

| Bridge Inspection | | | | | | | | | | | | | |
|--------------------------------------|---|--------|-------------------|-------------|------------------|---|------------------|----|---------------|-----------------|------------------|--------------------|---|
| Bridge File Number | 82018 EN1-2 Bridge | | | | | Form Type | CON | | | | | | |
| Year Built/Year Supstr | 2007/2007 | | | | | Lot No. | 2 | | | | | | |
| Bridge or Town Name | CALGARY | | | | | Inspector Name | Garry Roberts | | | | | | |
| Located Over | 201:08 L1 0.573 | | | | | Inspector Class | BR CLS A | | | | | | |
| Located On | 201:08 R1 0.714 | | | | | Assistant Name | | | | | | | |
| Water Body Cl./Year | | | | | | Assistant Class | | | | | | | |
| Navigabil. Cl./Year | | | | | | Inspection Date | 14-Aug-2011 | | | | | | |
| Legal Land Location | SW SEC 33 TWP 24 RGE 2 W5M | | | | | Data Entry By | Alyssa Boynton | | | | | | |
| Longitude, Latitude | -114:13:43, 51:05:11 | | | | | Data Entry Date | 07-Sep-2011 | | | | | | |
| Road Authority | Alberta Transportation (AIT) | | | | | Reviewer Name | Tom Carey | | | | | | |
| Contract Main. Area | DEERFOOT/STONEYP | | | | | Review Date | 24-Aug-2011 | | | | | | |
| Clear Roadway/Skew | 12.4 / 52 deg. (RHF) | | | | | Dept. Reviewer Name | Tim Davies | | | | | | |
| AADT/Year | 35,490 / 2010 (A) | | | | | Dept. Review Date | 08-Sep-2011 | | | | | | |
| Road Classification | | | | | | Follow-Up By | | | | | | | |
| Detour Length (km) | 1 | | | | | | | | | | | | |
| Allowable Load (t): | Single | CS1 28 | | | Semi | CS2 49 | | | Train | CS3 62 | | | ----> On Critical Spans ---->Critical Member |
| Design Loading: | | | | | | | | | | | | ----> Primary Span | |
| Posting Information | | | | | | | | | | | | | |
| Required Vert. Clearance Posting (m) | UNDER: 201 L1 6.5m | | | | | | | | | | | | |
| Posted Vertical Clearance (Y/N) | Yes | | | | | | | | | | | | |
| Posted: | Lane | EB | On Bridge (m) | 5.4 | In Advance (Y/N) | Yes | Lane | WB | On Bridge (m) | | In Advance (Y/N) | | |
| Remarks | Actual = 6.67m @ SW corner | | | | | | | | | | | | |
| Required Load Posting (t) | Single | | | | | | Semi | | | Truck Train | | | |
| Posted Loading (t) | Single | | | | | | Semi | | | Truck Train | | | |
| Posted: | Lane | NB | At Junction (Y/N) | | | | In Advance (Y/N) | | | At Bridge (Y/N) | | | |
| Posted: | Lane | SB | At Junction (Y/N) | | | | In Advance (Y/N) | | | At Bridge (Y/N) | | | |
| Remarks | Not required | | | | | | | | | | | | |
| Hazard Marker At Bridge (Y/N) | No | | | | | | | | | | | | |
| Remarks | Not Required | | | | | | | | | | | | |
| Other Sign Types | 50kmh (ramp speed), info, Chevrons mounted at East barrier. | | | | | | | | | | | | |
| Utilities (Located at) | | | | | | | | | | | | | |
| Utility Attachments | | | | | | | | | | | | | |
| Telephone | | | | | | Gas | | | | | | | |
| Power | East row and barrier. | | | | | Municipal | Street Lighting | | | | | | |
| Others | | | | | | Problem (Y/N) | No | | | | | | |
| Remarks | Power for lighting buried in embankments | | | | | | | | | | | | |
| Approach Road | | | | | | | | | | | | | |
| | | | | Last | Now | Explanation of Condition | | | | | | | |
| Horizontal Alignment | | | | 5 | 5 | In horizontal curve. | | | | | | | |
| Vertical Alignment | | | | 5 | 5 | | | | | | | | |
| Roadway Width (m) | 12.400 | | | | | | | | | | | | |
| Approach Bump | | | | 7 | 7 | | | | | | | | |
| Guardrail (Y/N) | Yes | | | | | Continuous @ NE & NW tie-in to 82018EN2 +99m @ SE, -88.7m @ SW with Thriebeam section | | | | | | | |
| Guardrail | | | | 7 | 7 | | | | | | | | |
| Length (m) | 88.700 | | | | | | | | | | | | |
| Current Standard (Y/N) | Yes | | | | | | | | | | | | |
| Termination Type | Bulb end | | | | | | | | | | | | |
| Drainage | | | | 6 | 5 | Minor slump at NW. | | | | | | | |
| Approach Road General Rating | | | | 5 | 5 | | | | | | | | |

