| Inspector: | Gerstenslager, Micha | el | Structure Number | : 1811 | 1967 | | |
|---|---|---|--|-----------------------|----------------------------|-----------------------|--|
| Inspection Date: | 07/25/2023 | | Facility Carried: | SNO | W RD CR-87 | | |
| Ohio Bridge Ins | pection Summ | <u>nary Report</u> | | <u>CUY-</u> | <u>00291-02</u> | 99 <u>(1811967)</u> | |
| 2: DistrictDistr 09288 - B ict 12 | ROOK PARK (CUY co | unty) | 5A: Inventory Ro | oute 1 | 18072 | | |
| 21: Major Maint A/B 225 Routine Main A/B | 01 - State Highway Ag 04 - City or Municipal I Agency | | 7: Facility On 6: Feature Ints | SNOW RD SR-291 & (| | | |
| | 01 - State Highway Ag | ency / | 9: Location | 0.25 MI. W | EST OF I-71 | | |
| | TRICT 12 | | Lat, Lon | 41.402972 | , | 81.82524 | |
| | Condition | | | Str | ucture Type |) | |
| 58: Deck | 5 - Fair Condition | 1 | 43: Bridge T | | eel continuous | | |
| 58.01 Wearing Surface | e 5 - Fair (10-15%, 1 | 2% asphalt patch) | · · | | rame (except f | rame culverts) | |
| 58.02 Joint | 5- Fair (obvious le | aking, 1" offset) | | N- No | t Applicable | | |
| 59: Superstructure | 7 - Good Conditi | on | 45: Spans M | lain / Approa | ach 7 | / 0 | |
| 59.01 Paint & PCS | 7 - Good (1-5% co | orr.) | 107: Deck T | уре | 1 - Concrete | Cast-in-Place | |
| 60: Substructure | 7 - Good Conditi | on | 408: Compo | site Deck | X - Not Applie | cable | |
| 61: Channel | Ν | | 414A Joint T | •• | 3 - Compress | sion Seal | |
| 61.01 Scour | N - Not Applicab | | 414B: Joint | | N - None | | |
| 62: Culverts 67.01 GA | N - Not Applicab 7 | le | 108A: Wearing Surface 2 - Integral Concrete (se non-modified layer of co added to structural deck N- Not Applicable | | | | |
| | Appraisal | | 422: WS Dat | e | 01/01/2001 | | |
| Sufficiency Rating | | /FO 0-ND | 423: WS Thi | ick (in) | 2.0 | | |
| 36: Rail, Tr, Gd, Term St | | 1 1 | 482: Protect | ive Coating | 5 - Paint Sys | tem OZEU | |
| 72: Approach Alignment | | nt minimum criteria | 483: PCS D | | 01/01/2002 | | |
| 113: Scour Critical | 453: Bearing | | 2 - Rockers & | & Bolsters | | | |
| 71: Waterway Adequacy | N - Not Applicable |) | 455: Bearing | | B - Fixed | | |
| | | 528: Foundn: Abut Fwd 4 - Spread Footing (on soil) 533: Foundn: Abut Rear 4 - Spread Footing (on Soil) | | | | | |
| 48: Max Span Length (ft) | Geometric | <u>`</u> 0 | 536: Foundr 536: Foundr | | 4 - Spread Fo 0 - Other | boting (on Soli) | |
| 49: Structure Length (ft) | 878 | | 539: Foundr | | | ch as most Culverts) | |
| 52: Deck Width, Out-To- | | | 559. T Ouriur | | N - None (Su | ich as most cuivents) | |
| 424: Deck Area (sf) | 561 | | | Age | and Servic | е | |
| 32: Appr Roadway Width | | | 27: Year Bui | ilt/ 106 Reha | b 1968 | / 0000 | |
| 51: Road Width, Curb-Cu | | | 42A: Service | e On | 1 - Highway | / | |
| 50A: Curb/SW Width: Le | ft (ft) 4 | | 42B: Service | e Under | 4 - Highway | / - railroad | |
| 50A: Curb/SW Width: Rig | ght (ft) 4 | | 28A: Lanes | on | 04 | | |
| 34: Skew (deg) | 35 | | 28B: Lanes | | 02 | | |
| 33: Bridge Median | | No median | 19: Bypass I | _ength | 0 | | |
| 54B: Min Vert Underclea | rance (ft) 20. | 84 | 29: ADT | | 28403 | | |
| 336A: Min Vert Clrnce IR | | | 109: % Truc | ks (%) | 7 | | |
| 336B: Min V Clr IR Non- | | | | Insp | pections | | |
| 578: Culvert Length (ft) | 0 | | | | Months | | |
| | Load Posting | | 90: Routine | • | | 07/25/2023 | |
| 41: Op/Post/Closed | A - Open | | 92A: FCM In | • | 0 | | |
| 70: Posting 5 - Equal | to or above legal loads | | 92B: Dive In | • | 0 | | |
| 70.01: Date | | | 92C: Specia 92D: UBIT Ir | - | 12 24 | | |
| 70.02: Sign Type | | | 92E: Drone I | • | 24 24 | 07/11/2023 | |
| 734: Percent Legal (%) | 150 | | _ | | | 01/11/2020 | |
| 704: Analysis Date | 03/18/2022 | lanas Esstar Datin | | Gerstenslag | er,Michael | | |
| 63: Analysis Method | 8 - Load and Resis (LRFR) rating repo method using HL-9 | rt by rating factor (Ř | | | | | |
| | | | | | | | |

| Inspector: | Gerstenslager, Michael | Structure Number: | 1811967 |
|------------------|------------------------|-------------------|---------------|
| Inspection Date: | 07/25/2023 | Facility Carried: | SNOW RD CR-87 |

| | Environment | Total Quantity | Units | Condition State 1 | Condition State 2 | Condition State 3 | Condition State 4 |
|-------------------------------------|--|--|---|---|--|--|--|
| 12-Reinforced Concrete Deck | 3 - Mod. | 56188 | sq. ft. | 51723 | 3250 | 1075 | 140 |
| | CS2- Cracks, so north of tracks a hangers and do CS3- Spalls ma with heavy mott top. Deck edge CS4- Spalling w | and up to E wnspouts. ny near hai ling, leachii spalled off <i>i</i> th 4+ cons | ngle Rd ngers ar ng and r at forwa | . Some wet o nd around dra rust staining. ırd-right corn | or mottled are ainage down Matches fail er. | eas. Delamin spouts. Area ed wearing s | ations near at forward urface on |
| 510-Wearing Surfaces | joint over RR tra | аскs. 47412 | sq. ft. | 22542 | 22400 | 2400 | 70 |
| | CS2- Longitudir patches. CS3- Some spa wet spots. CS4- Asphalt pa Wearing surface | al & transv Illing. Heav | erse cra y patteri cks as v | acks. Minor s n map cracki vide as 3/4" ; | palls. Areas ng. 1/8" wide at hinge 1 in | of scaling. Co cracks surro eastbound la | oncrete |
| 107-Steel Open Girder/Beam | 3 - Mod. | 8332 | ft. | 8234 | 85 | 13 | 0 |
| 515-Steel Protective Coating | CS2- Some min CS3- As much a CS2- Surface ru CS3- Peeling of | as 1/8" sect 72858 ust in spots. | ion loss sq. ft. Some f | to rear bear 35998 fading. Surfa | 36725 ce dulling | 120 bund hanger | 15 locations. |
| | CS4- Rust to be | | | | | 0 | |
| 205-Reinforced Concrete Column | 3 - Mod. CS2- P2C1- 2 S | 42 SF spall. | each | 41 | 1 | 0 | 0 |
| 521-Concrete Protective Coating | | 1344 | sq. ft. | 1336 | 0 | 0 | 8 |
| 521-Concrete i Totective Coating | CS4- Coating n | - | | 1000 | 0 | 0 | 0 |
| 215-Reinforced Concrete Abutment | 3 - Mod. | 156 | ft. | 135 | 14 | 7 | 0 |
| | CS2- Cracks, some leaching. Minor delams. | | | | | | |
| | CS3- Spall and | delam to F | ND riah | t. Other sma | ll delams. | | |
| 521-Concrete Protective Coating | | 780 | sq. ft. | 702 | 0 | 0 | 78 |
| | CS4- Coating n | ot effective. | | | | | |
| 302-Compression Joint Seal | 3 - Mod. | 312 | ft. | 0 | 219 | 55 | 38 |
| • | CS2- Minor pop CS3- Areas of r armor in EB & V CS4- Areas of r at both sidewall | usting secti VB lanes. C nissing sea | on loss)ther mi I at hing | to armor. De nor gouges. le #1 in Eb la | Pop outs. ine #2, near | centerline of | hinge #2 & |

| Inspector: | Gerstenslager, Michael | Structure Number: | 1811967 |
|------------------|------------------------|-------------------|---------------|
| Inspection Date: | 07/25/2023 | Facility Carried: | SNOW RD CR-87 |

| | Environment | Total Quantity | Units | Condition State 1 | Condition State 2 | Condition State 3 | Condition State 4 |
|---|-----------------------------------|-------------------|------------|----------------------|----------------------|----------------------|----------------------|
| 311-Movable Bearing | 3 - Mod. | 56 | each | 35 | 19 | 2 | 0 |
| | CS2- Most abut | ment bearin | ngs have | e surface rus | st. | | |
| | CS3- A couple | rear abutme | ent beari | ings have pa | ck rust and s | section loss. | |
| 321-Reinforced Concrete Approach Slab | 3 - Mod. | 2700 | sq. ft. | 480 | 2000 | 100 | 120 |
| | CS2- Longitudir | nal cracks, s | some lea | aching. Map | cracks. | | |
| | CS3- Large bro transverse crac | | crete are | eas at rear. F | leavy map c | racking at rea | ar. Wide |
| | CS4- Asphalt pa | atches. | | | | | |
| 331-Reinforced Concrete Bridge Railing | 3 - Mod. | 1756 | ft. | 913 | 800 | 43 | 0 |
| | CS2- Many crac rail. Delams. | cks, some v | ith rust | stains, some | e leaching. C | racks along t | op face of |
| | CS3- Spalls. | | | | | | |
| 521-Concrete Protective Coating | | 7024 | sq. ft. | 6300 | 0 | 0 | 724 |
| | CS4- Coating n | ot effective. | | | | | |
| 815-Drainage | 3 - Mod. | 35 | each | 18 | 0 | 10 | 7 |
| | CS3- Partially p | lugged scu | opers | | | | |
| | CS4- 7 scupper | s fully clog | ged with | vegetation g | growing out c | of them. | |
| 820-Steel Seated-Hinge Assembly | 3 - Mod. | 14 | each | 9 | 5 | 0 | 0 |
| | CS2- Start of he | eavy rusting | around | hangers. | | | |
| | Note: Expansio | n hinge is th | ne West | , fixed is Eas | st. | | |
| 830-Abutment Backwall | 3 - Mod. | 156 | ft. | 123 | 27 | 6 | 0 |
| | CS2- Cracks, s | ome leachir | ng. | | | | |
| | CS3- Spall to re | ear right and | l left. Mi | nor delams a | and other sm | all spalls. | |
| 521-Concrete Protective Coating | | 624 | sq. ft. | 576 | 0 | 0 | 48 |
| | CS4- Coating n | ot effective. | | | | | |

| Inspec | ctor: | Gerstens | lager,Michae | I | Stru | icture Nu | mber: | 1811967 | | | |
|-----------------------------|---|-------------------|--------------------|-----------------------------------|------------|---------------|---------------------|---------|------------------|------|----------------------|
| Inspection Date: 07/25/2023 | | Facility Carried: | | SNOW RD CR- | 87 | | | | | | |
| ODOT District: | District 12 | | C | UY-00291 | -0299 | _(1811 | 967) | | Date Built | t: | 07/01/1968 |
| Major Maint: | 01 - State Highway Ag | ency | Facility Carried: | SNOW RD CR-87 | | Traffic On: | 1 - Highway | | Rehab Da | ate: | |
| Routine Maint: | 04 - City or Municipal H | Highway | Feature Inters: | SR-291 & CSX RR | | Traffic Under | : 4 - Highway - rai | | Insp. Resp A: | 01 - | State Highway Agency |
| FIPS Code: | Agency IPS Code: 09288 - BROOK PARK (CUY county) | | Location: DISTRIC | DISTRICT 12 0.25 MI. WEST OF I-71 | | l | Insp | | | | |
| | Inspect | or Gers | stenslager,Michael | Inspection Date | 07/25/2023 | | Reviewer Seif, Yo | | Resp B: | | |
| | | | nspector | Comment | s - De | ck and | Approa | ch | | | |

Deck

Floor/Slab

Spalls over traffic.

Over Five Points Rd: Bay 1 and 2, north edge of deck over lane 2.

Over SR-291(Engle Road): South Rail check all lanes, but especially over NB #1/2 lane line. Deck Edge under South Rail, Lanes 2 and 3. Bay 1 over Southbound low speed curb. North Rail over all lanes.

Curbs/Sidewalk_

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

Railing_

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

Approach

Approach Pavement

Some cracks.

Approach Guardrail_

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

Inspector Comments - General Appraisal

Superstructure

Diaphragm/X-Frames

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, No growth at 2023 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

Rusting section loss.

Fatigue_

Welded cover plate ends in positive moment areas (some have missing welds at nose of plate). Base

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|--|------------------------|-------------------|---------------|--|--|--|--|--|
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| metal at net section of eyebar head (pin hangers). Longitudinal stiffener with uncoped ends. Old & new | | | | | | | | |

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

Utilities_

Damaged utility conduit on left rail at hinge #2.

Substructure

Wingwalls

Cracks, some leaching.

Slope Protection

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

<u>Culvert</u>

Inspector Comments - Waterway

Waterway Adequacy

<u>Channel</u>

Scour Critical