

Inspector: Reel,Joshua

Inspection Date: 05/09/2024

Structure Number: 8100667

Facility Carried: CR 101 STRIPE RD

## Ohio Bridge Inspection Summary Report

**VAN-00030-1402 (8100667)**

2: District 66978 - RIDGE TWP (VAN county)  
ict  
01

5A: Inventory Route 1 C0101

21: Major Maint A/B 01 - State Highway Agency /  
225 Routine Main A/B 02 - County Highway Agency /  
221 Inspection A/B 01 - State Highway Agency /  
220: Inv. Location DISTRICT 01

7: Facility On CR 101 STRIPE RD  
6: Feature Ints USR 30  
9: Location 1.1 mi. E. of US-127  
Lat, Lon 40.8850534835 , -84.5623071350

| Condition                 |                                      | Structure Type            |                                    |
|---------------------------|--------------------------------------|---------------------------|------------------------------------|
| <b>58: Deck</b>           | <b>6 - Satisfactory 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               | 5- Fair (obvious leaking, 1" offset) |                           | N- Not Applicable                  |
| <b>59: Superstructure</b> | <b>5 - Fair 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>7 - Good Condition</b>            | 408: Composite Deck       | N - Non-composite Construction     |
| <b>61: Channel</b>        | <b>N</b>                             | 414A Joint Type 1         | 2 - Sliding Metal Plate Angle      |
| <b>61.01 Scour</b>        | <b>N - Not Applicable</b>            | 414B: Joint Type 2        | N - None                           |
| <b>62: Culverts</b>       | <b>N - Not Applicable</b>            | 108A: Wearing Surface     | 6 - Bituminous                     |
| <b>67.01 GA</b>           | <b>5</b>                             |                           | 3- Chip and Seal                   |

| Appraisal                  |   |
|----------------------------|---|
| Sufficiency Rating         | 74.5 SD/FO 2 - FO                       |
| 36: Rail, Tr, Gd, Term Std | 0 0 0 N                                 |
| 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)               | 68.0          |
| 49: Structure Length (ft)              | 236.5         |
| 52: Deck Width, Out-To-Out (ft)        | 30.3          |
| 424: Deck Area (sf)                    | 7165.95       |
| 32: Appr Roadway Width (ft)            | 36.0          |
| 51: Road Width, Curb-Curb (ft)         | 23.8          |
| 50A: Curb/SW Width: Left (ft)          | 1.8           |
| 50A: Curb/SW Width: Right (ft)         | 1.8           |
| 34: Skew (deg)                         | 0             |
| 33: Bridge Median                      | 0 - No median |
| 54B: Min Vert Underclearance (ft)      | 14.5          |
| 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     | K - Closed  |
| 70: Posting            | 5 - Equal to or above legal loads   |
| 70.01: Date            |   |
| 70.02: Sign Type       |   |
| 734: Percent Legal (%) | 120   |
| 704: Analysis Date     | 01/31/2023  |
| 63: Analysis Method    | 8 - Load and Resistance Factor Rating (LRFR) rating report by rating factor (RF) method using HL-93 loadings. |

|                         |                              |
|-------------------------|------------------------------|
| 422: WS Date            | 06/01/2014                   |
| 423: WS Thick (in)      | 2.0                          |
| 482: Protective Coating | 5 - Paint System OZEU        |
| 483: PCS Date           | 01/01/1991                   |
| 453: Bearing Type 1     | 3 - Sliding (Bronze)         |
| 455: Bearing Type 2     | N - None                     |
| 528: Foundn: Abut Fwd   | 4 - Spread Footing (on soil) |
| 533: Foundn: Abut Rear  | 4 - Spread Footing (on Soil) |
| 536: Foundn: Pier 1     | 4 - Spread Footing (on soil) |
| 539: Foundn: Pier 2     | Blank                        |

| Age and Service           |                                       |
|---------------------------|---------------------------------------|
| 27: Year Built/ 106 Rehab | 1965 / 0000                           |
| 42A: Service On           | 1 - Highway                           |
| 42B: Service Under        | 1 - Highway, with or w/out pedestrian |
| 28A: Lanes on             | 02                                    |
| 28B: Lanes Under          | 04                                    |
| 19: Bypass Length         | 2                                     |
| 29: ADT                   | 200                                   |
| 109: % Trucks (%)         | 5                                     |

| Inspections        |                      |
|--------------------|----------------------|
| 90: Routine Insp.  | 12 Months 05/09/2024 |
| 92A: FCM Insp.     | N 0                  |
| 92B: Dive Insp.    | N 0                  |
| 92C: Special Insp. | N 12                 |
| 92D: UBIT Insp.    | N 0                  |
| 92E: Drone Insp.   | N 0                  |

