

| Bridge Inspection      |                              |        |  |  |                     |               |  |  |       |                    |                                                 |
|------------------------|------------------------------|--------|--|--|---------------------|---------------|--|--|-------|--------------------|-------------------------------------------------|
| Bridge File Number     | 80844 -1 Bridge              |        |  |  | Form Type           | PSR           |  |  |       |                    |                                                 |
| Year Built/Year Supstr | 1985/1985                    |        |  |  | Lot No.             | 2             |  |  |       |                    |                                                 |
| Bridge or Town Name    | LETHBRIDGE                   |        |  |  | Inspector Name      | Garry Roberts |  |  |       |                    |                                                 |
| Located Over           | 5:07 L1 5.844;5:07 R1 5.855  |        |  |  | Inspector Class     | BR CLS A      |  |  |       |                    |                                                 |
| Located On             | 3:09 L1 6.287;3:09 R1 6.262  |        |  |  | Assistant Name      |               |  |  |       |                    |                                                 |
| Water Body Cl./Year    |                              |        |  |  | Assistant Class     |               |  |  |       |                    |                                                 |
| Navigabil. Cl./Year    |                              |        |  |  | Inspection Date     | 01-Dec-2011   |  |  |       |                    |                                                 |
| Legal Land Location    | NE SEC 32 TWP 8 RGE 21 W4M   |        |  |  | Data Entry By       | Anne Roberts  |  |  |       |                    |                                                 |
| Longitude, Latitude    | -112:48:43, 49:41:52         |        |  |  | Data Entry Date     | 08-Jan-2012   |  |  |       |                    |                                                 |
| Road Authority         | Alberta Transportation (AIT) |        |  |  | Reviewer Name       | Joel Wozney   |  |  |       |                    |                                                 |
| Contract Main. Area    | CMA25                        |        |  |  | Review Date         | 12-Dec-2011   |  |  |       |                    |                                                 |
| Clear Roadway/Skew     | 22 / 6 deg. (RHF)            |        |  |  | Dept. Reviewer Name | Tim Davies    |  |  |       |                    |                                                 |
| AADT/Year              | 22,370 / 2010 (A)            |        |  |  | Dept. Review Date   | 12-Jan-2012   |  |  |       |                    |                                                 |
| Road Classification    | RFD-412.4-130                |        |  |  | Follow-Up By        |               |  |  |       |                    |                                                 |
| Detour Length (km)     |                              |        |  |  |                     |               |  |  |       |                    |                                                 |
| 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 Vert. Clearance Posting (m) |      |                                   | UNDER: 5 L1 4.7m, 5 R1 4.9m |     |                  |    |      |    |               |  |                  |    |
| Posted Vertical Clearance (Y/N)      |      |                                   | Yes                         |     |                  |    |      |    |               |  |                  |    |
| Posted:                              | Lane | NB                                | On Bridge (m)               | 4.3 | In Advance (Y/N) | No | Lane | SB | On Bridge (m) |  | In Advance (Y/N) | No |
| Remarks                              |      | SIGNED @ 4.3M @ WB HWY 3 OFF RAMP |                             |     |                  |    |      |    |               |  |                  |    |

|                           |      |              |                   |    |                  |    |                 |    |
|---------------------------|------|--------------|-------------------|----|------------------|----|-----------------|----|
| Required Load Posting (t) |      |              | Single            |    | Semi             |    | Truck Train     |    |
| Posted Loading (t)        |      |              | Single            |    | Semi             |    | Truck Train     |    |
| Posted:                   | Lane | EB           | At Junction (Y/N) | No | In Advance (Y/N) | No | At Bridge (Y/N) | No |
| 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) |  | No                                    |  |  |  |  |  |  |  |  |  |
| Remarks                       |  |                                       |  |  |  |  |  |  |  |  |  |
| Other Sign Types              |  | ROUTE, MERGE, 70KM/HR, 50KM/HR @ RAMP |  |  |  |  |  |  |  |  |  |

| Utilities (Located at) |                                                                                                                 |  |                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------|--|-----------------------|
| Utility Attachments    | GAS UTILITIES-GAS LINE; OTHER UTILITIES-OTHER LINES; TELEPHONE UTILITIES-PHONE LINE; POWER UTILITIES-POWER LINE |  |                       |
| Telephone              | @ N                                                                                                             |  | Gas @ SE              |
| Power                  | 5W 150m N                                                                                                       |  | Municipal Manhole @ E |
| Others                 | Light standards                                                                                                 |  | Problem (Y/N) No      |
| Remarks                |                                                                                                                 |  |                       |

