

| Bridge Inspection      |                                      |        |      |        |                     |                 |   |  |  |
|------------------------|--------------------------------------|--------|------|--------|---------------------|-----------------|---|--|--|
| Bridge File Number     | 08435 W-2 Bridge                     |        |      |        | Form Type           | PSR             |   |  |  |
| Year Built/Year Supstr | 1984/1984                            |        |      |        | Lot No.             | 2               |   |  |  |
| Bridge or Town Name    | HINTON                               |        |      |        | Inspector Name      | Shane Hall      |   |  |  |
| Located Over           | MASKUTA CREEK, 8.11.141, WATERCRS-ST |        |      |        | Inspector Class     | BR CLS A        |   |  |  |
| Located On             | 16:02 L1 19.994                      |        |      |        | Assistant Name      |                 |   |  |  |
| Water Body Cl./Year    |                                      |        |      |        | Assistant Class     |                 |   |  |  |
| Navigabil. Cl./Year    |                                      |        |      |        | Inspection Date     | 06-Jul-2012     |   |  |  |
| Legal Land Location    | NW SEC 31 TWP 50 RGE 25 W5M          |        |      |        | Data Entry By       | Theresa Lacusta |   |  |  |
| Longitude, Latitude    | -117:39:01, 53:21:39                 |        |      |        | Data Entry Date     | 21-Aug-2012     |   |  |  |
| Road Authority         | Alberta Transportation (AIT)         |        |      |        | Reviewer Name       | Eric Carcoux    |   |  |  |
| Contract Main. Area    | CMA13                                |        |      |        | Review Date         | 20-Aug-2012     |   |  |  |
| Clear Roadway/Skew     | 13.1 /                               |        |      |        | Dept. Reviewer Name | Brent Herrick   |   |  |  |
| AADT/Year              | 5,880 / 2011 (A)                     |        |      |        | Dept. Review Date   | 22-Aug-2012     |   |  |  |
| Road Classification    | RAD-412.4-120                        |        |      |        | Follow-Up By        |                 |   |  |  |
| Detour Length (km)     | 1                                    |        |      |        |                     |                 |   |  |  |
| Allowable Load (t):    | Single                               | CS1 28 | Semi | CS2 49 | Train               | CS3 62          | ----> On Critical Spans<br>---->Critical Member |  |  |
| Design Loading:        | MS300                                |        |      |        |                     |                 | ----> Primary Span                              |  |  |

| Posting Information           |   |    |                   |  |                  |                  |                 |    |                 |    |
|-------------------------------|---|----|-------------------|--|------------------|------------------|-----------------|----|-----------------|----|
| Required Load Posting (t)     | Single  |    |                   |  | Semi             |                  | Truck Train     |    |                 |    |
| Posted Loading (t)            | Single  |    |                   |  | Semi             |                  | Truck Train     |    |                 |    |
| Posted:                       | Lane  | EB | At Junction (Y/N) |  | In Advance (Y/N) |                  | At Bridge (Y/N) |    |                 |    |
| Posted:                       | Lane  | WB | 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                       | Hazard marker not installed next to bridge. Only @ SE & NE corners. |    |                   |  |                  |                  |                 |    |                 |    |
| Other Sign Types              | SW bridge ID fallen off.  |    |                   |  |                  |                  |                 |    |                 |    |

| Utilities (Located at) |                                       |  |  |  |               |  |    |  |  |
|------------------------|---------------------------------------|--|--|--|---------------|--|----|--|--|
| Utility Attachments    | TELEPHONE UTILITIES-PHONE LINE        |  |  |  |               |  |    |  |  |
| Telephone              | North & South r/w.                    |  |  |  | Gas           |  |    |  |  |
| Power                  | 2 lines West end & 3 lines South r/w. |  |  |  | Municipal     |  |    |  |  |
| Others                 | Fibre optic South r/w.                |  |  |  | Problem (Y/N) |  | No |  |  |
| Remarks                |                                       |  |  |  |               |  |    |  |  |

