

| Bridge Inspection      |                                                                 |  |  |      |  |                     |                |  |                                                 |
|------------------------|-----------------------------------------------------------------|--|--|------|--|---------------------|----------------|--|-------------------------------------------------|
| Bridge File Number     | 84105 -1 Bridge                                                 |  |  |      |  | Form Type           | PSR            |  |                                                 |
| Year Built/Year Supstr | 2010/2010                                                       |  |  |      |  | Lot No.             | 4              |  |                                                 |
| Bridge or Town Name    | BRIDGE ON LOCAL ROAD (TWP 261)<br>OVER PROVINCIAL HWY 2 S OF BA |  |  |      |  | Inspector Name      | Tom Carey      |  |                                                 |
|                        |                                                                 |  |  |      |  | Inspector Class     | BR CLS A       |  |                                                 |
| Located Over           | 2:15 R1 51.220;2:15 L1 51.324                                   |  |  |      |  | Assistant Name      |                |  |                                                 |
| Located On             | LOCAL ROAD                                                      |  |  |      |  | Assistant Class     |                |  |                                                 |
| Water Body Cl./Year    |                                                                 |  |  |      |  | Inspection Date     | 28-Oct-2011    |  |                                                 |
| Navigabil. Cl./Year    |                                                                 |  |  |      |  | Data Entry By       | Alyssa Boynton |  |                                                 |
| Legal Land Location    | NE SEC 1 TWP 26 RGE 1 W5M                                       |  |  |      |  | Data Entry Date     | 18-Nov-2011    |  |                                                 |
| Longitude, Latitude    | -114:00:07, 51:11:51                                            |  |  |      |  | Reviewer Name       | Garry Roberts  |  |                                                 |
| Road Authority         | Alberta Transportation (AIT)                                    |  |  |      |  | Review Date         | 02-Nov-2011    |  |                                                 |
| Contract Main. Area    | CMA29                                                           |  |  |      |  | Dept. Reviewer Name | Tim Davies     |  |                                                 |
| Clear Roadway/Skew     | 8.2 / 0 deg.                                                    |  |  |      |  | Dept. Review Date   | 25-Nov-2011    |  |                                                 |
| AADT/Year              | 5,000 / 2011 (E)                                                |  |  |      |  | Follow-Up By        |                |  |                                                 |
| Road Classification    | RLU-208-100                                                     |  |  |      |  |                     |                |  |                                                 |
| Detour Length (km)     | 3                                                               |  |  |      |  |                     |                |  |                                                 |
| Allowable Load (t):    | Single                                                          |  |  | Semi |  | Train               |                |  | ----> On Critical Spans<br>---->Critical Member |
| Design Loading:        |                                                                 |  |  |      |  |                     |                |  | ----> Primary Span                              |

| Posting Information                  |                                                         |    |                   |     |                  |      |                 |    |                 |     |                  |    |
|--------------------------------------|---------------------------------------------------------|----|-------------------|-----|------------------|------|-----------------|----|-----------------|-----|------------------|----|
| Required Vert. Clearance Posting (m) |                                                         |    |                   |     |                  |      |                 |    |                 |     |                  |    |
| Posted Vertical Clearance (Y/N)      |                                                         |    | Yes               |     |                  |      |                 |    |                 |     |                  |    |
| Posted:                              | Lane                                                    | NB | On Bridge (m)     | 5.4 | In Advance (Y/N) | No   | Lane            | SB | On Bridge (m)   | 5.4 | In Advance (Y/N) | No |
| Remarks                              | 6.170 m measured at S/B lanes, posted also at N/B ramp. |    |                   |     |                  |      |                 |    |                 |     |                  |    |
| Required Load Posting (t)            |                                                         |    | Single            |     |                  | Semi |                 |    | Truck Train     |     |                  |    |
| Posted Loading (t)                   |                                                         |    | Single            |     |                  | Semi |                 |    | Truck Train     |     |                  |    |
| Posted:                              | Lane                                                    | WB | At Junction (Y/N) | No  | In Advance (Y/N) | No   | At Bridge (Y/N) | No | At Bridge (Y/N) | No  |                  |    |
| Posted:                              | Lane                                                    | EB | At Junction (Y/N) | No  | In Advance (Y/N) | No   | At Bridge (Y/N) | No | At Bridge (Y/N) | No  |                  |    |
| Remarks                              | Not Req'd                                               |    |                   |     |                  |      |                 |    |                 |     |                  |    |
| Hazard Marker At Bridge (Y/N)        | No                                                      |    |                   |     |                  |      |                 |    |                 |     |                  |    |
| Remarks                              |                                                         |    |                   |     |                  |      |                 |    |                 |     |                  |    |
| Other Sign Types                     | Route, 40 km/hr                                         |    |                   |     |                  |      |                 |    |                 |     |                  |    |

