

Inspector: Ropelewski,Robert

Inspection Date: 12/09/2024

Structure Number: 1812505

Facility Carried: RMP BETWEEN SR 237

Ohio Bridge Inspection Summary Report**CUY-APTR-1005NS (1812505)**2: District 16000 - CLEVELAND (CUY county)
ict
12

5A: Inventory Route 1 14675

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 RMP BETWEEN SR 237
6: Feature Ints UP480, DN480 TO 71 & 480 TO 237
9: Location 0.6 MI W OF JCT 71 & 480
Lat, Lon 41.419959 , -81.828555

Condition		Structure Type	
58: Deck	5 - Fair Condition	43: Bridge Type	4 - Steel continuous
58.01 Wearing Surface	5 - Fair (10-15%, 2% asphalt patch)		02 - Stringer/Multi-beam or Girder
58.02 Joint	4- Poor (heavy leaking, offset)		N- Not Applicable
59: Superstructure	7 - Good Condition	45: Spans Main / Approach	4 / 0
59.01 Paint & PCS	7 - Good (1-5% corr.)	107: Deck Type	1 - Concrete Cast-in-Place
60: Substructure	6 - Satisfactory 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)
			N- Not Applicable
67.01 GA	6		

Appraisal	
Sufficiency Rating	80.0 SD/FO 2 - FO
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

Geometric	
48: Max Span Length (ft)	85.0
49: Structure Length (ft)	306.0
52: Deck Width, Out-To-Out (ft)	75.9
424: Deck Area (sf)	23225.4
32: Appr Roadway Width (ft)	90.0
51: Road Width, Curb-Curb (ft)	73.0
50A: Curb/SW Width: Left (ft)	0
50A: Curb/SW Width: Right (ft)	0
34: Skew (deg)	52
33: Bridge Median	1 - Open median
54B: Min Vert Underclearance (ft)	14.53
336A: Min Vert Clrnce IR Cardinal (ft)	15
336B: Min V Clr IR Non-Cardinal (ft)	
578: Culvert Length (ft)	0

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	07/01/1975
63: Analysis Method	7 - Allowable Stress (AS) rating reported by rating factor (RF) method using MS18

422: WS Date	
423: WS Thick (in)	2.0
482: Protective Coating	5 - Paint System OZEU
483: PCS Date	01/01/1993
453: Bearing Type 1	2 - Rockers & Bolsters
455: Bearing Type 2	N - None
528: Foundn: Abut Fwd	2 - Cast-in-Place Reinforced Concrete Piles (Other diameter)
533: Foundn: Abut Rear	2 - Cast-in-Place reinforced Concrete Piles (Other diameter)
536: Foundn: Pier 1	4 - Spread Footing (on soil)
539: Foundn: Pier 2	0 - Other

Age and Service	
27: Year Built/ 106 Rehab	1975 / 0000
42A: Service On	1 - Highway
42B: Service Under	1 - Highway, with or w/out pedestrian
28A: Lanes on	04
28B: Lanes Under	04
19: Bypass Length	4
29: ADT	27825
109: % Trucks (%)	7

