

| Bridge Inspection | | | | | | | | | | | |
|------------------------|--|--------|--|--|---------------------|--------------------|--|--|-------|--------------------|---|
| Bridge File Number | 74357 -1 Bridge | | | | Form Type | PCS | | | | | |
| Year Built/Year Supstr | 1988/1988 | | | | Lot No. | 4 | | | | | |
| Bridge or Town Name | CHIP LAKE | | | | Inspector Name | Wade Nanninga | | | | | |
| Located Over | BIGORAY RIVER, 8.11.84.57, WATERCRS-ST | | | | Inspector Class | BR CLS B | | | | | |
| Located On | 753:04 C1 23.742 | | | | Assistant Name | | | | | | |
| Water Body Cl./Year | | | | | Assistant Class | | | | | | |
| Navigabil. Cl./Year | | | | | Inspection Date | 24-Jan-2011 | | | | | |
| Legal Land Location | NW SEC 16 TWP 52 RGE 10 W5M | | | | Data Entry By | Theresa Lacusta | | | | | |
| Longitude, Latitude | -115:25:35, 53:29:29 | | | | Data Entry Date | 28-Feb-2011 | | | | | |
| Road Authority | Alberta Transportation (AIT) | | | | Reviewer Name | Arnold Assenheimer | | | | | |
| Contract Main. Area | CMA12 | | | | Review Date | 14-Feb-2011 | | | | | |
| Clear Roadway/Skew | 10 / 15 deg. (RHF) | | | | Dept. Reviewer Name | Brent Herrick | | | | | |
| AADT/Year | 620 / 2009 (A) | | | | Dept. Review Date | 02-Mar-2011 | | | | | |
| Road Classification | RCU-209-110 | | | | Follow-Up By | | | | | | |
| Detour Length (km) | 60 | | | | | | | | | | |
| Allowable Load (t): | Single | CS1 28 | | | Semi | CS2 49 | | | Train | CS3 62 | ----> On Critical Spans ---->Critical Member |
| Design Loading: | MS225 | | | | | | | | | ----> Primary Span | |

| Posting Information | | | | | | | | | |
|-------------------------------|---|----|-------------------|----|------------------|----|-----------------|----|--|
| Required Load Posting (t) | | | Single | | Semi | | Truck Train | | |
| Posted Loading (t) | | | Single | | Semi | | Truck Train | | |
| Posted: | Lane | NB | At Junction (Y/N) | No | In Advance (Y/N) | No | At Bridge (Y/N) | No | |
| Posted: | Lane | SB | 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 | NE /SE hazard marker not at correct location. | | | | | | | | |
| Other Sign Types | | | | | | | | | |

| Utilities (Located at) | | | | | | | | | | |
|------------------------|--|--|--|--|---------------|----|--|--|--|--|
| Utility Attachments | | | | | | | | | | |
| Telephone | | | | | Gas | | | | | |
| Power | | | | | Municipal | | | | | |
| Others | | | | | Problem (Y/N) | No | | | | |
| Remarks | | | | | | | | | | |

| Approach Road | | | | | | | | | |
|-------------------------------------|-------------|--|----------|----------|---|--|--|--|--|
| | | | Last | Now | Explanation of Condition | | | | |
| Horizontal Alignment | | | 7 | 7 | Access road to SE. Crest curve to South. | | | | |
| Vertical Alignment | | | 7 | 7 | | | | | |
| Roadway Width (m) | 9.600 | | | | | | | | |
| Approach Bump | | | 7 | 7 | Insufficient posts, not thrie beam type. | | | | |
| Guardrail (Y/N) | Yes | | | | | | | | |
| Guardrail | | | 7 | 7 | | | | | |
| Length (m) | 60.000 | | | | | | | | |
| Current Standard (Y/N) | No | | | | | | | | |
| Termination Type | Turned Down | | | | | | | | |
| Drainage | | | N | N | Snow covered. No sign of problem. | | | | |
| Approach Road General Rating | | | 7 | 7 | | | | | |

