

| Bridge Inspection                   |                                      |        |                      |            |   |                 |   |  |  |
|-------------------------------------|--------------------------------------|--------|----------------------|------------|---|-----------------|---|--|--|
| Bridge File Number                  | 85020 E-1 Bridge                     |        |                      |            | Form Type   | CON             |   |  |  |
| Year Built/Year Supstr              | 2006/2006                            |        |                      |            | Lot No.   | 3               |   |  |  |
| Bridge or Town Name                 | ANTHONY HENDAY DRIVE                 |        |                      |            | Inspector Name  | Wade Nanninga   |   |  |  |
| Located Over                        | BLACKMUD CREEK, 6.95.2, WATERCRS-ST  |        |                      |            | Inspector Class                                       | BR CLS A        |   |  |  |
| Located On                          | 216:06 L1 1.523                      |        |                      |            | Assistant Name  |                 |   |  |  |
| Water Body Cl./Year                 |                                      |        |                      |            | Assistant Class                                       |                 |   |  |  |
| Navigabil. Cl./Year                 |                                      |        |                      |            | Inspection Date                                       | 27-Feb-2013     |   |  |  |
| Legal Land Location                 | NW SEC 29 TWP 51 RGE 24 W4M          |        |                      |            | Data Entry By   | Theresa Lacusta |   |  |  |
| Longitude, Latitude                 | -113:30:46, 53:26:05                 |        |                      |            | Data Entry Date                                       | 19-Mar-2013     |   |  |  |
| Road Authority                      | Alberta Transportation (AIT)         |        |                      |            | Reviewer Name   | Eric Carcoux    |   |  |  |
| Contract Main. Area                 | ANTHONY HENDAY DRIVE                 |        |                      |            | Review Date   | 14-Mar-2013     |   |  |  |
| Clear Roadway/Skew                  | 18.7 /                               |        |                      |            | Dept. Reviewer Name                                   | Brent Herrick   |   |  |  |
| AADT/Year                           | 51,020 / 2011 (A)                    |        |                      |            | Dept. Review Date                                     | 20-Mar-2013     |   |  |  |
| Road Classification                 | RFD-412.4-110                        |        |                      |            | 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:                     |                                      |        |                      |            |   |                 | ----> Primary Span                              |  |  |
| Posting Information                 |                                      |        |                      |            |   |                 |   |  |  |
| Required Load Posting (t)           | Single                               |        |                      |            | Semi  |                 | Truck Train                                     |  |  |
| Posted Loading (t)                  | Single                               |        |                      |            | Semi  |                 | Truck Train                                     |  |  |
| Posted:                             | Lane                                 | WB     | At Junction (Y/N)    |            | In Advance (Y/N)                                      |                 | At Bridge (Y/N)                                 |  |  |
| Posted:                             | Lane                                 | EB     | 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                             |                                      |        |                      |            |   |                 |   |  |  |
| Other Sign Types                    |                                      |        |                      |            |   |                 |   |  |  |
| Utilities (Located at)              |                                      |        |                      |            |   |                 |   |  |  |
| Utility Attachments                 |                                      |        |                      |            |   |                 |   |  |  |
| Telephone                           |                                      |        |                      |            | Gas   |                 |   |  |  |
| Power                               | Street lighting.                     |        |                      |            | Municipal   |                 |   |  |  |
| Others                              |                                      |        |                      |            | Problem (Y/N)   | No              |   |  |  |
| Remarks                             | Municipal utilities throughout area. |        |                      |            |   |                 |   |  |  |
