

| Bridge Inspection | | | | | | | | | |
|------------------------|-------------------------------------|--------|------|--------|---------------------|---------------|-------------------------------------------------|--|--|
| Bridge File Number | 84502 E-1 Bridge | | | | Form Type | SG | | | |
| Year Built/Year Supstr | 2004/2004 | | | | Lot No. | 2 | | | |
| Bridge or Town Name | | | | | Inspector Name | Tom Carey | | | |
| Located Over | 1:21 L1 10.060;1:21 R1 10.059 | | | | Inspector Class | BR CLS A | | | |
| Located On | 25099:02 L1 0.112;25099:02 R1 0.108 | | | | Assistant Name | | | | |
| Water Body Cl./Year | | | | | Assistant Class | | | | |
| Navigabil. Cl./Year | | | | | Inspection Date | 07-Feb-2012 | | | |
| Legal Land Location | SE SEC 19 TWP 12 RGE 5 W4M | | | | Data Entry By | Lauren Korte | | | |
| Longitude, Latitude | -110:39:56, 50:00:18 | | | | Data Entry Date | 25-Mar-2012 | | | |
| Road Authority | Alberta Transportation (AIT) | | | | Reviewer Name | Garry Roberts | | | |
| Contract Main. Area | CMA23 | | | | Review Date | 26-Feb-2012 | | | |
| Clear Roadway/Skew | 12.4 / 0 deg. | | | | Dept. Reviewer Name | Tim Davies | | | |
| AADT/Year | | | | | Dept. Review Date | 29-Mar-2012 | | | |
| Road Classification | | | | | Follow-Up By | | | | |
| Detour Length (km) | | | | | | | | | |
| 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: 1 L1 5.9m, 1 R1 6.0m | | | | | | | | | | | |
| Posted Vertical Clearance (Y/N) | | | | | | | | | | | | |
| Posted: | Lane | NB | On Bridge (m) | 5.4 | In Advance (Y/N) | No | Lane | SB | On Bridge (m) | 5.4 | In Advance (Y/N) | No |
| Remarks | S/B posting on 84502 West. | | | | | | | | | | | |
| 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) | | No | In Advance (Y/N) | | No | At Bridge (Y/N) | | | |
| Remarks | Not required. | | | | | | | | | | | |
| Hazard Marker At Bridge (Y/N) | No | | | | | | | | | | | |
| Remarks | | | | | | | | | | | | |
| Other Sign Types | Route, speed, slippery deck. | | | | | | | | | | | |

| Utilities (Located at) | | | | |
|------------------------|----------------------|--|---------------|--------------------------|
| Utility Attachments | | | | |
| Telephone | | | Gas | |
| Power | 8 West to SW. | | Municipal | Manhole @ Median @ East. |
| Others | Light Standards. | | Problem (Y/N) | No |
| Remarks | Under deck lighting. | | | |

| Approach Road | | | | |
|-------------------------------------|----------|----------|----------|----------------------------------------------------------|
| | | Last | Now | Explanation of Condition |
| Horizontal Alignment | | 6 | 6 | 13th Ave Overpass. |
| Vertical Alignment | | 6 | 6 | |
| Roadway Width (m) | 12.400 | | | ACP breaking @ outside lane and loose @ East deck joint. |
| Approach Bump | | 7 | 4 | |
| Guardrail (Y/N) | Yes | | | @ West only. |
| Guardrail | | 7 | 7 | |
| Length (m) | 40.000 | | | |
| Current Standard (Y/N) | Yes | | | |
| Termination Type | Bulb end | | | |
| Drainage | | 8 | 8 | |
| Approach Road General Rating | | 6 | 6 | |

