

| Bridge Inspection | | | | | | | | | | | |
|------------------------|------------------------------------|--------|--|--|---------------------|-----------------|--|--|-------|--------------------|--|
| Bridge File Number | 75202 -1 Bridge | | | | Form Type | PT TT | | | | | |
| Year Built/Year Supstr | 1946/1946 | | | | Lot No. | 2 | | | | | |
| Bridge or Town Name | KEG RIVER | | | | Inspector Name | Brian Pientsch | | | | | |
| Located Over | KEMP RIVER, 8.10.31.1, WATERCRS-ST | | | | Inspector Class | BR CLS A | | | | | |
| Located On | 695:06 C1 1.301 | | | | Assistant Name | | | | | | |
| Water Body Cl./Year | | | | | Assistant Class | | | | | | |
| Navigabil. Cl./Year | | | | | Inspection Date | 19-Mar-2013 | | | | | |
| Legal Land Location | SW SEC 6 TWP 101 RGE 22 W5M | | | | Data Entry By | Theresa Lacusta | | | | | |
| Longitude, Latitude | -117:36:38, 57:43:48 | | | | Data Entry Date | 08-Apr-2013 | | | | | |
| Road Authority | Alberta Transportation (AIT) | | | | Reviewer Name | Eric Carcoux | | | | | |
| Contract Main. Area | CMA01 | | | | Review Date | 03-Apr-2013 | | | | | |
| Clear Roadway/Skew | 6.7 / | | | | Dept. Reviewer Name | | | | | | |
| AADT/Year | 110 / 2012 (A) | | | | Dept. Review Date | | | | | | |
| Road Classification | RCU-209G-90 | | | | Follow-Up By | | | | | | |
| Detour Length (km) | 999 | | | | | | | | | | |
| Allowable Load (t): | Single | CS1 28 | | | Semi | CS2 49 | | | Train | CS3 66 STRINGER | ---> On Critical Spans ---->Critical Member |
| Design Loading: | HS15 | | | | | | | | | ---> Primary Span | |

| Posting Information | | | | | | | | | |
|-------------------------------|-------------------------------------|----|-------------------|------|------------------|----|-----------------|----|--|
| Required Load Posting (t) | Single | | | Semi | | | Truck Train | | |
| Posted Loading (t) | Single | | | Semi | | | Truck Train | | |
| Posted: | Lane | EB | At Junction (Y/N) | No | In Advance (Y/N) | No | At Bridge (Y/N) | No | |
| Posted: | Lane | WB | 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 | On spring mounts. | | | | | | | | |
| Other Sign Types | Narrow bridge sign both directions. | | | | | | | | |

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

| Approach Road | | | | | | | | | |
|-------------------------------------|-------------|--|-------------|------------|---------------------------------------|--|--|--|--|
| | | | Last | Now | Explanation of Condition | | | | |
| Horizontal Alignment | | | 8 | 8 | Grade to East. | | | | |
| Vertical Alignment | | | 6 | 6 | | | | | |
| Roadway Width (m) | 10.000 | | | | Gravel falling through west abutment. | | | | |
| Approach Bump | | | 5 | 5 | | | | | |
| Guardrail (Y/N) | Yes | | | | Wrong lap at NW. | | | | |
| Guardrail | | | 4 | N | Not thrie beam. | | | | |
| Length (m) | 11.400 | | | | Snow covered | | | | |
| Current Standard (Y/N) | No | | | | | | | | |
| Termination Type | TURNED DOWN | | | | | | | | |
| Drainage | | | 5 | 5 | | | | | |
| Approach Road General Rating | | | 6 | 6 | | | | | |

