

| Bridge Inspection                   |   |        |                   |          |  |                 |   |    |  |
|-------------------------------------|---|--------|-------------------|----------|--|-----------------|---|----|--|
| Bridge File Number                  | 09464 -1 Bridge   |        |                   |          | Form Type  | PCS             |   |    |  |
| Year Built/Year Supstr              | 1994/1994   |        |                   |          | Lot No.  | 2               |   |    |  |
| Bridge or Town Name                 | MACKAY  |        |                   |          | Inspector Name   | Wade Nanninga   |   |    |  |
| Located Over                        | LOBSTICK RIVER, 8.11.84.51, WATERCRS-ST                           |        |                   |          | Inspector Class  | BR CLS A        |   |    |  |
| Located On                          | 751:02 C1 5.853   |        |                   |          | Assistant Name   |                 |   |    |  |
| Water Body Cl./Year                 |   |        |                   |          | Assistant Class  |                 |   |    |  |
| Navigabil. Cl./Year                 |   |        |                   |          | Inspection Date  | 17-Apr-2013     |   |    |  |
| Legal Land Location                 | SW SEC 17 TWP 54 RGE 11 W5M                                       |        |                   |          | Data Entry By  | Theresa Lacusta |   |    |  |
| Longitude, Latitude                 | -115:35:10, 53:39:45  |        |                   |          | Data Entry Date  | 30-Apr-2013     |   |    |  |
| Road Authority                      | Alberta Transportation (AIT)                                      |        |                   |          | Reviewer Name  | Eric Carcoux    |   |    |  |
| Contract Main. Area                 | CMA12   |        |                   |          | Review Date  | 29-Apr-2013     |   |    |  |
| Clear Roadway/Skew                  | 9.5 /   |        |                   |          | Dept. Reviewer Name  | Brent Herrick   |   |    |  |
| AADT/Year                           | 200 / 2012 (A)  |        |                   |          | Dept. Review Date  | 01-May-2013     |   |    |  |
| Road Classification                 | RCU-209-110   |        |                   |          | Follow-Up By   |                 |   |    |  |
| Detour Length (km)                  | 24  |        |                   |          |  |                 |   |    |  |
| Allowable Load (t):                 | Single  | CS1 28 | Semi              | CS2 49   | Train  | CS3 62          | ----> On Critical Spans<br>---->Critical Member |    |  |
| Design Loading:                     | CS750   |        |                   |          |  |                 | ----> Primary Span                              |    |  |
| Posting Information                 |   |        |                   |          |  |                 |   |    |  |
| Required Load Posting (t)           | Single  |        |                   |          | Semi   |                 | Truck Train                                     |    |  |
| Posted Loading (t)                  | Single  |        |                   |          | Semi   |                 | Truck Train                                     |    |  |
| Posted:                             | Lane  | NB     | At Junction (Y/N) | No       | In Advance (Y/N)   | No              | At Bridge (Y/N)                                 | No |  |
| Posted:                             | Lane  | SB     | At Junction (Y/N) | No       | In Advance (Y/N)   | No              | At Bridge (Y/N)                                 | No |  |
| Remarks                             | Not required.   |        |                   |          |  |                 |   |    |  |
| Hazard Marker At Bridge (Y/N)       | Yes   |        |                   |          |  |                 |   |    |  |
| Remarks                             | Installed on 3rd approach rail post. Missing SW, varying heights. |        |                   |          |  |                 |   |    |  |
| Other Sign Types                    | Lobstick River.   |        |                   |          |  |                 |   |    |  |
| Utilities (Located at)              |   |        |                   |          |  |                 |   |    |  |
| Utility Attachments                 | TELEPHONE UTILITIES-PHONE LINE                                    |        |                   |          |  |                 |   |    |  |
| Telephone                           |   |        |                   |          | Gas  | 20m E           |   |    |  |
| Power                               | 1 wire E r/w  |        |                   |          | Municipal  |                 |   |    |  |
| Others                              |   |        |                   |          | Problem (Y/N)  | No              |   |    |  |
| Remarks                             |   |        |                   |          |  |                 |   |    |  |
| Approach Road                       |   |        |                   |          |  |                 |   |    |  |
|                                     |   |        | Last              | Now      | Explanation of Condition                                   |                 |   |    |  |
| Horizontal Alignment                |   |        | 7                 | 7        | Field approach 120m South, range rd 200m North.            |                 |   |    |  |
| Vertical Alignment                  |   |        | 9                 | 9        |  |                 |   |    |  |
| Roadway Width (m)                   | 9.700   |        |                   |          | ACP cracked at N & S approaches.-photo                     |                 |   |    |  |
| Approach Bump                       |   |        | 4                 | 4        |  |                 |   |    |  |
| Guardrail (Y/N)                     | Yes   |        |                   |          | No thrie beam  |                 |   |    |  |
| Guardrail                           |   |        | 7                 | 7        |  |                 |   |    |  |
| Length (m)                          | 26.000  |        |                   |          |  |                 |   |    |  |
| Current Standard (Y/N)              | No  |        |                   |          |  |                 |   |    |  |
| Termination Type                    | Turn Down   |        |                   |          |  |                 |   |    |  |
| Drainage                            |   |        | 4                 | 4        | 15x3x1m (lwd) ditch erosion NW corner. Grassed over.-photo |                 |   |    |  |
| <b>Approach Road General Rating</b> |   |        | <b>7</b>          | <b>7</b> |  |                 |   |    |  |

| Superstructure   |             |           |           |                          |   |
|--|-------------|-----------|-----------|--------------------------|---|
| Bridge Component   |             | Last      | Now       | Explanation of Condition |   |
| (Primary Span : <b>SCC, 3 Spans, Lengths(m): 13-14-13, A-Ident Number: )</b> |             |           |           |                          |   |
| <b>Special Features</b>  |             |           |           |                          |   |
| Special Feature  |             |           | X         |                          |   |
| (Type : )  |             |           |           |                          |   |
| Special Feature  |             |           | X         |                          |   |
| (Type : )  |             |           |           |                          |   |
| Wearing Surface/Deck Top Detail Ratings                                      |             |           |           |                          |   |
|  | N (%)       | 1 (%)     | 2 (%)     | 3 (%)                    |   |
| <b>Last</b>  |             |           |           |                          |   |
| <b>Now</b>   |             |           |           |                          |   |
| Wearing Surface  |             |           | 5         | 7                        | 1% peeling @ North abut.<br>Narrow cracks in deck over piers.-photo-19-Nov-2009 |
| (Material Type : <b>CONCRETE</b> )   |             |           |           |                          |   |
| (Thickness(mm) : <b>50</b> )   |             |           |           |                          |   |
| Lateral Connection Problem (Y/N)   | No          |           |           |                          |   |
| Deck Top   |             |           | N         | N                        |   |
| Deck Rideability   |             |           | 8         | 8                        |   |
| Deck Joints  |             |           | 6         | 6                        | Buffer angles.  |
| Bump (Y/N)   | Yes         |           |           |                          |   |
| Deck Drainage  |             |           | 8         | 8                        |   |
| Drains Clogged (Y/N)   | No          |           |           |                          |   |
| Curbs/Median   |             |           | 7         | 6                        | Narrow transverse cracks at approx. 1500mm on centre.<br>Grader scrapes- minor  |
| (Curb Type : <b>Standard</b> )   |             |           |           |                          |   |
| Scaling (Percent Area)   | 20          |           |           |                          |   |
| Bridge Rail  |             |           | 8         | 8                        |   |
| (Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )                                |             |           |           |                          |   |
| Bridge Rail Posts  |             |           | 8         | 8                        |   |
| (Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )                 |             |           |           |                          |   |
| Bridge Rail/Posts Coating  |             |           | 8         | 8                        |   |
| (Type : <b>GALVANIZED</b> )  |             |           |           |                          |   |
| Sidewalk   |             |           | X         | X                        |   |
| <b>Girder Detail Ratings</b>   |             |           |           |                          |   |
|  | N (count)   | 1 (count) | 2 (count) | 3 (count)                |   |
| <b>Last</b>  |             |           |           |                          |   |
| <b>Now</b>   |             |           |           |                          |   |
| Girders  |             |           | 5         | 5                        | SP1G2 diag. crack less than 0.5m  |
| Last Complete Inspection Date  | 17-Apr-2013 |           |           |                          |   |
| Cracking (Y/N)   | Yes         |           |           |                          |   |
| Spalling (Percent Area)  | 0           |           |           |                          |   |
| Lift or Connector Pocket Grouted (Y/N)                                       | Yes         |           |           |                          |   |
| (Number Of Girders : <b>27</b> )   |             |           |           |                          |   |
| <b>Span Alignment Problems</b>   |             |           |           |                          |   |
| Vertical (Y/N)   | No          |           |           |                          |   |
| Horizontal (Y/N)   | No          |           |           |                          |   |
| <b>Superstructure General Rating</b>   |             |           | <b>5</b>  | <b>5</b>                 |   |

| Substructure                                  |           |           |           |                          |  |  |
|---|-----------|-----------|-----------|--------------------------|--|--|
| Bridge Component                              |           | Last      | Now       | Explanation of Condition |  |  |
| <b>Abutments</b>                              |           |           |           |                          |  |  |
| (Extended Backwall Piles (Y/N) : <b>Y</b> )   |           |           |           |                          |  |  |
