

Inspector: Ropelewski,Robert

Inspection Date: 08/14/2023

Structure Number: 1804650

Facility Carried: IR 71 SB

Ohio Bridge Inspection Summary Report**CUY-00071-1016L (1804650)**2: District 16000 - CLEVELAND (CUY county)
ict
12

5A: Inventory Route 1 00071

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 127: Facility On IR 71 SB
6: Feature Ints NSC,RTA91, AIRPT FRWY
9: Location .17 MI. N. OF JCT. IR 480
Lat, Lon 41.421914 ,-81.820108

Condition		Structure Type	
58: Deck	7 - Good Condition	43: Bridge Type	4 - Steel continuous
58.01 Wearing Surface	7 - Good (1% distress)		02 - Stringer/Multi-beam or Girder
58.02 Joint	6- Satisfactory (isolated leaking)		N- Not Applicable
59: Superstructure	7 - Good Condition	45: Spans Main / Approach	20 / 6
59.01 Paint & PCS	6 - Satisfactory (5-10% corr.)	107: Deck Type	1 - Concrete Cast-in-Place
60: Substructure	7 - Good Condition	408: Composite Deck	N - Non-composite Construction
61: Channel	N	414A Joint Type 1	8 - Elastomeric Strip Seal
61.01 Scour	N - Not Applicable	414B: Joint Type 2	N - None
62: Culverts	N - Not Applicable	108A: Wearing Surface	1 - Monolithic Concrete (concurrently placed with structural deck)

67.01 GA 7

Appraisal		422: WS Date	06/30/2000
Sufficiency Rating	69.3 SD/FO 2 - FO	423: WS Thick (in)	1.0
36: Rail, Tr, Gd, Term Std	1 1 1 1	482: Protective Coating	9 - Paint System IZEU
72: Approach Alignment	8 - Equal to present desirable criteria	483: PCS Date	01/01/2000
113: Scour Critical	N - Not over waterway	453: Bearing Type 1	2 - Rockers & Bolsters
71: Waterway Adequacy	N - Not Applicable	455: Bearing Type 2	C - Elastomeric (laminated)
Geometric		528: Foundn: Abut Fwd	4 - Spread Footing (on soil)
48: Max Span Length (ft)	123.0	533: Foundn: Abut Rear	4 - Spread Footing (on Soil)
49: Structure Length (ft)	1383.0	536: Foundn: Pier 1	1 - Steel H Piles (Other size)
52: Deck Width, Out-To-Out (ft)	42.7	539: Foundn: Pier 2	0 - Other
424: Deck Area (sf)	59054.1		
32: Appr Roadway Width (ft)	46.0		
51: Road Width, Curb-Curb (ft)	39.3		
50A: Curb/SW Width: Left (ft)	0		
50A: Curb/SW Width: Right (ft)	0		
34: Skew (deg)	0		
33: Bridge Median	0 - No median		
54B: Min Vert Underclearance (ft)	15.67		
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	1969 / 2000
42A: Service On	1 - Highway
42B: Service Under	4 - Highway - railroad
28A: Lanes on	03
28B: Lanes Under	06
19: Bypass Length	2
29: ADT	41171
109: % Trucks (%)	3
Inspections	
90: Routine Insp.	12 Months
92A: FCM Insp.	Y 12
92B: Dive Insp.	N 0
92C: Special Insp.	N 0
92D: UBIT Insp.	N 0
92E: Drone Insp.	Y 24

Load Posting		Inspector	Ropelewski,Robert
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	07/01/2011		
63: Analysis Method	6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.		

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12-Reinforced Concrete Deck	3 - Mod.	59009	sq. ft.	53889	5110	10	0
	CS2 - Cracks. CS3 -Few spalls in spans 11, 14.						
805-Wearing Surface - Monolithic Concrete		54283	sq. ft.	51031	3200	52	0
	PCB in span 1 at 2023 inspection. CS2 - Cracks. Minor small pop outs at ExJts. CS3 - A few wide cracks. Minor spalls and delams at ramp.						
107-Steel Open Girder/Beam	3 - Mod.	10120	ft.	10020	54	45	1
	Girder comments : CS2 - Areas of minor rusted & rusting section loss. Gouge in lower flange of left girder near P8. Bent bearing stiffeners at seated hinges. CS3 - Areas of heavy rusted and rusting section loss to some beam ends at abutments, near hinges and fascias. CS4 - Rust through hole in bearing stiffener at beam 2 on east face in span 12. Small rust through hole in web of beam 8 at hinge in span 4. Through girder comments : Weld material fills copes at intersecting welds. CS 2: Scrapes to bottom of P16 cap. A few steel end plates are bowed. A few possible cracks near stiffeners (they have been marked with no growth detected at 2022 FC inspection). Areas of poor quality welds throughout . Areas of scattered surface rust. CS 3: Areas of section loss at base of some stiffeners and top of lower flanges that are not under the deck.						
515-Steel Protective Coating		105605	sq. ft.	99735	5280	550	40
	CS2 - Areas of surface rust. Some top coat peeling. CS3 - Blistered paint with rust underneath. CS4 - Unprotected steel.						
205-Reinforced Concrete Column	3 - Mod.	51	each	45	3	3	0
	CS2 - Cracks in concrete patches. Map cracking to all P3 columns. CS3 - P17C2 has 18 SF delam, P16C1 has 25 SF delam, P14C1 has large delaminated patch with rust stains.						
521-Concrete Protective Coating		22500	sq. ft.	22500	0	0	0
	1/2 of the piers are painted						
210-Reinforced Concrete Pier Wall	3 - Mod.	169	ft.	160	9	0	0
	CS2 - Cracks.						
215-Reinforced Concrete Abutment	3 - Mod.	86	ft.	36	50	0	0
	CS2 - Cracks, some leaching. Map cracking. Rust stains. Few delams at both abutments.						
521-Concrete Protective Coating		258	sq. ft.	258	0	0	0

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234-Reinforced Concrete Pier Cap	3 - Mod.	710	ft.	674	30	6	0
	CS2 - Cracks. CS3 - One SF saw cut spall on forward face of P6 below beam 5. Spalls on bottoms of cantilevered parts of a few caps. Spall with exposed rebar on bottom face of P2 cap.						
521-Concrete Protective Coating		1800	sq. ft.	1800	0	0	0
300-Strip Seal Expansion Joint	3 - Mod.	266	ft.	182	80	0	4
	CS2 - Dirt & debris in joints. Areas of minor rusted section loss. CS4 - Strip seal of the hinge near P12 is torn causing water to leak onto the hinge below. Active leaking at rear abutment near left fascia & forward mainline abutment in bay 3.						
311-Movable Bearing	3 - Mod.	96	each	83	12	1	0
	CS2 - Surface rust and start of pack rust. CS3 - Surface rust with some pack rust forming and rusting section loss.						
321-Reinforced Concrete Approach Slab	3 - Mod.	3075	sq. ft.	2525	550	0	0
	Slight bounce onto bridge at ramp. CS2 - Some cracks.						
331-Reinforced Concrete Bridge Railing	3 - Mod.	2766	ft.	2406	310	50	0
	CS2 - Vertical & horizontal cracks. Rust stains. Cracks to light pole bases. Collision scrapes & gouges on ramp parapets. Delams to light pole bases. CS3 - Areas of concrete deterioration with exposed rebar to left rail near forward end. Other areas of delams & spalls.						
521-Concrete Protective Coating		19500	sq. ft.	19440	0	0	60
	CS4- Not effective						
815-Drainage	3 - Mod.	7	each	2	0	0	5
	CS4 - The 5 forward-left scuppers on the ramp are plugged.						
820-Steel Seated-Hinge Assembly	3 - Mod.	18	each	15	3	0	0
	CS2 - Areas of rust and minor rusting section loss.						
830-Abutment Backwall	3 - Mod.	86	ft.	36	50	0	0
	CS2 - Cracks, some leaching. Rust stains.						
521-Concrete Protective Coating		344	sq. ft.	344	0	0	0

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ODOT District: District 12

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Major Maint: 01 - State Highway Agency

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Traffic On: 1 - Highway

Date Built: 07/01/1969

Rehab Date: 06/30/2000

Routine Maint: 01 - State Highway Agency

Feature Inters: NSC,RTA91, AIRPT FRWY

Traffic Under: 4 - Highway - railroad

Insp. Resp A: 01 - State Highway Agency

FIPS Code: 16000 - CLEVELAND (CUY county)

Location: DISTRICT 12

.17 Mi. N. OF JCT. IR 480

Insp

Resp B:

Inspector

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Reviewer Seif,Youssef

Inspector Comments - Deck and Approach

Deck

Approach

Approach Wearing Surface

Transverse cracks & asphalt patches to ramp approach. A few other cracks.

Approach Relief Joint

Cracks, a few potholes, asphalt patches.

Approach Guardrail

Minor collision damage to forward-right guardrail (on ramp).

Signs

No bridge end markers on ramp.

Sign Supports

Merge sign at ramp/mainline junction.

Inspector Comments - General Appraisal

Superstructure

Diaphragm/X-Frames

A few bent angles. Areas of rusting section loss.

Fatigue

Welded moment plates at some piers (6 on mainline, 3 on ramp).

Utilities

Under bridge lighting over railroad tracks is out. Rusting section loss to bridge lighting conduit.

Substructure

Wingwalls

Cracks, small spalls.

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Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical

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Bridge Inspection Report

Pictures