| Superstructure | | | | | |
|--|-------|--------------|-------|-----------------------------------|--|
| Bridge Component | | Last | Now | Explanation of Condition | |
| (Primary Span : PT, 3 Spans, Lengths(m): 6.1-24.4-6.1, A-Ident Number: A0161-05) | | | | | |
| Special Features | | | | | |
| Special Feature | | | 7 | Top & bottom chord strengthening. | |
| (Type :) | | | | | |
| Special Feature | | | X | | |
| (Type :) | | | | | |
| Wearing Surface/Deck Top Detail Ratings | | | | | |
| | N (%) | 1 (%) | 2 (%) | 3 (%) | |
| Last | | | | | |
| Now | 50.0 | | | | |
| Wearing Surface/Deck Top | | | 6 | 5 | |
| (Material Type : UNTREATED TIMBER) | | | | | |
| (Plank Thickness(mm) : 75) | | | | | |
| (Plank Width(mm) : 300) | | | | | |
| Deck Rideability | | | 6 | 6 | |
| Deck Joints | | | X | X | |
| Temperature (deg. C) | | -18 | | | |
| (Expansion Type :) | | | | | |
| (Fixed Type :) | | | | | |
| Gap Size (mm) | | Gap Location | | | |
| Curbs/Wheel Guards | | | 5 | N | Minor scrapes Snow covered |
| (Curb Type : Standard) | | | | | |
| (Type : TREATED TIMBER) | | | | | |
| (Thickness(mm) : 300) | | | | | |
| (Width(mm) : 150) | | | | | |
| Bridge Rail | | | 5 | 5 | Triple layer with minor dents and flattening. 120 x 140mm blocks against truss members. |
| (Type : GALVANIZED STEEL FLEX BEAM) | | | | | |
| Bridge Rail Posts/Blocking | | | 5 | 5 | |
| (Type : TREATED TIMBER;TREATED TIMBER) | | | | | |
| Bridge Rail/Posts Coating | | | 5 | 5 | |
| (Type : GALVANIZED) | | | | | |
| Sidewalk | | | X | X | |

| Superstructure | | | | | | |
|--|-----------|-----------|-----------|-----------|--|--|
| Bridge Component | | | | Last | Now | Explanation of Condition |
| (Primary Span : PT, 3 Spans, Lengths(m): 6.1-24.4-6.1, A-Ident Number: A0161-05) | | | | | | |
| Wide Load Damage (Y/N) | Yes | | | | | Minor nicks on SW batter post. |
| Top Chord | | | 7 | 7 | | See 2012 UT report for details. U1L1N has 3mm corner crack at L1 top right inside bolt. |
| Batter Posts | | | 7 | 7 | | |
| Diagonals | | | 7 | 7 | | Web at U1L1N torn at post tensioning location ok. |
| Verticals | | | 4 | 4 | | |
| Connections | | | 6 | 6 | | 21/bay x 6 bays. |
| Floor Beams | | | 6 | 6 | | |
| Bottom Chord | | | 6 | 6 | | 50% of stringers are 145x260 and are notched at end top flanges. |
| Lateral Bracings | | | 7 | 7 | | |
| (No. of Stringers : 126) | | | | | | |
| Stringer Detail Ratings | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | |
| Last | | | | | | |
| Now | | | | | | |
| Stringers | | | 5 | 5 | | |
| (Type : STEEL) | | | | | | |
| (Width(mm) : 110) | | | | | | |
| (Depth(mm) : 230) | | | | | | |
| (Spacing(mm) : 315) | | | | | | |
| Paint Condition | | | 4 | 4 | Isolated corrosion at rock chip locations. | |
| (Colour Description : GREEN) | | | | | | |
| (Colour Code : 14090) | | | | | | |
| Touchup Required (Y/N) | No | | | | | |
| Bearings | | | 6 | 6 | Exp. at P1 | |
| Temperature (deg. C) | -18 | | | | | |
| (Expansion Type : SLIDING PLATE) | | | | | | |
| (Fixed Type : PINNED BEARING) | | | | | | |
| Functioning (Y/N) | Yes | | | | | |
| Sub Deck/Deck Underside | | | 6 | 6 | | |
| (Material Type : TREATED TIMBER) | | | | | | |
| (Plank Thickness(mm) : 100) | | | | | | |
| (Plank Width(mm) : 300) | | | | | | |
| Defects (Percent Area) | 0 | | | | | |
| Span Alignment Problems | | | | | | |
| Vertical (Y/N) | No | | | | | |
| Horizontal (Y/N) | No | | | | | |
| Superstructure General Rating | | | 4 | 4 | | |
| Superstructure | | | | | | |
| Bridge Component | | | | Last | Now | Explanation of Condition |
| (Secondary Span : TT) | | | | | | |
| Special Features | | | | | | |
| Special Feature | | | | X | | |
| (Type :) | | | | | | |
| Special Feature | | | | X | | |
| (Type :) | | | | | | |
| Wearing Surface/Deck Top Detail Ratings | | | | | | |
| | N (%) | 1 (%) | 2 (%) | 3 (%) | | |
| Last | | | | | | |
| Now | 50.0 | | | | | |