| (Extended Backwall Piles Spacing(mm) : )      |           |           |           |                          |  |  |
| INFTRA benchmark on NW wingwall.              |           |           |           |                          |  |  |
| (Total Number of Caps/Corbels : <b>1:1</b> )  |           |           |           |                          |  |  |
| Bearing Seats/Caps/Corbels Detail Ratings     |           |           |           |                          |  |  |
|   | N (count) | 1 (count) | 2 (count) | 3 (count)                |  |  |
| <b>Last</b>                                   |           |           |           |                          |  |  |
| <b>Now</b>                                    |           |           |           |                          |  |  |
| Bearing Seats/Caps/Corbels                    |           |           | 8         | 8                        |  |  |
| (Type : <b>CONCRETE</b> )                     |           |           |           |                          |  |  |
| (Depth(mm) : <b>800</b> )                     |           |           |           |                          |  |  |
| (Width(mm) : <b>600</b> )                     |           |           |           |                          |  |  |
| Backwalls/Breastwalls                         |           |           | X         | X                        |  |  |
| Greatest Height (m)                           |           | 1.40      |           |                          |  |  |
| Wingwalls                                     |           |           | 7         | 7                        |  |  |
| Minor scaling on top of walls.                |           |           |           |                          |  |  |
| (Total Number of Bearing Piles : <b>0:0</b> ) |           |           |           |                          |  |  |
| Piles Detail Ratings                          |           |           |           |                          |  |  |
|   | N (count) | 1 (count) | 2 (count) | 3 (count)                |  |  |
| <b>Last</b>                                   | 1         | 0         | 0         | 0                        |  |  |
| <b>Now</b>                                    | 1         |           |           |                          |  |  |
| Piles   |           |           | N         | N                        |  |  |
| Paint/Coating                                 |           |           | 5         | 5                        |  |  |
| Sealer is cracked and about 5% has worn off.  |           |           |           |                          |  |  |
| Abutment Stability                            |           |           | 8         | 8                        |  |  |
| Scour/Erosion                                 |           |           | 8         | 7                        |  |  |
| <b>Piers/Bents</b>                            |           |           |           |                          |  |  |
| (Type : <b>PIER-COLUMN</b> )                  |           |           |           |                          |  |  |
| (Total Number of Caps/Corbels : <b>1:1</b> )  |           |           |           |                          |  |  |
| Bearing Seats/Caps/Corbels Detail Ratings     |           |           |           |                          |  |  |
|   | N (count) | 1 (count) | 2 (count) | 3 (count)                |  |  |
| <b>Last</b>                                   |           |           |           |                          |  |  |
| <b>Now</b>                                    |           |           |           |                          |  |  |
| Bearing Seats/Caps/Corbels                    |           |           | 8         | 8                        |  |  |
| (Type : <b>CONCRETE</b> )                     |           |           |           |                          |  |  |
| (Depth(mm) : <b>600</b> )                     |           |           |           |                          |  |  |
| (Width(mm) : <b>450</b> )                     |           |           |           |                          |  |  |
| (Total Number of Bearing Piles : <b>5:5</b> ) |           |           |           |                          |  |  |
| Piles Detail Ratings                          |           |           |           |                          |  |  |
|   | N (count) | 1 (count) | 2 (count) | 3 (count)                |  |  |
| <b>Last</b>                                   |           |           |           |                          |  |  |
| <b>Now</b>                                    |           |           |           |                          |  |  |
| Pier Shaft/Piles                              |           |           | 8         | 8                        |  |  |
| Greatest Height (m)                           |           | 5.90      |           |                          |  |  |
| Bracing/Struts/Sheathing                      |           |           | 8         | 8                        |  |  |
| Nose Plate                                    |           |           | X         | X                        |  |  |

| Substructure                                 |    |          |          |                                 |
|--|----|----------|----------|---------------------------------|
| Bridge Component                             |    | Last     | Now      | Explanation of Condition        |
| Paint/Coating                                |    | 8        | 8        |                                 |
| (Colour Description : )                      |    |          |          |                                 |
| (Colour Code : )                             |    |          |          |                                 |
| Pier Stability                               |    | 9        | 8        |                                 |
| Scour  |    | 8        | 7        |                                 |
| Debris (Y/N)                                 | No |          |          |                                 |
| <b>Substructure General Rating</b>           |    | <b>8</b> | <b>8</b> |                                 |