| Approach Road                       |        |          |          |                                                              |
|-------------------------------------|--------|----------|----------|--------------------------------------------------------------|
|                                     |        | Last     | Now      | Explanation of Condition                                     |
| Horizontal Alignment                |        | 6        | 6        | City file 85-000-8 Mayor Magrath                             |
| Vertical Alignment                  |        | 5        | 5        | Curve to E on grade down to W                                |
| Roadway Width (m)                   | 25.000 |          |          | 10m WB & 15m EB                                              |
| Approach Bump                       |        | 6        | 4        | Spalled at West approach slab and pot hole at road.          |
| Guardrail (Y/N)                     | Yes    |          |          | Minor spall at NE and NW exterior. Spall traffic side of NW. |
| Guardrail                           |        | 4        | 3        | Concrete parapets is guardrail                               |
| Length (m)                          | 9.000  |          |          | Parapet 80mm offline @ SE and 140mm @ NE and 50 mm at SW     |
| Current Standard (Y/N)              | Yes    |          |          |                                                              |
| Termination Type                    | sloped |          |          |                                                              |
| Drainage                            |        | 7        | 7        |                                                              |
| <b>Approach Road General Rating</b> |        | <b>5</b> | <b>5</b> |                                                              |

| Superstructure                                                         |           |              |           |                          |                                                                                                                                                                                        |  |  |
|------------------------------------------------------------------------|-----------|--------------|-----------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Bridge Component                                                       |           | Last         | Now       | Explanation of Condition |                                                                                                                                                                                        |  |  |
| (Primary Span : <b>PB, 1 Spans, Lengths(m): 36, 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>                                                            | 0         | 0            | 0         | 0                        |                                                                                                                                                                                        |  |  |
| <b>Now</b>                                                             | 0.0       | 0.0          | 0.0       | 0.0                      |                                                                                                                                                                                        |  |  |
| Wearing Surface                                                        |           |              | 6         | 6                        | Some hairline long crks                                                                                                                                                                |  |  |
| (Material Type : <b>CONCRETE</b> )                                     |           |              |           |                          |                                                                                                                                                                                        |  |  |
| (Thickness(mm) : <b>50</b> )                                           |           |              |           |                          |                                                                                                                                                                                        |  |  |
| Lateral Connection Problem (Y/N)                                       |           | No           |           |                          |                                                                                                                                                                                        |  |  |
| Deck Top                                                               |           |              | N         | N                        |                                                                                                                                                                                        |  |  |
| Deck Rideability                                                       |           |              | 7         | 7                        |                                                                                                                                                                                        |  |  |
| Deck Joints                                                            |           |              | 4         | 4                        | Torn @ W joint @ WBL - Top of seal only                                                                                                                                                |  |  |
| Temperature (deg. C)                                                   |           | -2           |           |                          |                                                                                                                                                                                        |  |  |
| (Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )          |           |              |           |                          |                                                                                                                                                                                        |  |  |
| (Fixed Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )              |           |              |           |                          |                                                                                                                                                                                        |  |  |
| Gap Size (mm)                                                          |           | Gap Location |           |                          |                                                                                                                                                                                        |  |  |
| 85                                                                     |           | E abut       |           |                          |                                                                                                                                                                                        |  |  |
| 55                                                                     |           | W abut       |           |                          |                                                                                                                                                                                        |  |  |
|                                                                        |           |              |           |                          |                                                                                                                                                                                        |  |  |
| Deck Drainage                                                          |           |              | 5         | 5                        | Leakage from W abut @ gland<br>No drains-drains btwn E/WB structures<br>No deterioration yet                                                                                           |  |  |
| Drains Clogged (Y/N)                                                   |           | No           |           |                          |                                                                                                                                                                                        |  |  |
| Curbs/Median                                                           |           |              | 3         | 3                        | Parapet @ Center<br>Spall at NW approach transition                                                                                                                                    |  |  |
| (Curb Type : <b>Standard</b> )                                         |           |              |           |                          |                                                                                                                                                                                        |  |  |
| Scaling (Percent Area)                                                 |           | 1            |           |                          |                                                                                                                                                                                        |  |  |
| Bridge Rail                                                            |           |              | 7         | 7                        | 3 steel round tubes on square steel on HSS posts<br>Concrete median @ Center 25% grout failure @ edges<br>Screening @ exterior bridgerail<br>20% paint failure on galvanizing on steel |  |  |
| (Type : <b>BRIDGE TUBE</b> )                                           |           |              |           |                          |                                                                                                                                                                                        |  |  |
| Bridge Rail Posts                                                      |           |              | 7         | 7                        |                                                                                                                                                                                        |  |  |
| (Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )          |           |              |           |                          |                                                                                                                                                                                        |  |  |
| Bridge Rail/Posts Coating                                              |           |              | 5         | 5                        |                                                                                                                                                                                        |  |  |
| (Type : <b>PAINT</b> )                                                 |           |              |           |                          |                                                                                                                                                                                        |  |  |
| Sidewalk                                                               |           |              | X         | X                        |                                                                                                                                                                                        |  |  |
| Girder Detail Ratings                                                  |           |              |           |                          |                                                                                                                                                                                        |  |  |
|                                                                        | N (count) | 1 (count)    | 2 (count) | 3 (count)                |                                                                                                                                                                                        |  |  |
| <b>Last</b>                                                            | 0         | 0            | 0         | 0                        |                                                                                                                                                                                        |  |  |
| <b>Now</b>                                                             | 0         | 0            | 0         | 0                        |                                                                                                                                                                                        |  |  |
| Girders                                                                |           |              | 6         | 6                        | Hairline @ exteriors - Minor high load scrape and chip at South exterior over SBL                                                                                                      |  |  |
| Cracking (Y/N)                                                         |           | Yes          |           |                          |                                                                                                                                                                                        |  |  |
| Spalling (Percent Area)                                                |           | 0            |           |                          |                                                                                                                                                                                        |  |  |
| (Number Of Girders : <b>7</b> )                                        |           |              |           |                          |                                                                                                                                                                                        |  |  |