| Superstructure | | | | | | | |
|--|-----------|-----------|-----------|--|--|-----------|--|
| Bridge Component | | Last | Now | Explanation of Condition | | | |
| (Secondary Span : TT) | | | | | | | |
| Wearing Surface/Deck Top | | 4 | 4 | 3 planks with broken ends at W. abut. Gravel wear at East. | | | |
| (Material Type : UNTREATED TIMBER) | | | | | | | |
| (Plank Thickness(mm) : 75) | | | | | | | |
| (Plank Width(mm) : 300) | | | | | | | |
| Deck Rideability | | 5 | 5 | | | | |
| Wheel Guards | | 4 | N | Minor damage at SE.-05-2012 Snow covered | | | |
| (Curb Type : Standard) | | | | | | | |
| (Type : TREATED TIMBER) | | | | | | | |
| (Thickness(mm) : 300) | | | | | | | |
| (Width(mm) : 150) | | | | | | | |
| Bridge Rail | | 6 | 6 | Triple layer. 2 posts have blocking twisting out of position East span. | | | |
| (Type : GALVANIZED STEEL FLEX BEAM) | | | | | | | |
| Bridge Rail Posts | | 5 | 4 | | | | |
| (Type : TREATED TIMBER;TREATED TIMBER) | | | | | | | |
| Bridge Rail/Posts Coating | | 5 | 5 | | | | |
| (Type : GALVANIZED) | | | | | | | |
| (No. of Stringers : 14;14) | | | | | | | |
| Stringer Detail Ratings | | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | | |
| Last | | | | | | | |
| Now | | | | | | | |
| Stringers | | 5 | 5 | | | | |
| (Type : TREATED TIMBER) | | | | | | | |
| (Width(mm) : 150) | | | | | | | |
| (Depth(mm) : 400) | | | | | | | |
| (Spacing(mm) : 530) | | | | | | | |
| Sub Deck/Deck Underside | | 6 | 6 | | | | |
| (Material Type : TREATED TIMBER) | | | | | | | |
| (Plank Thickness(mm) : 100) | | | | | | | |
| (Plank Width(mm) : 300) | | | | | | | |
| Defects (Percent Area) | 0 | | | | | | |
| Span Alignment Problems | | | | | | | |
| Vertical (Y/N) | No | | | | | | |
| Horizontal (Y/N) | No | | | | | | |
| Superstructure General Rating | | 5 | 5 | | | | |
| Substructure | | | | | | | |
| Bridge Component | | Last | Now | Explanation of Condition | | | |
| Abutments | | | | | | | |
| (Extended Backwall Piles (Y/N) : Y) | | | | East abut repaired with new H-pile abutment. | | | |
| (Extended Backwall Piles Spacing(mm) : 1500) | | | | | | | |
| (Total Number of Caps/Corbels : 1:1) | | | | East abut. has steel cap, 300x300. Old timber cap at E abut. rolling. | | | |
| Bearing Seats/Caps/Corbels Detail Ratings | | | | | | | |
| | N (count) | 1 (count) | 2 (count) | | | 3 (count) | |
| Last | | | | | | | |
| Now | | | | | | | |
| Bearing Seats/Caps/Corbels | | 5 | 5 | | | | |
| (Type : TREATED TIMBER) | | | | | | | |
| (Depth(mm) : 305) | | | | | | | |
| (Width(mm) : 305) | | | | | | | |

