

Ohio Bridge Inspection Summary Report

CUY-0480N-0140WE (1814753)

2: District 80990 - WARRENSVILLE HTS (CUY county)
 ict
 12

5A: Inventory Route 1 0480N

21: Major Maint A/B 01 - State Highway Agency /
 225 Routine Main A/B 01 - State Highway Agency /
 221 Inspection A/B 01 - State Highway Agency /
 220: Inv. Location DISTRICT 12

7: Facility On IR 480
 6: Feature Ints SR 175 (RICHMOND RD)
 9: Location 0.4 MI. EAST OF JCT I-271
 Lat, Lon 41.429247 , -81.497872

Condition		Structure Type	
58: Deck	6 - Satisfactory Condition	43: Bridge Type	4 - Steel continuous
58.01 Wearing Surface	7 - Good (1% distress)		02 - Stringer/Multi-beam or Girder
58.02 Joint	N- Not Applicable		N- Not Applicable
59: Superstructure	7 - Good Condition	45: Spans Main / Approach	3 / 0
59.01 Paint & PCS	4 - Poor PCS (15-20% corr.)	107: Deck Type	1 - Concrete Cast-in-Place
60: Substructure	6 - Satisfactory Condition	408: Composite Deck	U - Unknown
61: Channel	N	414A Joint Type 1	N - None
61.01 Scour	N - Not Applicable	414B: Joint Type 2	N - None
62: Culverts	N - Not Applicable	108A: Wearing Surface	2 - Integral Concrete (separate non-modified layer of concrete added to structural deck)

67.01 GA 6

Appraisal	
Sufficiency Rating	96.0 SD/FO 0 - ND
36: Rail, Tr, Gd, Term Std	1 1 1 1
72: Approach Alignment	8 - Equal to present desirable criteria
113: Scour Critical	N - Not over waterway
71: Waterway Adequacy	N - Not Applicable

422: WS Date	07/01/2002
423: WS Thick (in)	1.2
482: Protective Coating	6 - Galvanized
483: PCS Date	01/01/1992
453: Bearing Type 1	0 - Other
455: Bearing Type 2	N - None
528: Foundn: Abut Fwd	U - Unknown
533: Foundn: Abut Rear	U - Unknown
536: Foundn: Pier 1	U - Unknown
539: Foundn: Pier 2	U - Unknown

Geometric	
48: Max Span Length (ft)	70.0
49: Structure Length (ft)	142.0
52: Deck Width, Out-To-Out (ft)	43.4
424: Deck Area (sf)	6162.8
32: Appr Roadway Width (ft)	24.0
51: Road Width, Curb-Curb (ft)	39.0
50A: Curb/SW Width: Left (ft)	0
50A: Curb/SW Width: Right (ft)	0
34: Skew (deg)	8
33: Bridge Median	0 - No median
54B: Min Vert Underclearance (ft)	16
336A: Min Vert Clrnce IR Cardinal (ft)	99
336B: Min V Clr IR Non-Cardinal (ft)	0
578: Culvert Length (ft)	0

Age and Service	
27: Year Built/ 106 Rehab	1971 / 0000
42A: Service On	1 - Highway
42B: Service Under	1 - Highway, with or w/out pedestrian
28A: Lanes on	02
28B: Lanes Under	02
19: Bypass Length	0
29: ADT	6475
109: % Trucks (%)	3

Load Posting	
41: Op/Post/Closed	A - Open
70: Posting	5 - Equal to or above legal loads
70.01: Date	
70.02: Sign Type	
734: Percent Legal (%)	150
704: Analysis Date	07/01/1973
63: Analysis Method	7 - Allowable Stress (AS) rating reported by rating factor (RF) method using MS18 loading.

