



Latitude:47.02938, Longitude:-102.79989

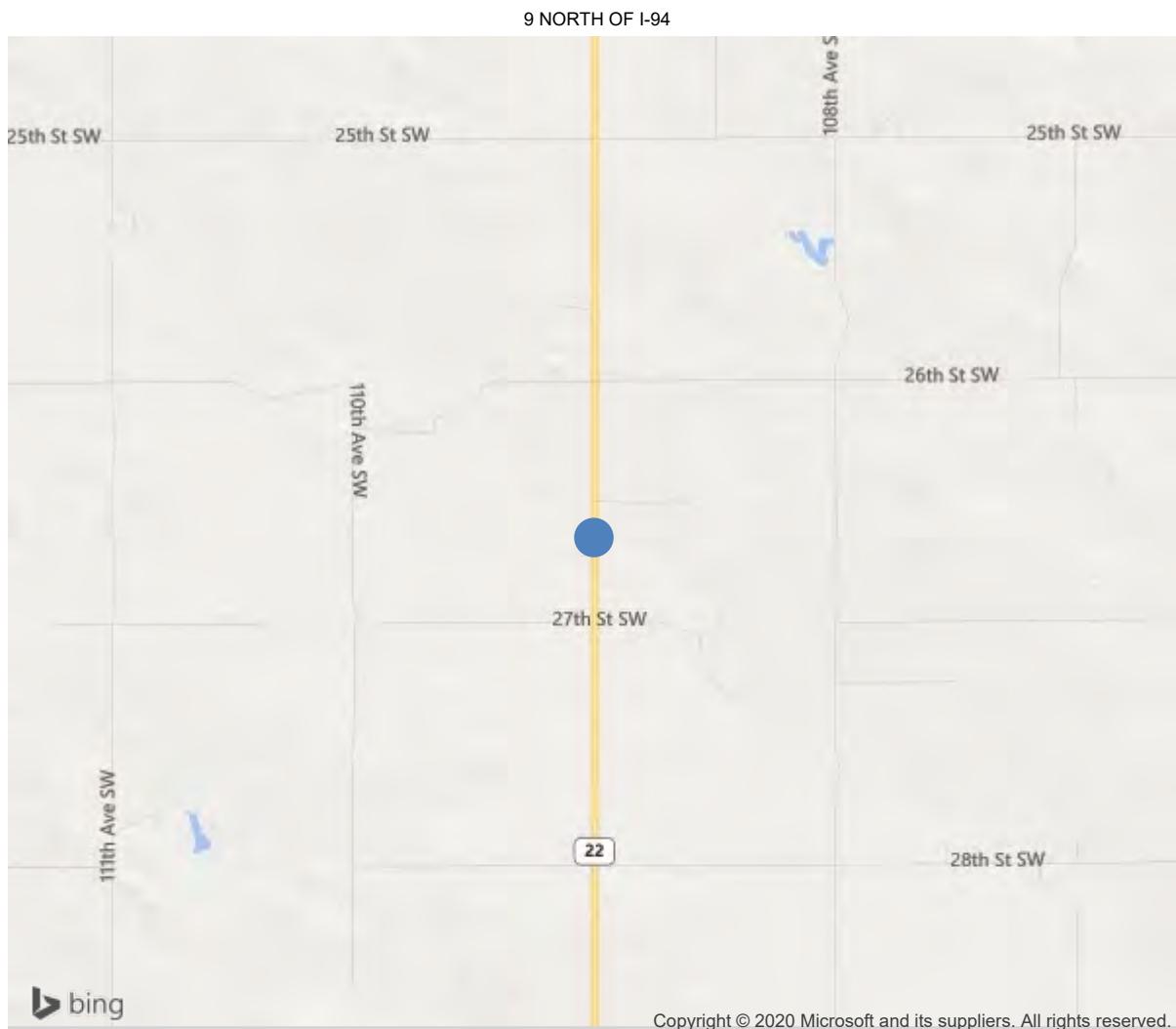
Route:00022 Log:81.359

District 65, Dunn County

Owner: 1-State Highway Agency

Team Leader: Jake Mertz

Approved By: Travis McCloud



47.02938, -102.79989

| IDENTIFICATION | |
|---|--------------------------|
| (1) State Names | North Dakota |
| (8) Structure Number | 0022-081.376 |
| (5) Inventory Route | 00022 |
| (2) Highway Agency District | 65 |
| (3) County Code | Dunn, North Dakota |
| (4) Place Code | 0 |
| (6) Features Intersected | RUSSIAN SPRING CREEK |
| (7) Facility Carried | ND HIGHWAY 22 |
| (9) Location | 9 NORTH OF I-94 |
| (11) Mile Point | 81.359 mi |
| (12) Base Highway Network | Yes |
| (13) LRS Inventory Rte | 0000000000 |
| (16) Latitude | 47.02938 |
| (17) Longitude | -102.79989 |
| GPS X | 211283.9 |
| GPS Y | 5215439 |
| (98) Border Bridge State Code | -1 |
| (99) Border Bridge Struct. No. | - |
| STRUCTURE TYPE AND MATERIAL | |
| (43) Main Structure Type | 14 |
| Material | 1-Concrete |
| Type | 4-Tee beam |
| (44) Approach Structure Type | 00 |
| Material | 0-Other |
| Type | 0-Other |
| (45) No. of Spans in Main Unit | 1 |
| (46) No. of Approach Spans | 0 |
| Culvert | |
| (107) Deck Structure Type | 1-Concrete Cast-in-Place |
