

Inspector: Gerstenslager,Michael

Inspection Date: 12/03/2025

Structure Number: 1812505

Facility Carried: RMP BETWEEN SR 237

## Ohio Bridge Inspection Summary Report

**CUY-APTR-1005NS (1812505)**

B.L.04: District District 1216000 - CLEVELAND (CUY county)  
B.CL.02: Major Maint 01 - State Highway Agency /  
225 Routine Main A/B 01 - State Highway Agency /  
221 Inspection A/B 01 - State Highway Agency /

5A: Inventory Route 1 14675  
7: Facility On RMP BETWEEN SR 237  
6: Feature Ints UP480,DN480TO71&480TO237  
9: Location 0.6 MI W OF JCT 71 & 480  
Lat, Lon 41.419969 ,-81.828631

### Condition

**B.C.01: Deck** 4  
58.01: Wearing Surface 4  
**B.C.08: Joint** 4  
**B.C.02: Superstructure** 7  
59.01: Paint & PCS 6  
**B.C.03: Substructure** 4  
**B.C.09: Channel** N  
**B.C.11: Scour** N  
**B.C.10: Channel Prot.** N  
**B.C.05: Bridge Railing** 5  
  
**B.C.06: Transitions** 6  
**B.C.07: Bearings** 5  
  
**B.C.04: Culverts** N  
**Ohio GA** 4

### Structure Type

43: Bridge Type 4 - Steel continuous  
02 - Stringer/Multi-beam or Girder  
N- Not Applicable  
45: Spans Main / Approach 4 / 0  
107: Deck Type 1 - Concrete Cast-in-Place  
408: Composite Deck N - Non-composite Construction  
414A Joint Type 1 8 - Elastomeric Strip Seal  
414B: Joint Type 2 N - None  
108A: Wearing Surface 1 - Monolithic Concrete  
(concurrently placed with structural deck)  
N - Not Applicable

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

### Appraisal

B.AP.03: Scour Vul. Not over Waterway

### 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

### 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

### 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 loading.

### Inspections

	Months	
B.IE.03 Routine Insp.	12	12/03/2025
B.IE.03: NSTM Insp.	N	
B.IE.03: UW Insp.	0	
B.IE.03: Special Insp.		
UBIT Insp.	N	0
Drone Insp.	N	0

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>12-Reinforced Concrete Deck</b>	3 - Mod.	23231	sq. ft.	17669	3500	2000	62
	Timber sub-decked over traffic with water stained wood in median bay.  CS2- Cracks. Delaminations.  CS3- Spalls, & mottled areas. Rust stains. Large spalls along right edge in span 2. Heavy mottled areas with efflorescence build up and long stalactites in bays 8 and 9 of span 4.  CS4- Deep spalls & saturated areas.						
<b>805-Wearing Surface - Monolithic Concrete</b>		22338	sq. ft.	15703	4750	1850	35
	CS2- Cracking, many leaching. Map cracking.  CS3- Many wide cracks throughout. Shallow spall in NB lane 1 near mid-span. 2sf of concrete break up in lane 2 NB near mid-span. Shallow spall in lane 2 SB near mid-span.  CS4- Rough 10sf asphalt patch in NB lane 1 and 2 along forward exjt. Asphalt patches in lanes 1 and 2 near forward. Asphalt patch (4SF) in SB lane 2. Asphalt patch in lane 2 SB near mid-span.						
<b>107-Steel Open Girder/Beam</b>	3 - Mod.	3060	ft.	2752	306	2	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. Small area of pack rust to base of web of beam 5 at forward abutment.						
<b>515-Steel Protective Coating</b>		28730	sq. ft.	0	28380	350	0
	CS2- Chalking, faded areas  CS3- Areas of surface rust.						
<b>205-Reinforced Concrete Column</b>	3 - Mod.	30	each	30	0	0	0
	Some pier columns are fiber wrapped.						
<b>215-Reinforced Concrete Abutment</b>	3 - Mod.	247	ft.	67	123	47	10
	CS2- Leaching cracks. Rust stains.  CS3- A few delams. Spall in rear-right cheekwall. Spalls with exposed rebar at forward in bay 7 and rear in bay 1.  CS4- Large spall with 360° rebar exposed at forward-right. Large spall with exposed rebar, crumbling concrete and seat loss at forward under beam 5.						
<b>521-Concrete Protective Coating</b>		494	sq. ft.	444	0	0	50
	CS4- CPC is not effective						
<b>300-Strip Seal Joint</b>	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.						
<b>311-Movable Bearing</b>	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.						

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>313-Fixed Bearing</b>	3 - Mod.	10	each	10	0	0	0
<b>321-Reinforced Concrete Approach Slab</b>	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.						
<b>331-Reinforced Concrete Bridge Railing</b>	3 - Mod.	612	ft.	307	91	214	0
	CS2- Vertical cracks. Collision scrapes. CS3- Many spalls, some with exposed rebar along outer face.						
<b>521-Concrete Protective Coating</b>		4284	sq. ft.	0	0	0	4284
	CS4- CPC is not effective						
<b>815-Drainage</b>	3 - Mod.	20	each	12	4	0	4
	CS2- Partially plugged scuppers. CS4- Plugged scuppers.						
<b>830-Abutment Backwall</b>	3 - Mod.	247	ft.	171	25	48	3
	CS2- Leaching cracks. CS3- Large shallow spalls with exposed rebar to forward & rear. CS4- Spalls with 360° rebar exposed thru to surface in forward median bay & forward bay 8.						
<b>521-Concrete Protective Coating</b>		988	sq. ft.	888	0	0	100
	CS4- CPC is not effective						
<b>901-Vertical Clearance Sign</b>	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

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Reviewer Seif, Youssef

**Inspector Comments - Deck and Approach**

**Deck, Wearing Surface, Joints, Railing**

**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, Bearings**

**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**

**Channel Protection**

**Channel**

**Scour**

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## Pictures



PHOTO 9 Condition

Description SB forward exjt.