Bridge Inspection Report

Ohio Bridge Inspection Summary Report

CUY-00077-1546 (1806815)

2: District ^{Distr} 16000 - CLEVEL/ ict 12	AND (CUY county)	5A: Inventory Route 1	00077			
21: Major Maint A/B 01 - Sta 225 Routine Main A/B 01 - Sta	ate Highway Agency / ate Highway Agency / ate Highway Agency / 2		3 (CUY-422-0125) OF JCT. SR-14 ,-81.672478			
Condition		Str	ucture Type			
58: Deck 4 - 58.01 Wearing Surface 7 - 58.02 Joint 5- 59: Superstructure 7 - 59.01 Paint & PCS 7 - 60: Substructure 5 - 61: Channel N 61.01 Scour N - 62: Culverts N -	 58: Deck 58: 01 Wearing Surface 58: 02 Joint 59: Superstructure 59: 01 Paint & PCS 60: Substructure 61: Channel 7 - Good (1% distress) 5 - Fair (obvious leaking, 1" offset) 7 - Good Condition 7 - Good (1-5% corr.) 5 - Fair Condition N N - Not Applicable 		cel continuous tringer/Multi-beam or Girder t Applicable ch 3 / 0 1 - Concrete Cast-in-Place N - Non-composite Construction 2 - Sliding Metal Plate Angle N - None 2 - Integral Concrete (separate non-modified layer of concrete added to structural deck)			
67.01 GA 5			2- MicroSilica			
Sufficiency Rating 72. 36: Rail, Tr, Gd, Term Std 1 72: Approach Alignment 8 - 113: Scour Critical N -	9 SD/FO 1 - SD 1 1 1 Equal to present desirable criteria Not over waterway Not Applicable	422: WS Date 423: WS Thick (in) 482: Protective Coating 483: PCS Date 453: Bearing Type 1 455: Bearing Type 2	07/01/2003 1.2 5 - Paint System OZEU 01/01/1986 2 - Rockers & Bolsters N - None			
Geometric		528: Foundn: Abut Fwd	2 - Cast-in-Place Reinforced Concrete Piles (Other diameter)			
48: Max Span Length (ft) 49: Structure Length (ft)	93.0 214.0	533: Foundn: Abut Rear 536: Foundn: Pier 1	2 - Cast-in-Place reinforced Concrete Piles (Other diameter) 2 - Cast-in-Place Reinforced Concrete Piles (Other diameter)			
52: Deck Width, Out-To-Out (ft) 424: Deck Area (sf)	114.3 24460.2	539: Foundn: Pier 2	0 - Other			
•		Age and Service				
32: Appr Roadway Width (ft) 51: Road Width, Curb-Curb (ft) 50A: Curb/SW Width: Left (ft)	112.0 112.0 0	27: Year Built/ 106 Reha 42A: Service On 42B: Service Under	b 1962 / 0000 1 - Highway 1 - Highway, with or w/out pedestrian			
50A: Curb/SW Width: Right (ft) 34: Skew (deg) 33: Bridge Median 54B: Min Vert Underclearance (f 336A: Min Vert CIrnce IR Cardin	al (ft) 99	28A: Lanes on 28B: Lanes Under 19: Bypass Length 29: ADT 109: % Trucks (%)	06 02 1 59893			
336B: Min V Clr IR Non-Cardinal (ft) 0		Insp	pections			
578: Culvert Length (ft) 0 Load Posting		90: Routine Insp.	Months 12 10/31/2022			
)pen	92A: FCM Insp. N 92B: Dive Insp. N 92C: Special Insp. N 92D: UBIT Insp. N 92E: Drone Insp. N	0 0 0 0			

Inspector: Persanyi,Andrea Structure Number: 1806815 10/31/2022 Inspection Date: **Facility Carried:** IR 77

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734: Percent Legal (%) 145

704: Analysis Date 06/04/2020

8 - Load and Resistance Factor Rating (LRFR) rating report by rating factor (RF) method using HL-93 loadings. 63: Analysis Method