| Superstructure                                                         |     |          |          |                                        |
|------------------------------------------------------------------------|-----|----------|----------|----------------------------------------|
| Bridge Component                                                       |     | Last     | Now      | Explanation of Condition               |
| (Primary Span : <b>PB, 1 Spans, Lengths(m): 36, A-Ident Number: </b> ) |     |          |          |                                        |
| Diaphragms/Cross Frame                                                 |     | 8        | 8        |                                        |
| Bearings                                                               |     | 7        | 7        |                                        |
| Temperature (deg. C)                                                   | -2  |          |          |                                        |
| (Expansion Type : <b>POT BEARING</b> )                                 |     |          |          |                                        |
| (Fixed Type : <b>POT BEARING</b> )                                     |     |          |          |                                        |
| Coating Adequate (Y/N)                                                 | Yes |          |          |                                        |
| Functioning (Y/N)                                                      | Yes |          |          |                                        |
| Deck Underside                                                         |     | 7        | 7        | Stains @ 50mm gap btwn E/WB structures |
| Stains (Percent Area)                                                  | 5   |          |          |                                        |
| <b>Span Alignment Problems</b>                                         |     |          |          |                                        |
| Vertical (Y/N)                                                         | No  |          |          |                                        |
| Horizontal (Y/N)                                                       | No  |          |          |                                        |
| <b>Superstructure General Rating</b>                                   |     | <b>6</b> | <b>6</b> |                                        |
| Substructure                                                           |     |          |          |                                        |
| Bridge Component                                                       |     | Last     | Now      | Explanation of Condition               |
| <b>Abutments</b>                                                       |     |          |          |                                        |
| Bearing Seats/Caps                                                     |     | 8        | 8        |                                        |
| (Type : <b>CONCRETE</b> )                                              |     |          |          |                                        |
| Backwalls/Breastwalls                                                  |     | 8        | 8        |                                        |
| Wingwalls                                                              |     | 3        | 3        | Spalled at SW and NE                   |
| Piles                                                                  |     | N        | N        | Buried                                 |
| Paint/Coating                                                          |     | 5        | 5        |                                        |
| Abutment Stability                                                     |     | 8        | 8        |                                        |
| Scour/Erosion                                                          |     | X        | X        |                                        |
| <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>8</b> | <b>8</b> |                                        |

