

| Bridge Inspection | | | | | | | | | | | |
|------------------------|------------------------------|--|------|--|---------------------|---------------|--|--|--|-------------------------------------------------|--------------------|
| Bridge File Number | 76886 -1 Bridge | | | | Form Type | PSR | | | | | |
| Year Built/Year Supstr | 1970/1970 | | | | Lot No. | 1 | | | | | |
| Bridge or Town Name | MEETING CK | | | | Inspector Name | Jason Saly | | | | | |
| Located Over | CNR | | | | Inspector Class | BR CLS A | | | | | |
| Located On | 56:16 C1 11.550 | | | | Assistant Name | | | | | | |
| Water Body Cl./Year | | | | | Assistant Class | | | | | | |
| Navigabil. Cl./Year | | | | | Inspection Date | 13-Feb-2013 | | | | | |
| Legal Land Location | NE SEC 5 TWP 43 RGE 19 W4M | | | | Data Entry By | Marcia Chavez | | | | | |
| Longitude, Latitude | -112:42:57, 52:40:38 | | | | Data Entry Date | 18-Mar-2013 | | | | | |
| Road Authority | Alberta Transportation (AIT) | | | | Reviewer Name | John O'Brien | | | | | |
| Contract Main. Area | CMA20 | | | | Review Date | 26-Feb-2013 | | | | | |
| Clear Roadway/Skew | 11 / -24 deg. (LHF) | | | | Dept. Reviewer Name | Chris Black | | | | | |
| AADT/Year | 1,150 / 2011 (A) | | | | Dept. Review Date | 28-Mar-2013 | | | | | |
| Road Classification | RAU-211.8-110 | | | | Follow-Up By | | | | | | |
| Detour Length (km) | 3 | | | | | | | | | | |
| Allowable Load (t): | Single | | Semi | | Train | | | | | ----> On Critical Spans ---->Critical Member | |
| Design Loading: | HS20 | | | | | | | | | | ----> Primary Span |

| Posting Information | | | | | | | | | | |
|--------------------------------------|---------------|---------------------------------|-------------------|----|------------------|----|-----------------|-------------|---------------|------------------|
| Required Vert. Clearance Posting (m) | | | | | | | | | | |
| Posted Vertical Clearance (Y/N) | | No | | | | | | | | |
| Posted: | Lane | NB | On Bridge (m) | | In Advance (Y/N) | | Lane | SB | On Bridge (m) | In Advance (Y/N) |
| Remarks | Not required. | | | | | | | | | |
| 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 | | Not at correct height/location. | | | | | | | | |
| Other Sign Types | | | | | | | | | | |

| 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 | | | 7 | 7 | Farm entrances to North crest curve to South, no passing SBL due to grade with limited sight distance. | | | | | |
| Vertical Alignment | | | 6 | 6 | | | | | | |
| Roadway Width (m) | | 11.500 | | | Approaches patched. Slight bump at both approaches caused by settlement. | | | | | |
| Approach Bump | | | 5 | 5 | | | | | | |
| Guardrail (Y/N) | | Yes | | | | | | | | |
| Guardrail | | | 4 | 4 | | | | | | |
| Length (m) | | 53.000 | | | | | | | | |
| Current Standard (Y/N) | | No | | | (Too low at bridge, not strong post at bridge. 09May2011) - Mostly snow covered. Insufficient posts. | | | | | |
| Termination Type | | Turn Down | | | | | | | | |
| Drainage | | | 5 | N | Snow covered. | | | | | |
| Approach Road General Rating | | | 6 | 6 | | | | | | |

| Superstructure | | | | | |
|----------------------------------------------------------------------------|-----------|--------------|-----------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bridge Component | | Last | Now | Explanation of Condition | |
| (Primary Span : PM, 3 Spans, Lengths(m): 10.7-16.8-15.2, 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 | 0 | 0 | 0 | 0 | |
| Now | 5.0 | 0.0 | 0.0 | 0.0 | |
| Wearing Surface | | | 6 | 5 | Random cracks; varies to 200 at ends of bridge. Cracked at piers and abuts. (Delaminated with potholes along West curb. 09May2011) - chipseal. |
| (Material Type : ACP - CONVENTIONAL CHIP SEAL COAT) | | | | | |
| (Thickness(mm) : 50) | | | | | |
| Lateral Connection Problem (Y/N) | Yes | | | | |
| Deck Top | | | N | N | |
| Deck Rideability | | | 7 | 7 | |
| Deck Joints | | | N | N | Paved over; ACP delam @ piers causing leaking at pier caps. ACP recently patched at pier locations. |
| Temperature (deg. C) | | -5 | | | |
| (Expansion Type :) | | | | | |
| (Fixed Type :) | | | | | |
| Gap Size (mm) | | Gap Location | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Deck Drainage | | | 4 | 4 | Joint and key leakage staining girder and pier caps. (Corner drains leak, undermine slope. 09May2011). |
| Drains Clogged (Y/N) | | No | | | |
| Curbs/Median | | | 4 | N | Curb height is as little as 100mm therefore ineffective. Exposed rebar @ NW approach curb. (Exposed waterstop @ P1 W/E, P2 W - photos. 09May2011). |
| (Curb Type : Standard) | | | | | |
| Scaling (Percent Area) | | 10 | | | |
| Bridge Rail | | | 4 | 4 | Single layer. Bolt pulled through @ SW, 12 flexbeam splice bolts missing. Base plates covered by snow/dirt. |
| (Type : GALVANIZED STEEL FLEX BEAM) | | | | | |
| Bridge Rail Posts | | | 7 | 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 | 0 | 0 | 0 | 2 | |
| Now | 0 | 0 | 0 | 2 | |
| Girders | | | 3 | 3 | E curb S span has 2 delaminated areas on underside, associated with exposed strand. W curb girder has surface spalls with exposed rebar, S2. Longit. cracking underside of S3G12,13 at P2. |
| Cracking (Y/N) | | Yes | | | |
| Spalling (Percent Area) | | 1 | | | |
| (Number Of Girders : 39) | | | | | |

| Superstructure | | | | |
|----------------------------------------------------------------------------|-----|----------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Bridge Component | | Last | Now | Explanation of Condition |
| (Primary Span : PM, 3 Spans, Lengths(m): 10.7-16.8-15.2, A-Ident Number:) | | | | |
| Diaphragms/Cross Frame | | X | X | |
| Bearings | | 7 | 7 | |
| Temperature (deg. C) | -5 | | | |
| (Expansion Type : NEOPRENE STRIP BEARING) | | | | |
| (Fixed Type : NEOPRENE STRIP BEARING) | | | | |
| Coating Adequate (Y/N) | Yes | | | |
| Functioning (Y/N) | Yes | | | |
| Deck Underside | | 4 | N | Active leaking btwn W curb & interior due to failed GK. |
| Stains (Percent Area) | 5 | | | S span 1st interior from E @ pier has rust staining, may be from strands. Due to design shape of the PM girders, deck underside is not visible. |
| Span Alignment Problems | | | | |
| Vertical (Y/N) | Yes | | | (South abutment settled approx 150mm (photo). 09May2011). |
| Horizontal (Y/N) | No | | | |
| Superstructure General Rating | | 3 | 3 | |
| Substructure | | | | |
| Bridge Component | | Last | Now | Explanation of Condition |
| Abutments | | | | |
| Bearing Seats/Caps | | 4 | 4 | (South abutment possibly settling. 09May2011). Spall at NE corner of seat. |
| (Type : CONCRETE) | | | | |
| Backwalls/Breastwalls | | X | X | |
| Wingwalls | | 7 | 7 | |
| Piles | | N | N | Buried. |
| Paint/Coating | | 4 | 4 | Some peeling. |
| Abutment Stability | | 4 | 4 | (South abutment settlement. 09May2011). Rating maintained due to inspector's comments. |
| Scour/Erosion | | 7 | 6 | |
| Piers/Bents | | | | |
| (Type : PIER-COLUMN) | | | | |
| Bearing Seats/Caps | | 4 | 4 | Ends cracked with efflorescence. Stained from leaking joints. No action required at this time. |
| (Type : CONCRETE) | | | | |
| (Total Number of Bearing Piles : 5:5) | | | | |
| Pier Shaft/Piles | | 7 | 7 | |
| Bracing/Struts/Sheathing | | X | X | |
| Nose Plate | | X | X | |
| Paint/Coating | | 5 | 5 | Some rust staining, stained from leaking joints. Blue. |
| (Colour Description :) | | | | |
| (Colour Code :) | | | | |
| Pier Stability | | 7 | 7 | |
| Scour | | X | X | |
| Debris (Y/N) | No | | | |
| Substructure General Rating | | 4 | 4 | |

| Structure Usage | | | | |
|----------------------------------------|--|----------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | Last | Now | Explanation of Condition |
| Grade Separation | | | | |
| Road Alignment | | 9 | 9 | |
| Traffic Safety Features | | X | X | Rail line removed. |
| Type | | | | |
| Slope Protection | | 4 | 4 | (Toe of S concrete slope breaking up. 09May2011). Settled 475mm S, 300mm N end pulled away from abut up to 175mm on N side. (Buckling at toe on S side. 09May2011) - Snow covered. No action required for 4 rating. |
| (Type : CONCRETE; CONCRETE) | | | | |
| Bank Stability | | 7 | 7 | |
| Drainage | | 7 | 7 | |
| Grade Separation General Rating | | 4 | 4 | |

| Maintenance Recommendations | | | | | | | |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|-----------------|-------------------|-----|
| Inspector Recommendations | Year | Inspector Comments | Department Comments | Target Year | Est. Cost | Cat # | |
| REPAIR/REPLACE BRIDGE RAIL | 2013 | Install 12 splice bolts. Add rail to post bolt. | | | | | |
| GALVANIZE/PAINT BRIDGE RAIL | | | | | | | |
| SEAL CURBS | | | | | | | |
| PATCH DECK | 2013 | Patch ACP potholes/gaps at curb, if not yet done. | | | | | |
| SEAL DECK | 2013 | Seal all cracks in wearing surface. | | | | | |
| OVERLAY DECK | | | | | | | |
| REPAIR/REPLACE DECK JOINTS | 2013 | Patch & seal curbs, if not yet done. | | | | | |
| RESET/ PAINT BEARINGS | | | | | | | |
| WASHING | | | | | | | |
| SHOTCRETE REPAIRS | | | | | | | |
| REPAIR ABUTMENT SCOUR/EROSION | | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | |
| OTHER ACTION | 2017 | Remove structure (line removed). The salvaging of the girders at this time for use on local roads would pay for the delamination. It has to be removed at same time. Why not get some value from it. | | | | | |
| OTHER ACTION | 2013 | Reset approach rail to std height. | | | | | |
| OTHER ACTION | 2013 | Mill up to 150mm ACP from S1 & approach. | | | | | |
| OTHER ACTION | 2013 | Patch NE bearing seat spall. | | | | | |
| OTHER ACTION | 2013 | Patch buckling hslp concrete. | | | | | |
| OTHER ACTION | 2013 | Fill void at NW with grout & seal along abut face, if not yet done. | | | | | |
| OTHER ACTION | 2013 | Consider pig sealer spalled area of S2G1. | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 38.9/38.9 | Sufficiency Rating (Last/Now) (%) | 55.2/55.2 | Est. Repl. Yr | 2018 | Maint. Req. (Y/N) | Yes |
| Special Comments for Next Inspection | Consider doing all repairs if removal slated for 2020. Monitor curb girder delaminations. | | | Department Comments | | | |
| Maintenance Reviewed By | | | | Date | Estimated Total | 0 | |
| Proposed Long-Term Strategy | Paving program is ~ 2019. Property section to pursue keeping Meeting Ck Campground property for potential borrow. Should remove bridge & fill 1 yr prior to paving to allow for settlement. RS | | | | | | |

| | | | |
|-------------------------------------|-------------|---------------------------|-------------|
| On 3-Year Program (Y/N) | | | |
| Proposed Action | | | |
| Previous Inspector's Name | Owen Salava | Previous Assistant's Name | |
| Next Inspection Date | 13-Nov-2014 | Previous Inspection Date | 09-May-2011 |
| Inspection Cycle (Default) (months) | 21 | | |
| Comment | | | |