| Utilities (Located at) |                                 |  |  |  |  |               |    |  |  |  |  |  |
|------------------------|---------------------------------|--|--|--|--|---------------|----|--|--|--|--|--|
| Utility Attachments    |                                 |  |  |  |  |               |    |  |  |  |  |  |
| Telephone              |                                 |  |  |  |  | Gas           |    |  |  |  |  |  |
| Power                  | Multiple line sin East R/W      |  |  |  |  | Municipal     |    |  |  |  |  |  |
| Others                 | Light standards.                |  |  |  |  | Problem (Y/N) | No |  |  |  |  |  |
| Remarks                | Storm water pond at North West. |  |  |  |  |               |    |  |  |  |  |  |

| Approach Road                       |        |      |          |                                                                                     |
|-------------------------------------|--------|------|----------|-------------------------------------------------------------------------------------|
|                                     |        | Last | Now      | Explanation of Condition                                                            |
| Horizontal Alignment                |        |      | 7        | Curve at West - signed at 40km/hour.                                                |
| Vertical Alignment                  |        |      | 7        |                                                                                     |
| Roadway Width (m)                   | 9.000  |      |          | One W/B lane only - Flares from 9.0m to 8.2m.                                       |
| Approach Bump                       |        |      | 7        |                                                                                     |
| Guardrail (Y/N)                     |        |      |          | No bolts at first and third posts as per TL-3 fleet 350 detail DRG.                 |
| Guardrail                           |        |      | 6        | RDG - B1.5. at east end guardrail.                                                  |
| Length (m)                          | 25.000 |      |          | Bolts at NE cable bracket tightened as much as possible - not fully into guardrail. |
| Current Standard (Y/N)              | Yes    |      |          | Thriebeam at bridge.                                                                |
| Termination Type                    | Bulb   |      |          | 25m at West - 62m at East.                                                          |
| Drainage                            |        |      | 8        |                                                                                     |
| <b>Approach Road General Rating</b> |        |      | <b>7</b> |                                                                                     |

| Superstructure                                                           |           |              |           |                                                                                                                                       |  |
|--------------------------------------------------------------------------|-----------|--------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------|--|
| Bridge Component                                                         |           | Last         | Now       | Explanation of Condition                                                                                                              |  |
| (Primary Span : <b>NU, 2 Spans, Lengths(m): 56-50, A-Ident Number:</b> ) |           |              |           |                                                                                                                                       |  |
| <b>Special Features</b>                                                  |           |              |           |                                                                                                                                       |  |
| Special Feature                                                          |           |              | 8         | Pedway at north to sidewalk at north side of bridge. Vertical scat rail at north sidewalk.                                            |  |
| (Type : )                                                                |           |              |           |                                                                                                                                       |  |
| Special Feature                                                          |           |              | 8         |                                                                                                                                       |  |
| (Type : )                                                                |           |              |           |                                                                                                                                       |  |
| Wearing Surface/Deck Top Detail Ratings                                  |           |              |           |                                                                                                                                       |  |
|                                                                          | N (%)     | 1 (%)        | 2 (%)     | 3 (%)                                                                                                                                 |  |
| <b>Last</b>                                                              |           |              |           |                                                                                                                                       |  |
| <b>Now</b>                                                               | 0.0       | 0.0          | 0.0       | 0.0                                                                                                                                   |  |
| Wearing Surface                                                          |           |              | 8         | ACP covered.                                                                                                                          |  |
| (Material Type : <b>ACP</b> )                                            |           |              |           |                                                                                                                                       |  |
| (Thickness(mm) : <b>80</b> )                                             |           |              |           |                                                                                                                                       |  |
| Lateral Connection Problem (Y/N)                                         |           | No           |           |                                                                                                                                       |  |
| Deck Top                                                                 |           |              | N         |                                                                                                                                       |  |
| Deck Rideability                                                         |           |              | 8         |                                                                                                                                       |  |
| Deck Joints                                                              |           |              | 7         | 80mm tar filled sawcut joints at abutments.                                                                                           |  |
| Temperature (deg. C)                                                     |           | 6            |           |                                                                                                                                       |  |
| (Expansion Type : <b>ASPHALTIC FIBRE BOARD</b> )                         |           |              |           |                                                                                                                                       |  |
| (Fixed Type : )                                                          |           |              |           |                                                                                                                                       |  |
| Gap Size (mm)                                                            |           | Gap Location |           |                                                                                                                                       |  |
| 80                                                                       |           | East Abut.   |           |                                                                                                                                       |  |
| 80                                                                       |           | West Abut.   |           |                                                                                                                                       |  |
|                                                                          |           |              |           |                                                                                                                                       |  |
| Deck Drainage                                                            |           |              | 8         | Drains through at North parapet at cast is drain holes.                                                                               |  |
| Drains Clogged (Y/N)                                                     |           | No           |           |                                                                                                                                       |  |
| Curbs/Median                                                             |           |              | 7         | Straining and efflorescence at curb exterior at North. Jersey / parapets at North and South of road. Concrete curb at North sidewalk. |  |
| (Curb Type : <b>NEW JERSEY</b> )                                         |           |              |           |                                                                                                                                       |  |
| Scaling (Percent Area)                                                   |           | 0            |           |                                                                                                                                       |  |
| Bridge Rail                                                              |           |              | X         |                                                                                                                                       |  |
| (Type : )                                                                |           |              |           |                                                                                                                                       |  |
| Bridge Rail Posts                                                        |           |              | X         |                                                                                                                                       |  |
| (Type : )                                                                |           |              |           |                                                                                                                                       |  |
| Bridge Rail/Posts Coating                                                |           |              | X         | (Type : )                                                                                                                             |  |
| (Type : )                                                                |           |              |           |                                                                                                                                       |  |
| Sidewalk                                                                 |           |              | 7         | Isolated transverse narrow cracks. 4.2m wide sidewalk at North.                                                                       |  |
| Girder Detail Ratings                                                    |           |              |           |                                                                                                                                       |  |
|                                                                          | N (count) | 1 (count)    | 2 (count) | 3 (count)                                                                                                                             |  |
| <b>Last</b>                                                              |           |              |           |                                                                                                                                       |  |
| <b>Now</b>                                                               | 0         | 0            | 0         | 0                                                                                                                                     |  |
| Girders                                                                  |           |              | 8         | 56m West span, 50m East span. 5 lines continuous.                                                                                     |  |
| Cracking (Y/N)                                                           |           | No           |           |                                                                                                                                       |  |
| Spalling (Percent Area)                                                  |           | 0            |           |                                                                                                                                       |  |
| (Number Of Girders : <b>5</b> )                                          |           |              |           |                                                                                                                                       |  |
| Diaphragms/Cross Frame                                                   |           |              | 7         | Minor hairline cracks.                                                                                                                |  |

