

| Bridge Inspection                   |   |        |                   |            |   |              |   |    |  |
|-------------------------------------|---|--------|-------------------|------------|---|--------------|---|----|--|
| Bridge File Number                  | 00237 -1 Bridge   |        |                   |            | Form Type                               | PCS          |   |    |  |
| Year Built/Year Supstr              | 1975/1975   |        |                   |            | Lot No.                                 | 1            |   |    |  |
| Bridge or Town Name                 | CHIPMAN   |        |                   |            | Inspector Name                          | Jason Saly   |   |    |  |
| Located Over                        | NORRIS CREEK, 6.62.10, WATERCRS-ST                            |        |                   |            | Inspector Class                         | BR CLS A     |   |    |  |
| Located On                          | 834:04 C1 23.664  |        |                   |            | Assistant Name                          |              |   |    |  |
| Water Body Cl./Year                 |   |        |                   |            | Assistant Class                         |              |   |    |  |
| Navigabil. Cl./Year                 |   |        |                   |            | Inspection Date                         | 03-Jun-2010  |   |    |  |
| Legal Land Location                 | SW SEC 7 TWP 53 RGE 18 W4M                                    |        |                   |            | Data Entry By                           | Jill Potts   |   |    |  |
| Longitude, Latitude                 | -112:39:22, 53:33:37  |        |                   |            | Data Entry Date                         | 30-Jun-2010  |   |    |  |
| Road Authority                      | Alberta Transportation (AIT)                                  |        |                   |            | Reviewer Name                           | John O'Brien |   |    |  |
| Contract Main. Area                 | CMA14   |        |                   |            | Review Date                             | 24-Jun-2010  |   |    |  |
| Clear Roadway/Skew                  | 8.8 /   |        |                   |            | Dept. Reviewer Name                     | Chris Black  |   |    |  |
| AADT/Year                           | 730 / 2009 (A)  |        |                   |            | Dept. Review Date                       | 06-Jul-2010  |   |    |  |
| Road Classification                 | RCU-209-110   |        |                   |            | Follow-Up By                            |              |   |    |  |
| Detour Length (km)                  | 3   |        |                   |            |   |              |   |    |  |
| Allowable Load (t):                 | Single  | CS1 28 | Semi              | CS2 49     | Train                                   | CS3 62       | ----> On Critical Spans<br>---->Critical Member |    |  |
| Design Loading:                     | HS25  |        |                   |            |   |              | ----> 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                             | Not to standard location and height.                          |        |                   |            |   |              |   |    |  |
| Other Sign Types                    |   |        |                   |            |   |              |   |    |  |
| Utilities (Located at)              |   |        |                   |            |   |              |   |    |  |
| Utility Attachments                 |   |        |                   |            |   |              |   |    |  |
| Telephone                           | West ditch.   |        |                   |            | Gas                                     |              |   |    |  |
| Power                               | 3 wire 20m East of c/l.                                       |        |                   |            | Municipal                               |              |   |    |  |
| Others                              |   |        |                   |            | Problem (Y/N)                           | Yes          |   |    |  |
| Remarks                             | (Phone cable exposed under bridge through backwall. 08/01/04) |        |                   |            |   |              |   |    |  |
| Approach Road                       |   |        |                   |            |   |              |   |    |  |
|                                     |   |        | <b>Last</b>       | <b>Now</b> | <b>Explanation of Condition</b>         |              |   |    |  |
| Horizontal Alignment                |   |        | 7                 | 7          | Access 60m NE & SW.                     |              |   |    |  |
| Vertical Alignment                  |   |        | 9                 | 8          |   |              |   |    |  |
| Roadway Width (m)                   | 8.500   |        |                   |            | Both ends recently patched.             |              |   |    |  |
| Approach Bump                       |   |        | 6                 | 6          |   |              |   |    |  |
| Guardrail (Y/N)                     | Yes   |        |                   |            | Insufficient posts. Guardrail too high. |              |   |    |  |
| Guardrail                           |   |        | 7                 | 5          |   |              |   |    |  |
| Length (m)                          | 15.400  |        |                   |            |   |              |   |    |  |
| Current Standard (Y/N)              | No  |        |                   |            |   |              |   |    |  |
| Termination Type                    | Turn Down.  |        |                   |            |   |              |   |    |  |
| Drainage                            |   |        | 7                 | 7          |   |              |   |    |  |
| <b>Approach Road General Rating</b> |   |        | <b>7</b>          | <b>7</b>   |   |              |   |    |  |