| Structure Usage                        |        |          |          |                                                     |
|----------------------------------------|--------|----------|----------|-----------------------------------------------------|
|                                        |        | Last     | Now      | Explanation of Condition                            |
| <b>Grade Separation</b>                |        |          |          |                                                     |
| Road Alignment                         |        | 6        | 6        | 23m road under bridge<br>Traffic lights @ both ends |
| Traffic Safety Features                |        | 7        | 7        |                                                     |
| Type                                   | MEDIAN |          |          |                                                     |
| Slope Protection                       |        | X        | 7        |                                                     |
| (Type : <b>CONCRETE; CONCRETE</b> )    |        |          |          |                                                     |
| Bank Stability                         |        | X        | 7        |                                                     |
| Drainage                               |        | 7        | 7        |                                                     |
| <b>Grade Separation General Rating</b> |        | <b>6</b> | <b>6</b> |                                                     |

| Maintenance Recommendations                       |                  |                                                                      |                           |               |           |                   |     |
|---------------------------------------------------|------------------|----------------------------------------------------------------------|---------------------------|---------------|-----------|-------------------|-----|
| Inspector Recommendations                         | Year             | Inspector Comments                                                   | Department Comments       | Target Year   | Est. Cost | Cat #             |     |
| REPAIR/REPLACE BRIDGE RAIL                        | 2012             | Repair spall at NW transition 0.6 X 0.5                              |                           |               |           |                   |     |
| GALVANIZE/PAINT BRIDGE RAIL                       |                  |                                                                      |                           |               |           |                   |     |
| SEAL CURBS                                        |                  |                                                                      |                           |               |           |                   |     |
| PATCH DECK                                        |                  |                                                                      |                           |               |           |                   |     |
| SEAL DECK                                         |                  |                                                                      |                           |               |           |                   |     |
| OVERLAY DECK                                      |                  |                                                                      |                           |               |           |                   |     |
| REPAIR/REPLACE DECK JOINTS                        | 2012             | Repair tear in west seal top or replace seal                         |                           |               |           |                   |     |
| RESET/ PAINT BEARINGS                             |                  |                                                                      |                           |               |           |                   |     |
| WASHING                                           |                  |                                                                      |                           |               |           |                   |     |
| SHOTCRETE REPAIRS                                 |                  |                                                                      |                           |               |           |                   |     |
| REPAIR ABUTMENT SCOUR/EROSION                     |                  |                                                                      |                           |               |           |                   |     |
| PLACE ADDITIONAL RIP RAP                          |                  |                                                                      |                           |               |           |                   |     |
| REMOVE DRIFT ACCUMULATION                         |                  |                                                                      |                           |               |           |                   |     |
| OTHER ACTION                                      |                  |                                                                      |                           |               |           |                   |     |
| OTHER ACTION                                      | 2012             | Patch MSE cap and SW wing and NW, NE parapet exteriors, NW interior. |                           |               |           |                   |     |
| OTHER ACTION                                      |                  |                                                                      |                           |               |           |                   |     |
| OTHER ACTION                                      |                  |                                                                      |                           |               |           |                   |     |
| <b>Structural Condition Rating (Last/Now) (%)</b> | <b>77.8/77.8</b> | <b>Sufficiency Rating (Last/Now) (%)</b>                             | <b>57.0/57.0</b>          | Est. Repl. Yr | 2061      | Maint. Req. (Y/N) | Yes |
| Special Comments for Next Inspection              |                  |                                                                      | Department Comments       |               |           |                   |     |
| Maintenance Reviewed By                           |                  |                                                                      | Date                      |               |           | Estimated Total   | 0   |
| Proposed Long-Term Strategy                       |                  |                                                                      |                           |               |           |                   |     |
| On 3-Year Program (Y/N)                           |                  |                                                                      |                           |               |           |                   |     |
| Proposed Action                                   |                  |                                                                      |                           |               |           |                   |     |
| Previous Inspector's Name                         | Garry Roberts    |                                                                      | Previous Assistant's Name |               |           |                   |     |
| Next Inspection Date                              | 01-Sep-2013      |                                                                      | Previous Inspection Date  | 04-Jul-2010   |           |                   |     |
| Inspection Cycle (Default) (months)               | 21               |                                                                      |                           |               |           |                   |     |
| Comment                                           |                  |                                                                      |                           |               |           |                   |     |