| Superstructure | | | | | | |
|---|-----------|-------------|-----------|--------------------------|-----------------------|--|
| Bridge Component | | Last | Now | Explanation of Condition | | |
| (Primary Span : SM, 3 Spans, Lengths(m): 8-10-8, A-Ident Number:) | | | | | | |
| Special Features | | | | | | |
| Special Feature | | | X | | | |
| (Type :) | | | | | | |
| Special Feature | | | X | | | |
| (Type :) | | | | | | |
| Wearing Surface/Deck Top Detail Ratings | | | | | | |
| | N (%) | 1 (%) | 2 (%) | 3 (%) | Snow covered gutters. | |
| Last | 10 | | | | | |
| Now | 10.0 | 0.0 | 0.0 | 0.0 | | |
| Wearing Surface | | | | 7 | 7 | ACP on waterproofing membrane. |
| (Material Type : ACP) | | | | | | |
| (Thickness(mm) : 80) | | | | | | |
| Lateral Connection Problem (Y/N) | | No | | | | |
| Deck Top | | | | N | N | |
| Deck Rideability | | | | 7 | 7 | |
| Deck Joints | | | | 6 | 6 | Beram/asphalt compound caulking show cracking from weather exposure. |
| Bump (Y/N) | | No | | | | |
| Deck Drainage | | | | 4 | N | Gully on South headslope - photo. (14/July/2006) Snow covered. |
| Drains Clogged (Y/N) | | No | | | | |
| Curbs/Median | | | | N | N | Snow covered. |
| (Curb Type : Standard) | | | | | | |
| Scaling (Percent Area) | | 1 | | | | |
| Bridge Rail | | | | 7 | 7 | Snow covered. Dirty. |
| (Type : GALVANIZED STEEL BRIDGE TUBE) | | | | | | |
| Bridge Rail Posts | | N | | N | | |
| (Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL) | | | | | | |
| Bridge Rail/Posts Coating | | 7 | | 7 | | |
| (Type : GALVANIZED) | | | | | | |
| Sidewalk | | | | X | X | |
| Girder Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | | | | | | |
| Now | | | | | | |
| Girders | | | | 5 | 5 | Several diagonal cracks on underside of curb girders, less than 0.5m, typical. (14/July/2006) Paved over. |
| Last Complete Inspection Date | | 24-Jan-2011 | | | | |
| Cracking (Y/N) | | Yes | | | | |
| Spalling (Percent Area) | | 0 | | | | |
| Lift or Connector Pocket Grouted (Y/N) | | Yes | | | | |
| (Number Of Girders : 27) | | | | | | |
| Span Alignment Problems | | | | | | |
| Vertical (Y/N) | | No | | | | |
| Horizontal (Y/N) | | No | | | | |
| Superstructure General Rating | | | | 5 | 5 | |

| Substructure | | | | | | |
|---|-----------|-----------|-----------|-----------|----------|---|
| Bridge Component | | | | Last | Now | Explanation of Condition |
| (Total Number of Bearing Piles : 6:6) | | | | | | |
| Piles Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | | | | | | |
| Now | | | | | | |
| Pier Shaft/Piles | | | | 7 | 7 | |
| Greatest Height (m) | | 3.00 | | | | |
| Bracing/Struts/Sheathing | | | | X | X | |
| Nose Plate | | | | X | X | |
| Paint/Coating | | | | 4 | 4 | Superficial rust at ice line. |
| (Colour Description : GREEN) | | | | | | |
| (Colour Code : 14090) | | | | | | |
| Pier Stability | | | | 5 | 6 | |
| Scour | | | | 4 | N | Scour to 1m behind South & North piers - photo.-16-Dec-2007 |
| Debris (Y/N) | | No | | | | |
| Substructure General Rating | | | | 7 | 6 | |
| Structure Usage | | | | | | |
| | | | | Last | Now | Explanation of Condition |
| Channel | | | | | | |
| (U/S Direction : W) | | | | | | |
| (D/S Direction : E) | | | | | | |
| Alignment | | | | 7 | 7 | Scour on North & South headslopes. |
| Bank Stability | | | | 8 | 8 | |
| HWM (m below Top of Curb) | | | | | | HWM not visible. |
| Drift (Y/N) | | Yes | | | | Beaver dam across channel 100m West. |
| Slope Protection | | | | 4 | 4 | Headslope settled. |
| (Type : NONE; NONE) | | | | | | |
| Guidebank/Spurs | | | | X | X | |
| Adequacy of Opening | | | | 7 | 7 | |
| (Fish Compensation Measure 1 : NONE) | | | | | | |
| (Fish Compensation Measure 2 : NONE) | | | | | | |
| Channel General Rating | | | | 4 | 4 | |

| Maintenance Recommendations | | | | | | | |
|---|---|--|---------------------------|---------------|-----------|-------------------|----|
| Inspector Recommendations | Year | Inspector Comments | Department Comments | Target Year | Est. Cost | Cat # | |
| REPAIR/REPLACE BRIDGE RAIL | | | | | | | |
| SEAL CURBS | | | | | | | |
| PATCH DECK | | | | | | | |
| OVERLAY DECK | | | | | | | |
| STRAIGHTEN/REPLACE MEMBERS | | | | | | | |
| WASHING | | | | | | | |
| SHOTCRETE REPAIRS | | | | | | | |
| CORE TIMBER CAPS/CORBELS | | | | | | | |
| REPAIR/REPLACE TIMBER CAPS | | | | | | | |
| REPAIR ABUTMENT SCOUR/EROSION | | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | |
| INSTALL STRUTS | | | | | | | |
| OTHER ACTION | 2011 | Move NE/SE hazard marker. | | | | | |
| OTHER ACTION | 2011 | Replace NE hazard marker. | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 66.7/61.1 | Sufficiency Rating (Last/Now) (%) | 59.7/57.2 | Est. Repl. Yr | 2041 | Maint. Req. (Y/N) | No |
| Special Comments for Next Inspection | Monitor erosion under SW wingwall and svour on headslope. | | 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 | Dave Lam | | Previous Assistant's Name | | | | |
| Next Inspection Date | 24-Apr-2014 | | Previous Inspection Date | 16-Dec-2007 | | | |
| Inspection Cycle (Default) (months) | 39 | | | | | | |
| Comment | | | | | | | |