Inspector Reel,Joshua

**Structure Number:** 8100667  
**Facility Carried:** CR 101 STRIPE RD

|   | Environment   | Total Quantity | Units   | Condition State 1 | Condition State 2 | Condition State 3 | Condition State 4 |
|---|---|----------------|---------|-------------------|-------------------|-------------------|-------------------|
| <b>12-Reinforced Concrete Deck</b>      | 3 - Mod.  | 7093           | sq. ft. | 6158              | 825               | 110               | 0                 |
|   | <p>CS2- Floor has a few transverse cracks with efflorescence. Up to 10% of floor is full depth patches. A few areas of minor spalling along top flanges.</p> <p>CS3 - A few spalls have been removed over traffic, rusty reinforcing steel at these areas.. A few spalls developing over traffic</p>  |                |         |                   |                   |                   |                   |
| <b>510-Wearing Surfaces</b>             |   | 5694           | sq. ft. | 5538              | 156               | 0                 | 0                 |
|   | CS2- A few transverse cracks showing through chip seal. A few areas of chip seal have been scraped of by snow plow.   |                |         |                   |                   |                   |                   |
| <b>107-Steel Open Girder/Beam</b>       | 3 - Mod.  | 936            | ft.     | 806               | 70                | 59                | 1                 |
|   | <p>CS2- Minor collision damage to bottom flanges of fascia beams. A few areas of pitting along the bottom flanges over traffic.</p> <p>CS3- A few areas where protective coating has failed and light corrosion has initiated.<br/>           Bridge strike 5/8/24. Impact damage caused distortion in beams 1 and 4 over the east bound lanes. Beam 1 appr. 8' of distortion. Beam 4 appr. 11' of distortion. Beam 4 has a small tear where the cross-bracing tore away. Cross bracing was damaged in spans 1 and 3 over eastbound lanes.<br/>           CS4- Small tear in beam 4 web from bridge strike.</p> |                |         |                   |                   |                   |                   |
| <b>515-Steel Protective Coating</b>     |   | 7759           | sq. ft. | 6454              | 1125              | 90                | 90                |
|   | <p>CS2- Areas with a dull chalky finish and freckled rust.</p> <p>CS3- A few areas of moderate corrosion on bottom flanges.</p> <p>CS4- Several small spots where protective coating has failed and corrosion initiated, over traffic affected most.</p>  |                |         |                   |                   |                   |                   |
| <b>205-Reinforced Concrete Column</b>   | 3 - Mod.  | 9              | each    | 9                 | 0                 | 0                 | 0                 |
| <b>215-Reinforced Concrete Abutment</b> | 3 - Mod.  | 109            | ft.     | 98                | 10                | 1                 | 0                 |
|   | <p>CS2 - Abutment walls have a few minor hairline vertical and horizontal cracks.</p> <p>CS3- Vertical cracking with rust</p> <p>WW quantity added 2021.</p>  |                |         |                   |                   |                   |                   |
| <b>234-Reinforced Concrete Pier Cap</b> | 3 - Mod.  | 91             | ft.     | 91                | 0                 | 0                 | 0                 |
| <b>305-Assembly Joint without Seal</b>  | 3 - Mod.  | 61             | ft.     | 0                 | 61                | 0                 | 0                 |
|   | <p>CS2- Channels of sliding plates are full of crack sealer and chip seal. A few new sound patches at each end. Layers of rust on beam seats. .</p> <p>CS3- Small area of full width concrete patching over rear expansion joint header is breaking up.</p>   |                |         |                   |                   |                   |                   |
| <b>311-Movable Bearing</b>              | 3 - Mod.  | 16             | each    | 0                 | 8                 | 8                 | 0                 |
|   | <p>CS2- Freckled rust throughout pier bearings.</p> <p>CS3- Masonry plates have pack rust and minor section loss at abutments with fascia bearings most involved.</p>   |                |         |                   |                   |                   |                   |
| <b>313-Fixed Bearing</b>                | 3 - Mod.  | 4              | each    | 0                 | 4                 | 0                 | 0                 |
|   | CS2- Freckled rust throughout.  |                |         |                   |                   |                   |                   |