| Superstructure  |           |             |           |                          |   |
|---|-----------|-------------|-----------|--------------------------|---|
| Bridge Component  |           | Last        | Now       | Explanation of Condition |   |
| (Primary Span : VS, 1 Spans, Lengths(m): 9.1, A-Ident Number: ) |           |             |           |                          |   |
| <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>   | 0         | 0           | 0         | 0                        |   |
| <b>Now</b>  |           |             |           |                          |   |
| Wearing Surface   |           |             | 5         | 4                        | 3 longitudinal cracks length of deck. Minor raveling along cracks.  |
| (Material Type : <b>ACP</b> )                                   |           |             |           |                          |   |
| (Thickness(mm) : <b>50</b> )                                    |           |             |           |                          |   |
| Lateral Connection Problem (Y/N)                                |           | No          |           |                          |   |
| Deck Top  |           |             | N         | N                        |   |
| Deck Rideability  |           |             | 6         | 6                        |   |
| Deck Joints   |           |             | N         | N                        | Paved over. Minor bump, no problem.   |
| Bump (Y/N)  |           | Yes         |           |                          |   |
| Deck Drainage   |           |             | 7         | 7                        | No deck drains. Stains from connector pockets at girder undersides.   |
| Drains Clogged (Y/N)  |           | No          |           |                          |   |
| Curbs/Median  |           |             | 6         | 5                        |   |
| (Curb Type : <b>Standard</b> )                                  |           |             |           |                          |   |
| Scaling (Percent Area)  |           | 1           |           |                          |   |
| Bridge Rail   |           |             | 8         | 7                        | Double layer.   |
| (Type : <b>GALVANIZED STEEL FLEX BEAM</b> )                     |           |             |           |                          |   |
| Bridge Rail Posts   |           |             | 8         | 7                        |   |
| (Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )    |           |             |           |                          |   |
| Bridge Rail/Posts Coating                                       |           |             | 8         | 7                        |   |
| (Type : <b>GALVANIZED</b> )                                     |           |             |           |                          |   |
| Sidewalk  |           |             | X         | X                        |   |
| Girder Detail Ratings   |           |             |           |                          |   |
|   | N (count) | 1 (count)   | 2 (count) | 3 (count)                |   |
| <b>Last</b>   | 0         |             |           | 1                        |   |
| <b>Now</b>  |           |             |           | 1                        |   |
| Girders   |           |             | 3         | 3                        | All girders have hairline to narrow width longitudinal cracks along bottoms. G4 has short medium/wide crack with rust stains. Rust stains may be from connector pocket staining. No action required at this time. Grout in curb lift pockets in poor shape. |
| Last Complete Inspection Date                                   |           | 03-Jun-2010 |           |                          |   |
| Cracking (Y/N)  |           | Yes         |           |                          |   |
| Spalling (Percent Area)   |           | 0           |           |                          |   |
| Lift or Connector Pocket Grouted (Y/N)                          |           | Yes         |           |                          |   |
| (Number Of Girders : <b>8</b> )                                 |           |             |           |                          |   |
| <b>Span Alignment Problems</b>                                  |           |             |           |                          |   |
| Vertical (Y/N)  |           | No          |           |                          |   |
| Horizontal (Y/N)  |           | No          |           |                          |   |
| <b>Superstructure General Rating</b>                            |           |             | <b>3</b>  | <b>3</b>                 |   |

| Substructure   |           |           |           |           |     |                          |
|--|-----------|-----------|-----------|-----------|-----|--------------------------|
| Bridge Component   |           |           |           | Last      | Now | Explanation of Condition |
| <b>Abutments</b>   |           |           |           |           |     |                          |
| (Extended Backwall Piles (Y/N) : Y)  |           |           |           |           |     |                          |
| (Extended Backwall Piles Spacing(mm) : 1200)   |           |           |           |           |     |                          |
| (Total Number of Caps/Corbels : 5:5)   |           |           |           |           |     |                          |
| Two timber cap (2nd) 305 x 356 on flat with crowned subcap.  |           |           |           |           |     |                          |
| Bearing Seats/Caps/Corbels Detail Ratings  |           |           |           |           |     |                          |
|  | N (count) | 1 (count) | 2 (count) | 3 (count) |     |                          |
| <b>Last</b>  | 0         | 0         | 0         | 0         |     |                          |
| <b>Now</b>   |           |           |           |           |     |                          |
| Bearing Seats/Caps/Corbels   |           |           |           | 7         | 6   |                          |
| (Type : TREATED TIMBER)  |           |           |           |           |     |                          |
| (Depth(mm) : 350)  |           |           |           |           |     |                          |
| (Width(mm) : 300)  |           |           |           |           |     |                          |
| Backwalls/Breastwalls  |           |           |           | 6         | 6   | North backwall measured. |
| Greatest Height (m)  |           | 2.50      |           |           |     |                          |
| Wingwalls  |           |           |           | 6         | 6   |                          |
| (Total Number of Bearing Piles : 9:11)   |           |           |           |           |     |                          |
| +2. Vertical split in ext piles. Bearing piles are anchored with backwall clamps & scabs (not to std-too high). A1P2 & A1P7 have 15mm wide vertical split, length of pile. All piles banded. |           |           |           |           |     |                          |
| Piles Detail Ratings   |           |           |           |           |     |                          |
|  | N (count) | 1 (count) | 2 (count) | 3 (count) |     |                          |
| <b>Last</b>  | 0         | 0         | 0         | 0         |     |                          |
| <b>Now</b>   |           |           |           |           |     |                          |
| Piles  |           |           |           | 4         | 4   |                          |
| Paint/Coating  |           |           |           | 5         | X   |                          |
| Abutment Stability   |           |           |           | 7         | 7   |                          |
| Scour/Erosion  |           |           |           | 6         | 6   |                          |
| <b>Piers/Bents</b>   |           |           |           |           |     |                          |
| (Type : )  |           |           |           |           |     |                          |
| Max. deck to S/B 3.1 m.  |           |           |           |           |     |                          |
| (Total Number of Caps/Corbels : )  |           |           |           |           |     |                          |
| Bearing Seats/Caps/Corbels Detail Ratings  |           |           |           |           |     |                          |
|  | N (count) | 1 (count) | 2 (count) | 3 (count) |     |                          |
| <b>Last</b>  |           |           |           |           |     |                          |
| <b>Now</b>   |           |           |           |           |     |                          |
| Bearing Seats/Caps/Corbels   |           |           |           | X         | X   |                          |
| (Type : )  |           |           |           |           |     |                          |
| (Depth(mm) : )   |           |           |           |           |     |                          |
| (Width(mm) : )   |           |           |           |           |     |                          |
| (Total Number of Bearing Piles : )   |           |           |           |           |     |                          |
| Piles Detail Ratings   |           |           |           |           |     |                          |
|  | N (count) | 1 (count) | 2 (count) | 3 (count) |     |                          |
| <b>Last</b>  |           |           |           |           |     |                          |
| <b>Now</b>   |           |           |           |           |     |                          |
| Pier Shaft/Piles   |           |           |           | X         | X   |                          |
| Greatest Height (m)  |           |           |           |           |     |                          |
| Bracing/Struts/Sheathing   |           |           |           | X         | X   |                          |
| Nose Plate   |           |           |           | X         | X   |                          |
| Paint/Coating  |           |           |           | X         | X   |                          |
| (Colour Description : )  |           |           |           |           |     |                          |
| (Colour Code : )   |           |           |           |           |     |                          |