Inspections		
	Months	
90: Routine Insp.	12	03/14/2022
92A: FCM Insp.	N	0
92B: Dive Insp.	N	0
92C: Special Insp.	N	0
92D: UBIT Insp.	N	0
92E: Drone Insp.	N	0
Inspector	Persanyi, Andrea	

Inspector: Andrea Persanyi
 Inspection Date: 03/14/2022

Structure Number: 1814753
 Facility Carried: IR 480

Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	3 - Mod.	6168	sq. ft.	5819	309	40	0
	CS2- Some transverse cracks, epoxy smeared areas throughout. CS3- Some spalls.						
510 - Wearing Surfaces		5538	sq. ft.	5337	200	1	0
	CS2- A few cracks. CS4- 1 SF asphalt patch in lane #1 at forward slab.						
107 - Steel Open Girder/Beam	3 - Mod.	710	ft.	345	355	10	0
	CS2- Surface rust, mainly along lower flanges. CS3- Rusting section loss at some embedded beam ends, scrapes to lower flanges of beams 1 & 4 over NB traffic.						
515 - Steel Protective Coating		6890	sq. ft.	2790	3500	550	50
	CS2- Faded areas. CS3- Surface rust, mainly along lower flanges. CS4- Failed PCS						
205 - Reinforced Concrete Column	3 - Mod.	6	each	2	1	3	0
	CS2- P1C1- 4 SF delam CS3- P1C2- 30 SF delam P1C3- 20 SF delam P2C1- 21 SF delam						
215 - Reinforced Concrete Abutment	3 - Mod.	88	ft.	45	26	17	0
	CS2- Cracks, rust stains, a few small delams. CS3- Spall that goes into seat in forward bay 4. Evidence of water leaking thru construction joints with areas of efflorescence.						
234 - Reinforced Concrete Pier Cap	3 - Mod.	88	ft.	74	14	0	0
	CS2- Cracks and delams.						
310 - Elastomeric Bearing	3 - Mod.	10	each	0	10	0	0
	CS2- Surface rust, some bulging elastomeric pads.						
312 - Enclosed/Concealed Bearing	3 - Mod.	10	each	10	0	0	0
321 - Reinforced Concrete Approach Slab	3 - Mod.	1200	sq. ft.	440	660	100	0
	CS2- Cracks, some wide. CS3- Broken up area along rear approach wearing surface. Bounce off bridge. Failed asphalt patches with deep pothole at forward in lane 2 causing rough ride off bridge.						

Inspector: Andrea Persanyi
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Element Inspection

331 - Reinforced Concrete Bridge Railing	3 - Mod.	284	ft.	69	213	2	0
	CS2- Vertical & horizontal leaching cracks. Delams						
	CS3- Spalls along outside rails.						
815 - Drainage	3 - Mod.	3	each	3	0	0	0
840 - Approach Slab: Termination or Joint	3 - Mod.	48	ft.	0	36	12	0
	CS2- Cracks						
	CS3- Wide cracks, some broken up asphalt areas.						

ODOT District: District 12

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Date Built: 07/01/1971

Major Maint: 01 - State Highway Agency

Facility Carried: IR 480

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: SR 175 (RICHMOND RD)

Traffic Under: 1 - Highway, with or w/out pedestrian

Insp. 01 - State Highway Agency

FIPS Code: 80990 - WARRENSVILLE HTS (CUY county)

Location: DISTRICT 12

0.4 MI. EAST OF JCT I-271

Resp A:

Insp

Resp B:

Inspector

Persanyi, Andrea

Inspection Date 03/14/2022

Reviewer Seif, Youssef

Inspector Comments - Deck and Approach

Deck

Approach

Approach Wearing Surface (EA)

Cracks, breaking up areas & asphalt patches. A few potholes. rough ride at forward in lane 2.

Approach Embankment (EA)

Erosion to forward-right (clogged catch basin near east sidewalk).

Approach Guardrail (EA)

Both right approach parapets have settled & tip out 2.5". Minor spalls at forward-left & rear-right.

Inspector Comments - General Appraisal

Superstructure

Diaphragm/X-Frames (EA)

Surface rust. minor cracks in concrete diaphragms. Bent horizontal angles in bays 1 & 4 over SB lane #2.

Fatigue (LF)

Welded cover plates at piers.

Substructure

Slope Protection (EA)

Cracks, uneven settlement, 3 1/2" slide & buckling of forward csp. Rear-right corner beginning to undermine at top. Areas of vegetation growing thru CSP.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical