

# Ohio Bridge Inspection Summary Report

**CUY-00090-1110 (1808303)**

2: District 12 16000 - CLEVELAND (CUY county)  
 21: Major Maint A/B 01 - State Highway Agency /  
 225 Routine Main A/B 04 - City or Municipal Highway /  
 Agency  
 221 Inspection A/B 01 - State Highway Agency /  
 220: Inv. Location CUY

5A: Inventory Route 1 0W106  
 7: Facility On WEST 106TH STREET  
 6: Feature Ints IR-90 (W106TH)  
 9: Location .75 MI W OF JCT SR 10

Condition	
<b>58: Deck</b>	<b>7 - Good Condition</b>
58.01 Wearing Surface	7 - Good (1% distress)
58.02 Joint	5- Fair (obvious leaking, 1" offset)
<b>59: Superstructure</b>	<b>8 - Very Good Condition</b>
59.01 Paint & PCS	7 - Good (1-5% corr.)
<b>60: Substructure</b>	<b>5 - Fair Condition</b>
<b>61: Channel</b>	<b>N</b>
61.01 Scour	<b>N - Not Applicable</b>
<b>62: Culverts</b>	<b>N - Not Applicable</b>

Structure Type	
43: Bridge Type	4 - Steel continuous 02 - Stringer/Multi-beam or Girder N- Not Applicable
45: Spans Main / Approach	3 / 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	2 - Integral Concrete (separate non-modified layer of concrete added to structural deck) 2- MicroSilica

**67.01 GA 5**

Appraisal	
Sufficiency Rating	74.3 SD/FO 2 - FO
36: Rail, Tr, Gd, Term Std	1 0 0 0
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	07/01/2000
423: WS Thick (in)	2.0
482: Protective Coating	5 - Paint System OZEU
483: PCS Date	08/09/2001
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)	88.0
49: Structure Length (ft)	228.0
52: Deck Width, Out-To-Out (ft)	42.3
424: Deck Area (sf)	9644.4
32: Appr Roadway Width (ft)	28.0
51: Road Width, Curb-Curb (ft)	28.0
50A: Curb/SW Width: Left (ft)	6
50A: Curb/SW Width: Right (ft)	6
34: Skew (deg)	9
33: Bridge Median	0 - No median
54B: Min Vert Underclearance (ft)	14.68
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	1977 / 0000
42A: Service On	5 - Highway-pedestrian
42B: Service Under	1 - Highway, with or w/out pedestrian
28A: Lanes on	02
28B: Lanes Under	10
19: Bypass Length	2
29: ADT	1000
109: % Trucks (%)	

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		
	<i>Months</i>	
90: Routine Insp.	12	03/24/2021
92A: FCM Insp.	N	0
92B: Dive Insp.	N	0
92C: Special Insp.	N	0
92D: UBIT Insp.	N	
92E: Drone Insp.		
Inspector	Banaszak, Ken	

