Ohio Bridge Inspection Summary Report

2: District 12 37240 - I	NDEPENDENCE (CUY county)
21: Major Maint A/B	01 - State Highway Agency
225 Routine Main A/B	01 - State Highway Agency
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221 Inspection A/B 01 - State Highway Agency 220: Inv. Location DISTRICT 12

CUY-00480-1790ES (1806343)

5A: Inventory Ro	ute	1	00480
7: Facility On	RAM	P ES	
6: Feature Ints	UP IF	R 77, DN	IR-480-L/R
9: Location	2.04	MI. E. OI	- JCT. SR-17

	Condition		Structure Type					
58: Deck	5 - Fair Con	dition	43: Bridge Type 4 - Steel continuous					
58.01 Wearing Surface	6 - Satisfacto	ory (1-10% distress)	02 - Stringer/Multi-beam or Girder					
58.02 Joint	6- Satisfacto	ry (isolated leaking)	N- Not Applicable					
59: Superstructure	6 - Satisfact	ory Condition	45: Spans Main / Approach 5 / 0					
59.01 Paint & PCS	3 - Serious F	PCS (20-30% corr.)	107: Deck Type	1 - Concrete Cast-in-Place				
60: Substructure	5 - Fair Con	dition	408: Composite Deck	N - Non-composite Construction				
61: Channel	Ν		414A Joint Type 1	8 - Elastomeric Strip Seal				
61.01 Scour	N - Not App	licable	414B: Joint Type 2	N - None				
62: Culverts	N - Not App	licable	108A: Wearing Surface	2 - Integral Concrete (separate non-modified layer of concrete added to structural deck)				
67.01 GA	5							
	Appraisa		422: WS Date	06/01/1996				
Sufficiency Rating	72.5	SD/FO 2 - FO	423. WS THICK (III)	2.U A Daint System D				
36: Rail, Tr, Gd, Term Std	1 1	1 1	482. Frotective Coating	4 - Faint System B 01/01/1973				
72: Approach Alignment	6 - Equal to	present minimum criteria	453: Rearing Type 1	2 - Rockers & Bolsters				
113: Scour Critical	N - Not over	waterway	455: Bearing Type 7	N - None				
71: Waterway Adequacy	N - Not Appl	icable	528: Foundn: Abut Fwd	2 - Cast-in-Place Reinforced				
	Geometric	;		Concrete Piles (Other diameter)				
48: Max Span Length (ft)		134.0	533: Foundn: Abut Rear	2 - Cast-in-Place reinforced				
49: Structure Length (ft)		504.0	536: Foundn: Pier 1	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)				
424: Deck Area (sf)		15271.2	Age	and Service				
32: Appr Roadway Width (f	t)	28.0	27: Year Built/ 106 Reha	ab 1973 / 0000				
51: Road Width, Curb-Curb	o (ft)	28.0	42A: Service On	1 - Highway				
50A: Curb/SW Width: Left ((ft)	0	42B: Service Under	1 - Highway, with or w/out pedestrian				
50A: Curb/SW Width: Right	t (ft)	0	28A: Lanes on	01				
34: Skew (deg)		48	28B: Lanes Under	10				
33: Bridge Median		0 - No median	19: Bypass Length	5				
54B: Min Vert Undercleara	nce (ft)	16.33	29: ADT	13400				
336A: Min Vert Clrnce IR C	ardinal (ft)	14.917	109: % Trucks (%)	5				
336B: Min V Clr IR Non-Ca	rdinal (ft)	0	Ins	pections				
578: Culvert Length (ft)		0		Months				
	Load Postin	g	90: Routine Insp.	12 05/11/2021				
41: Op/Post/Closed	A - Open		92A: FCM Insp. N					
70: Posting 5 - Equal to or above legal loads		92B: Dive Insp. N						
70.01: Date	-		92C: Special Insp. N					
70.02: Sign Type			92D: UBIT Insp. N					
734: Percent Legal (%)	150		92E: Drone Insp.					
704: Analysis Date	07/01/1973		Inspector Gerstenslag	jer,Michael				
63: Analysis Method	7 - Allowable : by rating facto loading.	Stress (AS) rating reported r (RF) method using MS18						

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05/11/2021 Inspection Date:

RAMP ES

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.	15288	sq. ft.	5500	4788	5000	0
	Mottled areas with efflorescence, rust stains, and stalactites (CS 3). Spalls with exposed rebar (CS 3). Delaminations (CS 3).						
	cracks throu	ghout (CS	2).		(
510 - Wearing Surfaces		14112	sq. ft.	7212	4500	2400	0
	Areas of failing concrete and asphalt patches mainly along construction joint (CS 3). Broken up areas with wide cracks along construction joint (CS 3). Localized areas of map cracking that appear saturated . Cracks are as wide as 1/16" (CS 3). Note: failing patches and saturated cracking corresponds with mottled areas of floor mainly in bay 2.						
107 - Steel Open Girder/Beam	3 - Mod.	2016	ft.	0	1516	500	0
	Rusting section loss throughout mainly to lower flanges and at beam ends (CS 3). Pack rust to some lower flange splice plates (CS 3).						
515 - Steel Protective Coating		29900	sq. ft.	0	13455	8970	7475
	Paint failure along lower flanges and at beam ends (CS 4). Rusting and peeling throughout (CS 3). Areas of pigment loss throughout (CS 3). Chalking and faded areas (CS 2).						
205 - Reinforced Concrete Column	3 - Mod.	9	each	5	1	3	0
	12 sf spall with exposed rebar to P3C2 (Cs 3). Spalls as large as 15 sf with exposed rebar to P2C1 and C2 (CS 3). 20 sf delamination to P4C2 (CS 2).						
215 - Reinforced Concrete Abutment	3 - Mod.	91	ft.	38	22	31	0
	Spalls with exposed rebar in rear bays 1 and 2 and forward bays 2 and 3. Spalled area at forward bay 3 extends to right wingwall and partially undermines masonry plate for bearing 4 >1". (CS 3). Cracks and minor delaminations (CS 2).						
234 - Reinforced Concrete Pier Cap	3 - Mod.	136	ft.	68	68	0	0
	Signs of she 2). Many sm	ar type cra all delamir	acks to nations	some cant (CS 2).	ilevered pa	arts of pier	caps (CS
300 - Strip Seal Expansion Joint	3 - Mod.	60	ft.	37	20	3	0
	Gouges to fo	prward arm	nor with	damage s	eal (CS 3).	
	Evidence of	leakage at	t rear a	nd forward	in bay 3 (CS 2).	

Inspector: Michael Gerstenslager

Structure Number: 1806343

Inspection Date: 05/11/2021

Facility Carried: Bridge Inspection Report RAMP ES

Element Inspection

311 - Movable Bearing	3 - Mod.	20	each	0	17	3	0	
	Rusted section loss to forward bearings (CS 3).							
	Surface rust throughout (CS 2).							
313 - Fixed Bearing	3 - Mod.	4	each	0	4	0	0	
	Surface rust	(CS 2).						
321 - Reinforced Concrete Approach Slab	3 - Mod.	1400	sq. ft.	1316	84	0	0	
	Full width asphalt patches to both (CS 2). Many sealed cracks to both (CS 2).							
331 - Reinforced Concrete Bridge Railing	3 - Mod.	1008	ft.	858	100	50	0	
	Rust stained cracks (CS 3).							
	Minor cracks delaminations and spalls to both (CS 2).							
815 - Drainage	3 - Mod.	2	each	1	1	0	0	
	Thick debris in left berm (CS 2).							

630 - Abutilient Backwall 3 - Wod. 91 It. 76	10	5	0
Spall to forward at construction joint in both (CS 3). Shallow spall at forward (CS 2). Crac	bay 2 (CS s (CS 2).	3). Rust s	tains to

ODOT District: 12 Major Maint: 01 - State Highway Agency Facility Carried: RAMP ES 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 2.04 MI. E. OF JCT. SR-17

Reviewer Seif, Youssef

07/01/1973 Date Built: Rehab Date: Insp. 01 - State Highway Agency Resp A: Insp Resp B:

Gerstenslager, Michael Inspection Date 05/11/2021 Inspector

Inspector Comments - Deck and Approach

Deck

Floor/Slab (SF)

Spalls forming over traffic in bay 1 over 77 South to go 480 East lane 2, and bay 1 between lanes 2 and 3 Westbound.

Edge of Floor/Slab (LF)

Cracks. Spall at forward-right corner.

Bridge Railing (LF)

Collision scrapes & gouges. Spall forming on left parapet over 480 EB lane 3.

Expansion Joint (LF)

Loose debris in seals.

Approach

Approach Wearing Surface (EA)

NOTE: South abutment is rear. Many cracks. Asphalt break up. Full width asphalt patches along exits. Other asphalt patches.

Approach Slab (SF)

Paved over with asphalt.

Approach Guardrail (EA)

Rust stained cracks to forward-right concrete approach. Collision damage to forward-right guardrail.

Inspector Comments - General Appraisal

Superstructure

Diaphragm/X-Frames (EA)

Rusting throughout. Rusting thru hole in forward endframe 3.

Lateral Bracing (EA)

Rusting throughout.

Fatigue (LF)

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

Substructure

Wingwalls (EA)

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Cracks. Spall to forward-right wingwall.

<u>Culvert</u>

Inspector Comments - Waterway

Waterway Adequacy

<u>Channel</u>

Scour Critical