

Structure Inventory and Appraisal Sheet (English Units)

Bridge Key: 5548 Agency ID: 048B00030N SR: 30 SD/FO: FO

IDENTIFICATION

State 1: 21 Kentucky Struc Num 8: 048B00030N
 Facility Carried 7: KY-72 Location 9: .10 MI S OF JCT KY 1216
 Rte.(On/Under)5A: Route On Structure Rte. Signing Prefix 5B: 3 State Hwy
 Level of Service 5C: 1 Mainline Rte. Number 5D: 00072
 Directional Suffix 5E: 0 N/A (NBI) % Responsibility : Unknown
 SHD District 2: District 11 County Code 3: Harlan (048)
 Place Code 4: FIPS 0000 Mile Post 11: 6.559 mi
 Feature Intersected 6: CATRON CREEK
 Latitude 16: 36d 46' 29" Longitude 17: 083d 19' 58"
 Border Bridge Code 98: Unknown (P)
 Border Bridge Number 99:

INSPECTION

Frequency 91: 24 months Inspection Date 90: 6/20/2012 Next Inspection: 06/20/2014
 FC Frequency 92A: NA FC Inspection Date 93A: NA Next FC Inspection: NA
 UW Frequency 92B: NA UW Inspection Date 93B: NA Next UW Inspection: NA
 SI Frequency 92C: NA SI Date 93C: NA Next SI: NA
 Element Frequency: 24 months Element Inspection Date: 06/20/2012 Next Elem. Insp. Due: 06/20/2014

CLASSIFICATION

Defense Highway 100: 0 Not a STRAHNET hwy Parallel Structure 101: No || bridge exists
 Direction of Traffic 102: 2 2-way traffic Temporary Structure 103: Not Applicable (P)
 Highway System 104: 0 Not on NHS NBIS Length 112: Long Enough
 Toll Facility 20: 3 On free road Functional Class 26: 09 Rural Local
 Defense Hwy 110: 0 Not a STRAHNET hwy Historical Significance 37: 5 Not eligible for NRHP
 Owner 22: 01 State Highway Agency
 Custodian 21: 01 State Highway Agency

STRUCTURE TYPE AND MATERIALS

Number of Approach Spans 46: 0 Number of Spans Main Unit 45: 3
 Main Span Material/Design 43A/B:
 3 Steel 02 Stringer/Girder
 Deck Type 107: 1 Concrete-Cast-in-Place
 Wearing Surface 108A: 6 Bituminous
 Membrane 108B: 0 None
 Deck Protection 108C: None

CONDITION

Deck 58: 5 Fair Super 59: 5 Fair Sub 60: 6 Satisfactory
 Culvert 62: N N/A (NBI) Channel/Channel Protection 61: 4 Protection Undermined

LOAD RATING AND POSTING

Inventory Rating Method 65: 2 AS Allowable Stress: Operating Rating Method 63: 2 AS Allowable Stress
 Inventory Rating 66: HS10.0 Operating Rating 64: HS18.9
 Design Load 31: 4 M 18 (H 20) Posting 70: 5 At/Above Legal Loads
 Posting status 41: A Open, no restriction

AGE AND SERVICE

Year Built 27: 1964 Year Reconstructed 106: -4
 Type of Service on 42A: 1 Highway
 Type of Service under 42B: 5 Waterway
 Lanes on 28A: 2 Lanes Under 28B: 0 Detour Length 19: 98.8 mi
 ADT 29: 1,290 Truck ADT 109: % Year of ADT 30: 2011

APPRAISAL

Bridge Rail 36A: 0 Substandard Approach Rail 36C: 0 Substandard
 Transition 36B: 0 Substandard Approach Rail Ends 36D: 0 Substandard
 Str. Evaluation 67: 4 Deck Geometry 68: 2 Intolerable - Replace
 Underclearance, Vertical and Horizontal 69: N Not applicable (NBI)
 Waterway Adequacy 71: 4 Tolerable Approach Alignment 72: 6 Equal Min Criteria
 Scour Critical 113: 6 Stable Above Footing

GEOMETRIC DATA

Length Max Span 48: 44.0 ft Structure Length 49: 140.1 ft
 Curb/Sidewalk Width L 50A: 0.3 ft Curb/Sidewalk Width R 50B: 0.3 ft
 Width Curb to Curb 51: 20.0 ft Width Out to Out 52: 21.0 ft
 Approach Roadway Width 32: 18.0 ft Median 33: 0 No median (w/ shoulders)
 Deck Area: 2,942 sq. ft
 Skew 34: 45.00 ° Structure Flared 35: 0 No flare
 Vertical Clearance 10: 99.99 ft Horiz. Clearance 47: 19.89 ft
 Minimum Vertical Clearance Over Bridge 53: 328.1 ft
 Minimum Vertical Underclearance Reference 54A: N Feature not hwy or RR
 Minimum Vertical Underclearance 54B: 0.0 ft
 Minimum Lateral Underclearance Reference R 55A: N Feature not hwy or RR
 Minimum Lateral Underclearance R 55: 0.0 ft
 Minimum Lateral Underclearance L 56: 0.0 ft

