

Inspection Report with SI&A Data

Structure Description: 550 Foot - 5 Span Masonry Arch - Deck

2 District: 11 **3 County:** Whitley **16 Latitude:** 36°50'09.00" **7 Longitude:** 84°20'25.00"

7 Facility Carried: KY-90

Milepoint: 0.030

6A Feature Intersected: CUMBERLAND RIVER

9 Location: ON MCCREARY - WHITLEY CL

NBI	X
Element	X
Fracture Critical	
Underwater	
Special	

NBI CONDITION RATINGS			
58 Deck:	6	61 Channel:	6
59 Superstructure:	6	62 Culvert:	N
60 Substructure:	5	Sufficiency Rating:	48.6

GEOMETRIC DATA		
48 Max Length Span:		100.066 ft
49 Structure Length:		550.000 ft
32 Approach Roadway:		25.919 ft
33 Median:		(0) No Median
34 Skew:		0°
35 Flare:		No Flare
50A Curb/Sidewalk Width L:		2.000 ft
50B Curb/Sidewalk Width R:		2.000 ft
47 Horiz. Clearance:		25.919 ft
51 Width Curb to Curb:		25.919 ft
52 Width Out to Out:		32.001 ft

DESIGN	
Substandard:	Wt
Fracture Critical:	No FC Details
43A Main Span Material:	(1) Concrete
43B Main Span Design:	(11) Arch-Deck
45 Number of Spans Main:	5
44A Approach Span Material:	Not Applicable
44B Approach Span Design:	Unknown
46 Number of Approach Spans:	0
107 Deck Type:	(1) Concrete-Cast-in-Place
108A Wearing Surface:	(6) Bituminous
108B Membrane:	(0) None
108C Deck Protection:	(0) None
Overlay Y/N:	Yes
Overlay Type:	Asphalt
Overlay Thickness:	3.000 in
Overlay Date:	

ADMINISTRATIVE		
27 Year Built:		1954
106 Year Reconstructed:		0
42A Type of Service On:		(1) Highway
42B Type of Service Under:		(5) Waterway
37 Historical Significance:		(5) Not Eligible
21 Maintenance Responsibility:		(01) State Hwy Agency
22 Owner:		(01) State Hwy Agency
101 Parallel Structure:		(N) No II Structure Exists

APPRAISAL	
36A Bridge Railings:	(0) Substandard
36B Transitions:	(0) Substandard
36C Approach Guardrail:	(0) Substandard
36D Approach Guardrail Ends:	(0) Substandard
71 Waterway Adequacy:	(9) Above Desirable
72 Approach Alignment:	(5) Abover Tolerable
113 Scour Critical:	(5) Stable w/in footing
Recommended Scour Critical:	(5) Stable w/in footing

CLEARANCES		
10 Vert. Clearance:		99.999 ft
53 Min. Vert. Clearance Over:		99.999 ft
54A Vert. Under Reference:		(N) Feature not hwy or RR
54B Min. Vert. Underclearance:		0.000 ft
55A Lateral Under Reference:		(N) Feature not hwy or RR
55B Min. Lat. Underclearance R:		0.000 ft
56 Min. Lat. Underclearance L:		0.000 ft

LOAD RATINGS	
63 Operating Type:	(1) Load Factor (LF)
64 Operating Rating:	33.3 tons
65 Inventory Type:	(1) Load Factor (LF)
66 Inventory Rating:	20.0 tons
Truck Capacity Type I:	tons
Truck Capacity Type II:	28 tons
Truck Capacity Type III:	29 tons
Truck Capacity Type IV:	tons

POSTINGS	
41 Posting Status:	(P) Posted For Load
Signs Posted Cardinal:	Yes
Signs Posted Non-Cardinal:	Yes
Field Postings Gross:	-1 tons
Field Postings Type I:	-1 tons
Field Postings Type II:	28 tons
Field Postings Type III:	29 tons
Field Postings Type IV:	-1 tons

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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	17,600.72	16,720.69	95%	880.04	5%	0	0%	0	0%
Worn some cracking in surface.									

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	14,260.63	13,547.6	95%	713.03	5%	0	0%	0	0%

7359: DO NOT USE Concrete Efflorescenc									
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	10.76	10.76	100%	0	0%	0	0%	0	0%
Worn some cracking in surface.									

144: Re Conc Arch									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	460	330	72%	130	28%	0	0%	0	0%
.Some leaching in arch numerous hair line cracks in arches. STONE FACADE COVERS ARCH SIDES. STONES IN NEED OF PREVENTIVE/PRESERVATION MEASURES TO ENSURE FACADE STABILITY. Stones have some cracking at construction joint.									

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	210	170	81%	40	19%	0	0%	0	0%
_MILD CRACKING SOME SPALLING PIER 4 LARGE LOG JAM									

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301: Pourable Joint Seal									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	20	16	80%	4	20%	0	0%	0	0%
At side walk									

330: Metal 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	24	24	100%	0	0%	0	0%	0	0%
< none >									

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	0.3	0.3	100%	0	0%	0	0%	0	0%

333: Other 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	1,100	991	90%	109	10%	0	0%	0	0%
Needs some mortar repairs. Some mortar missing at various locations.									

1610: Mortar Breakdown (Masonry)									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
FT	109	0	0%	109	100%	0	0%	0	0%
-									

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803: Curb									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(LF)	1,100	1,050	95%	50	5%	0	0%	0	0%
HEACY SCALING IN AREAS									

804: Sidewalk									
Units	Total Qty	Qty. St. 1	% in 1	Qty. St. 2	% in 2	Qty. St. 3	% in 3	Qty. St. 4	% in 4
(LF)	1,100	795	72%	305	28%	0	0%	0	0%
Some cracking ,worn									

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
(LF)	305	0	0%	305	100%	0	0%	0	0%
-									

852: Drains									
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%
Needs cleaned.									

856: Chan Drift									
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%
pier 4 ,LARGE DRIFT PILE									

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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%

POSION OAK NEEDS REMOVED. TREE AT PIER NEEDS CUT

STRUCTURE NOTES

Item 113 Changed to 5 per Stantec UW Report 12/4/15

INSPECTION NOTES

Bridge is posted for load. UNDERWATER PERFORMED 5/21/2015

WORK

Action: -