

| Bridge Inspection | | | | | | | | | |
|-------------------------------------|----------------------------------------------|--------|-------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------|----|--|
| Bridge File Number | 75050 -1 Bridge | | | | Form Type | PCS | | | |
| Year Built/Year Supstr | 1994/1994 | | | | Lot No. | 2 | | | |
| Bridge or Town Name | ENTRANCE | | | | Inspector Name | Shane Hall | | | |
| Located Over | CABIN CREEK, 8.11.118.13.2, WATERCRS-ST | | | | Inspector Class | BR CLS A | | | |
| Located On | 40:32 C1 20.098 | | | | Assistant Name | | | | |
| Water Body Cl./Year | | | | | Assistant Class | | | | |
| Navigabil. Cl./Year | | | | | Inspection Date | 17-Oct-2012 | | | |
| Legal Land Location | NW SEC 21 TWP 55 RGE 3 W6M | | | | Data Entry By | Theresa Lacusta | | | |
| Longitude, Latitude | -118:23:05, 53:46:09 | | | | Data Entry Date | 26-Nov-2012 | | | |
| Road Authority | Alberta Transportation (AIT) | | | | Reviewer Name | Eric Carcoux | | | |
| Contract Main. Area | CMA05 | | | | Review Date | 19-Nov-2012 | | | |
| Clear Roadway/Skew | 10.1 / | | | | Dept. Reviewer Name | Brent Herrick | | | |
| AADT/Year | 1,090 / 2011 (A) | | | | Dept. Review Date | 06-Dec-2012 | | | |
| Road Classification | RAU-209-110 | | | | Follow-Up By | | | | |
| Detour Length (km) | 420 | | | | | | | | |
| Allowable Load (t): | Single | CS1 28 | Semi | CS2 49 | Train | CS3 62 | ----> On Critical Spans ---->Critical Member | | |
| Design Loading: | CS750 | | | | | | ----> 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 | CS3 allowable load is below legal limit. | | | | | | | | |
| Hazard Marker At Bridge (Y/N) | Yes | | | | | | | | |
| Remarks | | | | | | | | | |
| Other Sign Types | "Cabin Creek", 100 kph, Bump sign @ NW & SE. | | | | | | | | |
| Utilities (Located at) | | | | | | | | | |
| Utility Attachments | | | | | | | | | |
| Telephone | West r/w. | | | | Gas | | | | |
| Power | | | | | Municipal | | | | |
| Others | | | | | Problem (Y/N) | No | | | |
| Remarks | | | | | | | | | |
| Approach Road | | | | | | | | | |
| | | | Last | Now | Explanation of Condition | | | | |
| Horizontal Alignment | | | 8 | 8 | | | | | |
| Vertical Alignment | | | 7 | 7 | | | | | |
| Roadway Width (m) | 9.300 | | | | Approach has settled at both ends. Bump sign installed @ NW & SE embankment. | | | | |
| Approach Bump | | | 4 | 4 | | | | | |
| Guardrail (Y/N) | Yes | | | | 24 connection bolts missing at first joints nearest bridge. Insufficient posts & length. No thrie beam. SE & NW - 37.8m; SW & NE - 30.2m. SW & NE improper splice lap - photo. Snow covered. | | | | |
| Guardrail | | | N | 4 | | | | | |
| Length (m) | 30.200 | | | | | | | | |
| Current Standard (Y/N) | No | | | | | | | | |
| Termination Type | Turned Down | | | | | | | | |
| Drainage | | | N | 5 | | | | | |
| Approach Road General Rating | | | 7 | 7 | | | | | |