| Approach Road                       |                                      |        |                      |            |   |                 |   |  |  |
|                                     |                                      |        | <b>Last</b>          | <b>Now</b> | <b>Explanation of Condition</b>                       |                 |   |  |  |
| Horizontal Alignment                |                                      |        | 8                    | 8          | Slight curves (H & V) West.                           |                 |   |  |  |
| Vertical Alignment                  |                                      |        | 8                    | 8          |   |                 |   |  |  |
| Roadway Width (m)                   | 18.700                               |        |                      |            | Wide cracks in ACP at approaches.                     |                 |   |  |  |
| Approach Bump                       |                                      |        | 6                    | 6          |   |                 |   |  |  |
| Guardrail (Y/N)                     | Yes                                  |        |                      |            |   |                 |   |  |  |
| Guardrail                           |                                      |        | 9                    | 8          |   |                 |   |  |  |
| Length (m)                          | 84.000                               |        |                      |            |   |                 |   |  |  |
| Current Standard (Y/N)              | Yes                                  |        |                      |            |   |                 |   |  |  |
| Termination Type                    | Turned Down                          |        |                      |            |   |                 |   |  |  |
| Drainage                            |                                      |        | 5                    | 5          | Majority of erosion gully at NE filled with concrete. |                 |   |  |  |
| <b>Approach Road General Rating</b> |                                      |        | <b>8</b>             | <b>8</b>   |   |                 |   |  |  |

| Superstructure   |       |              |       |                          |  |
|--|-------|--------------|-------|--------------------------|--|
| Bridge Component   |       | Last         | Now   | Explanation of Condition |  |
| (Primary Span : CA, 3 Spans, Lengths(m): 16.5-41.6-16.5, 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>  |       |              |       |                          |  |
| <b>Now</b>   |       |              |       |                          |  |
| Wearing Surface  |       |              | 5     | 5                        | Transverse and longitudinal cracks in ACP. |
| (Material Type : <b>ACP</b> )  |       |              |       |                          |  |
| (Thickness(mm) : <b>80</b> )   |       |              |       |                          |  |
| Deck Top   |       |              | N     | N                        |  |
| Deck Rideability   |       |              | 9     | 9                        |  |
| Deck Joints  |       |              | X     | X                        | Integral abutments and piers.              |
| Temperature (deg. C)   |       | -5           |       |                          |  |
| (Expansion Type : )  |       |              |       |                          |  |
| (Fixed Type : )  |       |              |       |                          |  |
| Gap Size (mm)  |       | Gap Location |       |                          |  |
|  |       |              |       |                          |  |
| Deck Drainage  |       |              | 9     | 9                        | No drains.                                 |
| Drains Clogged (Y/N)   |       | No           |       |                          |  |
| Curbs/Median   |       |              | 9     | 9                        |  |
| (Curb Type : <b>Standard</b> )   |       |              |       |                          |  |
| Scaling (Percent Area)   |       | 0            |       |                          |  |
| Bridge Rail  |       |              | 9     | 9                        |  |
| (Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )                              |       |              |       |                          |  |
| Bridge Rail Posts  |       |              | 9     | 9                        |  |
| (Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )               |       |              |       |                          |  |
| Bridge Rail/Posts Coating  |       |              | 9     | 8                        |  |
| (Type : <b>GALVANIZED</b> )  |       |              |       |                          |  |
| Sidewalk   |       |              | X     | X                        |  |
| Girders  |       |              | 9     | 9                        | Box section.                               |
| Diaphragms/Cross Frame   |       |              | X     | X                        |  |
| Bearings   |       |              | N     | N                        | 20mm thick.                                |