| Approach Road                       |             |  |             |            |   |  |  |  |  |
|-------------------------------------|-------------|--|-------------|------------|---|--|--|--|--|
|                                     |             |  | <b>Last</b> | <b>Now</b> | <b>Explanation of Condition</b>   |  |  |  |  |
| Horizontal Alignment                |             |  | 6           | 6          | Hwy main intersection @ each end.   |  |  |  |  |
| Vertical Alignment                  |             |  | 6           | 6          | Bottom sag curve, good sight line.  |  |  |  |  |
| Roadway Width (m)                   | 13.000      |  |             |            |   |  |  |  |  |
| Approach Bump                       |             |  | 7           | 7          |   |  |  |  |  |
| Guardrail (Y/N)                     | Yes         |  |             |            | Missing connection bolt to bridge @ SE - photo. One broken post @ NE - (photo).<br>Only @ NE & SE, terminal end @ NW, no guardrail at SW. |  |  |  |  |
| Guardrail                           |             |  | 3           | 3          |   |  |  |  |  |
| Length (m)                          | 41.000      |  |             |            |   |  |  |  |  |
| Current Standard (Y/N)              | No          |  |             |            |   |  |  |  |  |
| Termination Type                    | Turned Down |  |             |            |   |  |  |  |  |
| Drainage                            |             |  | 4           | 4          | Up to 400mm deep scour channel @ NW & NE wingwall - grassed & stable. 30mm gap @ NW approach/curb - photo.                                |  |  |  |  |
| <b>Approach Road General Rating</b> |             |  | <b>6</b>    | <b>6</b>   |   |  |  |  |  |

| Superstructure   |           |              |           |  |  |
|--|-----------|--------------|-----------|--|--|
| Bridge Component   |           | Last         | Now       | Explanation of Condition               |  |
| (Primary Span : DBT, 1 Spans, Lengths(m): 42, A-Ident Number: )  |           |              |           |  |  |
| <b>Special Features</b>  |           |              |           |  |  |
| Special Feature  |           |              | X         | Bridge plaque @ SW fallen off (photo). |  |
| (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         | 5                                      |  |
| (Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> ) |           |              |           |  |  |
| (Thickness(mm) : <b>50</b> )                                     |           |              |           |  |  |
| Lateral Connection Problem (Y/N)                                 |           | No           |           |  |  |
| Deck Top   |           |              | N         | N                                      |  |
| Deck Rideability   |           |              | 7         | 7                                      |  |
| Deck Joints  |           |              | 7         | 7                                      |  |
| Temperature (deg. C)   |           | 17           |           |  |  |
| (Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )    |           |              |           |  |  |
| (Fixed Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )        |           |              |           |  |  |
| Gap Size (mm)  |           | Gap Location |           |  |  |
| 80   |           | east         |           |  |  |
| 70   |           | west         |           |  |  |
|  |           |              |           |  |  |
| Deck Drainage  |           |              | 7         | 7                                      | No deck drain, flow to East.   |
| Drains Clogged (Y/N)   |           | No           |           |  |  |
| Curbs/Median   |           |              | 6         | 5                                      | Concrete finish peeling off (5%). Typical vertical hairline cracks every approx 1.5 m.<br>Spalling outside face of South curb @ 3 post locations.  |
| (Curb Type : <b>Standard</b> )                                   |           |              |           |  |  |
| Scaling (Percent Area)   |           | 2            |           |  |  |
| Bridge Rail  |           |              | 7         | 7                                      | 1 nut missing NE post - photo. 6 grout pads deteriorated.  |
| (Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )                    |           |              |           |  |  |
| Bridge Rail Posts  |           | 3            | 3         |  |  |
| (Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )     |           |              |           |  |  |
| Bridge Rail/Posts Coating  |           |              | 7         | 7                                      |  |
| (Type : <b>GALVANIZED</b> )                                      |           |              |           |  |  |
| Sidewalk   |           |              | X         | X                                      |  |
| <b>Girder Detail Ratings</b>                                     |           |              |           |  |  |
|  | N (count) | 1 (count)    | 2 (count) | 3 (count)                              |  |
| <b>Last</b>  | 0         | 0            | 0         | 2                                      |  |
| <b>Now</b>   |           |              |           | 2                                      |  |
| Girders  |           |              | 3         | 3                                      | Wide vertical cracks @ ends of G1E & G12E including cracks & rust stain @ G12 E. (photo). Crack monitoring @ G1W. No change since 1999.<br><br>Typical hairline/narrow horiz./diagonal cracks @ most of girder ends. |
| Cracking (Y/N)   |           | Yes          |           |  |  |
| Spalling (Percent Area)  |           | 0            |           |  |  |
| (Number Of Girders : <b>12</b> )                                 |           |              |           |  |  |