Inspector: Ken Banaszak  
 Inspection Date: 03/24/2021

Structure Number: 1808303  
 Facility Carried: WEST 106TH STREET

**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.	9690	sq. ft.	6472	3200	18	0
	CS2- Many areas of map cracks, some transverse cracks that are leaching. CS3- 8 SF of delams and 10 SF of spalls						
510 - Wearing Surfaces		6384	sq. ft.	3028	3350	6	0
	CS2- Transverse cracks, some as wide as 1/16", at 2-5 foot spacing. With areas of map cracks. CS3- Approximately 6 SF of delams and a few small spalls.						
<b>107 - Steel Open Girder/Beam</b>	3 - Mod.	1140	ft.	1095	45	0	0
	CS2- Areas of shallow section loss						
515 - Steel Protective Coating		16616	sq. ft.	10936	5500	165	15
	CS2- Chalking areas, primer exposed on both fascia beams. Small to medium areas of freckled rust. CS3- Minor scaling rust areas. CS4- Minor areas of bare rust.						
<b>205 - Reinforced Concrete Column</b>	3 - Mod.	6	each	0	3	3	0
	CS2- P1C1- 5 SF delams P2C1- 6 SF delams with map cracks P2C3- 6 SF delams with wide cracks CS3- P1C2- 11 SF delams with many wide cracks P1C3- 25 SF delams with wide cracks P2C2- 10 SF delams with wide cracks						
<b>215 - Reinforced Concrete Abutment</b>	3 - Mod.	80	ft.	34	8	38	0
	CS2- Some areas of cracks to both CS3- Rear abutment has approximately 25 SF of spalls and 125 SF of delams. Forward abutment has approximately 55 SF of delams.						
<b>234 - Reinforced Concrete Pier Cap</b>	3 - Mod.	80	ft.	45	32	3	0
	CS2- Both caps have areas of cracks CS3- Minor delams to both						
<b>300 - Strip Seal Expansion Joint</b>	3 - Mod.	80	ft.	0	67	9	4
	CS2- Cracks and a few small spalls to tops of both expansion joint headers. CS3- Several deep gouges in armor of both expansion joints. Areas of rusted section loss. CS4- Areas as large as 6" rusting thru hole in rear right sidewalk cover plate. Evidence of leaking forward bay 4.						
<b>311 - Movable Bearing</b>	3 - Mod.	15	each	0	15	0	0
	CS2- Some pack rust starting to form to most						

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**Element Inspection**

<b>313 - Fixed Bearing</b>	3 - Mod.	5	each	0	5	0	0
CS2- Some rockers have rusted section loss							
<b>321 - Reinforced Concrete Approach Slab</b>	3 - Mod.	1400	sq. ft.	997	400	3	0
CS2- Rear has minor transverse cracks. Forward has several transverse cracks and diagonal cracks. Some as wide as 1/8"							
CS3- A few small shallow spalls and a few small asphalt patches.							
<b>331 - Reinforced Concrete Bridge Railing</b>	3 - Mod.	456	ft.	412	28	16	0
CS2- Rust stained cracks, most are vertical.							
CS3- 8SF of spalls, and 8SF of delams to the inside of rails.							
<b>815 - Drainage</b>	3 - Mod.	2	each	1	1	0	0
CS2- Ponding to the forward right berm.							
<b>830 - Abutment Backwall</b>	3 - Mod.	80	ft.	55	20	5	0
CS2- Some vertical and diagonal cracks, some with rust stains.							
CS3- A few delams. Spalls and delams around utility vault in rear bay 1.							

ODOT District: 12

## CUY-00090-1110 \_(1808303)

Date Built: 07/01/1977

Major Maint: 01 - State Highway Agency

Facility Carried: WEST 106TH STREET

Traffic On: 5 - Highway-pedestrian

Rehab Date:

Routine Maint: 04 - City or Municipal Highway  
Agency

Feature Inters: IR-90 (W106TH)

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

Insp: 01 - State Highway Agency

FIPS Code: 16000 - CLEVELAND (CUY county)

Location: CUY

.75 MI W OF JCT SR 10

Resp A:

Insp

Resp B:

Inspector

Banaszak, Ken

Inspection Date

03/24/2021

Reviewer

Seif, Youssef

### Inspector Comments - Deck and Approach

#### Deck

##### Floor/Slab

-

##### Curbs/Sidewalk (LF)

Concrete patches, delams & shallow spalls to curbs. A few transverse cracks.

#### Approach

##### Approach Wearing Surface (EA)

Wide cracks. Some asphalt patches. Some concrete settlement to rear.

##### Approach Guardrail (EA)

Minor rusting section loss. Rear left- 2 broken spacers. Rear right- 2 missing spacers, 1 post rot. Forward right- 2 missing spacers

##### Signs (EA)

No bridge end markers.

### Inspector Comments - General Appraisal

#### Superstructure

##### Utilities (LF)

Some conduits are cracked. A few conduit separations. Rusting section loss to steel outer shell of bay 3 utility with thru hole in span 1.

#### Substructure

##### Wingwalls (EA)

Forward-right tipped out approx 5". Cracks. Minor delam to forward-right.

#### Culvert

**Inspector Comments - Waterway**

**Waterway Adequacy**

**Channel**

**Scour Critical**