| Temperature (deg. C)   |       | -5           |       |                          |  |
| (Expansion Type : <b>REINFORCED PAD BEARING</b> )                          |       |              |       |                          |  |
| (Fixed Type : )  |       |              |       |                          |  |
| Coating Adequate (Y/N)   |       | Yes          |       |                          |  |
| Functioning (Y/N)  |       | Yes          |       |                          |  |
| Deck Underside   |       |              | 9     | 9                        |  |
| Stains (Percent Area)  |       | 0            |       |                          |  |
| <b>Span Alignment Problems</b>   |       |              |       |                          |  |
| Vertical (Y/N)   |       | No           |       |                          |  |
| Horizontal (Y/N)   |       | No           |       |                          |  |

| Superstructure   |    |      |     |   |
|--|----|------|-----|---|
| Bridge Component   |    | Last | Now | Explanation of Condition  |
| (Primary Span : CA, 3 Spans, Lengths(m): 16.5-41.6-16.5, A-Ident Number: ) |    |      |     |   |
| Superstructure General Rating  |    | 9    | 9   |   |
| Substructure   |    |      |     |   |
| Bridge Component   |    | Last | Now | Explanation of Condition  |
| <b>Abutments</b>   |    |      |     |   |
| Bearing Seats  |    | 9    | 9   |   |
| Backwalls/Breastwalls  |    | 9    | 9   |   |
| Wingwalls  |    | 9    | 7   | Stained @ all corners.  |
| Piles  |    | N    | 8   | Diagonal conc. supports - random narrow diagonal cracks   |
| Paint/Coating  |    | X    | 8   |   |
| Abutment Stability   |    | 9    | 9   |   |
| Scour/Erosion  |    | 9    | 7   | steep headslopes.   |
| <b>Piers/Bents</b>   |    |      |     |   |
| (Type : <b>PIER-COLUMN</b> )   |    |      |     |   |
| Bearing Seats/Caps   |    | 7    | 9   |   |
| (Type : <b>CONCRETE</b> )  |    |      |     |   |
| Pier Shaft/Piles   |    | 9    | 7   | Arch with concrete walls supporting box girders.<br>Hairline map cracking on a few of the vertical members. |
| Nose Plate   |    | X    | X   |   |
| Paint/Coating  |    | X    | X   |   |
| (Colour Description : )  |    |      |     |   |
| (Colour Code : )   |    |      |     |   |
| Pier Stability   |    | 9    | 9   |   |
| Scour  |    | 9    | N   |   |
| Debris (Y/N)   | No |      |     |   |
| Substructure General Rating  |    | 7    | 7   |   |
| Structure Usage  |    |      |     |   |
|  |    | Last | Now | Explanation of Condition  |
| <b>Channel</b>   |    |      |     |   |
| (U/S Direction : <b>S</b> )  |    |      |     |   |
| (D/S Direction : <b>N</b> )  |    |      |     |   |
| Alignment  |    | 8    | 8   |   |
| Bank Stability   |    | 8    | 8   |   |
| HWM (m below Top of Curb)  |    |      |     | HWM not visible.  |
| Drift (Y/N)  | No |      |     |   |
| Slope Protection   |    | 9    | 7   | Riprap at creek level, granular at mid level, upper bank mulch.   |
| (Type : <b>RIP RAP; RIP RAP</b> )  |    |      |     |   |
| Guidebank/Spurs  |    | X    | X   |   |
| Adequacy of Opening  |    | 9    | 9   |   |
| (Fish Compensation Measure 1 : <b>NONE</b> )                               |    |      |     |   |
| (Fish Compensation Measure 2 : <b>NONE</b> )                               |    |      |     |   |

| <b>Structure Usage</b>        |  |             |            |                                 |
|-------------------------------|--|-------------|------------|---------------------------------|
|                               |  | <b>Last</b> | <b>Now</b> | <b>Explanation of Condition</b> |
| <b>Channel General Rating</b> |  | <b>8</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                       |                        |   |                           |               |           |                   |     |
| RETROFIT BRIDGE RAIL                              |                        |   |                           |               |           |                   |     |
| SEAL CURBS  |                        |   |                           |               |           |                   |     |
| PATCH DECK  | 2013                   | Seal cracks in ACP over deck and at approaches. |                           |               |           |                   |     |
| 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>88.9/88.9</b>       | <b>Sufficiency Rating (Last/Now) (%)</b>        | <b>78.8/77.1</b>          | Est. Repl. Yr | 2080      | Maint. Req. (Y/N) | Yes |
| Special Comments for Next Inspection              | Monitor erosion at NE. |   | 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                         | Kris Bosters           |   | Previous Assistant's Name |               |           |                   |     |
| Next Inspection Date                              | 27-Nov-2014            |   | Previous Inspection Date  | 29-Apr-2011   |           |                   |     |
| Inspection Cycle (Default) (months)               | 21                     |   |                           |               |           |                   |     |
| Comment   |                        |   |                           |               |           |                   |     |