 5 (continuous) per span / Spans 1-3 (41' - 62' - 41' = 144' total span). Coating (W30x99): 7.37 square feet per linear feet of girder. Coating: A few scattered areas beginning to flake and peel, mainly exterior of outer girders. Remaining areas are dull and paint has no luster. NOTE: Outside girders and end of interior girders repainted with test paint in 2000.							
205	Reinforced Concrete Column	EA	6	5	1	0	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
(205) Columns: 3 per bent / Bents 2 & 3. Bent 2 Column 2: Shallow spalling (collision/fire damage) on left side from groundline up 6'.							
215	Reinforced Concrete Abutment	LF	122	22	10	90	0
1120	Efflorescence/Rust Staining	LF	15	0	0	15	0
1130	Cracking (RC and Other)	LF	85	0	10	75	0
(215) Abutments: 45'-0 3/8" = 46' each (skewed - plus approximately 15' wings/total each bent) / Bents 1 & 4. Bent 1 - Abutment: A few scattered cracks and efflorescence. Bent 4 - Abutment: Cracking on entire element.							
234	Reinforced Concrete Pier Cap	LF	86	84	2	0	0
1010	Cracking	LF	2	0	2	0	0
(234) Caps: 43' each (skewed) / Bents 2 & 3. Bent 2 cap at column 1 ahead at step down has a crack and is common at Bent 3 cap at column 1.							
302	Compression Joint Seal	LF	96	8	58	30	0
2340	Seal Cracking	LF	88	0	58	30	0

Team Lead: Sharon Hooks, **Inspection Date:** 02/14/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(302) Joints: 48' each (skewed) / Bents 1 & 4. Bent 1: Some minor vibration and noise beginning to come from road iron, mainly in right (outside) lane, but there is no areas of adjacent concrete that are cracking, spalling, or appearing to come lose. Bent 1 - Joint material is cracking with heaviest damage on centerline. Bent 4- Joint material is cracking with heaviest damage on inside shoulder and lane.							
311	Movable Bearing	EA	15	5	0	10	0
1000	Corrosion	EA	9	0	0	9	0
1020	Connection	EA	1	0	0	1	0
515	Steel Protective Coating	SF	45	15	0	0	30
3440	Effectiveness (Steel Protective Coatings)	EA	30	0	0	0	30
(311) Moveable bearing: 5 per bent / Bents 1, 3, & 4. Coating: 3 square feet each. Bent 1 Bearing 3: Anchor nut missing on right side. Bent 4 Bearing 2: Bearing has some "play" around pin - minor (1/4-3/8") vertical movement under traffic. Bent 4 Bearing 4: Anchor bolt corrosion has allowed bolt to break off. Bent 1 & 4 bearings are have light corrosion with some pack rust between rockers and masonry plates.							
313	Fixed Bearing	EA	5	0	5	0	0
1000	Corrosion	EA	5	0	5	0	0
515	Steel Protective Coating	SF	15	15	0	0	0
(313) Fixed bearings: 5 per bent / Bent 2. Coating: 3 square feet each.							
321	Reinforced Concrete Approach Slab	SF	1920	1920	0	0	0
(321) Approach slabs: 1920 square feet /Bents 1 (24' wide x 37' long) & 4 (24'wide x 43' long). NOTE: Approach slabs has been replaced under construction projects.							
330	Metal Bridge Railing	LF	294	294	0	0	0
515	Steel Protective Coating	SF	625	625	0	0	0
(330) Railing: 147' each side. Coating: 2.13 square feet per linear feet of railing. Concrete curb topped with metal railing.							
331	Reinforced Concrete Bridge Railing	LF	294	294	0	0	0
(331) Railing: 147' each side. Concrete curb topped with metal railing.							

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	6048	4459	956	633	0
1080	Delamination/Spall/Patched Area	SF	9	0	6	3	0
1120	Efflorescence/Rust Staining	SF	25	0	25	0	0
1130	Cracking (RC and Other)	SF	1555	0	925	630	0
<p>(12) Deck: 42' wide x 144' long = 6048 sqft.</p> <p>All spans: Unsealed, moderate-sized transverse & longitudinal cracks with some reflective efflorescence showing on soffit, mainly in right (outside) lane.</p> <p>Span 2 right (outer) lane: A couple small areas of cracking and active spalling - concrete beginning to come loose. (CS3 6' sqft)</p> <p>Small pothole (currently filled with concrete) near centerline in Span 2.</p> <p>Deck overhangs: Some cracking with efflorescence - approximately 5' intervals.</p>							

Asset #A5612(Routine)

Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	6	5	1	0	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
(205) Columns: 3 per bent / Bents 2 & 3. Bent 2 Column 2: Shallow spalling (collision/fire damage) on left side from groundline up 6'.							
215	Reinforced Concrete Abutment	LF	122	22	10	90	0
1120	Efflorescence/Rust Staining	LF	15	0	0	15	0
1130	Cracking (RC and Other)	LF	85	0	10	75	0
(215) Abutments: 45'-0 3/8" = 46' each (skewed - plus approximately 15' wings/total each bent) / Bents 1 & 4. Bent 1 - Abutment: A few scattered cracks and efflorescence. Bent 4 - Abutment: Cracking on entire element.							
234	Reinforced Concrete Pier Cap	LF	86	84	2	0	0
1010	Cracking	LF	2	0	2	0	0
(234) Caps: 43' each (skewed) / Bents 2 & 3. Bent 2 cap at column 1 ahead at step down has a crack and is common at Bent 3 cap at column 1.							