| Structure Usage                              |    |          |          |                                 |
|  |    | Last     | Now      | Explanation of Condition        |
| <b>Channel</b>                               |    |          |          |                                 |
| (U/S Direction : <b>W</b> )                  |    |          |          |                                 |
| (D/S Direction : <b>E</b> )                  |    |          |          |                                 |
| Alignment                                    |    | 7        | 7        |                                 |
| Bank Stability                               |    | 7        | 4        | Sloughing banks both directions |
| HWM (m below Top of Curb)                    |    |          |          | HWM not visible.                |
| Drift (Y/N)                                  | No |          |          |                                 |
| Slope Protection                             |    | 8        | 7        |                                 |
| (Type : <b>RIP RAP; RIP RAP</b> )            |    |          |          |                                 |
| Guidebank/Spurs                              |    | X        | X        |                                 |
| Adequacy of Opening                          |    | 8        | 8        |                                 |
| (Fish Compensation Measure 1 : <b>NONE</b> ) |    |          |          |                                 |
| (Fish Compensation Measure 2 : <b>NONE</b> ) |    |          |          |                                 |
| <b>Channel General Rating</b>                |    | <b>7</b> | <b>4</b> |                                 |

| Maintenance Recommendations                       |                                   |  |                           |               |           |                   |     |
|---|-----------------------------------|--|---------------------------|---------------|-----------|-------------------|-----|
| Inspector Recommendations                         | Year                              | Inspector Comments                       | Department Comments       | Target Year   | Est. Cost | Cat #             |     |
| REPAIR/REPLACE BRIDGE RAIL                        |                                   |  |                           |               |           |                   |     |
| SEAL CURBS  |                                   |  |                           |               |           |                   |     |
| PATCH DECK  |                                   |  |                           |               |           |                   |     |
| OVERLAY DECK                                      |                                   |  |                           |               |           |                   |     |
| STRAIGHTEN/REPLACE MEMBERS                        |                                   |  |                           |               |           |                   |     |
| WASHING   |                                   |  |                           |               |           |                   |     |
| SHOTCRETE REPAIRS                                 |                                   |  |                           |               |           |                   |     |
| CORE TIMBER CAPS/CORBELS                          |                                   |  |                           |               |           |                   |     |
| REPAIR/REPLACE TIMBER CAPS                        |                                   |  |                           |               |           |                   |     |
| REPAIR ABUTMENT SCOUR/EROSION                     |                                   |  |                           |               |           |                   |     |
| PLACE ADDITIONAL RIP RAP                          |                                   |  |                           |               |           |                   |     |
| REMOVE DRIFT ACCUMULATION                         |                                   |  |                           |               |           |                   |     |
| INSTALL STRUTS                                    |                                   |  |                           |               |           |                   |     |
| OTHER ACTION                                      | 2013                              | Seal cracks in ACP at approaches.        |                           |               |           |                   |     |
| OTHER ACTION                                      |                                   |  |                           |               |           |                   |     |
| OTHER ACTION                                      |                                   |  |                           |               |           |                   |     |
| OTHER ACTION                                      |                                   |  |                           |               |           |                   |     |
| <b>Structural Condition Rating (Last/Now) (%)</b> | <b>72.2/72.2</b>                  | <b>Sufficiency Rating (Last/Now) (%)</b> | <b>70.8/66.3</b>          | Est. Repl. Yr | 2058      | Maint. Req. (Y/N) | Yes |
| Special Comments for Next Inspection              | Monitor girders, banks, NW ditch. |  | 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                         | Arnold Assenheimer                |  | Previous Assistant's Name | Kris Bosters  |           |                   |     |
| Next Inspection Date                              | 17-Jul-2016                       |  | Previous Inspection Date  | 19-Nov-2009   |           |                   |     |
| Inspection Cycle (Default) (months)               | 39                                |  |                           |               |           |                   |     |
| Comment   |                                   |  |                           |               |           |                   |     |