| (108) Wearing Surface/Protective System | |
| Type of Wearing Surface | 4-Low slump Concrete |
| Type of Membrane | 0-None |
| Type of Deck Protection | 0-None |
| Deck overburden | 1 |
| AGE AND SERVICE | |
| (27) Year Built | 1953 |
| (106) Year Reconstructed | 1986 |
| (42) Type of Service | 15 |
| On | 1-Highway |
| Under | 5-Waterway |
| (28) Lane | |
| On | 2 |
| Under | 0 |
| (29) Average Daily Traffic | 1740 |
| (30) Year of ADT | 2019 |
| (109) Truck ADT | 10 % |
| (19) Bypass, Detour Length | 6 mi |
| (114) Future ADT | 1508 |
| (115) Year of Future ADT | 2039 |
| GEOMETRIC DATA | |
| (48) Length of Maximum Span | 40 ft |
| (49) Structure Length | 42 ft |
| (50) Curb or Sidewalk Width | |
| Left | 0 ft |
| Right | 0 ft |
| (51) Bridge Roadway Width Curb to Curb | 40 ft |
| (52) Deck Width Out to Out | 42.7 ft |
| (32) Approach Roadway Width (W/Shoulders) | 40 ft |
| (33) Bridge Median | 0-No median |
| (34) Skew | 0 Deg |
| (35) Structure Flared | No flare |
| (10) Inventory Route Min Vert Clear | 99.99 ft |
| (47) Inventory Route Total Horiz Clear | 39.7 ft |
| (53) Min Vert Clear Over Bridge Rdwy | 99.99 ft |
| (54) Min Vert Underclear | 0 ft |
| Ref: | |
| (55) Min Lat Underclear RT | 99.9 ft |
| Ref: | |
| (56) Min Lat Underclear LT | 0 ft |