| Superstructure | | | | | |
|--------------------------------------------------------------------------------|-----------|-------------|-----------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bridge Component | | Last | Now | Explanation of Condition | |
| (Primary Span : SC, 3 Spans, Lengths(m): 6.1-8.5-6.1, A-Ident Number:) | | | | | |
| Special Features | | | | | |
| Special Feature | | | X | | |
| (Type :) | | | | | |
| Special Feature | | | X | | |
| (Type :) | | | | | |
| Wearing Surface/Deck Top Detail Ratings | | | | | |
| | N (%) | 1 (%) | 2 (%) | 3 (%) | |
| Last | | | | | |
| Now | | | | | |
| Wearing Surface | | | X | X | Grout in connector pockets @ S1G3 all cracked.-photo 80% of connector pockets cracked on other girders. |
| (Material Type :) | | | | | |
| (Thickness(mm) :) | | | | | |
| Lateral Connection Problem (Y/N) | | Yes | | | |
| Deck Top | | | 4 | 4 | Diagonal crack in S1G8 near P1. S1G8 top delam spalled - photo.-Several other spalled areas. 400x400 spall in top of S3G5.-photo |
| Deck Rideability | | | 5 | 5 | |
| Deck Joints | | | 3 | 3 | Buffer angles. Minor plow damage at north end. Took off G5 buffer angle - photo. |
| Bump (Y/N) | | Yes | | | |
| Deck Drainage | | | 4 | 4 | Drains between girders, no deck drains. |
| Drains Clogged (Y/N) | | | | | |
| Curbs/Median | | | N | 4 | (Several spalls throughout curbs. |
| (Curb Type : Standard) | | | | | |
| Scaling (Percent Area) | | 20 | | | |
| Bridge Rail | | | 7 | 7 | Slight rusting. Dirty. |
| (Type : GALVANIZED STEEL BRIDGE TUBE) | | | | | |
| Bridge Rail Posts | | | 6 | 6 | |
| (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL) | | | | | |
| Bridge Rail/Posts Coating | | | 5 | 5 | |
| (Type : GALVANIZED) | | | | | |
| Sidewalk | | | X | X | |
| Girder Detail Ratings | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | |
| Last | 0 | 0 | 0 | 1 | |
| Now | | | | 1 | |
| Girders | | | 3 | 3 | S1G3 appears to have been replaced but is 110mm shorter @ South abutment - photo. Transverse cracking at deck top of Sp1-G8, G9, Sp2-G8 and Sp3-G4, G8. Narrow longitudinal cracking at deck top of Sp1-G8, G9, and Sp2-G3, G8. Lift/connection grout has failed in some locations. Hairline long. cracks on underside of 7 girders. Medium long. crack underside S1G3 with rust stain extends from P1.-photo |
| Last Complete Inspection Date | | 08-Feb-2009 | | | |
| Cracking (Y/N) | | Yes | | | |
| Spalling (Percent Area) | | 0 | | | |
| Lift or Connector Pocket Grouted (Y/N) | | Yes | | | |
| (Number Of Girders : 30) | | | | | |
| Span Alignment Problems | | | | | |
| Vertical (Y/N) | | No | | Span 1 bearing on pier only 110mm. | |
| Horizontal (Y/N) | | Yes | | | |
| Superstructure General Rating | | | 3 | 3 | |