Inspector

Persanyi, Andrea

Bridge Inspection Report

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12-Reinforced Concrete Deck	3 - Mod.	24468	sq. ft.	11701	8564	3953	250
	CS2- Leached cracks CS3- leaching cracks with many stalactites. Many mottled areas, spalls & del						k delams.
	CS4- Spalls wit	h 4 bars of	rebar ex	cposed.			
805-Wearing Surface - Monolithic Concrete		23968	sq. ft.	23468	500	0	0
	CS2- A few cracks. Large concrete patch to NB side near rear.						
107-Steel Open Girder/Beam	3 - Mod.	3424	ft.	2909	343	172	0
	CS2- Areas of s		·		· ·	·	2.
515-Steel Protective Coating		30512	sq. ft.	26887	3500	125	0
	CS2- Chalking/faded. CS3- peeling paint. Areas of surface rust.						
205-Reinforced Concrete Column	3 - Mod.	24	each	24	0	0	0
215-Reinforced Concrete Abutment	3 - Mod.	409	ft.	240	143	24	2
	CS2- Many crac CS3- Delams. S CS4- Spall at re	Spalls.	J			1.	
234-Reinforced Concrete Pier Cap	3 - Mod.	409	ft.	385	20	4	0
	CS2- Concrete patches. CS3- Delams under and near median joint.						
305-Assembly Joint without Seal	3 - Mod.	229	ft.	0	184	35	10
	CS2- Gouges to CS3- Rusting so CS4- Rear riser inspection. Area	ection loss	with. nected i g riser b	in NB lane 3 par. Thru hole	- no moveme	ent detected	
311-Movable Bearing	3 - Mod.	48	each	16	0	31	1
	CS3- Surface rust. Heavy rust to abutment rockers. Keeper plate broken off of rear rocker 15. CS4- Loss of bearing under rear masonry plate 1 (see abutment comments).						
313-Fixed Bearing	3 - Mod.	16	each	16	0	0	0
321-Reinforced Concrete Approach Slab	3 - Mod.	5600	sq. ft.	5600	0	0	0
330-Metal Bridge Railing	3 - Mod.	428	ft.	22	192	214	0
	CS2- Cracks. N			o .		parapets.	

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4	
815-Drainage	3 - Mod.	8	each	0	8	0	0	
	CS2- Partially plugged scuppers. Bent grate at rear-right. Dirt & debris in berms.							
830-Abutment Backwall	3 - Mod.	409	ft.	202	123	82	2	
	CS2- Leaching cracks. CS3- Delams. Deep spall with exposed rebar behind beam 14 at rear. Other spalls with exposed rebar, some large. Water, dirt & rust stains. CS4- Thru hole to surface in rear bay 11.							

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CUY-00077-1546 _(1806815)

Date Built:

07/01/1962

Major Maint: 01 - State Highway Agency Facility Carried: IR 77 Traffic On: 1 - Highway

Routine Maint: 01 - State Highway Agency Feature Inters: US-422 WB (CUY-422-0125) Traffic Under: 1 - Highway, with or w/out pedestrian pedestrian Insp. Resp A: 01 - State Highway Agency Resp A: FIPS Code: 16000 - CLEVELAND (CUY county) Location: DISTRICT 12 1.37 MI. N. OF JCT. SR-14 Insp. Resp B:

Inspector Persanyi,Andrea Inspection Date 10/31/2022 Reviewer Seif, Youssef

<u>Inspector Comments - Deck and Approach</u>

<u>Deck</u>

Floor

ODOT District: District 12

Spall forming over traffic in bay 10 over lane 3, lane #2 in Bay 3

Curbs/Sidewalk (LF)

Cracks. Many spalls with exposed rebar (nearly entire right curb spalled).

Approach

Approach Wearing Surface (EA)

A few cracks.

Approach Slab (SF)

Paved over with asphalt.

Approach Embankment (EA)

Minor erosion at forward-right.

Approach Guardrail (EA)

Cracks & spalls to concrete approach rails. Collision damage to rear-right & forward-right guardrails.

Signs (EA)

NB median bridge end marker missing.

Inspector Comments - General Appraisal

<u>Superstructure</u>

Diaphragm/X-Frames (EA)

Minor surface rust. Endframe rusting section loss.

Fatigue (LF)

Welded cover plates at piers. Possible crack to lower flange cover plate of beam 14 above P2.

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Substructure

Wingwalls (EA)

Cracks.

Slope Protection (EA)

Top surface of both abutment footings exposed in places. 6" vertical face of rear footing exposed under beam 8. Both rear drainage troughs breaking up.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical