16 Latitude: 39°02′31.00″

Structure Description: 257.87 Foot - 3 Span Steel continuous Stringer/Multi-beam or Girder

2 District: 06 3 County: Kenton

7 Facility Carried 1-75

- 6A Feature Intersected: NS (CNO&TP) SYSTEM
- 9 Location: .5 MI SW JCT KY NBL

#### **NBI CONDITION RATINGS**

58	Deck:	7	61 Channel:	Ν
59	Superstructure:	7	62 Culvert:	Ν
60	Substructure:	7	Sufficiency Rating:	98

	DESIGN						
Subs	tandard:	No					
Fract	ure Critical:	Yes					
43A	Main Span Material:	(4) Steel Continuous					
43B	Main Span Design:	(02) Stringer / Girder					
45	Number of Spans Main:	3					
44A	Approach Span Material:	Not Applicable					
44B	Approach Span Design:	Not Applicable					
<b>46</b>	Number of Approach Spans:	: <b>O</b>					
107	Deck Type:	(1) Concrete-Cast-in-Place					
108A	Wearing Surface:	(1) Monolithic Concrete					
108B	Membrane:	(0) None					
108C	Deck Protection:	(1) Epoxy Coated Reinforcing					
Overl	ay Y/N:	No					
Overl	ау Туре:	None					
Overl	ay Thickness:	-1.000 in					
Overl	ay Date:						

	APPRA	AISAL
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:	(9) Above Desirable Crit
113	Scour Critical:	(N) Not over Waterway
Reco	mmended Scour Critical:	(N) Not over Waterway

### LOAD RATINGS

63	Operating Type:	(1) Load Factor (LF)
64	<b>Operating Rating:</b>	78.0 tons
65	Inventory Type:	(1) Load Factor (LF)
66	Inventory Rating:	47.0 tons
Truck	Capacity Type I:	tons
Truck	Capacity Type II:	tons
Truck	Capacity Type III:	tons
Truck	Capacity Type IV:	tons

7 Longitude: 84°34'55.00"

Milepoint: 185.750

NBI	Х
Element	Х
Fracture Critical	
Underwater	
Special	

	GEOMETRIC DATA							
48	Max Length Span:	100.066 ft						
49	Structure Length:	257.874 ft						
32	Approach Roadway:	69.882 ft						
33	Median:	(1) Open Median						
34	Skew:	48°						
35	Flare:	No Flare						
50A	Curb/Sidewalk Width L:	1.499 ft						
50B	Curb/Sidewalk Width R:	1.499 ft						
47	Horiz. Clearance:	69.882 ft						
51	Width Curb to Curb:	69.882 ft						
52	Width Out to Out:	73.163 ft						

	ADMINISTRATIVE						
27	Year Built:	1993					
106	Year Reconstructed:	0					
42A	Type of Service On:	(1) Highway					
42B	Type of Service Under:	(2) Railroad					
37	Historical Significance:	(5) Not Eligible					
21	Maintenance Responsibility	:(01) State Hwy Agency					
22	Owner:	(01) State Hwy Agency					
101	Parallel Structure:	(R) Right of II Structure					

	CLEARANCES								
10	Vert. Clearance:	99.999 ft							
53	Min. Vert. Clearance Over:	99.999 ft							
54A	Vert. Under Reference:	(R) Railroad beneath struct.							
54B	Min. Vert. Underclearance:	24.941 ft							
55A	Lateral Under Reference:	(R) Railroad beneath struct.							
55B	Min. Lat. Underclearance R:	24.278 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:	-1 tons							
Field Postings Type I:	-1 tons							
Field Postings Type II:	-1 tons							
Field Postings Type III:	-1 tons							
Field Postings Type IV:	-1 tons							

12: Re 0	Concrete Deck								
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	18,867	18,802	100%	65	0%	0	0%	0	0%
Top of de spalls (w (deck poi gutter line	eck exhibits polish ithout exposed rei rtion) at both abut es of the deck.	ed wheel paths w nforcement) formi ments. At the time	ith minor an ng at the ir e of this rou	reas of aggregate nterface of the dec tine inspection the	starting to k and armo ere was no	become exposed. ored edges as wel significant roadwa	There are I as on top ay debris fo	e small shallow of the back wall orming along the	

520: Co	onc Re Prot Sys								
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	18,867	18,867	100%	0	0%	0	0%	0	0%
Deck has deficienc	Deck has epoxy coated reinforcement. The protection system cannot be inspected, but there are no visual indications of deficiencies. For this reason, during this routine inspection the system was considered fully effective.								

1080: Delamination/Spall/Patched Area										
Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4		
65	0	0%	65	100%	0	0%	0	0%		
	lamination/Spal Total Qty 65	Iamination/Spall/Patched AreaTotal QtyQty. St. 1650	Iamination/Spall/Patched AreaTotal QtyQty. St. 1% in 16500%	Iamination/Spall/Patched AreaTotal QtyQty. St. 1% in 1Qty. St. 26500%65	Iamination/Spall/Patched AreaTotal QtyQty. St. 1% in 1Qty. St. 2% in 26500%65100%	Iamination/Spall/Patched Area           Total Qty         Qty. St. 1         % in 1         Qty. St. 2         % in 2         Qty. St. 3           65         0         0%         65         100%         0	Iamination/Spall/Patched Area           Total Qty         Qty. St. 1         % in 1         Qty. St. 2         % in 2         Qty. St. 3         % in 3           65         0         0%         65         100%         0         0%	Iamination/Spall/Patched Area           Total Qty         Qty. St. 1         % in 1         Qty. St. 2         % in 2         Qty. St. 3         % in 3         Qty. St. 4           65         0         0%         65         100%         0         0%         0		

107: Ste	107: Steel Opn Girder/Beam											
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4			
FT	2,838	2,838	100%	0	0%	0	0%	0	0%			

The girders are in good condition with no significant deficiencies noted during this routine inspection. A moderate amount of soot from train exhaust was found on span above train tracks.