| Substructure | | | | | | |
|--------------------------------------------------------------------|-----------|-----------|-----------|--------------------------|---|--|
| Bridge Component | | Last | Now | Explanation of Condition | | |
| Abutments | | | | | | |
| (Extended Backwall Piles (Y/N) : Y) | | | | | | |
| (Extended Backwall Piles Spacing(mm) : 1600) | | | | | | |
| (Total Number of Caps/Corbels : 4:4) | | | | | | |
| Bearing Seats/Caps/Corbels Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | | | | | | |
| Now | | | | | | |
| Bearing Seats/Caps/Corbels | | | | 5 | 5 | |
| (Type : STEEL) | | | | | | |
| (Depth(mm) : 610) | | | | | | |
| (Width(mm) : 305) | | | | | | |
| Backwalls/Breastwalls | | | 4 | 5 | | |
| Greatest Height (m) | | 1.70 | | | | |
| Wingwalls | | | 5 | 5 | | |
| (Total Number of Bearing Piles : 7:7) | | | | | | |
| Piles Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | 9 | 0 | 0 | 0 | | |
| Now | 9 | | | | | |
| Piles | | | | 4 | 4 | |
| Paint/Coating | | | | 3 | 3 | |
| Heavy rusting and scaling on caps. Approx 5% section loss. | | | | | | |
| Abutment Stability | | | | 5 | 5 | |
| Scour/Erosion | | | | 6 | 6 | |
| Piers/Bents | | | | | | |
| (Type : PIER-COLUMN) | | | | | | |
| Double 355 x 355 mm (stacked). | | | | | | |
| (Total Number of Caps/Corbels : 4:4) | | | | | | |
| Bearing Seats/Caps/Corbels Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | | | | | | |
| Now | | | | | | |
| Bearing Seats/Caps/Corbels | | | | 5 | 5 | |
| (Type : STEEL) | | | | | | |
| (Depth(mm) : 708) | | | | | | |
| (Width(mm) : 376) | | | | | | |
| (Total Number of Bearing Piles : 10:10) | | | | | | |
| Piles Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | 0 | 0 | 1 | 1 | | |
| Now | | | | | | |
| Pier Shaft/Piles | | | | 2 | 4 | |
| Greatest Height (m) | | 2.20 | | | | |
| Bracing/Struts/Sheathing | | | | 5 | 5 | |
| Nose Plate | | | | X | X | |
| Paint/Coating | | | | 3 | 3 | |
| Heavy rusting and scaling on caps - photo. Approx 5% section loss. | | | | | | |
| (Colour Description :) | | | | | | |
| (Colour Code :) | | | | | | |

| Substructure | | | | |
|----------------------------------------------|-----|----------|----------|----------------------------------------------------------------|
| Bridge Component | | Last | Now | Explanation of Condition |
| Pier Stability | | 5 | 5 | |
| Scour | | N | 5 | |
| Debris (Y/N) | Yes | | | |
| Substructure General Rating | | 2 | 4 | |
| Structure Usage | | | | |
| | | Last | Now | Explanation of Condition |
| Channel | | | | |
| (U/S Direction : W) | | | | Sharp bend U/S & meandering D/S. |
| (D/S Direction : E) | | | | |
| Alignment | | 4 | 4 | |
| Bank Stability | | N | 5 | |
| HWM (m below Top of Curb) | | | | HWM not visible. |
| Drift (Y/N) | Yes | | | Debris on top of pier cap. Small amount @ P1 & P2.-08-Feb-2009 |
| Slope Protection | | 6 | 6 | Class III North side only. |
| (Type : NATURAL; RIP RAP) | | | | |
| Guidebank/Spurs | | X | X | |
| Adequacy of Opening | | 4 | 4 | Based on drift @ pier cap.-08-Feb-2009 |
| (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 | 2013 | Patch/seal curbs, if not done. | | | | | |
| PATCH DECK | 2013 | Patch approach slab settlement. | | | | | |
| 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 | 2013 | Assess if CS3 allowable load can be increased to legal limit or post as required. | | | | | |
| OTHER ACTION | 2013 | Replace missing splice bolts in guardrail. | | | | | |
| OTHER ACTION | 2013 | Repair lap in SW guardrail. | | | | | |
| OTHER ACTION | 2013 | Replace connector pocket hardware and re-grout. | | | | | |
| OTHER ACTION | 2013 | Patch deck spalls. | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 27.8/38.9 | Sufficiency Rating (Last/Now) (%) | 42.0/46.4 | Est. Repl. Yr | 2015 | Maint. Req. (Y/N) | Yes |
| Special Comments for Next Inspection | Pier piles cored in 2007 and Assessment completed. Assessment recommended to repave in 2 years. Repairs subsequently completed. Monitor pile and girder cracking. If bridge is programmed for replacement in next 2 years then hold off on repairs. | | 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 | Shane Hall | | Previous Assistant's Name | | | | |
| Next Inspection Date | 17-Jul-2014 | | Previous Inspection Date | 23-Nov-2010 | | | |
| Inspection Cycle (Default) (months) | 21 | | | | | | |

| | |
|---------|--|
| Comment | |
|---------|--|