90 Inspection Date - 4/15/15
Inspector - LBOLLER (284)

056B00147L - **8 Bridge ID**
Standard -**Primary Inspection Type**

Inspection Report with SI&A Data

Structure Description: 71.29 Foot - Single Span Concrete Frame (except frame culverts)
2 District: 05 **3 County:** Jefferson **16 Latitude:** 38°14'33.00" **7 Longitude:** 85°41'39.00"
7 Facility Carried I-64 WB **Milepoint:** 0.100
6A Feature Intersected: BEALS BRANCH RD
9 Location: WBL 300' E OF TUNNEL
Structure Description: 71.29 Foot - Single Span Concrete Frame (except frame culverts)

NBI	X
Element	X
Fracture Critical	
Underwater	
Special	

NBI CONDITION RATINGS

58 Deck:	5	**61 Channel:**	N
59 Superstructure:	6	**62 Culvert:**	N
60 Substructure:	6	**Sufficiency Rating:**	91

DESIGN

Substandard:	No
Fracture Critical:	No FC Details
43A Main Span Material:	(1) Concrete
43B Main Span Design:	(07) Frame
45 Number of Spans Main:	1
44A Approach Span Material:	Not Applicable
44B Approach Span Design:	Not Applicable
46 Number of Approach Spans:	0
107 Deck Type:	(1) Concrete-Cast-in-Place
108A Wearing Surface:	(3) Latex Concrete/Similar
108B Membrane:	(0) None
108C Deck Protection:	(0) None
Overlay Y/N:	Yes
Overlay Type:	Latex
Overlay Thickness:	1.300 in
Overlay Date:	2001

APPRAISAL

36A Bridge Railings:	(1) Meets Standards
36B Transitions	(1) Meets Standards
36C Approach Guardrail:	(1) Meets Standards
36D Approach Guardrail Ends:	(1) Meets Standards
71 Waterway Adequacy:	(N) Not Applicable
72 Approach Alignment:	(8) Equal Desirable Crit
113 Scour Critical:	(N) Not over Waterway
Recommended Scour Critical:	(N) Not over Waterway

LOAD RATINGS

63 Operating Type:	(1) Load Factor (LF)
64 Operating Rating:	60.0 tons
65 Inventory Type:	(1) Load Factor (LF)
66 Inventory Rating:	36.0 tons
Truck Capacity Type I:	tons
Truck Capacity Type II:	tons
Truck Capacity Type III:	tons
Truck Capacity Type IV:	tons

GEOMETRIC DATA

48 Max Length Span:	64.000 ft
49 Structure Length:	71.293 ft
32 Approach Roadway:	-3.281 ft
33 Median:	(0) No Median
34 Skew:	11°
35 Flare:	No Flare
50A Curb/Sidewalk Width L:	0.000 ft
50B Curb/Sidewalk Width R:	0.000 ft
47 Horiz. Clearance:	38.386 ft
51 Width Curb to Curb:	-3.281 ft
52 Width Out to Out:	42.670 ft
48 Max Length Span:	64.000 ft

ADMINISTRATIVE

27 Year Built:	1970
106 Year Reconstructed:	0
42A Type of Service On:	(1) Highway
42B Type of Service Under:	(1) Highway
37 Historical Significance:	(5) Not Eligible
21 Maintenance Responsibility:	(01) State Hwy Agency
22 Owner:	(01) State Hwy Agency
101 Parallel Structure:	(L) Left Of II Structure
52 Width Out to Out:	42.670 ft

CLEARANCES

10 Vert. Clearance:	99.999 ft
53 Min. Vert. Clearance Over:	99.999 ft
54A Vert. Under Reference:	(H) Hwy beneath struct.
54B Min. Vert. Underclearance:	24.409 ft
55A Lateral Under Reference:	(H) Hwy beneath struct.
55B Min. Lat. Underclearance R:	3.000 ft
56 Min. Lat. Underclearance L:	0.000 ft

POSTINGS

41 Posting Status:	(A) Open, No Restriction
Signs Posted Cardinal:	No
Signs Posted Non-Cardinal:	No
Field Postings Gross:	tons
Field Postings Type I:	tons
Field Postings Type II:	tons
Field Postings Type III:	tons
Field Postings Type IV:	tons

Inspection Report with SI&A Data

38: Re Concrete Slab

Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	3,042	2,980	98%	62	2%	0	0%	0	0%

The 2001 latex overlay has moderate to severe transverse cracking near both ends and minor random cracks scattered throughout. There is a 2 sq. ft. concrete patch near the west end. Some exposed aggregate in the wheel paths.

The soffit has minor cracks/discoloration. Soffit has a minor spall with exposed reinforcement near the north end at about mid-span (1 SF). Soffit has rust stains from the chairs/supports for the bottom mat of reinforcement.

East asphalt approach has several patched potholes and map cracking near center.

510: Wearing Surfaces

Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
SQ.FT	2,745	2,273	83%	304	11%	168	6%	0	0%

215: Re Conc Abutment

Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	87	74	85%	13	15%	0	0%	0	0%

Minor hairline cracks and small areas of deterioration/spalling in legs/stems of rigid frame (considered as abutments for this element level inspection) (6 LF A1, 7 LF A2). Stone facings have some minor deterioration and/or scaling. Northeast wing wall of east abutment (A2) has damage due to vehicular impact.

331: Re Conc Bridge Railing

Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	143	112	78%	31	22%	0	0%	0	0%

Barrier wall has minor cracks, most with efflorescence (17 LF South Barrier, 14 LF North Barrier).

Inspection Report with SI&A Data

857: Embankment Erosion									
Units	**Total Qty**	**Qty. St. 1**	**% in 1**	**Qty. St. 2**	**% in 2**	**Qty. St. 3**	**% in 3**	**Qty. St. 4**	**% in 4**
(EA)	1	0	0%	0	0%	1	100%	0	0%

Erosion at the northeast wingwall has exposed an electrical conduit and washed out parts of the embankment around several wooden guardrail posts and has exposed 3' of the concreted post holes for the ROW fence at A2.

859: Vegetation									
Units	**Total Qty**	**Qty. St. 1**	**% in 1**	**Qty. St. 2**	**% in 2**	**Qty. St. 3**	**% in 3**	**Qty. St. 4**	**% in 4**
(EA)	1	0	0%	1	100%	0	0%	0	0%

Heavy vegetation at all corners could hinder access in summer months. Tree growing at SE corner under arch.

STRUCTURE NOTES

-1.25" latex overlay in 2001.
-There is no specific element level condition state assessment of concrete rigid frame bridges. Elements utilized to best describe this rigid frame during this inspection comply with the 2012 BIRM recommendations. TK 4/10/2013

INSPECTION NOTES

Routine Inspection performed on 04/15/2015 by L. Boller and A. Porter (DLZ).

WORK

Action:	1056 - Misc-Remove Vegetation

Generated by user "LBOLLER" on 4/15/2015 - Vegetation at all corners of bridge could stand to be trimmed. A tree under the arch in the SE corner needs removed.