| CLASSIFICATION | |
|---|--|
| (A-7) Agency Admin Area | 1 |
| (112) NBIS Bridge Length | Y |
| (104) Highway System | Non-NHS |
| (26) Functional Class | 6-Rural Minor Arterial |
| (100) Defense Highway | 0-The inventory route is not a S |
| (A16) TE Route | |
| (101) Parallel Structure | N-No parallel structure exists. |
| (102) Direction of Traffic | 2 - way traffic |
| (103) Temporary Structure | |
| (105) Federal Lands Highways | 0-N/A |
| (110) Designated National Network | 0-The inventory route is not part of |
| (20) Toll | 3-On free road. The structure is toll- |
| (21) Maintain | 1-State Highway Agency |
| (22) Owner | 1-State Highway Agency |
| (37) Historical Significance | 5-Bridge is not eligible for the NRHP |
| CONDITION | |
| (58) Deck | 7 |
| (59) Superstructure | 7 |
| (60) Substructure | 6 |
| (61) Channel & Channel Protection | 6 |
| (62) Culverts | N |
| LOAD RATING AND POSTING | |
| (31) Design Load | 5-MS 18 / HS 20 |
| (63) Operating Rating Method | 1 |
| (64) Operating Rating | 72 |
| (65) Inventory Rating Method | 1-Load Factor(LF) |
| (66) Inventory Rating | 43.1 |
| (70) Bridge Posting | 5-Equal to or above legal loads |
| (41) Structure Open/Posted/Closed | A-Open, no restriction |
| APPRaisal | |
| (67) Structural Evaluation | 7 |
| (68) Deck Geometry | 6 |
| (69) Clearances, Vertical/Horizontal | N |
| (71) Waterway Adequacy | 7 |
| (72) Approach Roadway Alignment | 7 |
| (36) Traffic Safety Features | 1111 |
| A) Bridge Railings | 1-Inspected feature meets currently a |
| B) Transitions | 1-Inspected feature meets currently a |
| C) Approach Guardrail | 1-Inspected feature meets currently a |
| D) Approach Guardrail Ends | 1-Inspected feature meets currently a |
| (113) Scour Critical Bridges | 8-Bridge foundations determined to be |
| APPROVED INSPECTIONS | |
| (90) Inspection Date | 09/2020 |
| (91) Frequency | 24 Months |
| (92) Critical Feature Inspection | Req Freq. (Mon) Date |
| A: Fracture Critical Detail | No |
| B: Underwater Inspection | No |
| C: Other Special Inspection | No |
| NAVIGATION DATA | |
| (38) Navigation Control | 0-No navigation control on water |
| (111) Pier Protection | - |
| (39) Navigation Vertical Clearance | 0 ft |
| (116) Vert-Lift Bridge Nav Min Vert Clr | ft |
| (40) Navigation Horizontal Clearance | 0 ft |
| AGENCY ITEMS | |
| (A-21) Fedaid Project no. | BRF-5-022(24)073 |
| (A-14) Chaining Date | 08/29/2018 |
| (A-15) Delamination Pct | 6.8 |

Inspection Team Lead: Jake Mertz

| ELEM | DESCRIPTION | UNITS | TOTAL | CS1 | CS2 | CS3 | CS4 |
|---------------|---|-------|-------|------|-----|-----|-----|
| 12 | Reinforced Concrete Deck | SF | 1679 | 1669 | 10 | 0 | 0 |
| 1130 | Cracking (RC and Other) | SF | 10 | 0 | 10 | 0 | 0 |
| 510 | Wearing Surfaces | SF | 1679 | 1669 | 10 | 0 | 0 |
| 3220 | Crack (Wearing Surface) | SF | 10 | 0 | 10 | 0 | 0 |
| (12-1130) | | | | | | | |
| | There are two cracks in the Northbound lane that are diagonal and at the north and south ends of the structure. These cracks are 0.014 in width. 1September2020 | | | | | | |
| (12-510-3220) | | | | | | | |
| | There are two cracks in the Northbound lane that are diagonal and at the north and south ends of the structure. These cracks are 0.014 in width. 1September2020 | | | | | | |
| 110 | Reinforced Concrete Open Girder/Beam | LF | 246 | 242 | 4 | 0 | 0 |
| 1080 | Delamination/Spall/Patched Area | LF | 4 | 0 | 4 | 0 | 0 |
| (110) | | | | | | | |
| | beams 2 &6 have small spalls 6x3"x1/2" on bottom - 6/5/2019 | | | | | | |
| (110-1080) | | | | | | | |
| | beams 2&6 have small spalls 6x3x1/2". - 6/5/2019 | | | | | | |
| | The E2 beam has a spall approximately 5 inches by 3 inches in size. This is located approximately 15 feet to the North of the South abutment. The W2 beam has 3 spalls that are 6 inches by 6 inches, 3 inches by 3 inches and 1 foot by 4 inches. These are located respectively at 20 feet, 18 feet and 5 feet to the South of the North abutment. 1September2020 | | | | | | |
| 215 | Reinforced Concrete Abutment | LF | 85 | 69 | 16 | 0 | 0 |
| 1120 | Efflorescence/Rust Staining | LF | 6 | 0 | 6 | 0 | 0 |
| 1130 | Cracking (RC and Other) | LF | 10 | 0 | 10 | 0 | 0 |
| (215) | | | | | | | |
| | minor cracking on backwalls on both abutments. - 6/5/2019 | | | | | | |
| (215-1120) | | | | | | | |
| | staining present at the cracks on the abutments - 6/5/2019 | | | | | | |
| (215-1130) | | | | | | | |
| | minor cracking both backwalls - 6/5/2019 | | | | | | |
| | The North abutment has approximately 5 cracks that average approximately 0.010 in width. The South abutment has approximately 5 cracks that range from approximately 0.004 to 0.006 inn width. 1September2020 | | | | | | |
| 321 | Reinforced Concrete Approach Slab | SF | 1600 | 1600 | 0 | 0 | 0 |
| (321) | | | | | | | |
| | approach slabs covered by asphalt. minor spalling where approach slab and bridge meet. perforated drain tile added 2002 at end of | | | | | | |



**Bridge #0022-081.376(Routine)
ND HIGHWAY 22 over RUSSIAN SPRING CREEK
Location: 9 NORTH OF I-94**

Team Lead: Jake Mertz, **Inspection Date:** September 01, 2020

Inspection Comments

10/19/2009 - Approach slabs covered by asphalt.

NBI Remarks: Minor cracking and spalling on construction joints on bridge rail.

Minor cracking on backwalls on both abutments.

Also some staining on backwall.

Minor spalling where approach slab and bridge tie.

Perforated drain tile added 2002 at end of approach slab.

10/22/2013 - Curb and Gutter added along with new guardrail in 2013 construction.

10/22/2013 - Channel Profile completed.

10/22/2013 - Bridge delamination done 1/22/2013. Delamination 5.3%

9/11/17 - Channel profile completed.

Beams 2 & 6 have small spalls 6"x3"x1/2" on bottom sides.

6-5-19- se curb cracking some and spall at barrier, nw curb at bridge spall - 6/5/2019

Channel Profile

The flow of waterway is considered: West to East

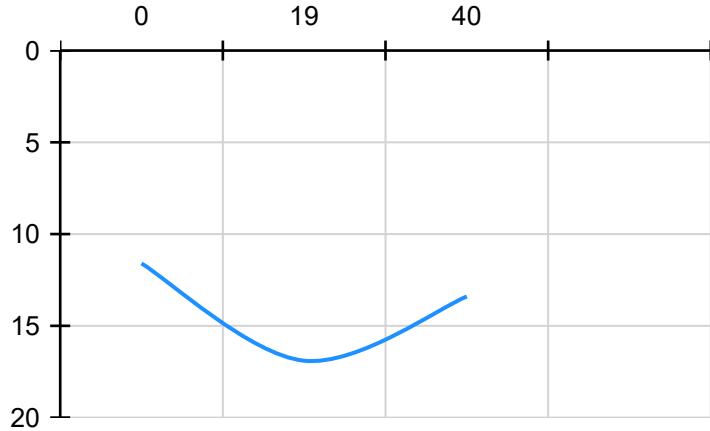
All soundings taken from: Top rail N to S

Top of water:

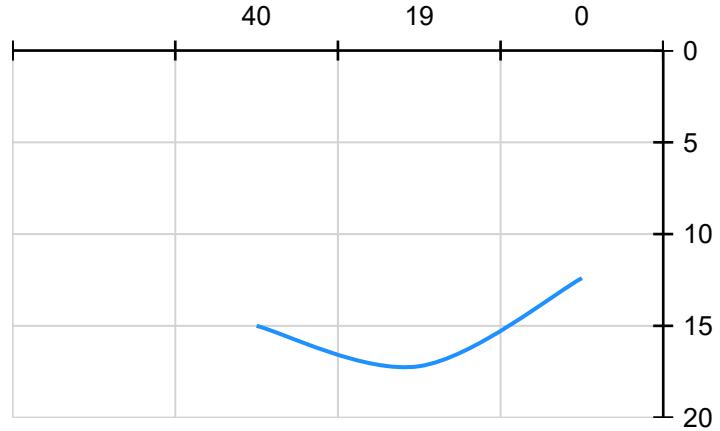
Bottom of Beam:

| Station | Distance (ft) | DS Measurement (ft) | US Measurement (ft) |
|---------|---------------|---------------------|---------------------|
| 1 | 0 | 12.4 | 11.6 |
| 2 | 19 | 17.2 | 16.9 |
| 3 | 40 | 15 | 13.4 |
| 4 | | | |
| 5 | | | |

UpStream Measurements



DownStream Measurements



| CHANNEL PROFILE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------------------|-------------------------------------|--|-----|----|----|-------------------------------------|--------------------------|-------------------------------------|--------------------------|----------------------------|--------------------------|-------------------------------------|--------------------------|------------------------|--------------------------|--------------------------|-------------------------------------|--|--------------------------|-------------------------------------|--------------------------|--|--------------------------|-------------------------------------|--------------------------|-------------------|--------------------------|-------------------------------------|--------------------------|-----------------------------------|--------------------------|--------------------------|-------------------------------------|----------------------------|-----|----|----|---|-------------------------------------|--------------------------|--------------------------|--|--------------------------|-------------------------------------|--------------------------|---------------------------------------|--------------------------|-------------------------------------|--------------------------|---|--------------------------|-------------------------------------|--------------------------|---|--------------------------|-------------------------------------|--------------------------|
| North Dakota Department of Transportation, Bridge SPN 17336 (7-2016) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Structure Number DO 22-081.376 | Date 9/8/20 | Inspector's Name McCloud + Merle | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STREAM CROSS SECTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTE: Stream profile is to be taken on both sides of the bridge. Check appropriate directions. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Profile 1 taken on <input type="checkbox"/> N <input type="checkbox"/> S <input checked="" type="checkbox"/> E <input type="checkbox"/> W side of bridge, from <input type="checkbox"/> N to S <input type="checkbox"/> W to E Measurements taken from top of <input type="checkbox"/> Curb <input checked="" type="checkbox"/> Rail <input type="checkbox"/> Deck Measurements taken at <input type="checkbox"/> Intervals (ft.) Measurements are as follows: O - 102.4 19 - 120.2 40 - 150.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Profile 2 taken on <input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> E <input type="checkbox"/> W side of bridge, from <input type="checkbox"/> N to S <input type="checkbox"/> W to E Measurements taken from top of <input type="checkbox"/> Curb <input checked="" type="checkbox"/> Rail <input type="checkbox"/> Deck Measurements taken at <input type="checkbox"/> Intervals (ft.) Measurements are as follows: O - 11.6 19 - 16.9 40 - 13.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Evidence of Scour at Bridge</th> <th>Yes</th> <th>No</th> <th>NA</th> </tr> </thead> <tbody> <tr> <td>Channel slopes washing or sloughing</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Scour holes near abutments</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Scour holes near piers</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Bed deposits downstream</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Exposure of footings</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Debris collection</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Debris (if any) displaced</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Existing Channel Condition</th> <th>Yes</th> <th>No</th> <th>NA</th> </tr> </thead> <tbody> <tr> <td>Are channel banks up and downstream of bridge</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Is the channel degrading/aggrading up or downstream?</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Is the structure on a channel change?</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Are there lakes, reservoirs, dams, etc. near the channel?</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Does the channel appear to be moving laterally in the area of the bridge?</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table> | | | Evidence of Scour at Bridge | Yes | No | NA | Channel slopes washing or sloughing | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Scour holes near abutments | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Scour holes near piers | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Bed deposits downstream | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Exposure of footings | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Debris collection | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Debris (if any) displaced | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Existing Channel Condition | Yes | No | NA | Are channel banks up and downstream of bridge | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is the channel degrading/aggrading up or downstream? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Is the structure on a channel change? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Are there lakes, reservoirs, dams, etc. near the channel? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Does the channel appear to be moving laterally in the area of the bridge? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Evidence of Scour at Bridge | Yes | No | NA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Channel slopes washing or sloughing | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Scour holes near abutments | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Scour holes near piers | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bed deposits downstream | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exposure of footings | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Debris collection | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Debris (if any) displaced | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Existing Channel Condition | Yes | No | NA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Are channel banks up and downstream of bridge | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Is the channel degrading/aggrading up or downstream? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Is the structure on a channel change? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Are there lakes, reservoirs, dams, etc. near the channel? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Does the channel appear to be moving laterally in the area of the bridge? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Substructure Condition (Below Waterline)</th> <th>Yes</th> <th>No</th> <th>NA</th> </tr> </thead> <tbody> <tr> <td>Are abutment scaling?</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Are abutment spalling?</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Are exposed rebar?</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Substructure Condition (Below Waterline)</th> <th>Yes</th> <th>No</th> <th>NA</th> </tr> </thead> <tbody> <tr> <td>Is there exposed piling below footing?</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Are there cracks?</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Is there section loss on members?</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table> <p>It is answered to any of the questions, measurements should be taken. Also, include sketches along with dimensions when possible. These deficiencies shall be reflected in the rating of item 60. If these questions can not be answered, notify Bridge on...</p> <p>E: Take pictures or draw sketches of any and all factors contributing to scour or movement of the channel or streambed. Some factors are, but are not limited to, inadequate waterway area, ice jams/floes, debris, and channel/structures alignment. Give scour hole dimensions.</p> <p>Any remarks or explanations for the above items below. Use an additional page if necessary.</p> | | | Substructure Condition (Below Waterline) | Yes | No | NA | Are abutment scaling? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are abutment spalling? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are exposed rebar? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Substructure Condition (Below Waterline) | Yes | No | NA | Is there exposed piling below footing? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Are there cracks? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Is there section loss on members? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | |
| Substructure Condition (Below Waterline) | Yes | No | NA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Are abutment scaling? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Are abutment spalling? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Are exposed rebar? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Substructure Condition (Below Waterline) | Yes | No | NA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Is there exposed piling below footing? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Are there cracks? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Is there section loss on members? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Channel profile