Inspections	
	Months
90: Routine Insp.	12 12/09/2024
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
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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.	23231	sq. ft.	18143	3500	1526	62
	Timber sub-decked over traffic with water stained wood in median bay. CS2- Cracks. CS3- Spalls, delams & mottled areas. Large spalls along right edge in span 2. Heavy mottled areas with efflorescence build up in bays 8 and 9 of span 4. CS4- Deep spalls & saturated areas.						
805-Wearing Surface - Monolithic Concrete		22338	sq. ft.	16076	4750	1500	12
	CS2- Cracking, many leaching. Map cracking. CS3- Many wide cracks throughout. CS4- Asphalt patch (6sf) in NB lane 2 at forward exjt. Deep spall (2SF) in NB lane 2 at forward exjt. Asphalt patch (4SF) in SB lane 2.						
107-Steel Open Girder/Beam	3 - Mod.	3060	ft.	2753	306	1	0
	CS2- Areas of surface rust. Scrapes to lower flange of right fascia in span 3. CS3- One bolt missing from bottom flange splice plate of beam 6 in span 2.						
515-Steel Protective Coating		28730	sq. ft.	27880	500	350	0
	CS2- Chalking, faded areas CS3- Areas of surface rust.						
205-Reinforced Concrete Column	3 - Mod.	30	each	30	0	0	0
	Some pier columns are fiber wrapped.						
215-Reinforced Concrete Abutment	3 - Mod.	247	ft.	78	123	36	10
	CS2- Leaching cracks. Rust stains. CS3- A few delams. Spall in rear-right cheekwall. Other spalls. CS4- Large spall with 360° rebar exposed at forward-right. Spall with 4+ bars exposed.						
521-Concrete Protective Coating		494	sq. ft.	444	0	0	50
	CS4- CPC is not effective						
300-Strip Seal Expansion Joint	3 - Mod.	152	ft.	0	76	0	76
	CS3- Broken weld in riser bar of rear joint in SB lane 1 (no movement detected). Area of removed riser bar of rear joint in NB lane 2. Gouges in armor. Epoxy and asphalt patches along rear joint headers. Seal pushed up & damaged in other locations. CS4- Seal missing from both joints in NB lanes.						
311-Movable Bearing	3 - Mod.	40	each	20	0	20	0
	CS3- Rusting, heavier to abutment rockers. Pack rust. Shifted masonry plates of forward rocker 4. Shifted masonry plates of rear rockers 3, 6 & 7.						
313-Fixed Bearing	3 - Mod.	10	each	10	0	0	0

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
321-Reinforced Concrete Approach Slab	3 - Mod.	4500	sq. ft.	2750	1500	250	0
	Paved over with asphalt. CS2- Cracking. CS3- Wide cracking in asphalt. Asphalt patches. Pothole at forward lane 1 SB. Broken up asphalt and small potholes along both NB exjts.						
331-Reinforced Concrete Bridge Railing	3 - Mod.	612	ft.	307	91	214	0
	CS2- Vertical cracks. Collision scrapes. CS3- Many spalls, some with exposed rebar along outer face.						
521-Concrete Protective Coating		4284	sq. ft.	0	0	0	4284
	CS4- CPC is not effective						
815-Drainage	3 - Mod.	20	each	12	4	0	4
	CS2- Partially plugged scuppers. CS4- Plugged scuppers.						
830-Abutment Backwall	3 - Mod.	247	ft.	182	25	37	3
	CS2- Leaching cracks. CS3- Large shallow spalls to forward & rear. CS4- Spalls with 360° rebar exposed thru to surface in forward median bay & forward bay 8.						
521-Concrete Protective Coating		988	sq. ft.	888	0	0	100
	CS4- CPC is not effective						
901-Vertical Clearance Sign	3 - Mod.	2	each	2	0	0	0

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ODOT District: District 12

CUY-APTFR-1005NS_(1812505)

Date Built: 07/01/1975

Major Maint: 01 - State Highway Agency

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Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: UP480, DN480 TO 71 & 480 TO 23

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

Insp. 01 - State Highway Agency

FIPS Code: 16000 - CLEVELAND (CUY county)

Location: DISTRICT 12

0.6 MI W OF JCT 71 & 480

Insp

Resp B:

Inspector

Ropelewski,Robert

Inspection Date

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Reviewer

Seif, Youssef

Inspector Comments - Deck and Approach

Deck

Approach

Approach Wearing Surface

Asphalt patches, asphalt break up, many cracks mainly along exjts. Other cracks.

Approach Guardrail

Minor dents to forward-left guardrail.

Signs

No bridge end markers.

Inspector Comments - General Appraisal

Superstructure

Diaphragm/X-Frames

Rusting section loss. Rusting through hole in rear endframe 4.

Fatigue

Welded cover plates at piers.

Substructure

Wingwalls

Cracks.

Slope Protection

Erosion ruts as deep as 2' below median scuppers & right scuppers in rear slope.

Culvert

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Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical

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Bridge Inspection Report

Pictures