Asset #A5612(Routine)

I-530 SB LM 23.76 over CR 117 (Jefferson)

Location: 1.0 Mi W SH 365-Jefferson

Team Lead: Sharon Hooks, Inspection Date: 02/14/2022

Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Elevation.



Bent 4 abutment has map cracking on step down.



Bent 4 abutment at bearing 2 has corrosion.



Bent 2 column 2 has cracking and spalls.



Bent 1 left bearing 1 has corrosion.



Under view.



Bent 1 left at abutment has cracking with efflorescence.



Bent 1 joint seals torn and leaking.



Deck over view.



Approach.

Maintenance Needs

Date Reported: 01/18/2012

Priority: (Inactive) (Inactive) G - General/
Preventive maintenance

Status: Monitor

Type of Work: Repair (General)

Component: Element

Deficiency Description

Deck – all spans: Unsealed, moderate-sized transverse & longitudinal cracks with some reflective efflorescence showing on soffit, mainly in right (outside) lane.

Remarks



Maintenance Needs

Date Reported: 01/18/2012

Priority: (Inactive) (Inactive) G - General/
Preventive maintenance

Status: Monitor

Type of Work: Repair (General)

Component: Element

Deficiency Description

Bearing 3 @ Bent 1: Anchor nut missing on right side.

Remarks



Bent 1 - Bearing 3: Missing nut

Maintenance Needs

Date Reported: 01/22/2018

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Bearing 4 @ Bent 4: Anchor bolt corrosion has allowed bolt to break off.

Remarks



Bent 4 - Bearing 4: Missing bolt

Maintenance Needs

Date Reported: 01/22/2018

Priority: C - Important

Type of Work: Repair (General)

Status: Assigned

Component: Approach

Deficiency Description

Signs - Bent 1 right: No log mile sign - object marker and post in place.

Sign should read "530 - 5
+
23.76"

Remarks



Roadway view



Asset #A5612(Routine)

I-530 SB LM 23.76 over CR 117 (Jefferson)

Location: 1.0 Mi W SH 365-Jefferson

Team Lead: Sharon Hooks, Inspection Date: 02/14/2022

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	



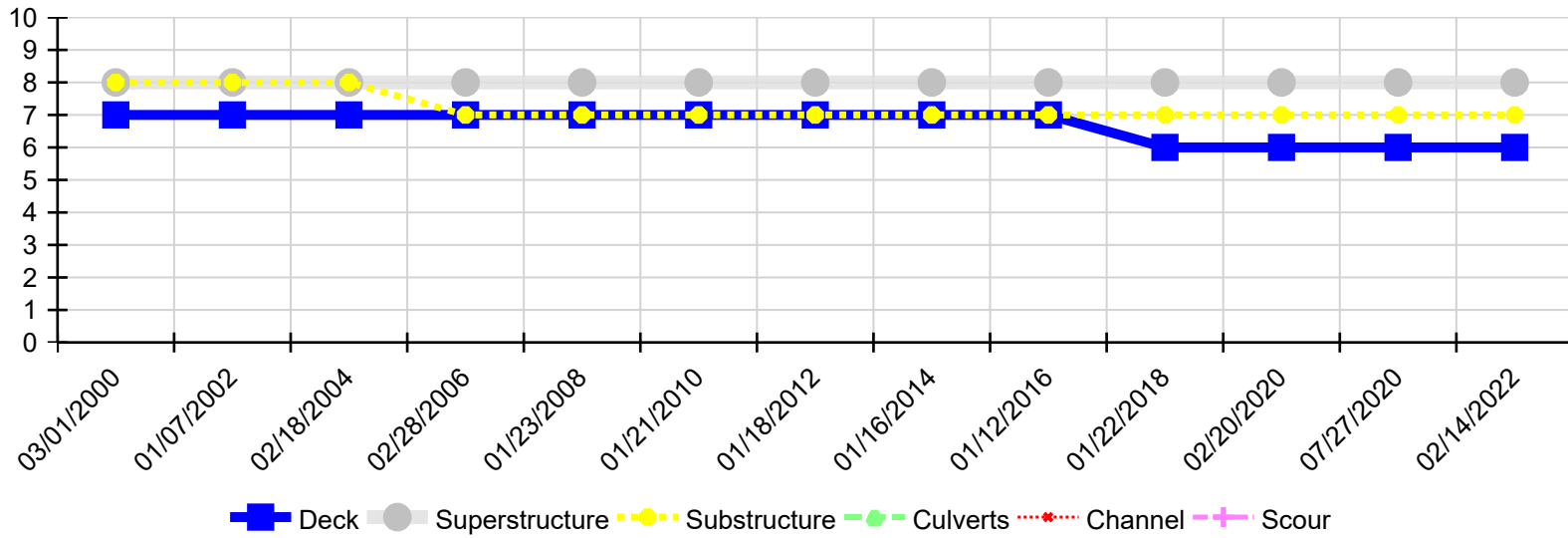
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Location: 1.0 Mi W SH 365-Jefferson

Team Lead: Sharon Hooks, Inspection Date: 02/14/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
02/14/2022	6	8	7	N	N	N
07/27/2020	6	8	7	N	N	N
02/20/2020	6	8	7	N	N	N
01/22/2018	6	8	7	N	N	N
01/12/2016	7	8	7	N	N	N
01/16/2014	7	8	7	N	N	N
01/18/2012	7	8	7	N	N	N
01/21/2010	7	8	7	N	N	N
01/23/2008	7	8	7	N	N	N
02/28/2006	7	8	7	N	N	N
02/18/2004	7	8	8	N	N	N
01/07/2002	7	8	8	N	N	N
03/01/2000	7	8	8	N	N	N