| Bridge Culvert Inspection | | | | | | | | | | | | | |
|--|---------------------|----------------------|------------|-----------|-------------------------------|--------------------------|---------------------|-------------------|-----------------|-----------------------|---------|--|--|
| Bridge File Number 70456 -1 Bridge Culvert | | | | Form Type | | | CUL1 | | | | | | |
| Year Built 1960 | | | | | Lot No. | | | | 4 | | | | |
| Bridge or Town N | ame ST. L | NA | | | Inspecto | | or Name | | Wade Nanninga | | | | |
| Located Over | TRIB | JTARY TO ST L | INA CREE | EK, 7.2 | 2.1, | Inspector Class | | BR CLS A | | | | | |
| Located On | 867:0 | 2 C1 10 500 | | | | Assistant Name | | | | | | | |
| Water Body CL/V | 007.0 | 2 01 19.599 | | | | | Assistant Class | | | | | | |
| Navigabil Cl /Year | | | | | | Inspection Date | | 14-Dec-2012 | | | | | |
| Legal Land Location NW SEC 6 TW | | | | | | | Data Entry By | | Theresa Lacusta | | | | |
| Longitude Latitude -111:30:12 54:2 | | | | | Data Entry Date | | 09-Jan-2013 | | | | | | |
| Road Authority | a Transportation | Transportation (AIT) | | | | | Reviewer Name | | Eric Carcoux | | | | |
| Contract Main. Area CMA08 | | | . (/ / | | | Review Date | | 09-Jan-2013 | | | | | |
| Clear Roadway/Skew 10.8 / | | | | | | | Dept. Reviewer Name | | Paul Catt | | | | |
| AADT/Year | 230 / | 2011 (A) | 11 (A) | | | | | Dept. Review Date | | 18-Jan-2013 | | | |
| Road Classificatio | n RAU- | 209-110 | | | | Follow-Up By | | | | | | | |
| Detour Length (kn | n) 5 | | | | | | | | | | | | |
| Bridge Culvert Information | | | | | | | | | | | | | |
| Number of Culverts 1 | | | | | | | | | | | | | |
| Pipe # Ba | arrel | Span | Rise (or | Dia.) | Туре | | Length | | Corr. Profile | PI./Slab Thickness | Shape | | |
| 1 M. | AIN | 1724 | 1901 | | SPE | | 34.8 | | 152X51 | 3.0 | ELLIPSE | | |
| Special Features | | | | | | | | | | | | | |
| Special Features | Comment | File tag on cro | wn of Wes | st end. | | | | | | | | | |
| | | _ | | 114 | | | | | | | | | |
| Litility Attachment | c | | | 01 | incies (L | | al) | | | | | | |
| Telephone West r/w | | | | | | | | | | | | | |
| Power 1 | wire OH 2 | | | Municip | al | | | | | | | | |
| Others | | | | | | Problen | (Y/N) No | | | | | | |
| Remarks | | | | | | | | | | | | | |
| | | | A | pproa | ch Road | d / Emba | Inkment | | | | | | |
| | | | | | Now | Explanation of Condition | | | | | | | |
| Horizontal Alignment | | | 8 | 8 | Field accesses North & South. | | | | | | | | |
| Vertical Alignment | | | 7 | 7 | | | | | | | | | |
| Roadway Width (m) 10.800 | | 10.800 | | | | | | | | | | | |
| Embankment | | | | 7 | 7 | | | | | | | | |
| Sideslope (:1) |) | 3.0 | | | | | | | | | | | |
| (Height of Cove | r(m) : 3.5) | | | 1 | | | | | | | | | |
| Guardrail (Y/N) | | No | | | | | | | | | | | |
| Approach Road | / Embankm | ent General Ra | ting | 7 | 7 | | | | | | | | |
| | | | | | Upstre | am End | | | | | | | |
| Culvert Compone | ent | | | Last | Now | Explan | ation of | Condit | ion | | | | |
| Direction | | | | W | | | | | | | | | |
| End Treatment (Concrete, Steel, STEEL Others, None) | | | | | | | | | | | | | |
| Headwall | | X | Х | | | | | | | | | | |
| Collar | | X | Х | | | | | | | | | | |
| Wingwalls | | | X | X | | | | | | | | | |
| (Shape :) | | | | | | | | | | | | | |
| Cutoff Wall | | | | | | | | | | | | | |

