Ohio Bridge Inspection Summary Report

2: District 12 37240 - INDEPENDENCE (CUY county)				
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

CUY-00480-1787WN (1806351)

5A: Inventory Ro	ute	1	00480
7: Facility On	RAMP V	VN	
6: Feature Ints	UP IR 7	7, DN IR-	480-L/R
9: Location	2.01 MI.	E. OF JO	CT. SR-17

	Condition			Structure Type				
58: Deck	5 - Fair Cor	ndition	43: Bridge Type 4 - St	eel continuous				
58.01 Wearing Surface	6 - Satisfact	ory (1-10% distress)	02 - Stringer/Multi-beam or Girde					
58.02 Joint	6- Satisfacto	ory (isolated leaking)	N- Not Applicable					
59: Superstructure	6 - Satisfac	tory Condition	45: Spans Main / Approach 5 / 0					
59.01 Paint & PCS	3 - Serious	PCS (20-30% corr.)	107: Deck Type	1 - Concrete Cast-in-Place				
60: Substructure	5 - Fair Cor	ndition	408: Composite Deck	N - Non-composite Construction				
61: Channel	Ν		414A Joint Type 1	8 - Elastomeric Strip Seal				
61.01 Scour	N - Not App	blicable	414B: Joint Type 2	N - None				
62: Culverts	N - Not App	blicable	108A: Wearing Surface	2 - Integral Concrete (separate non-modified layer of concrete added to structural deck)				
67.01 GA	5		- 422: WE Data	2- MicroSilica				
	Appraisa		422: WS Date	06/01/1996 2.0				
Sufficiency Rating	73.1	SD/FO 2 - FO	423: WS Thick (in)					
36: Rail, Tr, Gd, Term Std	1 1	1 1	482: Protective Coating 483: PCS Date	4 - Paint System B 01/01/1974				
72: Approach Alignment	6 - Equal to	present minimum criteria	453: Bearing Type 1	2 - Rockers & Bolsters				
113: Scour Critical	N - Not ove	r waterway	455: Bearing Type 2	N - None				
71: Waterway Adequacy	N - Not App	licable	528: Foundn: Abut Fwd	2 - Cast-in-Place Reinforced				
	Geometri	C		Concrete Piles (Other diameter)				
18: Max Span Length (ft)		129.0	533: Foundn: Abut Rear					
19: Structure Length (ft)		473.0	536: Foundn: Pier 1	Concrete Piles (Other diameter) 2 - Cast-in-Place Reinforced Concrete Piles (Other diameter)				
52: Deck Width, Out-To-Ou	ıt (ft)	30.3	539: Foundn: Pier 2	2 - Cast-in-Place Reinforced Concrete Piles (Other diameter				
124: Deck Area (sf)		14331.9	Age and Service					
32: Appr Roadway Width (f	t)	36.0	27: Year Built/ 106 Reha					
51: Road Width, Curb-Curb	o (ft)	26.3	42A: Service On	1 - Highway				
50A: Curb/SW Width: Left (0	42B: Service Under	1 - Highway, with or w/out pedestrian				
50A: Curb/SW Width: Righ	t (ft)	0	28A: Lanes on	01				
34: Skew (deg)		46	28B: Lanes Under	10				
33: Bridge Median		0 - No median	19: Bypass Length	2				
54B: Min Vert Undercleara	nce (ft)	16.75	29: ADT	4800				
336A: Min Vert Clrnce IR C	. ,	14.75	109: % Trucks (%)	10				
336B: Min V Clr IR Non-Ca		0	las	rections				
578: Culvert Length (ft)		0	Ins	pections				
- ()	Load Posti	na	90: Routine Insp.	Months 12 05/12/2021				
41: Op/Post/Closed	A - Open	ציי	92A: FCM Insp. N					
•	or above legal	loads	92B: Dive Insp. N					
70. Posting 5 - Equal to 70.01: Date	or above legal	10405	92C: Special Insp. N					
70.01: Date 70.02: Sign Type			92D: UBIT Insp. N					
734: Percent Legal (%)	150		92E: Drone Insp.					
704: Analysis Date	07/01/1973		Inspector Gerstenslac	ar Michael				
63: Analysis Method	6 - Load Fact	or (LF) rating reported by RF) method using MS18	Inspector Gerstenslag	Jer, witch aet				

