

Inspector: Persanyi,Andrea  
 Inspection Date: 10/13/2022

Structure Number: 1811967  
 Facility Carried: SNOW RD CR-87

Bridge Inspection Report

**Ohio Bridge Inspection Summary Report**

**CUY-00291-0299 (1811967)**

2: District 09288 - BROOK PARK (CUY county)  
 District 12

5A: Inventory Route 1 C0087

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 DISTRICT 12

7: Facility On SNOW RD CR-87  
 6: Feature Ints SR-291 & CSX RR  
 9: Location 0.25 MI. WEST OF I-71  
 Lat, Lon 41.40312790500403 , -81.82529527095033

**Condition**

**58: Deck** **5 - Fair Condition**  
 58.01 Wearing Surface 5 - Fair (10-15%, 2% asphalt patch)  
 58.02 Joint 5- Fair (obvious leaking, 1" offset)  
**59: Superstructure** **7 - Good Condition**  
 59.01 Paint & PCS 7 - Good (1-5% 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  
 07 - Frame (except frame culverts)  
 N- Not Applicable  
 45: Spans Main / Approach 7 / 0  
 107: Deck Type 1 - Concrete Cast-in-Place  
 408: Composite Deck X - Not Applicable  
 414A Joint Type 1 3 - Compression Seal  
 414B: Joint Type 2 N - None  
 108A: Wearing Surface 2 - Integral Concrete (separate non-modified layer of concrete added to structural deck)  
 N- Not Applicable

67.01 GA 7

**Appraisal**

Sufficiency Rating 71.1 SD/FO 0 - ND  
 36: Rail, Tr, Gd, Term Std 1 1 1 1  
 72: Approach Alignment 6 - Equal to present minimum criteria  
 113: Scour Critical N - Not over waterway  
 71: Waterway Adequacy N - Not Applicable

422: WS Date 01/01/2001  
 423: WS Thick (in) 2.0  
 482: Protective Coating 5 - Paint System OZEU  
 483: PCS Date 01/01/2002  
 453: Bearing Type 1 2 - Rockers & Bolsters  
 455: Bearing Type 2 B - Fixed  
 528: Foundn: Abut Fwd 4 - Spread Footing (on soil)  
 533: Foundn: Abut Rear 4 - Spread Footing (on Soil)  
 536: Foundn: Pier 1 0 - Other  
 539: Foundn: Pier 2 N - None (Such as most Culverts)

**Geometric**

48: Max Span Length (ft) 137.0  
 49: Structure Length (ft) 878.0  
 52: Deck Width, Out-To-Out (ft) 64.0  
 424: Deck Area (sf) 56192  
 32: Appr Roadway Width (ft) 54.0  
 51: Road Width, Curb-Curb (ft) 54.0  
 50A: Curb/SW Width: Left (ft) 4  
 50A: Curb/SW Width: Right (ft) 4  
 34: Skew (deg) 35  
 33: Bridge Median 0 - No median  
 54B: Min Vert Underclearance (ft) 20.84  
 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 1968 / 0000  
 42A: Service On 1 - Highway  
 42B: Service Under 4 - Highway - railroad  
 28A: Lanes on 04  
 28B: Lanes Under 02  
 19: Bypass Length 0  
 29: ADT 28403  
 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 03/18/2022

**Inspections**

	Months	
90: Routine Insp.	12	10/13/2022
92A: FCM Insp.	N	0
92B: Dive Insp.	N	0
92C: Special Insp.	N	0
92D: UBIT Insp.	N	0
92E: Drone Insp.	Y	24 07/26/2021

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63: Analysis Method      8 - Load and Resistance Factor Rating (LRFR) rating report by rating factor (RF) method using HL-93 loadings.

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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.	56188	sq. ft.	51723	3250	1075	140
<p>CS2- Cracks, some leaching cracks, some have mottling. Some wet or mottled areas.</p> <p>CS3- Spalls and delams, many near hangers and around drainage downspouts. Area at forward with heavy mottling, leaching and rust staining. Matches failed wearing surface on top. Deck edge spalled off at forward-right corner.</p> <p>CS4- Spalling with 4+ consecutive rebar exposed with section loss. Along expansion joint over RR tracks.</p>							
<b>510-Wearing Surfaces</b>		47412	sq. ft.	22562	22400	2400	50
<p>CS2- Longitudinal &amp; transverse cracks. Minor spalls. Areas of scaling.</p> <p>CS3- Some spalling. Approximately 5% delaminated. Map cracking with 1/8" wide cracks surrounded by wet spots. Wide cracks as wide as 3/4" at hinge 1 in eastbound lane 2.</p> <p>CS4- Asphalt patches.</p>							
<b>107-Steel Open Girder/Beam</b>	3 - Mod.	8332	ft.	8234	85	13	0
<p>TQ includes length of beam plus length of bents until bearings, taken from plans.</p> <p>CS2- Some minor pitted section loss</p> <p>CS3- As much as 1/8" section loss to rear beams 3,4,5,6,7</p>							
<b>515-Steel Protective Coating</b>		72858	sq. ft.	35998	36725	120	15
<p>CS2- Minor surface rust in spots. Some fading. Surface dulling</p> <p>CS3- Heavier rust and peeling of paint at some beam ends, bearings and around hanger locations.</p> <p>CS4- Rust to bear metal.</p>							
<b>205-Reinforced Concrete Column</b>	3 - Mod.	42	each	41	1	0	0
<p>CS2- P2C1- 2 SF spall.</p>							
<b>215-Reinforced Concrete Abutment</b>	3 - Mod.	156	ft.	135	14	7	0
<p>CS2- Cracks, some leaching. Minor delams.</p> <p>CS3- Spall and delam to FWD right. Other small delams.</p>							
<b>302-Compression Joint Seal</b>	3 - Mod.	312	ft.	0	239	55	18
<p>CS2- Minor popouts to header. Debris in joint.</p> <p>CS3- Areas of rusting section loss to armor. Deep gouges / damage to hinge #2 armor in EB &amp; WB lanes. Other minor gouges. Pop outs &amp; asphalt patches to headers, especially at hinge 1.</p> <p>CS4- Areas of missing seal at hinge #1 in Eb lane #2, near centerline of hinge #2 &amp; at both sidewalk joints of hinge #2.</p>							
<b>311-Movable Bearing</b>	3 - Mod.	56	each	37	19	0	0
<p>CS2- Some bearing, mostly the abutments, have areas of pack rust starting.</p>							