South approach slab covered with asphalt



North bound lane deck crack .014



North bound lane deck crack .014



North approach slab coved with asphalt



North bound deck lane crack .014



North bound deck lane crack .014



North abutment crack with efflorescence



North abutment crack with efflorescence



North abutment crack .010



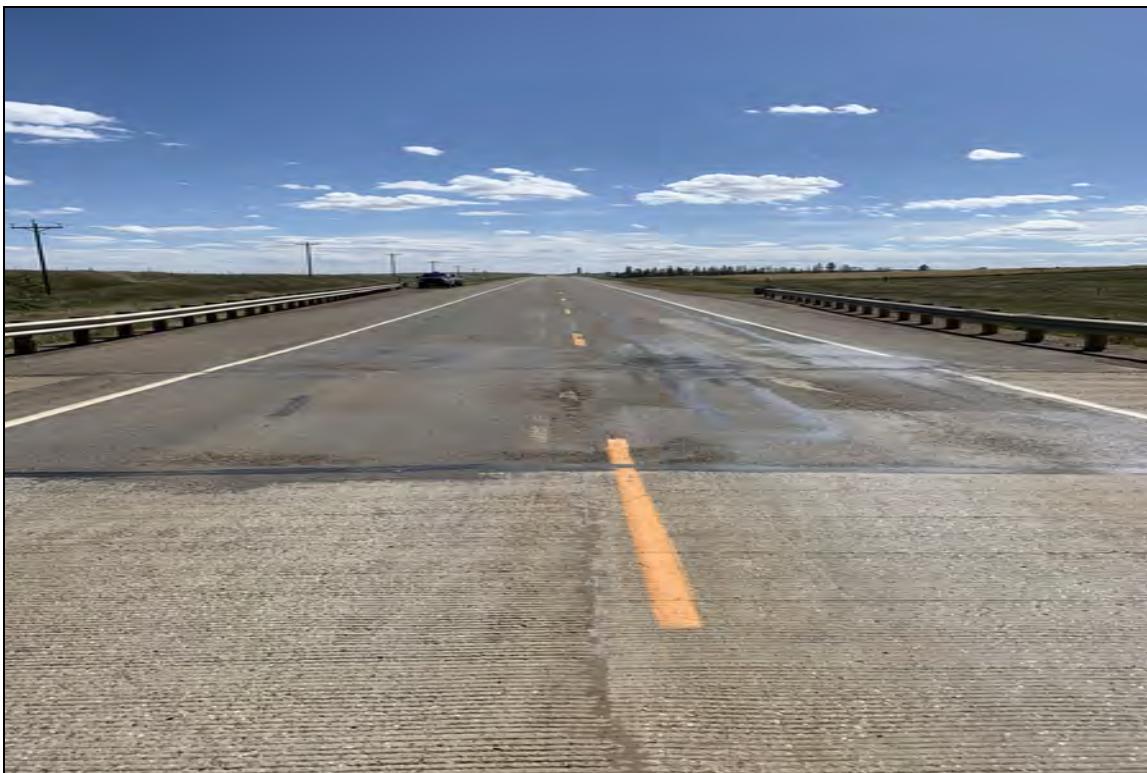
South abutment



East channel looking east



W2 beam spalls



Looking south



Looking north



Looking west



Looking east



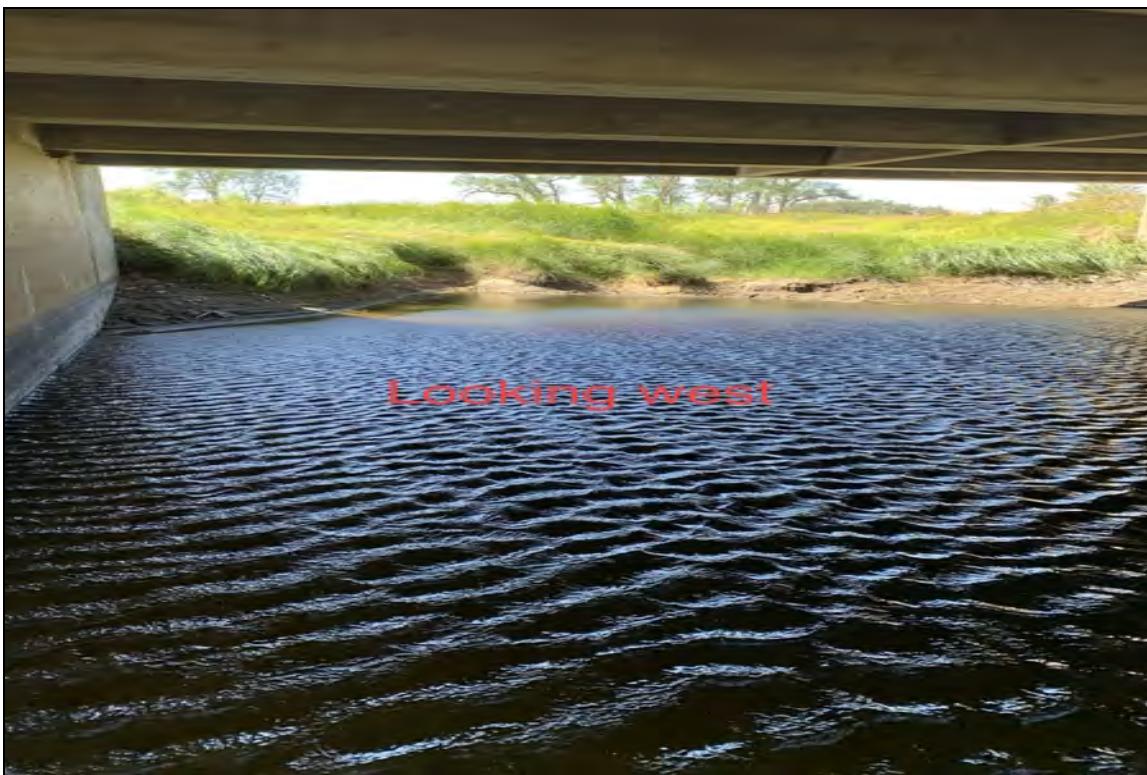
North abutment



E2 beam east face 5"x3"



South abutment crack .004



West channel looking west



South abutment crack.oo6



SW wing minor spall 5"x5"



South abutment west end cracks under backwall