/ / Inspection Date: 05/12/2021

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.	14348	sq. ft.	6884	4494	2970	0
	Mottled area Approximate delaminatior	ely 50 sf of					
	Transverse I	eaching c	racks (0	CS 2).			
510 - Wearing Surfaces		12456	sq. ft.	8010	3736	650	60
	 60 sf of rough asphalt patch with broken up concrete at forward (CS 4). 10 sf of broken up concrete over 480 Westbound lanes (CS 3). Saturated areas along construction joint with cracks as wide as 1/4" (CS 3). Many transverse cracks and areas of map cracking (CS 2). 						
107 - Steel Open Girder/Beam	-	1892	ft.		1419	473	0
	Rusting section loss throughout (CS 3). Pack rust to some lower flange splice plates (CS 3). Surface rust throughout (CS 2). Slight warp in web of left fascia at forward backwall (CS 2).						
515 - Steel Protective Coating		26960	sq. ft.	0	12132	8088	6740
	Paint failure throughout (CS 4). Peeling and cracking to finish and primer coats throughout (CS 3). Fading and chalking (CS 2).						
205 - Reinforced Concrete Column	-	9	each	3	6	0	0
	Delaminations as large as 10 sf to P1C2 and C3, P2C1 and C2, and P3C1 and C2 (CS 2).						
215 - Reinforced Concrete Abutment	3 - Mod.	88	ft.	41	17	30	0
	Large delaminations and spalls with exposed rebar that go into seat in rear bays 1 and 2. (CS 3). Corner of rear masonry plate 1 is slightly undermined. Spalls with exposed rebar at forward rocker 3 and forward-left corner (CS 3). Cracks (CS 2).						
234 - Reinforced Concrete Pier Cap		, 131	ft.	58	66	7	0
•	Spalls with exposed rebar to left cantilever of P3 cap (CS 3). Many delaminations. (CS 2). Some cantilevered ends have signs of shear type cracks (CS 2). Other cracks (CS 2).						

Inspector: Michael Gerstenslager

Structure Number:

Inspection Date: 05/12/2021

Facility Carried:

1806351 RAMP WN

Bridge Inspection Report

Element Inspection

300 - Strip Seal Expansion Joint	3 - Mod.	88	ft.	35	50	3	0
	Collision damage to rear riser bar and armor (CS 3).						
	Evidence of leakage at rear bay 1 and forward in all bays (CS 2). A						
	few gouges						
311 - Movable Bearing		20	each		16	4	0
511 - MOVADIE Bearing		-		-	-	-	0
	Rusted secti	ion loss to	some a	abutment t	earings (C	,53).	
	Surface rust	(CS 2). C	corners	of some m	nasonrv pla	ates hang o	over the
	edge of pier					5	
313 - Fixed Bearing	3 - Mod.	4	each	0	4	0	0
	Surface rust (CS 2).						
321 - Reinforced Concrete Approach Slab	3 - Mod.	1800	sq. ft.	1800	0	0	0
331 - Reinforced Concrete Bridge Railing	3 - Mod.	946	ft.	0	237	709	0
	Many spalls with exposed rebar (CS 3). Areas of crumbling concrete						
	(CS 3). Large delaminated areas (CS 3).						
	Cracks, collision scrapes (CS 2).						
815 - Drainage		5	each	0	5	0	0
010 - Drainage		-			5	0	0
	Partially plugged scuppers (CS 2).						
830 - Abutment Backwall	3 - Mod.	88	ft.	74	9	5	0
osu - Abutment Backwall			-		9	5	0
	Shallow spalls, rust stains (CS 3).						
	Cracks, some leaching (CS 2).						

CUY-00480-1787WN_	_(1806351)
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ODOT District: 12 Major Maint: 01 - State Highway Agency Facility Carried: RAMP WN Routine Maint: 01 - State Highway Agency FIPS Code: 37240 - INDEPENDENCE (CUY county)

Traffic On: 1 - Highway Feature Inters: UP IR 77, DN IR-480-L/R Traffic Under: 1 - Highway, with or w/out pedestrian Location: DISTRICT 12 2.01 MI. E. OF JCT. SR-17

Reviewer Seif, Youssef

07/01/1974 Date Built: Rehab Date: Insp. 01 - State Highway Agency Resp A: Insp Resp B:

Gerstenslager, Michael Inspection Date 05/12/2021 Inspector

Inspector Comments - Deck and Approach

Deck

Floor/Slab (SF)

Spalls forming over traffic: over 480 WB: bay 1 over lanes 2, 3 & right berm, bay 2 over lane 2 & right berm, bay 3 over lane 2, 3 & right berm. Over 480 EB: bay 1 over lane 1, bay 2 over lane1 and 3 bay 3 over lanes 2 and 3. Over 77 north to 480 west ramp: bay 1 over lane 2.

Edge of Floor/Slab (LF)

Cracks.

Bridge Railing (LF)

Spalls forming on right parapet over all WB lanes.

Deck Drainage (EA)

5 partially plugged scuppers.

Approach

Approach Wearing Surface (EA)

NOTE: South abutment is rear. Cracks. Full width & near full width asphalt patches at both ends. Breaking up areas at both ends (rear is worse).

Approach Slab (SF)

Paved over with asphalt.

Inspector Comments - General Appraisal

Superstructure

Diaphragm/X-Frames (EA)

Rusting throughout. Broken diagonal weld to rear endframe #1.

Lateral Bracing (EA)

Rusting throughout.

Bearing Devices (EA)

Corners of some masonry plates hang over the edge of pier caps in multiple locations.

Fatigue (LF)

Lateral bracing gusset plates welded to beam webs in positive moment areas in span 3 (not retro-fitted).

Substructure

Abutment Walls (LF)

Spalls to forward-right & rear-right cheek walls.

Slope Protection (EA)

Top 24" of forward abutment footing is exposed below bay 1 for 10' of length.

<u>Culvert</u>

Inspector Comments - Waterway

Waterway Adequacy

<u>Channel</u>

Scour Critical