

# Ohio Bridge Inspection Summary Report

**CUY-00071-1007SW (1814257)**

2: District 12 16000 - CLEVELAND (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 CUY

5A: Inventory Route 1 00071  
 7: Facility On RAMP SW FROM I-71  
 6: Feature Ints IR 480 MAINLINE  
 9: Location .19 MI. E. OF JCT. I-71

## Condition

**58: Deck** **4 - Poor Condition**  
 58.01 Wearing Surface 5 - Fair (10-15%, 2% asphalt patch)  
 58.02 Joint 4- Poor (heavy leaking, offset)  
**59: Superstructure** **6 - Satisfactory Condition**  
 59.01 Paint & PCS 3 - Serious PCS (20-30% corr.)  
**60: Substructure** **7 - Good Condition**  
**61: Channel** **N**  
**61.01 Scour** **N - Not Applicable**  
**62: Culverts** **N - Not Applicable**

## 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 2 - Sliding Metal Plate Angle  
 414B: Joint Type 2 N - None  
 108A: Wearing Surface 1 - Monolithic Concrete  
 (concurrently placed with structural deck)  
 N- Not Applicable

**67.01 GA** **6**

## Appraisal

Sufficiency Rating 85.3 SD/FO 1 - SD  
 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

422: WS Date 07/01/1980  
 423: WS Thick (in) 1.2  
 482: Protective Coating 7 - Metalized (Alum/Zinc)  
 483: PCS Date 01/01/1980  
 453: Bearing Type 1 2 - Rockers & Bolsters  
 455: Bearing Type 2 N - None  
 528: Foundn: Abut Fwd 4 - Spread Footing  
 533: Foundn: Abut Rear 4 - Spread Footing  
 536: Foundn: Pier 1 4 - Spread Footing  
 539: Foundn: Pier 2 0 - Other

## Geometric

48: Max Span Length (ft) 100.0  
 49: Structure Length (ft) 326.0  
 52: Deck Width, Out-To-Out (ft) 30.3  
 424: Deck Area (sf) 9892.0  
 32: Appr Roadway Width (ft) 22.0  
 51: Road Width, Curb-Curb (ft) 26.5  
 50A: Curb/SW Width: Left (ft) 0  
 50A: Curb/SW Width: Right (ft) 0  
 34: Skew (deg) 48  
 33: Bridge Median 0 - No median  
 54B: Min Vert Underclearance (ft) 16.37  
 336A: Min Vert Clrnce IR Cardinal (ft) 99  
 336B: Min V Clr IR Non-Cardinal (ft) 0  
 578: Culvert Length (ft) 0

## 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 01  
 28B: Lanes Under 06  
 19: Bypass Length 1  
 29: ADT 77220  
 109: % Trucks (%) 4

## 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.

## Inspections

90: Routine Insp. *Months* 12 11/24/2020  
 92A: FCM Insp. N  
 92B: Dive Insp. N  
 92C: Special Insp. N  
 92D: UBIT Insp. N  
 92E: Drone Insp.  
 Inspector Banaszak, Ken

Inspector: Ken Banaszak  
 Inspection Date: 11/24/2020

Structure Number: 1814257  
 Facility Carried: RAMP SW FROM I-71

**Bridge Inspection Report**

**Element Inspection**

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>12 - Reinforced Concrete Deck</b>	3 - Mod.	9892	sq. ft.	5032	4530	220	110
805 - Wearing Surface - Monolithic Concrete		8639	sq. ft.	7655	910	17	57
<b>107 - Steel Open Girder/Beam</b>	3 - Mod.	1304	ft.	1094	210	0	0
515 - Steel Protective Coating		17452	sq. ft.	1500	12052	800	3100
<b>205 - Reinforced Concrete Column</b>	3 - Mod.	12	each	12	0	0	0
<b>215 - Reinforced Concrete Abutment</b>	3 - Mod.	91	ft.	69	13	9	0
<b>305 - Assembly Joint without Seal</b>	3 - Mod.	61	ft.	21	10	0	30
<b>311 - Movable Bearing</b>	3 - Mod.	16	each	0	7	9	0
<b>313 - Fixed Bearing</b>	3 - Mod.	4	each	0	2	2	0
<b>321 - Reinforced Concrete Approach Slab</b>	3 - Mod.	1100	sq. ft.	375	650	75	0
<b>331 - Reinforced Concrete Bridge Railing</b>	3 - Mod.	652	ft.	117	520	15	0
<b>815 - Drainage</b>	3 - Mod.	9	each	6	3	0	0
<b>830 - Abutment Backwall</b>	3 - Mod.	91	ft.	63	9	19	0