| Superstructure                                                           |     |      |          |                                                                                 |
|--------------------------------------------------------------------------|-----|------|----------|---------------------------------------------------------------------------------|
| Bridge Component                                                         |     | Last | Now      | Explanation of Condition                                                        |
| <b>(Primary Span : NU, 2 Spans, Lengths(m): 56-50, A-Ident Number: )</b> |     |      |          |                                                                                 |
| Bearings                                                                 |     |      | 8        | Integral at pier.                                                               |
| Temperature (deg. C)                                                     | 6   |      |          |                                                                                 |
| (Expansion Type : <b>POT BEARING</b> )                                   |     |      |          |                                                                                 |
| (Fixed Type : )                                                          |     |      |          |                                                                                 |
| Coating Adequate (Y/N)                                                   | Yes |      |          |                                                                                 |
| Functioning (Y/N)                                                        | Yes |      |          |                                                                                 |
| Deck Underside                                                           |     |      | 8        | Minor efflorescence.                                                            |
| Stains (Percent Area)                                                    | 1   |      |          |                                                                                 |
| <b>Span Alignment Problems</b>                                           |     |      |          |                                                                                 |
| Vertical (Y/N)                                                           |     |      |          |                                                                                 |
| Horizontal (Y/N)                                                         |     |      |          |                                                                                 |
| <b>Superstructure General Rating</b>                                     |     |      | <b>8</b> |                                                                                 |
| Substructure                                                             |     |      |          |                                                                                 |
| Bridge Component                                                         |     | Last | Now      | Explanation of Condition                                                        |
| <b>Abutments</b>                                                         |     |      |          |                                                                                 |
| Bearing Seats/Caps                                                       |     |      | 8        |                                                                                 |
| (Type : <b>CONCRETE</b> )                                                |     |      |          |                                                                                 |
| Backwalls/Breastwalls                                                    |     |      | 8        |                                                                                 |
| Wingwalls                                                                |     |      | 8        | Minor efflorescence.                                                            |
| Piles                                                                    |     |      | N        |                                                                                 |
| Paint/Coating                                                            |     |      | 8        | Only coated at exposed 400mm top of breast wall - no coating at wings or seats. |
| Abutment Stability                                                       |     |      | 8        |                                                                                 |
| Scour/Erosion                                                            |     |      | 8        |                                                                                 |
| <b>Piers/Bents</b>                                                       |     |      |          |                                                                                 |
| (Type : <b>PIER-COLUMN</b> )                                             |     |      |          |                                                                                 |
| Bearing Seats/Caps                                                       |     |      | 8        | Integral.                                                                       |
| (Type : <b>CONCRETE</b> )                                                |     |      |          |                                                                                 |
| <b>(Total Number of Bearing Piles : 0)</b>                               |     |      |          | 3 columns.                                                                      |
| Pier Shaft/Piles                                                         |     |      | 8        |                                                                                 |
| Bracing/Struts/Sheathing                                                 |     |      | 8        |                                                                                 |
| Nose Plate                                                               |     |      | 8        |                                                                                 |
| Paint/Coating                                                            |     |      | N        | None.                                                                           |
| (Colour Description : )                                                  |     |      |          |                                                                                 |
| (Colour Code : )                                                         |     |      |          |                                                                                 |
| Pier Stability                                                           |     |      | 8        |                                                                                 |
| Scour                                                                    |     |      | X        |                                                                                 |
| Debris (Y/N)                                                             | No  |      |          |                                                                                 |
| <b>Substructure General Rating</b>                                       |     |      | <b>8</b> |                                                                                 |