| Substructure                                 |    |          |          |  |
|--|----|----------|----------|--|
| Bridge Component                             |    | Last     | Now      | Explanation of Condition                       |
| Pier Stability                               |    | X        | X        |  |
| Scour  |    | 5        | X        | 0.5m deep scour hole under bridge, no problem. |
| Debris (Y/N)                                 | No |          |          |  |
| <b>Substructure General Rating</b>           |    | <b>4</b> | <b>4</b> |  |
| Structure Usage                              |    |          |          |  |
|  |    | Last     | Now      | Explanation of Condition                       |
| <b>Channel</b>                               |    |          |          |  |
| (U/S Direction : <b>E</b> )                  |    |          |          |  |
| (D/S Direction : <b>W</b> )                  |    |          |          |  |
| Alignment                                    |    | 7        | 7        |  |
| Bank Stability                               |    | 7        | 7        |  |
| HWM (m below Top of Curb)                    |    |          |          | HWM not visible.                               |
| Drift (Y/N)                                  | No |          |          |  |
| Slope Protection                             |    | 6        | 6        |  |
| (Type : )                                    |    |          |          |  |
| Guidebank/Spurs                              |    | X        | X        |  |
| Adequacy of Opening                          |    | 7        | 7        |  |
| (Fish Compensation Measure 1 : <b>NONE</b> ) |    |          |          |  |
| (Fish Compensation Measure 2 : <b>NONE</b> ) |    |          |          |  |
| <b>Channel General Rating</b>                |    | <b>7</b> | <b>6</b> |  |

| Maintenance Recommendations                       |   |  |                           |               |           |                   |     |
|---|---|--|---------------------------|---------------|-----------|-------------------|-----|
| Inspector Recommendations                         | Year  | Inspector Comments                       | Department Comments       | Target Year   | Est. Cost | Cat #             |     |
| REPAIR/REPLACE BRIDGE RAIL                        |   |  |                           |               |           |                   |     |
| SEAL CURBS  | 2010  | Re-grout lift pockets.                   |                           |               |           |                   |     |
| 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                                      | 2010  | Seal cracks in ACP.                      |                           |               |           |                   |     |
| OTHER ACTION                                      |   |  |                           |               |           |                   |     |
| OTHER ACTION                                      |   |  |                           |               |           |                   |     |
| OTHER ACTION                                      |   |  |                           |               |           |                   |     |
| <b>Structural Condition Rating (Last/Now) (%)</b> | <b>38.9/38.9</b>  | <b>Sufficiency Rating (Last/Now) (%)</b> | <b>60.2/58.4</b>          | Est. Repl. Yr | 2042      | Maint. Req. (Y/N) | Yes |
| Special Comments for Next Inspection              | Consider upgrading the guardrail to meet standards. No action for "3" rated girders at this time. |  | 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                         | Tim Davies  |  | Previous Assistant's Name |               |           |                   |     |
| Next Inspection Date                              | 03-Sep-2013   |  | Previous Inspection Date  | 21-Mar-2007   |           |                   |     |
| Inspection Cycle (Default) (months)               | 39  |  |                           |               |           |                   |     |
| Comment   |   |  |                           |               |           |                   |     |