| Superstructure | | | | | |
|---|-------|--------------|-------|--------------------------|---|
| Bridge Component | | Last | Now | Explanation of Condition | |
| (Primary Span : CS, 3 Spans, Lengths(m): 17-24.5-17, A-Ident Number:) | | | | | |
| Special Features | | | | | |
| Special Feature | | | | | |
| (Type :) | | | | | |
| Special Feature | | | X | | |
| (Type :) | | | | | |
| Wearing Surface/Deck Top Detail Ratings | | | | | |
| | N (%) | 1 (%) | 2 (%) | 3 (%) | |
| Last | 0 | 0 | 0 | 0 | |
| Now | 0.0 | 0.0 | 0.0 | 0.0 | |
| Wearing Surface | | | 8 | 8 | Type H2 ACP with waterproofing system. RWIS sensor at LH lane of Sp.2. |
| (Material Type : ACP) | | | | | |
| (Thickness(mm) : 80) | | | | | |
| Deck Top | | | N | N | Paved over. |
| Deck Rideability | | | 8 | 8 | |
| Deck Joints | | | 8 | 4 | Missing two plow deflectors at LH lane of A2 and one at A1. |
| Temperature (deg. C) | | 18 | | | |
| (Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC);FINGER PLATES) | | | | | |
| (Fixed Type :) | | | | | |
| Gap Size (mm) | | Gap Location | | | |
| 85 | A1 | | | | |
| 75 | A2 | | | | |
| Deck Drainage | | | 8 | 7 | One drain @ SW cornder under ACP |
| Drains Clogged (Y/N) | | No | | | |
| Curbs/Median | | | 8 | 8 | Jersey barriers. Parapets. |
| (Curb Type :) | | | | | |
| Scaling (Percent Area) | | 0 | | | |
| Bridge Rail | | | X | X | Pigmented sealer on barriers. |
| (Type :) | | | | | |
| Bridge Rail Posts | | | X | X | |
| (Type :) | | | | | |
| Bridge Rail/Posts Coating | | | 7 | 7 | |
| (Type :) | | | | | |
| Sidewalk | | | X | X | |
| Girders | | | 8 | 8 | Voided slab. |
| Diaphragms/Cross Frame | | | X | X | |
| Bearings | | | 8 | 8 | A1 & A2 Integral at piers. |
| Temperature (deg. C) | | 18 | | | |
| (Expansion Type : POT BEARING) | | | | | |
| (Fixed Type :) | | | | | |
| Coating Adequate (Y/N) | | Yes | | | |
| Functioning (Y/N) | | Yes | | | |
| Deck Underside | | | 8 | 8 | |
| Stains (Percent Area) | | 0 | | | |
| Span Alignment Problems | | | | | |
| Vertical (Y/N) | | No | | | |
| Horizontal (Y/N) | | No | | | |

| Superstructure | | | | |
|--|------------------|----------|----------|--|
| Bridge Component | | Last | Now | Explanation of Condition |
| (Primary Span : CS, 3 Spans, Lengths(m): 17-24.5-17, A-Ident Number:) | | | | |
| Superstructure General Rating | | 8 | 8 | |
| Substructure | | | | |
| Bridge Component | | Last | Now | Explanation of Condition |
| Abutments | | | | |
| Bearing Seats | | 8 | 7 | Isolated rough area at South East. |
| Backwalls/Breastwalls | | 7 | 7 | |
| Wingwalls | | 6 | 6 | Wavy vertical face from poor workmanship and random cracks. Missing bridge placque at NW wing. |
| Piles | | N | N | Buried. |
| Paint/Coating | | 7 | 5 | Isolated peeling at wings. |
| Abutment Stability | | 8 | 8 | |
| Scour/Erosion | | 8 | 8 | |
| Piers/Bents | | | | |
| (Type : PIER-COLUMN) | | | | Integral. |
| Bearing Seats/Caps | | X | X | |
| (Type : CONCRETE) | | | | |
| Pier Shaft/Piles | | 8 | 8 | 4 conc colums / pier. |
| Nose Plate | | X | X | |
| Paint/Coating | | 7 | 7 | Pigmented sealer. |
| (Colour Description :) | | | | |
| (Colour Code :) | | | | |
| Pier Stability | | 8 | 8 | |
| Scour | | X | X | |
| Debris (Y/N) | No | | | |
| Substructure General Rating | | 8 | 7 | |
| Structure Usage | | | | |
| | | Last | Now | Explanation of Condition |
| Grade Separation | | | | |
| Road Alignment | | 6 | 6 | |
| Traffic Safety Features | | 8 | 8 | Thriebeam at North West. |
| Type | Concrete barrier | | | |
| Slope Protection | | 8 | 8 | |
| (Type : CONCRETE; CONCRETE) | | | | |
| Bank Stability | | 8 | 8 | |
| Drainage | | 8 | 8 | |
| Grade Separation General Rating | | 6 | 6 | |

| 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 | | | | | | | |
| SEAL DECK | | | | | | | |
| OVERLAY DECK | | | | | | | |
| REPAIR/REPLACE DECK JOINTS | 2011 | Replace 3 plow deflectors. | | | | | |
| 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 | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 88.9/83.3 | Sufficiency Rating (Last/Now) (%) | 74.0/71.0 | Est. Repl. Yr | 2078 | 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 | 14-May-2013 | | Previous Inspection Date | 18-Nov-2009 | | | |
| Inspection Cycle (Default) (months) | 21 | | | | | | |
| Comment | | | | | | | |