

Inspector: Miller,Jason

Inspection Date: 04/20/2023

Structure Number: 1814133

Facility Carried: IR 480

**Ohio Bridge Inspection Summary Report****CUY-00480-0540 (1814133)**2: District 56882 - NORTH OLMSTED (CUY county)  
ict  
12

5A: Inventory Route 1 00480

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 IR 480  
6: Feature Ints CR 52 (CLAGUE RD)  
9: Location 1.1 MI. E. OF JCT. SR-252  
Lat, Lon 41.422047 , -81.877569

Condition		Structure Type	
<b>58: Deck</b>	<b>7 - Good Condition</b>	43: Bridge Type	4 - Steel continuous
58.01 Wearing Surface	7 - Good (1% distress)		02 - Stringer/Multi-beam or Girder
58.02 Joint	6- Satisfactory (isolated leaking)		N- Not Applicable
<b>59: Superstructure</b>	<b>7 - Good Condition</b>	45: Spans Main / Approach	4 / 0
59.01 Paint & PCS	6 - Satisfactory (5-10% corr.)	107: Deck Type	1 - Concrete Cast-in-Place
<b>60: Substructure</b>	<b>6 - Satisfactory Condition</b>	408: Composite Deck	N - Non-composite Construction
<b>61: Channel</b>	<b>N</b>	414A Joint Type 1	8 - Elastomeric Strip Seal
61.01 Scour	<b>N - Not Applicable</b>	414B: Joint Type 2	N - None
<b>62: Culverts</b>	<b>N - Not Applicable</b>	108A: Wearing Surface	2 - Integral Concrete (separate non-modified layer of concrete added to structural deck)

67.01 GA 6

Appraisal	
Sufficiency Rating	81.8 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)	56.0
49: Structure Length (ft)	184.0
52: Deck Width, Out-To-Out (ft)	125.8
424: Deck Area (sf)	23147.2
32: Appr Roadway Width (ft)	118.0
51: Road Width, Curb-Curb (ft)	122.0
50A: Curb/SW Width: Left (ft)	0
50A: Curb/SW Width: Right (ft)	0
34: Skew (deg)	27
33: Bridge Median	1 - Open median
54B: Min Vert Underclearance (ft)	15.25
336A: Min Vert Clrnce IR Cardinal (ft)	99
336B: Min V Clr IR Non-Cardinal (ft)	0
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	07/01/1900
63: Analysis Method	7 - Allowable Stress (AS) rating reported by rating factor (RF) method using MS18 loading.

422: WS Date	01/01/2001
423: WS Thick (in)	2.0
482: Protective Coating	5 - Paint System OZEU
483: PCS Date	06/01/1995
453: Bearing Type 1	2 - Rockers & Bolsters
455: Bearing Type 2	N - None
528: Foundn: Abut Fwd	1 - Steel H Piles (Other size)
533: Foundn: Abut Rear	1 - Steel H Piles (Other Size)
536: Foundn: Pier 1	1 - Steel H Piles (Other size)
539: Foundn: Pier 2	0 - Other

Age and Service	
27: Year Built/ 106 Rehab	1980 / 0000
42A: Service On	1 - Highway
42B: Service Under	1 - Highway, with or w/out pedestrian
28A: Lanes on	06
28B: Lanes Under	04
19: Bypass Length	2
29: ADT	82613
109: % Trucks (%)	5