| Structure Usage                        |            |      |          |                                                      |
|----------------------------------------|------------|------|----------|------------------------------------------------------|
|                                        |            | Last | Now      | Explanation of Condition                             |
| <b>Grade Separation</b>                |            |      |          |                                                      |
| Road Alignment                         |            |      | 8        |                                                      |
| Traffic Safety Features                |            |      | 8        | Thriebeam at median.                                 |
| Type                                   | Gaurdrail. |      |          |                                                      |
| Slope Protection                       |            |      | 8        | MSE wall and concrete slope protection at abutments. |
| (Type : <b>CONCRETE; CONCRETE</b> )    |            |      |          |                                                      |
| Bank Stability                         |            |      | 8        |                                                      |
| Drainage                               |            |      | 8        |                                                      |
| <b>Grade Separation General Rating</b> |            |      | <b>8</b> |                                                      |

| Maintenance Recommendations                       |              |                                          |                           |               |           |                   |    |
|---------------------------------------------------|--------------|------------------------------------------|---------------------------|---------------|-----------|-------------------|----|
| Inspector Recommendations                         | Year         | Inspector Comments                       | Department Comments       | Target Year   | Est. Cost | Cat #             |    |
| REPAIR/REPLACE BRIDGE RAIL                        |              |                                          |                           |               |           |                   |    |
| GALVANIZE/PAINT BRIDGE RAIL                       |              |                                          |                           |               |           |                   |    |
| SEAL CURBS                                        |              |                                          |                           |               |           |                   |    |
| PATCH DECK                                        |              |                                          |                           |               |           |                   |    |
| SEAL DECK                                         |              |                                          |                           |               |           |                   |    |
| OVERLAY DECK                                      |              |                                          |                           |               |           |                   |    |
| REPAIR/REPLACE DECK JOINTS                        |              |                                          |                           |               |           |                   |    |
| RESET/ PAINT BEARINGS                             |              |                                          |                           |               |           |                   |    |
| WASHING                                           |              |                                          |                           |               |           |                   |    |
| SHOTCRETE REPAIRS                                 |              |                                          |                           |               |           |                   |    |
| REPAIR ABUTMENT SCOUR/EROSION                     |              |                                          |                           |               |           |                   |    |
| PLACE ADDITIONAL RIP RAP                          |              |                                          |                           |               |           |                   |    |
| REMOVE DRIFT ACCUMULATION                         |              |                                          |                           |               |           |                   |    |
| OTHER ACTION                                      |              |                                          |                           |               |           |                   |    |
| OTHER ACTION                                      |              |                                          |                           |               |           |                   |    |
| OTHER ACTION                                      |              |                                          |                           |               |           |                   |    |
| OTHER ACTION                                      |              |                                          |                           |               |           |                   |    |
| <b>Structural Condition Rating (Last/Now) (%)</b> | <b>/88.9</b> | <b>Sufficiency Rating (Last/Now) (%)</b> | <b>/64.9</b>              | Est. Repl. Yr | 2070      | Maint. Req. (Y/N) | No |
| Special Comments for Next Inspection              |              |                                          | Department Comments       |               |           |                   |    |
| Maintenance Reviewed By                           |              |                                          | Date                      |               |           | Estimated Total   | 0  |
| Proposed Long-Term Strategy                       |              |                                          |                           |               |           |                   |    |
| On 3-Year Program (Y/N)                           |              |                                          |                           |               |           |                   |    |
| Proposed Action                                   |              |                                          |                           |               |           |                   |    |
| Previous Inspector's Name                         |              |                                          | Previous Assistant's Name |               |           |                   |    |
| Next Inspection Date                              | 28-Jul-2013  |                                          | Previous Inspection Date  |               |           |                   |    |
| Inspection Cycle (Default) (months)               | 21           |                                          |                           |               |           |                   |    |
| Comment                                           |              |                                          |                           |               |           |                   |    |