

| Bridge Inspection | | | | | | | | | |
|------------------------|-------------------------------|--|------|--|-------|---------------------|---|--|--|
| Bridge File Number | 82006 -1 Bridge | | | | | Form Type | PSR | | |
| Year Built/Year Supstr | 2005/2005 | | | | | Lot No. | 2 | | |
| Bridge or Town Name | Calgary Douglasdale Blvd | | | | | Inspector Name | Garry Roberts | | |
| Located Over | 2:15 R1 18.825;2:15 L1 18.915 | | | | | Inspector Class | BR CLS A | | |
| Located On | DOUGLASDALE BOULEVARD | | | | | Assistant Name | | | |
| Water Body Cl./Year | | | | | | Assistant Class | | | |
| Navigabil. Cl./Year | | | | | | Inspection Date | 27-Jan-2013 | | |
| Legal Land Location | NE SEC 12 TWP 23 RGE 1 W5M | | | | | Data Entry By | Lauren Korte | | |
| Longitude, Latitude | -114:00:16, 50:56:55 | | | | | Data Entry Date | 17-Feb-2013 | | |
| Road Authority | Alberta Transportation (AIT) | | | | | Reviewer Name | Tom Carey | | |
| Contract Main. Area | DEERFOOT/STONE Y | | | | | Review Date | 30-Jan-2013 | | |
| Clear Roadway/Skew | 22.3 / 0 deg. | | | | | Dept. Reviewer Name | Tim Davies | | |
| AADT/Year | 20,000 / 2005 (E) | | | | | Dept. Review Date | 21-Feb-2013 | | |
| Road Classification | UCU-414.0-070 | | | | | Follow-Up By | | | |
| Detour Length (km) | 2 | | | | | | | | |
| Allowable Load (t): | Single | | Semi | | Train | | ----> On Critical Spans ---->Critical Member | | |
| Design Loading: | | | | | | | ----> Primary Span | | |

| Posting Information | | | | | | | | | | | | |
|--------------------------------------|------|-----------------------------|-------------------|-----|------------------|--|------|-----------------|---------------|-----|------------------|----|
| Required Vert. Clearance Posting (m) | | UNDER: 2 L1 5.4m, 2 R1 5.6m | | | | | | | | | | |
| Posted Vertical Clearance (Y/N) | | Yes | | | | | | | | | | |
| Posted: | Lane | NB | On Bridge (m) | 5.4 | In Advance (Y/N) | | Lane | SB | On Bridge (m) | 5.4 | In Advance (Y/N) | No |
| Remarks | | | | | | | | | | | | |
| 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) | | In Advance (Y/N) | | | At Bridge (Y/N) | | | | |
| Remarks | | Not required. | | | | | | | | | | |
| Hazard Marker At Bridge (Y/N) | | No | | | | | | | | | | |
| Remarks | | Not required. | | | | | | | | | | |
| Other Sign Types | | | | | | | | | | | | |

| Utilities (Located at) | | | | | | | | | | | | |
|------------------------|--------------------------|--|--|--|--|---------------|----|--|--|--|--|--|
| Utility Attachments | | | | | | | | | | | | |
| Telephone | In area. | | | | | Gas | | | | | | |
| Power | Crosses over both abuts. | | | | | Municipal | | | | | | |
| Others | Light standards. | | | | | Problem (Y/N) | No | | | | | |
| Remarks | | | | | | | | | | | | |

| Approach Road | | | | |
|-------------------------------------|-----------|----------|----------|--|
| | | Last | Now | Explanation of Condition |
| Horizontal Alignment | | 6 | 6 | Curves both ends. |
| Vertical Alignment | | 6 | 6 | Grade up to bridge. |
| Roadway Width (m) | 16.000 | | | Both approach slabs settled approx 100mm. ACP 50mm low at both ends. Recent patches are breaking up. |
| Approach Bump | | 4 | 4 | |
| Guardrail (Y/N) | Yes | | | Parapets. |
| Guardrail | | 8 | 8 | |
| Length (m) | 40.000 | | | |
| Current Standard (Y/N) | Yes | | | |
| Termination Type | Turn Down | | | |
| Drainage | | 6 | 3 | 800mm deep erosion at SE extends under approach slab under drain. |
| Approach Road General Rating | | 6 | 6 | |