| Superstructure   |     |          |          |                          |
|--|-----|----------|----------|--------------------------|
| Bridge Component   |     | Last     | Now      | Explanation of Condition |
| (Primary Span : DBT, 1 Spans, Lengths(m): 42, A-Ident Number: )                |     |          |          |                          |
| Diaphragms/Cross Frame   |     | 7        | 7        |                          |
| Bearings   |     | 7        | 7        | A1 - fixed.              |
| Temperature (deg. C)   | 17  |          |          |                          |
| (Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL) |     |          |          |                          |
| (Fixed Type : REINFORCED PAD BEARING)  |     |          |          |                          |
| Coating Adequate (Y/N)   | Yes |          |          |                          |
| Functioning (Y/N)  | Yes |          |          |                          |
| Deck Underside   |     | 7        | 7        |                          |
| Stains (Percent Area)  | 0   |          |          |                          |
| <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>   |     |          |          |                          |
| Bearing Seats/Caps   |     | 7        | 7        |                          |
| (Type : CONCRETE)  |     |          |          |                          |
| Backwalls/Breastwalls  |     | 7        | 7        |                          |
| Wingwalls  |     | 7        | 7        |                          |
| Piles  |     | N        | N        |                          |
| Paint/Coating  |     | 7        | 6        |                          |
| Abutment Stability   |     | 7        | 7        |                          |
| Scour/Erosion  |     | 5        | 5        |                          |
| <b>Piers/Bents</b>   |     |          |          |                          |
| (Type : )  |     |          |          |                          |
| Bearing Seats/Caps   |     | X        | X        |                          |
| (Type : )  |     |          |          |                          |
| (Total Number of Bearing Piles : )   |     |          |          |                          |
| Pier Shaft/Piles   |     | X        | X        |                          |
| Bracing/Struts/Sheathing   |     | X        | X        |                          |
| Nose Plate   |     | X        | X        |                          |
| Paint/Coating  |     | X        | X        |                          |
| (Colour Description : )  |     |          |          |                          |
| (Colour Code : )   |     |          |          |                          |
| Pier Stability   |     | X        | X        |                          |
| Scour  |     | X        | X        |                          |
| Debris (Y/N)   | No  |          |          |                          |
| <b>Substructure General Rating</b>   |     | <b>7</b> | <b>7</b> |                          |

| Structure Usage                              |     |          |          |  |
|--|-----|----------|----------|--|
|  |     | Last     | Now      | Explanation of Condition                                     |
| <b>Channel</b>                               |     |          |          |  |
| (U/S Direction : <b>S</b> )                  |     |          |          |  |
| (D/S Direction : <b>N</b> )                  |     |          |          |  |
| Alignment                                    |     | 7        | 7        |  |
| Bank Stability                               |     | 7        | 7        |  |
| HWM (m below Top of Curb)                    | 2.0 |          |          | (11/Mar/2007) HWM not visible.<br>H-pile protruding from SB. |
| Drift (Y/N)                                  | Yes |          |          |  |
| Slope Protection                             |     | 7        | 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>7</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                                      | 2013  | Repair cracks @ girder ends, exterior girders.                      |                           |               |           |                   |     |
| OTHER ACTION                                      | 2013  | Install one transition bolt @ SE, reset NW flexbeam & missing post. |                           |               |           |                   |     |
| OTHER ACTION                                      |   |   |                           |               |           |                   |     |
| OTHER ACTION                                      | 2013  | Resecure SW bridge plaque between ACP and approach curb.            |                           |               |           |                   |     |
| OTHER ACTION                                      | 2013  | Pour hot asphalt sealant @ NE & NW corners.                         |                           |               |           |                   |     |
| OTHER ACTION                                      |   |   |                           |               |           |                   |     |
| OTHER ACTION                                      |   |   |                           |               |           |                   |     |
| OTHER ACTION                                      |   |   |                           |               |           |                   |     |
| OTHER ACTION                                      |   |   |                           |               |           |                   |     |
| OTHER ACTION                                      |   |   |                           |               |           |                   |     |
| OTHER ACTION                                      |   |   |                           |               |           |                   |     |
| <b>Structural Condition Rating (Last/Now) (%)</b> | <b>55.6/55.6</b>  | <b>Sufficiency Rating (Last/Now) (%)</b>                            | <b>61.1/61.1</b>          | Est. Repl. Yr | 2048      | Maint. Req. (Y/N) | Yes |
| Special Comments for Next Inspection              | Monitor diagonal crck at G1W - no change.-06-Jul-2012<br>Monitor girder cracking all other girders. |   | 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                         | Eric Carcoux  |   | Previous Assistant's Name |               |           |                   |     |
| Next Inspection Date                              | 06-Apr-2014   |   | Previous Inspection Date  | 15-Sep-2010   |           |                   |     |
| Inspection Cycle (Default) (months)               | 21  |   |                           |               |           |                   |     |

|         |  |
|---------|--|
| Comment |  |
|---------|--|