Inspections	
90: Routine Insp.	Months 12 04/20/2023
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
<b>12-Reinforced Concrete Deck</b>	3 - Mod.	23138	sq. ft.	21538	1600	0	0
	CS2- Transverse cracks, a few leaching. Minor haunch spalls.						
510-Wearing Surfaces		22448	sq. ft.	21318	1122	8	0
	CS2- Cracks.						
	CS3- Wide crack and spalling at rear, EB Lanes #2 and #3 at deck armor. Spalls in lane 2 and 3 at WB forward joint. Wide cracking and delams along expansion joints.						
<b>107-Steel Open Girder/Beam</b>	3 - Mod.	2880	ft.	2133	720	27	0
	CS2- Areas of surface rust.						
	CS3- Rusting section loss at some beam ends.						
515-Steel Protective Coating		21616	sq. ft.	0	21316	300	0
	CS2- Chalking and fading throughout.						
	CS3- Areas of surface rust. Peeling and blistering mainly along lower flanges.						
<b>205-Reinforced Concrete Column</b>	3 - Mod.	24	each	18	3	2	1
	CS2- Area of incomplete fiber wrap from previous conduit installation to P1C1. P1C6 has ~2 sf delam. P3C7 has rust bleeding through fiber wrap.						
	CS3- P3C2 has ~10 sf delam. P2C8 has ~3 sf spall with exposed rebar.						
	CS4- P1C2 has ~4 sf Spall with 6 rebars exposed and 10 sf delam.						
521-Concrete Protective Coating		3391	sq. ft.	3371	0	0	20
	CS4- Not effective.						
<b>215-Reinforced Concrete Abutment</b>	3 - Mod.	283	ft.	216	28	39	0
	Heavy leakage at median bays of both abutments.						
	CS2- Cracks. Minor delams. A few minor spalls.						
	CS3- Spalls with exposed rebar as large as 5 sf, some extend into seat, mostly to forward at bearings 1,4 and 10-12. Wide horizontal cracks with delams. Rust stained cracks.						
521-Concrete Protective Coating		566	sq. ft.	541	0	0	25
	CS4- Not effective.						
<b>234-Reinforced Concrete Pier Cap</b>	3 - Mod.	424	ft.	421	3	0	0
	CS3- Minor spall at median near P3C5. A few cracks.						
521-Concrete Protective Coating		0	sq. ft.	0	0	0	0
<b>300-Strip Seal Expansion Joint</b>	3 - Mod.	282	ft.	205	45	32	0
	Areas of ponding water on both abutment seats.						
	CS2- Dirt & debris in seals. Surface rust to deck armor in berms.						
	CS3- Seals torn and leaking in spots. A few spalls to headers. Areas of section loss to armor.						

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>311-Movable Bearing</b>	3 - Mod.	64	each	26	22	10	6
	CS2- Surface rust. CS3- Areas of pack rust to abutment rockers. CS4- Forward rockers 3, 6,11,14 and rear #3, 5 are loose and not bearing.						
<b>313-Fixed Bearing</b>	3 - Mod.	16	each	16	0	0	0
<b>321-Reinforced Concrete Approach Slab</b>	3 - Mod.	6100	sq. ft.	5404	610	80	6
	CS2- A few cracks. CS3- Wide cracks to WB forward. Wide full length crack to rear and Forward EB #3 lanes. A few spalls to WB forward. CS4- Asphalt patch at forward WB lane #3.						
<b>331-Reinforced Concrete Bridge Railing</b>	3 - Mod.	736	ft.	621	55	60	0
	CS2- Cracks. Minor delams. Collision scrapes. CS3- Spalls, some with exposed rebar. Wide horizontal cracks, mostly to railings. Delams.						
521-Concrete Protective Coating		0	sq. ft.	0	0	0	0
<b>815-Drainage</b>	3 - Mod.	4	each	4	0	0	0
<b>830-Abutment Backwall</b>	3 - Mod.	283	ft.	262	15	6	0
	CS2- Cracks and minor delams. CS3- Spalls in forward bays 6 & 7.						
521-Concrete Protective Coating		1415	sq. ft.	1409	0	0	6
	CS4- Not effective.						

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ODOT District: District 12

**CUY-00480-0540 \_(1814133)**

Date Built: 07/01/1980

Major Maint: 01 - State Highway Agency

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Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: CR 52 (CLAGUE RD)

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

Insp. 01 - State Highway Agency

FIPS Code: 56882 - NORTH OLMSTED (CUY county)

Location: DISTRICT 12

1.1 MI. E. OF JCT. SR-252

Insp

Resp B:

Inspector

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Inspection Date

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Reviewer

Seif,Youssef

## **Inspector Comments - Deck and Approach**

### **Deck**

### **Approach**

#### **Approach Wearing Surface**

Cracks. Asphalt patches. A few potholes. Some asphalt breaking up.

#### **Approach Medians**

Cracks & spalls to concrete approaches.

#### **Approach Guardrail**

Moderate damage to rear left rail.

#### **Approach Embankment**

Erosion ruts as deep as 1.5' at forward-right.

#### **Sign Supports**

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Some rusting section loss to fasteners (connected to rail).

## **Inspector Comments - General Appraisal**

### **Superstructure**

#### **Diaphragm/X-Frames**

Minor rusting section loss to some endframes.

#### **Fatigue**

Beams in span 1 are butt welded with change in flange width near P1.

#### **Utilities**

Pull box cover missing on PIC8.

### **Substructure**

#### **Slope Protection**

Uneven settlement, piles of dirt below several weep holes. Spall at forward slope under beam 15 as deep as 1' and extends 11' to the north-east towards the forward abutment.

### **Culvert**

## **Inspector Comments - Waterway**

### **Waterway Adequacy**

#### **Channel**

#### **Scour Critical**

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**Bridge Inspection Report**

**Pictures**