ODOT District: 12

## CUY-00071-1007SW\_(1814257)

Date Built: 07/01/1980

Major Maint: 01 - State Highway Agency

Facility Carried: RAMP SW FROM I-71

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: IR 480 MAINLINE

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

Insp: 01 - State Highway Agency

FIPS Code: 16000 - CLEVELAND (CUY county)

Location: CUY

.19 MI. E. OF JCT. I-71

Resp A:

Insp

Resp B:

Inspector

Banaszak, Ken

Inspection Date

11/24/2020

Reviewer Seif, Youssef

### Inspector Comments - Deck and Approach

#### Deck

##### Floor/Slab (SF)

Leaching cracks. Spalls with exposed rebar, some with 360. Delams. Some mottled areas. Transverse leaching cracks to deck edge.

##### Bridge Wearing Surface (SF)

Transverse cracks. Minor spalled & breaking up areas. Some epoxy & asphalt patches.

##### Bridge Railing (LF)

Many transverse & vertical cracks. Map cracks. Minor spalls & delams. A few rust stains & collision scrapes.

##### Deck Drainage (EA)

Rusting section loss to downspouts.

##### Expansion Joint (LF)

ExJt closed at rear-left with no gap between deck & approach rail (on the outside). No gap between bridge rail & approach rail at rear-right. Spalls to ExJt headers.

#### Approach

##### Approach Wearing Surface

Some cracks. Map cracks.

##### Approach Slab (SF)

Asphalt patch near ExJt and cracks at rear. Rear slab has settled causing bounce onto bridge. *Note: Forward slab paved over with asphalt.* Cracks and broken up asphalt to forward.

##### Approach Relief Joint

Cracks. Asphalt patches, small potholes & asphalt deterioration to both. Humped up area to forward relief JT.

##### Approach Embankment

Minor erosion at rear-right (covered with vegetation).

##### Approach Guardrail

Inside right concrete rail is compression spalled at rear ExJt. Collision damage with 1 damaged post to rear-right and forward left guardrails.

### Inspector Comments - General Appraisal

## Superstructure

### Superstructure Alignment

Dip in right parapet in span 1.

### Beams/Girders (LF)

Surface rust & rusting section loss throughout, heavier at beam ends. Fretting at tops of some bearing stiffeners. Scraped area to outside web of right fascia at forward abutment.

### Diaphragm/X-Frames

Surface rust. Rusting section loss to end frames.

### Bearing Devices (EA)

Rusting section loss with some pack rust to abutment rockers. Surface rust to other rockers. Rocker on P3C4 tipped in. Forward rocker 3 slightly tipped out at 60°

### Protective Coating System (SF)

Rusting, heavy at beam ends & along lower flanges. Faded, chalking & peeling throughout.

## Substructure

### Abutment Walls (LF)

Cracks, some leaching. Rust stains. Delams, some large. Right corner of rear abutment has spalled off.

### Pier Columns/Bents (EA)

*Note: All columns fiber wrapped. Some air pockets in fiber wrap (P3C3 has 8 SF air pocket).*

### Backwalls (LF)

Cracks, some leaching. Large delaminated areas. Spalls with exposed rebar as large as 8 sf in rear bay 3 and forward bays 2 & 3.

### Wingwalls

A few cracks and spalls.

## Culvert

## Inspector Comments - Waterway

### Waterway Adequacy

### Channel

## Scour Critical