Bridge Inspection & Maintenance System (Web 2005)

| | | | | | Bridg | e Culve | ert Insp | ection | | | | | | |
|--|------------------|---------------|---------------|---------|--------------------------|---------------------|-------------------------|-------------------------|----------------|---------------|-----------------------|-------|--|--|
| Bridge File Num | ber [·] | 73068 -1 | Bridge Culver | rt | | | Form Type | | | CUL1 | | | | |
| Year Built 1981 | | | | | | | Lot No. | | | 1 | | | | |
| Bridge or Town Name RANFURL | | | RLY | | | | Inspec | tor Name |) | Owen Salava | | | | |
| Located Over 2ND ORD | | | | RY TO E | BIRCH | LAKE, | Inspec | nspector Class BR CLS A | | | | | | |
| 0.5.18.3.5 | | 11 230-16-26 | 28 | | Assistant Name | | | | | | | | | |
| Water Body CI /Year | | 11.230,10.20 | NT 11.22 | 20 | | Assistant Class | | | | | | | | |
| Navigabil. Cl./Year | | | | | | Inspection Date | | | 18-Dec-2012 | | | | | |
| Legal Land Location SW SEC | | 13 T\//D 51 D | GE 12 M | /// | | Data Entry By | | | Marcia Chavez | | | | | |
| Legal Lanu Loca | | -111.30 | 07 53.23.46 | GE 12 M | /4111 | | Data Entry Date | | | 03-Jan-2013 | | | | |
| Road Authority | | Alberta T | | | | | - Reviewer Name | | | John O'Brien | | | | |
| Contract Main. Area CMA14 | | ransportation | (/ (1 /) | | | Review Date | | 20-Dec-2012 | | | | | | |
| Clear Roadway/Skew 25 / 37 d | | lea (RHF) | | | | Dept. Reviewer Name | | | Andrew Smikles | | | | | |
| AADT/Year 6.330 / | | 6 330 / 2 | 2011 (A) | | | | Follow-Up By | | 07-Jan-2013 | | | | | |
| Road Classification REF | | RFD-412 | 2.4-130 | | | | Follow-Up By | | | | | | | |
| Detour Length (k | km) | 1 | | 4-130 | | | | | | | | | | |
| Bridge Culvert | Informa | ation | | | | | | | | 1 | | | | |
| Number of Culve | erts | - | 1 | | | | | | | | | | | |
| Pipe # E | Barrel | 5 | Span Rise (or | | | Туре | | Length | | Corr. Profile | PI./Slab Thickness | Shape | | |
| 1 | MAIN | 2155 1350 | | | | FP | | 96.2 | | 68X13 | 4.2 | ARCH | | |
| Special Features VERT STEEL STRUT | | | | STRUTS | | | | | | | | | | |
| Special Features Comment | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Litility Attachments | | | | Ut | llities (L | | at) | | | | | | | |
| Telephone | | | | | Gas | | | | | | | | | |
| Power 3 wires 30m North of WBL c/l | | | | | | Munici | nal | | | | | | | |
| Others | | | • | | | Proble | m (V/N) | No | | | | | | |
| Remarks | | | | | | TIODIC | ···· (1 / 1 v) | | | | | | | |
| A | | | | oproa | ch Road | d / Emb | ankment | | | | | | | |
| | | | Last | Now | Explanation of Condition | | | | | | | | | |
| Horizontal Alignment | | | 5 | 5 | Local r | oad inter | section | over structure | at Rge Rd 121. | | | | | |
| Vertical Alignment | | | 5 | 5 | Blind c | rest curve | e 150m | W with 4% gra | de to top. | | | | | |
| Roadway Width (m) | | 25.000 | | | | | | | | | | | | |
| Embankment | | | | | 7 | 7 | Highwa | ay sideslo | opes ar | e 5:1. | | | | |
| Sideslope (:1) | | 3.0 | | | | | | | | | | | | |
| (Height of Cover(m) : 2.8) | | | | | | | | | | | | | | |
| Guardrail (Y/N) No | | | No | | | | | | | | | | | |
| Approach Road / Embankment General Rating | | | 5 | 5 | | | | | | | | | | |
| | | | | Upstre | am End | | | | | | | | | |
| Culvert Component | | | Last | Now | Explar | nation of | Condi | tion | | | | | | |
| Direction | | | N | | - | | | | | | | | | |
| End Treatment (Concrete, Steel, STEEL Others, None) | | | | | | | | | | | | | | |
| Headwall | | | X | X | | | | | | | | | | |
| Collar | | | | | X | Х | | | | | | | | |
| Wingwalls | | | | | X | X | | | | | | | | |
| (Shape :) | | | | | | | | | | | | | | |
| Cutoff Wall | | | | | X | X | | | | | | | | |

Alberta Transportation

| | | | Upstre | am End |
|--|----------------------|-------|----------------|--|
| Culvert Component | | Last | Now | Explanation of Condition |
| Bevel End | | 6 | 6 | (Floor is rusting with salt stains. 17Dec2010) - Floor is ice covered. |
| Heaving (mm) | 75 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 150 | | | |
| Scour Protection | | | N | Snow covered. |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) :) | | | | |
| Scour/Erosion | | N | N | Snow covered. |
| Beavers (Y/N) | No | | | |
| Upstream End General Rating | | 6 | 6 | |
| | | Bric | d <u>ge Cu</u> | lvert Barrel |
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Loca | tion Code: MAIN, Spa | n (mm |): 2155 | , Rise (mm): 1350, Type: FP) |
| Barrel Last Accessible Date | 18-Dec-2012 | | | |
| Special Features | | | | |
| Special Feature | | 6 | 6 | Permanent steel struts; no distortion. |
| (Type : VERT STEEL STRUTS) | | | | |
| Special Feature | | | | |
| (Type:) | | | | |
| Roof | | 2 | 2 | Floor bulge not @ this location based on these numbers. |
| Measured Rise (mm) | 1090 | | | Unable to measure due to ice; rating carried forward. |
| Measured At Ring No. | | | | 6th post from South. |
| Sag (mm) | 260 | | | (19.3%. 17Dec2010). |
| Percent Sag | 19 | | | 1 |
| Sidewall | | 5 | 5 | 6th post from South. |
| Measured Span (mm) | 2300 | | | |
| Measured At Ring No. | | | | |
| Deflection (mm) | 145 | | | 6.7% |
| Percent Deflection | 7 | | | |
| Floor | | N | N | Ice covered. |
| Bulge (mm) | 50 | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | No | | | |
| Circumferential Seams | | 5 | 5 | 1st post from North. |
| Separation (mm) | 60 | | | |
| Longitudinal Seams | | Х | Х | |
| Total No. of Cracked Rings | | | | 1 |
| Total No. of Rings with Two Cracked Seams | | | | |
| Min. Remaining Steel Between Cracks (mm) | | | | |
| Proper Lap (Y/N) | | | | 1 |
| Longitudinal Stagger (Y/N) | | | | 1 |
| Coating | | 5 | 5 | (Pitting on roof (3.0 m section) and floor 17Mar2006) - Roof/floor |
| Corrosion By Soil (Y/N) | Yes | 0 | 5 | pitting not seen at this time. |
| Corrosion By Water (Y/N) | No | | | Alkaline soil in area. Rust at crown. Floor showing rust at haunches. |
| Camber POS/ZERO/NEG | ZERO | | | |
| | | | | |
| Ponding (Y/N) | No | | | |

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

| | | Brie | dge Cu | lvert Barrel | | | |
|---|----------------------|--------|----------|--|--|--|--|
| Culvert Component | | Last | Now | Explanation of Condition | | | |
| (Pipe # : 1, Primary Span, Loca | tion Code: MAIN, Spa | an (mm | ı): 2155 | 5, Rise (mm): 1350, Type: FP) | | | |
| Fish Passage Adequacy | | 5 | 5 | | | | |
| Baffle | | Х | Х | | | | |
| (Туре :) | | | | | | | |
| Waterway Adequacy | | 5 | 5 | | | | |
| Icing (Y/N) | No | | | | | | |
| Silting (Y/N) | No | | | | | | |
| Drift (Y/N) No | | | | | | | |
| Barrel General Rating | | | 4 | G.R. increased by 2 due to struts and carried forward. | | | |
| | | D | ownst | ream End | | | |
| Culvert Component | | Last | Now | Explanation of Condition | | | |
| Direction | | S | | | | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | | | | |
| Headwall | | X | X | | | | |
| Collar | | X | Х | | | | |
| Wingwalls | | Х | Х | | | | |
| (Shape :) | | | | | | | |
| Cutoff Wall | | | X | | | | |
| Bevel End | | N | 6 | Minor bend at SW. No problem. | | | |
| Heaving (mm) 0 | | | | | | | |
| Invert Above/Below Stream Bed ABOVE | | | | _ | | | |
| Above/Below (mm) 200 | | | - | | | | |
| Scour Protection | | | N | Willows at outlet. Snow covered. | | | |
| (Type : NATURAL) | | | | _ | | | |
| (Avg. Rock Size(mm) :) | | | _ | | | | |
| Scour/Erosion | | N | N | Snow covered. | | | |
| Beavers (Y/N) | No | | | | | | |
| Downstream End General Ration | ng | N | 6 | | | | |
| | | S | Structu | re Usage | | | |
| | | Last | Now | Explanation of Condition | | | |
| Channel (U/S and D/S) | | | | | | | |
| Alignment | | | 6 | Flow along ditch for 100 m at NW grassed throughout. Small culvert under local access road, 80m d/s. | | | |
| Bank Stability | | | 7 | | | | |
| HWM (m below Top of Culvert) | | | | HWM not visible. | | | |
| Drift (Y/N) | No | | | | | | |
| Channel Bottom Degrading/Aggrading | DEGRADING | | | D/S only. | | | |
| Beavers (Y/N) | No | | | | | | |
| (Fish Compensation Measure 1 : | NONE) | | | | | | |
| (Fish Compensation Measure 2 : | NONE) | | | | | | |
| Channel General Rating | | 6 | 6 | | | | |

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| | | Maintenance Recom | mendations | | | | |
|---|--------------------------------------|---|------------------------|--------------------|-----------------|-------------|-------|
| Inspector Recommendations | Year | Inspector Comments | Department Comm | ients | Target Year | Est. Cost | Cat # |
| SHOTCRETE REPAIRS | | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | |
| INSTALL CONCRETE/STEEL LINING | | | | | | | |
| INSTALL STRUTS | | | | | | | |
| INSTALL CONCRETE COLLAR/CUTC | DFF | | | | | | |
| REPAIR SEAMS | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| Structural Condition Rating (Last/N((%) | ow) 44.4/44 | .4 Sufficiency Rating (Last/Now) (%) | 51.2/52.0 | Est. Repl. Yr 2020 | Maint. Rec | d (N/Y) .bp | Q |
| Special No action for sag sil Comments for LRA emailed to Dor Next Inspection | nce pipe is strutt ald Saunders o | ted. n 19Dec2012. | 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 | Owen Salava | Prev | vious Assistant's Name | | | | |
| Next Inspection Date | 18-Sep-2014 | Prev | vious Inspection Date | 17-Dec-2010 | | | |
| Inspection Cycle (Default) (months) | 21 | | | | | | |
| Comment | | | | | | | |
| | | | | | | | |

| | | | | Maintenance Re | commend | lations | | | | | | |
|---|--------------------|--------|----------|------------------------------------|---------------------|------------------------|-------|-----------------|------------|-----------------|------------|-------|
| Inspector Recommendations | | | | Inspector Comments | Department Comments | | | | | Target Year | Est. Cost | Cat # |
| SHOTCRETE REPAIRS | | | | | | | | | | | | |
| PLACE ADDITIO | NAL RIP RAP | | | | | | | | | | | |
| REMOVE DRIFT | ACCUMULATION | | | | | | | | | | | |
| INSTALL CONCRETE/STEEL LINING | | | | | | | | | | | | |
| INSTALL STRUTS | | | | | | | | | | | | |
| INSTALL CONCRETE COLLAR/CUTOFF | | | | | | | | | | | | |
| REPAIR SEAMS | | | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | | | 44.4/44. | 4 Sufficiency Rating (Last/ (%) | Now) t | 51.2/52.0 Est. R | | st. Repl. Yr | 2020 | Maint. Re | eqd. (Y/N) | No |
| Special Comments for Next Inspection | | | | ted. n 19Dec2012. | | Department Comments | Curre | ently programme | ed to be i | replaced in 202 | 22 | |
| Maintenance Reviewed By Andre | | | v Smikle | S | | Date | 21-Ja | an-2013 | | Estimated Tota | al O | |
| Proposed Long-Term Strategy | | | | | | | | | | | | |
| On 3-Year Program (Y/N) | | | | | | | | | | | | |
| Proposed Action | | | | | | | | | | | | |
| Previous Inspector's Name Owen | | | Salava | | Previous | Assistant's Name | | | | | | |
| Next Inspection D | ate | 18-Sep | o-2014 | | Previous | Inspection Date | Э | 17-Dec-2010 | | | | |
| Inspection Cycle | (Default) (months) | 21 | | | | | | | | | | |
| Comment | | | | | | | | | | | | |