515: Ste	515: Steel Protective Coating											
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4			
FT	7,982.71	7,982.71	100%	0	0%	0	0%	0	0%			
The stee	l protective coatin	g appears to be fu	Ily effective	e at the time of thi	s routine in	spection.						

205: Re	205: Re Conc Column											
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4			
EACH	12	12	100%	0	0%	0	0%	0	0%			
No signif	icant deficiencies	were noted during	this stand	ard inspection.								

210: Re	Conc Pier Wall								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	140	140	100%	0	0%	0	0%	0	0%
The pier	walls exhibit mino	or vertical and diag	onal crack	ing (less than 0.01	2" wide) a	nd moderate amo	unts of graff	iti.	

215: Re	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	196	97	49%	88	45%	11	6%	0	0%				
Typically	the abutments ex	chibit minor deterio	pration with	light staining and	minor vert	ical cracking in the	back wall	s, caps and					

pedestals. In addition to the typical deficiencies, Abutment 1 exhibits 5 locations of horizontal cracks with 4 of these locations (total of 36' long) having cracks up to 0.025" wide and location (11' long ) with 0.125" wide in the abutment caps. Abutment 4 exhibits 8 locations of vertical cracking, up to 0.012" wide in the cap and 44' of horizontal cracking (up to 0.02" wide) in caps.

1130: Ci	1130: Cracking (RC and Other)												
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4				
FT	99	0	0%	88	89%	11	11%	0	0%				
L													

234: Re Conc Pier Cap											
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4		
FT	140	140	100%	0	0%	0	0%	0	0%		
No signifi	icant deficiencies	were noted during	) this routin	e inspection.							

300: Stri	300: Strip Seal Exp Joint												
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4				
FT	146	0	0%	118	81%	28	19%	0	0%				

The joint seals exhibit signs of failure (loss of adhesion/seal) and roadway debris build up. The joints are allowing minor leakage at this time. Specifically at Abutment 1 up to 10' of seal shows signs of adhesion loss. Also at Abutment 1, the armored edge is missing (due to vehicular impact damage) for about 1'. At Abutment 4 up to 12' of seal shows sign of adhesion loss and the armored edge is damaged/missing for about 5' (due to vehicular impact damage).

2320: S	eal Adhesion								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	22	0	0%	0	0%	22	100%	0	0%

2350:	Debris Impaction								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	118	0	0%	118	100%	0	0%	0	0%
						<u> </u>			
L									

Total Oty			2370: Metal Deterioration or Damage												
Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4							
6	0	0%	0	0%	6	100%	0	0%							
	6	6 0	6 0 0%	6 0 0% 0	6 0 0% 0 0%	6 0 0% 0 0% 6	6 0 0% 0 0% 6 100%	6 0 0% 0 0% 6 100% 0							

310: Ela	310: Elastomeric Bearing												
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4				
EACH	44	22	50%	22	50%	0	0%	0	0%				
The beer	Eta baaringa at the abutmente exhibit miner to mederate lateral meyoment. Arm's length inspection access to the pier bearings												

The bearings at the abutments exhibit minor to moderate lateral movement. Arm's length inspection access to the pier bearings was not attainable during this standard inspection. From the ground the bearings at piers appear to functioning properly.

2220: Alignment										
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4	
EACH	22	0	0%	22	100%	0	0%	0	0%	
				L						

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	516	0	0%	516	100%	0	0%	0	0%

The railings typically exhibit minor vertical cracking, minor scaling and masonry coating peeling for the entire length of bridge. The full height vertical cracks range from 0.012" to 0.025" and are at approximately 8" to 1' spacing. Due to high traffic volume the west barrier was only inspected from the east shoulder of I-75.

1130: C	1130: Cracking (RC and Other)										
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4		
FT	516	0	0%	516	100%	0	0%	0	0%		
					II						

853: Utilities											
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	1	100%	0	0%	0	0%	0	0%		
Utility co	Utility conduit is attached to east side of bridge (underside of overhang).										

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%	1	100%	0	0%	0	0%	
Erosion i	s occurring along	the front faces of a	Abutment 4	I. Holes are formi	ng, undern	nining the abutme	nt.			

#### STRUCTURE NOTES

Plan # 23000

Paint Date 06/10

### **INSPECTION NOTES**

The Standard Inspection was performed by Stantec Consulting Services, Inc. on November 16, 2015. The inspectors included Mike Lawler and Chad Evans. No specialized access equipment or lane closures were utilized for this inspection. The bridge was inventoried south to north (substructure naming convention - Abutment 1, Pier 2, Pier 3 & Abutment 4 - Beams 1 to 11, left to right facing north).

 WORK

 Action:
 1041 - Drainage-Repair Washouts / Erosion

 Generated by user "mlawler" on 12/7/2015

 Repair erosion along Abutment 4 face.

 Action:
 1047 - Joints-Replace

 Generated by user "mlawler" on 12/7/2015, Concur with converted work candidate.

Generated by cbresch on 11/05/2013

-Replace compression seals at both the rear and forward expansion joint locations.

-Replace armored edge material at expansion joint locations where as needed.