| Superstructure | | | | | | |
|--|-----------|--------------|-----------|--------------------------|--|--|
| Bridge Component | | Last | Now | Explanation of Condition | | |
| (Primary Span : NU, 2 Spans, Lengths(m): 37-37, A-Ident Number:) | | | | | | |
| Special Features | | | | | | |
| Special Feature | | | X | | | |
| (Type :) | | | | | | |
| Special Feature | | | X | | | |
| (Type :) | | | | | | |
| Wearing Surface/Deck Top Detail Ratings | | | | | | |
| | N (%) | 1 (%) | 2 (%) | 3 (%) | | |
| Last | 0 | 0 | 0 | 0 | | |
| Now | 20.0 | 0.0 | 0.0 | 0.0 | | |
| Wearing Surface | | | 7 | 7 | Deck top is wearing surface. Narrow to medium longitudinal cracks-some have been epoxy sealed. | |
| (Material Type : CONCRETE) | | | | | | |
| (Thickness(mm) : 70) | | | | | | |
| Lateral Connection Problem (Y/N) | | No | | | | |
| Deck Top | | | N | N | | |
| Deck Rideability | | | 7 | 7 | | |
| Deck Joints | | | 8 | 8 | Steel angle. | |
| Temperature (deg. C) | | -5 | | | | |
| (Expansion Type :) | | | | | | |
| (Fixed Type : BUFFER ANGLES) | | | | | | |
| Gap Size (mm) | | Gap Location | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Deck Drainage | | | 7 | 7 | | |
| Drains Clogged (Y/N) | | No | | | | |
| Curbs/Median | | | 6 | 3 | 1.9m wide center median. Isolated medium width cracks @ North & South parapets. Isolated spalling at median off bridge West end. | |
| (Curb Type : JERSEY/F SHAPE;F SHAPE) | | | | | | |
| Scaling (Percent Area) | | 0 | | | | |
| Bridge Rail | | | 8 | 8 | Pedestrian rail @ North. Parapets @ roadway North & South. South has pipe bridgrail on top. Missing washers @ South. | |
| (Type : GALVANIZED STEEL TUBE BEAM TYPE 1) | | | | | | |
| Bridge Rail Posts | | | 7 | 7 | | |
| (Type : GALVANIZED POST STEEL) | | | | | | |
| Bridge Rail/Posts Coating | | | 7 | 7 | | |
| (Type : GALVANIZED) | | | | | | |
| Sidewalk | | | 6 | 6 | 2.5m wide sidewalk @ North. | |
| Girder Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | 0 | 0 | 0 | 0 | | |
| Now | 0 | 0 | 0 | 0 | | |
| Girders | | | 7 | 4 | H/L cracks at top of webs. 300 X 300 high load damage with visible rebar Sp.1-G8 under V.C sign. | |
| Cracking (Y/N) | | Yes | | | | |
| Spalling (Percent Area) | | 0 | | | | |
| (Number Of Girders : 16) | | | | | | |
| Diaphragms/Cross Frame | | | 8 | 8 | | |

| Superstructure | | | | |
|--|-----|----------|----------|---|
| Bridge Component | | Last | Now | Explanation of Condition |
| (Primary Span : NU, 2 Spans, Lengths(m): 37-37, A-Ident Number:) | | | | |
| Bearings | | N | N | Abutments & pier are integral. |
| Temperature (deg. C) | | | | |
| (Expansion Type :) | | | | |
| (Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL) | | | | |
| Coating Adequate (Y/N) | Yes | | | |
| Functioning (Y/N) | Yes | | | |
| Deck Underside | | 7 | 6 | Efflorescence @ isolated areas @ deck underside. Mostly under median |
| Stains (Percent Area) | 2 | | | |
| Span Alignment Problems | | | | |
| Vertical (Y/N) | No | | | |
| Horizontal (Y/N) | No | | | |
| Superstructure General Rating | | 7 | 4 | |
| Substructure | | | | |
| Bridge Component | | Last | Now | Explanation of Condition |
| Abutments | | | | |
| Bearing Seats/Caps | | N | N | Integral. |
| (Type : CONCRETE) | | | | |
| Backwalls/Breastwalls | | 8 | 8 | |
| Wingwalls | | 8 | 8 | Architectural design mounted at SE and NW. |
| Piles | | N | N | Buried. |
| Paint/Coating | | 6 | 5 | Isolated peeling and staining at breastwalls. |
| Abutment Stability | | 8 | 8 | |
| Scour/Erosion | | 8 | X | |
| Piers/Bents | | | | |
| (Type : PIER-SOLID) | | | | Integral. |
| Bearing Seats/Caps | | N | N | |
| (Type : CONCRETE) | | | | |
| (Total Number of Bearing Piles : 0) | | | | |
| Pier Shaft/Piles | | 8 | 8 | |
| Bracing/Struts/Sheathing | | X | X | |
| 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 | 8 | |

| Structure Usage | | | | |
|--|---------|----------|----------|--|
| | | Last | Now | Explanation of Condition |
| Grade Separation | | | | |
| Road Alignment | | 7 | 7 | |
| Traffic Safety Features | | 8 | 8 | Concrete parapet & steel HSS rail @ East. Box beam under Sp.2 damaged but repairs appear underway. |
| Type | Parapet | | | |
| Slope Protection | | 8 | 7 | Stamped concrete- very slippery. |
| (Type : CONCRETE; CONCRETE) | | | | |
| Bank Stability | | 8 | 8 | |
| Drainage | | 8 | 8 | |
| Grade Separation General Rating | | 7 | 7 | |

| Maintenance Recommendations | | | | | | | |
|---|------------------|---|---------------------------|---------------|-----------|-------------------|-----|
| Inspector Recommendations | Year | Inspector Comments | Department Comments | Target Year | Est. Cost | Cat # | |
| REPAIR/REPLACE BRIDGE RAIL | | | | | | | |
| GALVANIZE/PAINT BRIDGE RAIL | | | | | | | |
| SEAL CURBS | 2013 | Repair West median spalls 2m2. | | | | | |
| PATCH DECK | 2013 | Patch both approaches approx 5m3 ACP. | | | | | |
| SEAL DECK | | | | | | | |
| OVERLAY DECK | | | | | | | |
| REPAIR/REPLACE DECK JOINTS | | | | | | | |
| RESET/ PAINT BEARINGS | | | | | | | |
| WASHING | | | | | | | |
| SHOTCRETE REPAIRS | | | | | | | |
| REPAIR ABUTMENT SCOUR/EROSION | 2013 | Grout void at SE approx 3m3. | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | |
| OTHER ACTION | 2013 | Repair high load damage 0.5m2. | | | | | |
| OTHER ACTION | 2013 | Repair box beam rail at SE (repairs appear underway). | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 83.3/66.7 | Sufficiency Rating (Last/Now) (%) | 65.5/55.9 | Est. Repl. Yr | 2076 | 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 | 27-Oct-2014 | | Previous Inspection Date | 09-May-2011 | | | |
| Inspection Cycle (Default) (months) | 21 | | | | | | |
| Comment | | | | | | | |