| Superstructure | | | | | |
|--------------------------------------------------------------------------|-------|--------------|-------|--------------------------|---------------------------------------------------------------------------------------------------------------|
| Bridge Component | | Last | Now | Explanation of Condition | |
| (Primary Span : WG, 1 Spans, Lengths(m): 39.4, 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 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Wearing Surface | | | 7 | 7 | Isolated narrow cracks. Moderate popouts. |
| (Material Type : CONCRETE) | | | | | |
| (Thickness(mm) : 50) | | | | | |
| Deck Top | | | N | N | |
| Deck Rideability | | | 8 | 8 | |
| Deck Joints | | | 4 | 3 | Approx. 5m of buffer angle joint is loose in shoulder lane at East abut. Moves when traffic strikes angle. |
| Temperature (deg. C) | | -6 | | | |
| (Expansion Type : BUFFER ANGLES) | | | | | |
| (Fixed Type :) | | | | | |
| Gap Size (mm) | | Gap Location | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Deck Drainage | | | 8 | 8 | No drains. |
| Drains Clogged (Y/N) | | No | | | |
| Curbs/Median | | | 8 | 8 | |
| (Curb Type : Standard) | | | | | |
| Scaling (Percent Area) | | 0 | | | |
| Bridge Rail | | | 8 | 8 | |
| (Type : GALVANIZED STEEL BRIDGE TUBE) | | | | | |
| Bridge Rail Posts | | | 8 | 8 | |
| (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL) | | | | | |
| Bridge Rail/Posts Coating | | | 7 | 7 | |
| (Type : GALVANIZED) | | | | | |
| Sidewalk | | | X | X | |
| Girder/Beam | | | | | |
| Cover Plate | | | X | X | 4 lines of girders. |
| Flange | | | 8 | 8 | |
| Web | | | 8 | 8 | |
| Stiffeners | | | 8 | 8 | |
| Splice | | | X | X | |
| Weld | | | 8 | 8 | |
| Diaphragms/Cross Frame | | | 8 | 8 | |

| Superstructure | | | | |
|-------------------------------------------------------------------------|----|----------|----------|----------------------------------------------------|
| Bridge Component | | Last | Now | Explanation of Condition |
| (Primary Span : WG, 1 Spans, Lengths(m): 39.4, A-Ident Number:) | | | | |
| Paint Condition | | X | X | Weathering steel. |
| (Colour Description :) | | | | |
| (Colour Code :) | | | | |
| Touchup Required (Y/N) | No | | | |
| Bearings | | X | X | Integral. |
| Temperature (deg. C) | | | | |
| (Expansion Type :) | | | | |
| (Fixed Type :) | | | | |
| Coating Adequate (Y/N) | | | | |
| Functioning (Y/N) | | | | |
| Deck Underside | | 7 | 7 | Moderate narrow transverse cracks & Efflorescence. |
| Stains (Percent Area) | 5 | | | |
| Span Alignment Problems | | | | |
| Vertical (Y/N) | No | | | |
| Horizontal (Y/N) | No | | | |
| Superstructure General Rating | | 7 | 7 | |
| Substructure | | | | |
| Bridge Component | | Last | Now | Explanation of Condition |
| Abutments | | | | |
| Bearing Seats/Caps | | 8 | 8 | |
| (Type : CONCRETE) | | | | |
| Backwalls/Breastwalls | | 8 | 6 | MSE walls. Minor break at NE. |
| Wingwalls | | 8 | 8 | MSE Walls. |
| Piles | | N | N | Buried. |
| Paint/Coating | | 7 | 7 | Staining @ Corners. |
| Abutment Stability | | 8 | 8 | |
| Scour/Erosion | | X | X | |
| Piers/Bents | | | | |
| (Type :) | | | | |
| Bearing Seats/Caps | | X | X | |
| (Type :) | | | | |
| (Total Number of Bearing Piles :) | | | | |
| Pier Shaft/Piles | | X | X | |
| Bracing/Struts/Sheathing | | X | X | |
| Nose Plate | | X | X | |
| Paint/Coating | | X | X | |
| (Colour Description :) | | | | |
| (Colour Code :) | | | | |
| Pier Stability | | X | X | |
| 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 | Signal lights @ each side of bridge. |
| Type | Median | | | |
| Slope Protection | | 8 | 7 | |
| (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 | | | | | | | |
| RETROFIT BRIDGE RAIL | | | | | | | |
| SEAL CURBS | | | | | | | |
| PATCH DECK | | | | | | | |
| SEAL DECK | | | | | | | |
| OVERLAY DECK | | | | | | | |
| REPAIR/REPLACE DECK JOINTS | 2012 | Repair 5m of loose buffer angle at East abut. | | | | | |
| RESET/ PAINT BEARINGS | | | | | | | |
| REPAINT SUPERSTRUCTURE | | | | | | | |
| STRAIGHTEN/REPLACE MEMBERS | | | | | | | |
| WASHING | | | | | | | |
| SHOTCRETE REPAIRS | | | | | | | |
| REPAIR ABUTMENT SCOUR/EROSION | | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | |
| OTHER ACTION | 2012 | Patch East approach ALP at East deck joint. | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 83.3/83.3 | Sufficiency Rating (Last/Now) (%) | 71.8/71.8 | Est. Repl. Yr | 2073 | 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 | 07-Nov-2013 | | Previous Inspection Date | 13-Jul-2010 | | | |
| Inspection Cycle (Default) (months) | 21 | | | | | | |
| Comment | | | | | | | |