**Inspection Date:** 05/09/2024

**Facility Carried:** CR 101 STRIPE RD

[illegible]

**Inspector:** Reel,Joshua

**Structure Number:** 8100667

**Inspection Date:** 05/09/2024

**Facility Carried:** CR 101 STRIPE RD

ODOT District: District 01

**VAN-00030-1402\_(8100667)**

Date Built: 07/01/1965

Major Maint: 01 - State Highway Agency

Facility Carried: CR 101 STRIPE RD

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 02 - County Highway Agency

Feature Inters: USR 30

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

Insp. 01 - State Highway Agency

FIPS Code: 66978 - RIDGE TWP (VAN county)

Location: DISTRICT 01

1.1 mi. E. of US-127

Insp  
Resp B:

Inspector

Reel,Joshua

Inspection Date 05/09/2024

Reviewer Limbaugh,Mark

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

### **Deck**

#### **Floor/Slab (SF)**

Floor has a few transverse cracks with efflorescence. Spalls developing over a few of these cracks with a few being over traffic. A few spalls have been removed to rusty reinforcing steel, over traffic. Up to 10% of floor is full depth patches. A few areas of spalling along top flanges.

#### **Bridge Wearing Surface (SF)**

A few transverse cracks showing through chip seal. New chip seal 2014. Shoulders were not chip sealed.

#### **Curbs/Sidewalk (LF)**

A few minor cracks.

#### **Bridge Railing (LF)**

A few hairline vertical cracks.

#### **Expansion Joint (LF)**

Channels of sliding plates are full of crack sealer. New concrete patching over rear expansion joint header. New full width patching at forward expansion header 2022. A few cracks in the newer patches. Layers of rust on beam seats. Widespread leaking.

### **Approach**

#### **Approach Wearing Surface (EA)**

Chip sealed 2014. Minor cracks and rutting.

#### **Approach Slab (SF)**

A few minor cracks showing through the chip seal. Asphalt wearing surface. Groundhog hole under rear right adjacent to transition wall.

#### **Approach Embankment (EA)**

Outside of bridge limits, erosion at left rear embankment has been shored up with No. 1 aggregate. Vermin burrows in the rear right embankment and under approach slab.

#### **Signs (EA)**

Warning sign minimum vertical clearance only 14' 3".

## **Inspector Comments - General Appraisal**



Inspector: Reel,Joshua  
Inspection Date: 05/09/2024

Structure Number: 8100667  
Facility Carried: CR 101 STRIPE RD

### **Superstructure**

#### **Beams/Girders (LF)**

Minor collision damage to bottom flanges of fascia beams. Bridge strike 5/8/24. Impact damage caused distortion in beams 1 and 4 over the east bound lanes. Beam 1 appr. 8' of distortion. Beam 4 appr. 11' of distortion. Beam 4 has a small tear where the cross-bracing tore away. Cross bracing was damaged in spans 1 and 3 over eastbound lanes.

#### **Bearing Devices (EA)**

Masonry plates have pack rust and minor section loss at abutments with fascia bearings most involved. Freckled rust throughout pier bearings.

#### **Protective Coating System (LF)**

Several small spots of heavy corrosion over traffic affected most. Additionally, a few areas of freckled rust throughout as well as areas with a dull chalky finish.

### **Substructure**

#### **Abutment Walls (LF)**

Abutment walls have a few minor hairline vertical and horizontal cracks with rust staining.

#### **Backwalls (LF)**

A few minor spalls developing under expansion joint armor. Heavy streaks of rust staining.