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<b>321-Reinforced Concrete Approach Slab</b>	3 - Mod.	2700	sq. ft.	480	2000	100	120
<p>CS2- Longitudinal cracks, some leaching. Map cracks. Heavy map cracking with mottling at rear. Wide transverse crack in rear.</p> <p>CS3- Large broken up concrete areas at both ends.</p> <p>CS 4 - asphalt patches.</p>							
<b>331-Reinforced Concrete Bridge Railing</b>	3 - Mod.	1756	ft.	869	800	87	0
<p>CS2- Many cracks, some with rust stains some leaching. Cracks along top face of rail.</p> <p>CS3- Spalls and delams, some have rebar exposed</p>							
<b>815-Drainage</b>	3 - Mod.	35	each	18	0	10	7
<p>CS3- Partially plugged scuppers</p> <p>CS4- 7 scuppers fully clogged with vegetation growing out of them.</p>							
<b>820-Steel Seated-Hinge Assembly</b>	3 - Mod.	14	each	9	5	0	0
<p>CS2- Start of heavy rusting around hangers.</p>							
<b>830-Abutment Backwall</b>	3 - Mod.	156	ft.	123	27	6	0
<p>CS2- Cracks, some leaching.</p> <p>CS3- Spall to rear right and left. Minor delams and other small spalls.</p>							

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ODOT District: District 12

**CUY-00291-0299\_(1811967)**

Date Built: 07/01/1968

Major Maint: 01 - State Highway Agency

Facility Carried: SNOW RD CR-87

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 04 - City or Municipal Highway Agency

Feature Inters: SR-291 & CSX RR

Traffic Under: 4 - Highway - railroad

Insp. 01 - State Highway Agency

FIPS Code: 09288 - BROOK PARK (CUY county)

Location: DISTRICT 12

0.25 MI. WEST OF I-71

Resp A:

Insp

Resp B:

Inspector

Persanyi,Andrea

Inspection Date 10/13/2022

Reviewer Seif,Youssef

## Inspector Comments - Deck and Approach

### Deck

#### Floor/Slab

Spall over traffic- Bay 1 and 2, north edge of deck over lane 2 for Five Points Rd. South railing over SR 291, check all lanes, but especially over NB #1/2 lane line.

#### Curbs/Sidewalk (LF)

Cracks. Minor spalls. Concrete patches. Breaking up area to right at forward joint.

#### Railing (LF)

Some post damage. Areas of rust section loss to fence hardware. Some post connections are rust severed.

### Approach

#### Approach Pavement

Some cracks.

#### Approach Guardrail (EA)

Broken spacer #5 at forward-left. Collision damage at rear-left with 3 missing spacers.

## Inspector Comments - General Appraisal

### Superstructure

#### Diaphragm/X-Frames (EA)

Rusted section loss. 2 rusted thru holes & 2 un-blunted cracks in west diaphragm of west hinge in bay 3, grew by 1" at 2021 drone inspection, last marked 2001. Warped lower flanges of diaphragms in forward abutment bays 3 & 4. Drilled out cracks in webs at forward abutment & in several diaphragms near west hinge. Small rusted through hole at forward in bay 3.

#### Pins/Hangers/Hinges (EA)

Rusting section loss.

#### Fatigue (LF)

Welded cover plate ends in positive moment areas (some have missing welds at nose of plate). Base metal at net section of eyebar head (pin hangers). Longitudinal stiffener with uncoped ends. Old & new

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channels for drainage welded to areas of webs in positive moment areas.

**Utilities (LF)**

Damaged utility conduit on left rail at hinge #2.

**Substructure**

**Wingwalls (EA)**

Cracks, some leaching.

**Slope Protection (EA)**

Cracks. Some uneven settlement, mainly at rear-left. Some under mining to areas.

**Culvert**

**Inspector Comments - Waterway**

**Waterway Adequacy**

**Channel**

**Scour Critical**

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**Pictures**