16 Latitude: 39°02′27.00″

Structure Description: 257.99 Foot - 3 Span Steel continuous Stringer/Multi-beam or Girder

2 District: 06 3 County: Kenton

7 Facility Carried I-75 NC

- 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						
46	Number of Approach Spans	: 0						
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:							

	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:	(9) Above Desirable Crit					
113	Scour Critical:	(N) Not over Waterway					
Reco	ommended Scour Critical:	(N) Not over Waterway					

LOAD RATINGS

63	Operating Type:	(1) Load Factor (LF)
64	Operating Rating:	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°35′06.00″

Milepoint: 185.760

NBI	Х
Element	Х
Fracture Critical	
Underwater	
Special	

	GEOMETRIC DATA						
48	Max Length Span:	99.997 ft					
49	Structure Length:	257.989 ft					
32	Approach Roadway:	69.997 ft					
33	Median:	(0) No 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:	69.997 ft					
51	Width Curb to Curb:	69.997 ft					
52	Width Out to Out:	72.995 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:	(L) Left 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:	23.291 ft						
55A	Lateral Under Reference:	(R) Railroad beneath struct.						
55B	Min. Lat. Underclearance R:	24.098 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 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	18,832	18,724	99%	108	1%	0	0%	0	0%	
spalls (w (deck po	ithout exposed rei rtion) at both abut mately ¾" deep). A	nforcement) formi ments. The unde	ng at the ir erside of de	nterface of the dec ock at Girder 1 at A	k and armo Abutment 4	become exposed. ored edges as wel exhibits a 3sf dela ant roadway debris	I as on top amination/s	of the back wall spall		

520: Conc 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	18,832	18,832	100%	0	0%	0	0%	0	0%

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: De	alamination/Spall/	Patched Area							
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	108	0	0%	108	100%	0	0%	0	0%
SQ.FT	100	0	0 70	106	100 %	0	0 %	0	U

107: Ste	el Opn Girder/Be	eam							
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	el Protective Coa	iting							
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 steel	protective coating	appears to be fu	lly effective	e at the time of this	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) ar	nd moderate amo	unts of graf	fiti.	

215: Re C	onc 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	156	80%	40	20%	0	0%	0	0%
Typically th	ne abutments exhil	hit minor dotorio	ration with li	abt staining and	minor vortion	l cracking in the	back walls	caps and	

Typically the abutments exhibit minor deterioration with light staining and minor vertical cracking in the back walls, caps and pedestals. In addition to the typical deficiencies, Abutment 1 exhibits 5 locations of vertical cracks, up to 0.025" wide and 27' of horizontal cracking, up to 0.025" wide in the abutment caps. Abutment 4 exhibits 8 locations of vertical cracking, up to 0.016" wide of the 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	40	0	0%	40	100%	0	0%	0	0%

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	cant deficiencies	were noted during	this routin	e inspection.				LL	

300: Str	ip Seal Exp Join	t							
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%	121	83%	10	7%	15	10%

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 15' of seal is missing or shows signs of adhesion loss. Also at Abutment 1, the armored edge is missing (due to vehicular impact damage) for about 6'. At Abutment 4 the armored edge is damaged/missing for about 4' (due to vehicular impact damage).

2320: Se	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	15	0	0%	0	0%	0	0%	15	100%
	10	Ŭ	070	0	070		070	10	100 /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	121	0	0%	121	100%	0	0%	0	0%			
FI	121	0	0%	121	100%	0	0%	0				

2370: M	etal Deterioration	2370: Metal Deterioration or Damage												
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4					
FT	10	0	0%	0	0%	10	100%	0	0%					
	10	0	070	0	070	10	10070	0	07					
L														

310: Ela	stomeric Bearin	g							
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	39	89%	5	11%	0	0%	0	0%
	•	ents exhibit minor his standard inspe				÷ .			

2220: A	lignment								
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
EACH	5	0	0%	5	100%	0	0%	0	0%
_									

331: Re (Conc Bridge Rai	iling							
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	456	88%	60	12%	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 (0.012" to 0.025" wide) are at approximately 30 locations. Due to high traffic volume the west barrier was only inspected from the east shoulder of I-75 (therefore for quantity doubled the east barrier crack locations to account for the west barrier).

Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
60 0	0%	60	100%	0	0%	0	0%
6	0 0	0 0 0%	0 0 0% 60	0 0 0% 60 100%	0 0 0% 60 100% 0	0 0 0% 60 100% 0 0%	0 0 0% 60 100% 0 0% 0

857: Em	bankment Erosi	on							
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 is occurring along the front faces of the abutments. Holes are forming, undermining the abutments.

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						
Generate	ed by user "mlawler" on 12/7/2015						
- Repair erosion holes along abutments.							
Action:	1047 - Joints-Replace						
	ed by user "mlawler" on 12/7/2015, Concur with converted work candidate.						
Generate	ed by cbresch on 11/05/2013,						
-Replace	compression joint material at both the rear and forward abutment locations.						
-Replace	armored edge material at expansion joint locations where as needed.						