| Substructure | | | | | | | |
|---|-----------|-----------|-----------|-----------|----------|----------|---|
| Bridge Component | | | | | Last | Now | Explanation of Condition |
| Backwalls/Breastwalls | | | | | 5 | 5 | |
| Greatest Height (m) | | 2.70 | | | | | |
| Wingwalls | | | | | 6 | N | Snow covered |
| (Total Number of Bearing Piles : 6:6) | | | | | | | Only top 300mm visible |
| Piles Detail Ratings | | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | | |
| Last | | | | | | | |
| Now | | | | | | | |
| Piles | | | | | 5 | 5 | |
| Paint/Coating | | | | | X | X | |
| Abutment Stability | | | | | 6 | 6 | |
| Scour/Erosion | | | | | 6 | 6 | |
| Piers/Bents | | | | | | | |
| (Type : PIER-COLUMN) | | | | | | | Steel caps and corbels on west pier, timber on east pier. 305x305 SE corner has short steel H-beam cap under steel corbels. Both pier caps are notched. Corbels not connected to cap at SE pier. |
| (Total Number of Caps/Corbels : 6:6) | | | | | | | |
| 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) : 305) | | | | | | | |
| (Width(mm) : 305) | | | | | | | |
| (Total Number of Bearing Piles : 16:16) | | | | | | | Several piles checked at tops. |
| Piles Detail Ratings | | | | | | | |
| | N (count) | 1 (count) | 2 (count) | 3 (count) | | | |
| Last | | | | | | | |
| Now | | | | | | | |
| Pier Shaft/Piles | | | | | 5 | 5 | |
| Greatest Height (m) | | 5.00 | | | | | |
| Bracing/Struts/Sheathing | | | | | 6 | 6 | |
| Nose Plate | | | | | 7 | 7 | |
| Paint/Coating | | | | | 5 | 5 | primer |
| (Colour Description :) | | | | | | | |
| (Colour Code :) | | | | | | | |
| Pier Stability | | | | | 6 | 6 | |
| Scour | | | | | 5 | 5 | |
| Debris (Y/N) | | No | | | | | |
| Substructure General Rating | | | | | 5 | 5 | |

| Structure Usage | | | | |
|--|--|--|----------|--|
| | | Last | Now | Explanation of Condition |
| Channel | | | | |
| (U/S Direction : S) | | Channel is in line with E abut before swinging under bridge. | | |
| (D/S Direction : N) | | | | |
| Alignment | | 5 | 5 | |
| Bank Stability | | 4 | 4 | Banks sloughing d/s with near vertical face. |
| HWM (m below Top of Curb) | | No visible HWM Up to 300mm diam. drift throughout channel.-05-June-2012 | | |
| Drift (Y/N) | | | | |
| Slope Protection (Type : RIP RAP) | | 5 | 5 | Concrete chunks at SE. |
| Guidebank/Spurs | | X | X | |
| Adequacy of Opening | | 6 | 6 | |
| (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 | | | | | | | |
| RETROFIT BRIDGE RAIL | | | | | | | |
| PATCH DECK | 2013 | Patch stripdeck 6-75x305x3 | | | | | |
| REPLACE STRIP DECK | | | | | | | |
| REPLACE SUB DECK | | | | | | | |
| RESET/ PAINT BEARINGS | | | | | | | |
| REPAINT SUPERSTRUCTURE | | | | | | | |
| STRAIGHTEN/REPLACE MEMBERS | | | | | | | |
| WASHING | | | | | | | |
| CORE TIMBER CAPS/CORBELS | | | | | | | |
| REPAIR/REPLACE TIMBER CAPS | | | | | | | |
| REPAIR ABUTMENT SCOUR/EROSION | | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | 2013 | Replace 1 section wheelguard 150x300x6m.-05-June-2012. Snow covered. | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | 50.0/50.0 | Sufficiency Rating (Last/Now) (%) | 45.6/45.6 | Est. Repl. Yr | 2025 | Maint. Req. (Y/N) | Yes |
| Special Comments for Next Inspection | Timber caps and piles cored 05-Jun-2005. Monitor U1L1N for growth of crack beyond rivet head. | | 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 | Randy Bredo | | | |
| Next Inspection Date | 19-Jun-2016 | | Previous Inspection Date | 05-Jun-2012 | | | |
| Inspection Cycle (Default) (months) | 39 | | | | | | |
| Comment | | | | | | | |