PROPOSED IMPROVEMENTS

Bridge Cost 94: \$ 441,000 Type of Work 75: 31 Repl-Load Capacity
 Roadway Cost 95: \$ 0 Length of Improvement 76: 14.1 ft
 Total Cost 96: \$ 441,000 Future ADT 114: 1,573
 Year of Cost Estimate 97: 1994 Year of Future ADT 115: 2031

NAVIGATION DATA

Navigation Control 38: 0 Permit Not Required
 Vertical Clearance 39: 0.0 ft Horizontal Clearance 40: 0.0 ft
 Pier Protection 111: Not Applicable (P) Lift Bridge Vertical Clearance 116: 0.0 ft

ELEMENT CONDITION STATE DATA

Str Unit	Elm/Env	Description	Units	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4	% in 5	Qty. St. 5
1	13/1	Unp Conc Deck/AC Ovl	(SF)	2,830	100 %	2,830	0 %	0	0 %	0	0 %	0	0 %	0
1	107/1	Paint Stl Opn Girder	(LF)	1,350	7 %	100	81 %	1,100	10 %	140	1 %	10	0 %	0
1	211/1	Other Mtl Pier Wall	(LF)	68	0 %	0	100 %	68	0 %	0	0 %	0	0 %	0
1	217/1	Other Mtl Abutment	(LF)	96	0 %	0	100 %	96	0 %	0	0 %	0	0 %	0
1	234/1	R/Conc Cap	(LF)	150	0 %	0	100 %	150	0 %	0	0 %	0	0 %	0
1	313/1	Fixed Bearing	(EA)	60	0 %	0	42 %	25	58 %	35	0 %	0	0 %	0

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1	333/1	Other Bridge Railing	(LF)	272	0 %	0	100 %	272	0 %	0	0 %	0	0 %	0
1	357/1	Pack Rust Smart Flag	(EA)	1	0 %	0	100 %	1	0 %	0	0 %	0	0 %	0
1	358/1	Deck Cracking SmFlag	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
1	359/1	Soffit Smart Flag	(EA)	1	0 %	0	0 %	0	100 %	1	0 %	0	0 %	0
1	361/1	Scour Smart Flag	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
1	503/1	Curbs	(LF)	283	0 %	0	100 %	283	0 %	0	0 %	0	0 %	0
1	602/1	Vibrati/Oscillation	(EA)	1	0 %	1	0 %	0	0 %	0	0 %	0	0 %	0
1	605/1	Transitions	(EA)	1	0 %	0	100 %	1	0 %	0	0 %	0	0 %	0

Str Unit	Elm/Env	Description	Element Notes
1	13/1	Concrete Deck - Unprotected w/ AC	13/1 AT THE NORTH EAST APPROACH THERE IS A 8" DIA. HOLE THRU DECK IT HAS BEEN PATCHED BEFORE WITH ASPHALT BUT IT HAS FALLEN OUT. SEE PHOTO. THE ASPHALT IS PEELING OFF IN SEVERAL PLACES.
1	107/1	Painted Steel Open Girder/Beam	RUST FORMING THRUOUT. MINOR SECT. LOSS. PAINT FLAKING OFF
1	211/1	Other Material Pier Wall	WEATHERING.
1	217/1	Other Material Abutment	MINOR CRKS, WEATHERING, SOME MORTAR MISSING N. ABUT.
1	234/1	Reinforced Conc Cap	MINOR CRKS, WEATHERING, SCALING
1	313/1	Fixed Bearing	RUST, CORROSION, SECT. LOSS THRUOUT
1	333/1	Other Bridge Railing	RUST, CORROSION, MINOR BENDING
1	357/1	Pack Rust	357/1 THE ROCKERS HAVE PACK RUST AND SECTION LOSS
1	358/1	Deck Cracking	CRKS @ JOINTS & UNDERNEATH
1	359/1	Soffit of Concrete Deck or Slab	LEACHING, CRKS MANY LOC. SPALLS @ JOINTS UNDERNEATH
1	361/1	Scour	@ N. ABUT.
1	503/1	Reinforced Concrete Curbs and T	SCALING
1	602/1	Vibrati/Oscillation	602/1 WE OBSERVED THE BRIDGE DEFLECTING SEVERAL INCHES AND VIBRATING UNDER LOAD. NOTICEABLE MORE IN SP1
1	605/1	Transitions (Approach/Deck)	605/1 THE PAVEMENT AT BOTH APPROACHES CRACKED AND ROUGH NEEDS PATCHED

BRIDGE NOTES

THE PAINT IS FLAKING OFF BEAMS EXPOSING AREAS OF RUST. THE BEARINGS HAVE PACK RUST AND SOME SECTION LOST. THE ASPHALT OVERLAY IS ROUGH IN PLACES SOME OF THE PAVEMENT HAS PEELED OFF. THE DRAINS NEED OPENED.

PAST INSPECTION

Inspection Date: 06/20/2012 Type: 2 Standard (24 months)
 Inspector: DALEXANDER Pontis User Key: DALEXANDER - C

Scope:

NBI: Other: Element:
 Underwater: Fracture Critical:

INSPECTION NOTES

THE VINES NEED CUT AND SPRAYED. CHANNEL NEEDS CLEANED AND REALIGNED. DIRT AND GRASS AT THE CURBLINE OF THE DECK NEEDS CLEANED OFF.