Alberta Transportation

| Upstream End | | | | | | | | | |
|--|--------------------------|--------|---------|---|--|--|--|--|--|
| Culvert Component | | Last | Now | Explanation of Condition | | | | | |
| Bevel End | | 7 | 7 | | | | | | |
| Heaving (mm) | 300 | | | | | | | | |
| Invert Above/Below Stream Bed ABOVE | | | | | | | | | |
| Above/Below (mm) 100 | | | - | | | | | | |
| Scour Protection | | 5 | 5 | | | | | | |
| (Type : RIP RAP) | (Type : RIP RAP) | | | | | | | | |
| (Avg. Rock Size(mm) : 300) | | | | | | | | | |
| Scour/Erosion | | 5 | 5 | Fill settled along bevel. | | | | | |
| Beavers (Y/N) | No | | 1 | | | | | | |
| Upstream End General Rating | | | 5 | | | | | | |
| | | Bric | dae Cu | Ivert Barrel | | | | | |
| Culvert Component | | Last | Now | Explanation of Condition | | | | | |
| (Pipe # : 1, Primary Span, Loca | tion Code: MAIN, Spa | ın (mm |): 1724 | , Rise (mm): 1901, Type: SPE) | | | | | |
| Barrel Last Accessible Date | 14-Dec-2012 | | | Design 1724 x 1901. | | | | | |
| | | | | 300mm water/ice along floor. | | | | | |
| Special Features | | | | | | | | | |
| Special Feature | | | | | | | | | |
| (Type:) | | | | 4 | | | | | |
| Special Feature | | | | - | | | | | |
| (Туре :) | | 1 | - | | | | | | |
| Roof | | 6 | 6 | | | | | | |
| Measured Rise (mm) | Measured Rise (mm) 1830 | | | | | | | | |
| Measured At Ring No. 7 | | | | 4% est due to ice. | | | | | |
| Sag (mm) 71 | | | | | | | | | |
| Percent Sag 4 | | | | | | | | | |
| Sidewall | | 4 | 4 | Bulge in ring 2 sidewall. | | | | | |
| Measured Span (mm) | 1800 | | | Sidewalls are crimping from design. Missing nuts throughout. | | | | | |
| Measured At Ring No. | 7 | | | | | | | | |
| Deflection (mm) | 76 | | | | | | | | |
| Percent Deflection | 4 | | | | | | | | |
| Floor | | 5 | 4 | Floor exhibiting irregular deformation. Floor drops down at the 2/3 | | | | | |
| Bulge (mm) | 0 | | | point from upstream end due to extension of pipe. Floor pitting. | | | | | |
| Measured At Ring No. | | | | | | | | | |
| Abrasion (Y/N) | Yes | | | | | | | | |
| Circumferential Seams | | 4 | 4 | Missing nuts - loose bolts. | | | | | |
| Separation (mm) 0 | | | | | | | | | |
| Longitudinal Seams | | | 4 | Numerous loose bolts. | | | | | |
| Total No. of Cracked Rings | 0 | | | Missing 15-20 nuts in first 6 rings. | | | | | |
| Total No. of Rings with Two Cracked Seams | | | | | | | | | |
| Min. Remaining Steel Between Cracks (mm) | | | | Staggered 1 N | | | | | |
| Proper Lap (Y/N) No | | | | | | | | | |
| Longitudinal Stagger (Y/N) Yes | | | | | | | | | |
| Coating | | 4 | 4 | Pitting on floor. | | | | | |
| Corrosion By Soil (Y/N) | No | | | | | | | | |
| Corrosion By Water (Y/N) | Yes | | | | | | | | |
| Camber POS/ZERO/NEG | ZERO | | | | | | | | |
| Ponding (Y/N) | No | | | | | | | | |

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

| Bridge Culvert Barrel | | | | | | | | | |
|---|-------|------|----------|---|--|--|--|--|--|
| Culvert Component | | | Now | Explanation of Condition | | | | | |
| (Pipe # : 1, Primary Span, Location Code: MAIN, Spa | | |): 1724 | , Rise (mm): 1901, Type: SPE) | | | | | |
| Fish Passage Adequacy | | 5 | 5 | | | | | | |
| Baffle | | | X | | | | | | |
| (Type :) | | | | | | | | | |
| Waterway Adequacy | | | 7 | | | | | | |
| Icing (Y/N) | No | | | | | | | | |
| Silting (Y/N) | No | | | | | | | | |
| Drift (Y/N) | No | | | | | | | | |
| Barrel General Rating | | | 4 | | | | | | |
| Ç. | | | | | | | | | |
| Culvert Component | | | Now | ean End | | | | | |
| Direction | | F | | | | | | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | | | | | | |
| Headwall | | Х | X | | | | | | |
| Collar | | | Х | | | | | | |
| Wingwalls | | Х | Х | | | | | | |
| (Shape :) | | | | | | | | | |
| Cutoff Wall | | | X | | | | | | |
| Bevel End | | 6 | 6 | | | | | | |
| Heaving (mm) | 100 | | | | | | | | |
| Invert Above/Below Stream Bed | BELOW | | | | | | | | |
| Above/Below (mm) 200 | | | | | | | | | |
| Scour Protection | | | 4 | | | | | | |
| (Type : RIP RAP) | | | | | | | | | |
| (Avg. Rock Size(mm) : 300) | | | | | | | | | |
| Scour/Erosion | | | 4 | Large scour @ end of pipe - stable. 10mx5mx1m | | | | | |
| Beavers (Y/N) | No | | | | | | | | |
| Downstream End General Ration | ng | 4 | 4 | | | | | | |
| | | | Structur | | | | | | |
| | | Last | Now | Explanation of Condition | | | | | |
| Channel (U/S and D/S) | | | | | | | | | |
| Alignment | | | 6 | | | | | | |
| Bank Stability | | | 6 | | | | | | |
| HWM (m below Top of Culvert) | | | | HWM not visible. | | | | | |
| Drift (Y/N) Yes | | | | Brush at openings-small | | | | | |
| Channel Bottom Degrading/Aggrading | | | | none | | | | | |
| Beavers (Y/N) No | | | | | | | | | |
| (Fish Compensation Measure 1 : | NONE) | | | | | | | | |
| (Fish Compensation Measure 2 : | NONE) | | | | | | | | |
| Channel General Rating | | | 6 | | | | | | |

| Maintenance Recommendations | | | | | | | | | | | |
|---|--|--------|---------------|--|-------|--------------------------------------|-------------|-----------|--------------------|---|----|
| Inspector Recommendations | | | Year | Inspector Comments | | Department Comm | Target Year | Est. Cost | Cat # | | |
| SHOTCRETE REPAIRS | | | | | | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | | | | | |
| INSTALL CONCRETE/STEEL LINING | | | | | | | | | | | |
| INSTALL STRUTS | | | | | | | | | | | |
| INSTALL CONCRETE COLLAR/CUTOFF | | DFF | | | | | | | | | |
| REPAIR SEAMS | | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | | | 44.4/44.4 | I.4 Sufficiency Rating (Last/No. (%) | ow) 5 | 57.1/57.1 Est. Repl. Yr 2018 | | 2018 | Maint. Reqd. (Y/N) | | No |
| Special Comments for Next Inspection Monitor corrosion and d/s scour and sha Though some bolts are missing or loose, | | | | d shape. oose, barrel still has reasonable shape. | | Department Comments | | | | | |
| Maintenance Reviewed By | | | | | | Date | | E | Estimated Total | 0 | |
| Proposed Long-Term Strategy | | | | | | | | | | | |
| On 3-Year Program (Y/N) | | | | | | | | | | | |
| Proposed Action | | | | | | | | | | | |
| Previous Inspector's Name Wade | | Wade N | /ade Nanninga | | | Previous Assistant's Name | | | | | |
| Next Inspection Date 14-M | | 14-Mar | 14-Mar-2016 | | | Previous Inspection Date 28-Apr-2011 | | | | | |
| Inspection Cycle (Default) (months) 39 | | 39 | | | | | | | | | |
| Comment | | | | | | | | | | | |