### **Culvert**

### **Inspector Comments - Waterway**

#### **Waterway Adequacy**

#### **Channel**

#### **Scour Critical**

Inspector: Joshua Reel  
Inspection Date: 05/09/2024

Structure Number: 8100667  
Facility Carried: CR 101 STRIPE RD

### Bridge Inspection Report

## Pictures



PHOTO 1

Description



PHOTO 2

Description

Inspector: Joshua Reel  
Inspection Date: 05/09/2024

Structure Number: 8100667  
Facility Carried: CR 101 STRIPE RD

### Bridge Inspection Report

## Pictures



PHOTO 3

Description



PHOTO 4

Description



Inspector: Joshua Reel  
Inspection Date: 05/09/2024

Structure Number: 8100667  
Facility Carried: CR 101 STRIPE RD

### Bridge Inspection Report

## Pictures



PHOTO 5

Description



PHOTO 6

Description

Inspector: Joshua Reel  
Inspection Date: 05/09/2024

Structure Number: 8100667  
Facility Carried: CR 101 STRIPE RD

### Bridge Inspection Report

## Pictures



PHOTO 7

Description



PHOTO 8

Description



Inspector: Joshua Reel  
Inspection Date: 05/09/2024

Structure Number: 8100667  
Facility Carried: CR 101 STRIPE RD

### Bridge Inspection Report

## Pictures



PHOTO 9

Description



PHOTO 10

Description

Inspector: Joshua Reel  
Inspection Date: 05/09/2024

Structure Number: 8100667  
Facility Carried: CR 101 STRIPE RD

### Bridge Inspection Report

## Pictures



PHOTO 11

Description



PHOTO 12

Description



Inspector: Joshua Reel  
Inspection Date: 05/09/2024

Structure Number: 8100667  
Facility Carried: CR 101 STRIPE RD

### Bridge Inspection Report

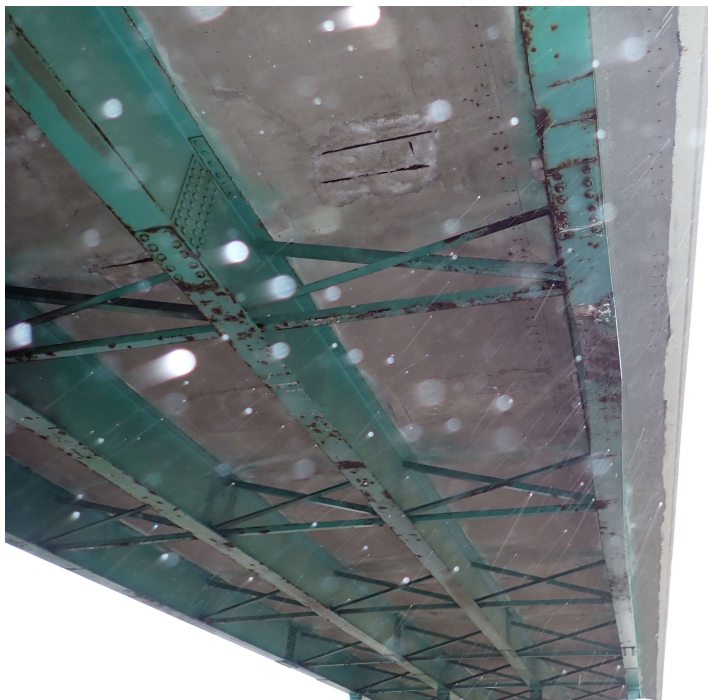
## Pictures



2024/05/09

PHOTO 13

Description



2024/05/09

PHOTO 14

Description



Inspector: Joshua Reel  
Inspection Date: 05/09/2024

Structure Number: 8100667  
Facility Carried: CR 101 STRIPE RD

### Bridge Inspection Report

## Pictures



2024/05/09

PHOTO 15

Description



2024/05/09

PHOTO 16

Description

Inspector: Joshua Reel  
Inspection Date: 05/09/2024

Structure Number: 8100667  
Facility Carried: CR 101 STRIPE RD

### Bridge Inspection Report

## Pictures



PHOTO 17

Description



PHOTO 18

Description

Inspector: Joshua Reel  
Inspection Date: 05/09/2024

Structure Number: 8100667  
Facility Carried: CR 101 STRIPE RD

### Bridge Inspection Report

## Pictures



PHOTO 19

Description



PHOTO 20

Description



Inspector: Joshua Reel  
Inspection Date: 05/09/2024

Structure Number: 8100667  
Facility Carried: CR 101 STRIPE RD

Bridge Inspection Report

Pictures



2024/05/09

PHOTO 21  
Description



2024/05/09

PHOTO 22  
Description

Inspector: Joshua Reel  
Inspection Date: 05/09/2024

Structure Number: 8100667  
Facility Carried: CR 101 STRIPE RD

### Bridge Inspection Report

## Pictures



PHOTO 23

Description



PHOTO 24

Description

Inspector: Joshua Reel  
Inspection Date: 05/09/2024

Structure Number: 8100667  
Facility Carried: CR 101 STRIPE RD

### Bridge Inspection Report

## Pictures



PHOTO 25

Description



PHOTO 26

Description