

| Bridge Culvert Inspection | | | | |
|---------------------------|--|--|---------------------|--------------------|
| Bridge File Number | 76230 -1 Bridge Culvert | | Form Type | CUL1 |
| Year Built | 1965 | | Lot No. | 4 |
| Bridge or Town Name | GIROUXVILLE | | Inspector Name | Brian Pientsch |
| Located Over | TRIBUTARY TO LITTLE SMOKY RIVER, 8.10.58.7.3, WATERCRS-ST | | Inspector Class | BR CLS A |
| Located On | LOCAL ROAD | | Assistant Name | Lisbeth Medina |
| Water Body Cl./Year | | | Assistant Class | |
| Navigabil. Cl./Year | | | Inspection Date | 30-Nov-2010 |
| Legal Land Location | SW SEC 3 TWP 77 RGE 22 W5M | | Data Entry By | Theresa Lacusta |
| Longitude, Latitude | -117:20:18, 55:38:10 | | Data Entry Date | 21-Dec-2010 |
| Road Authority | Alberta Transportation (AIT) | | Reviewer Name | Arnold Assenheimer |
| Contract Main. Area | CMA03 | | Review Date | 20-Dec-2010 |
| Clear Roadway/Skew | 7.9 / | | Dept. Reviewer Name | David Morrison |
| AADT/Year | 29 / 2010 (E) | | Dept. Review Date | 31-Mar-2011 |
| Road Classification | RLU-208G-90 | | Follow-Up By | |
| Detour Length (km) | 6 | | | |

Bridge Culvert Information

| Number of Culverts | 1 | | | | | | | |
|--------------------------|--------|------|----------------|------|--------|---------------|--------------------|-------|
| Pipe # | Barrel | Span | Rise (or Dia.) | Type | Length | Corr. Profile | Pl./Slab Thickness | Shape |
| 1 | MAIN | 2159 | 1372 | FP | 16.5 | 68X13 | 4.3 | ARCH |
| Special Features | | | | | | | | |
| Special Features Comment | | | | | | | | |

Utilities (Located at)

| | | | | |
|---------------------|---|--|---------------|----|
| Utility Attachments | | | | |
| Telephone | W. SIDE OF INTERSECTION | | Gas | |
| Power | 15m E. of centerline | | Municipal | |
| Others | | | Problem (Y/N) | No |
| Remarks | Power pole with anchors 6 M NE OF PIPE | | | |

Approach Road / Embankment

| | | Last | Now | Explanation of Condition |
|--|-------|----------|----------|--------------------------|
| Horizontal Alignment | | 8 | 8 | |
| Vertical Alignment | | 8 | 8 | |
| Roadway Width (m) | 7.500 | | | |
| Embankment | | 7 | 6 | |
| Sideslope (_ :1) | 2.5 | | | |
| (Height of Cover(m) : 1.2) | | | | |
| Guardrail (Y/N) | No | | | |
| Approach Road / Embankment General Rating | | 7 | 8 | |

Upstream End

| Culvert Component | | Last | Now | Explanation of Condition |
|---|-------|------|-----|--------------------------|
| Direction | | N | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | |
| Headwall | | X | X | |
| Collar | | X | X | |
| Wingwalls | | X | X | |
| (Shape :) | | | | |
| Cutoff Wall | | X | X | |

| Upstream End | | | | |
|---|-------------|----------|----------|--|
| Culvert Component | | Last | Now | Explanation of Condition |
| Bevel End | | 5 | 5 | |
| Heaving (mm) | 75 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 350 | | | |
| Scour Protection | | 5 | 5 | |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 200) | | | | |
| Scour/Erosion | | 5 | 5 | |
| Beavers (Y/N) | No | | | |
| Upstream End General Rating | | 5 | 5 | |
| Bridge Culvert Barrel | | | | |
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2159, Rise (mm): 1372, Type: FP) | | | | |
| Barrel Last Accessible Date | 30-Nov-2010 | | | |
| Special Features | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Roof | | 5 | 4 | |
| Measured Rise (mm) | 1247 | | | Minor dent at 12 o'clock |
| Measured At Ring No. | 11 | | | |
| Sag (mm) | 125 | | | |
| Percent Sag | 9 | | | |
| Sidewall | | 6 | 5 | |
| Measured Span (mm) | 2286 | | | |
| Measured At Ring No. | 11 | | | |
| Deflection (mm) | 127 | | | |
| Percent Deflection | 6 | | | |
| Floor | | 5 | 5 | Bulge est @CL |
| Bulge (mm) | 25 | | | |
| Measured At Ring No. | 11 | | | |
| Abrasion (Y/N) | No | | | |
| Circumferential Seams | | 5 | 5 | |
| Separation (mm) | 120 | | | |
| Longitudinal Seams | | 5 | 5 | Rivetted seams |
| Total No. of Cracked Rings | | | | 2N |
| Total No. of Rings with Two Cracked Seams | | | | |
| Min. Remaining Steel Between Cracks (mm) | | | | |
| Proper Lap (Y/N) | | | | |
| Longitudinal Stagger (Y/N) | Yes | | | |
| Coating | | 4 | 4 | Pitting 3-9 (spring line to spring line) |
| Corrosion By Soil (Y/N) | No | | | |
| Corrosion By Water (Y/N) | Yes | | | |
| Camber POS/ZERO/NEG | NEG | | | |
| Ponding (Y/N) | No | | | |

| Bridge Culvert Barrel | | | | |
|---|-----------|----------|----------|--------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2159, Rise (mm): 1372, Type: FP) | | | | |
| Fish Passage Adequacy | | 5 | 5 | |
| Baffle | | X | X | |
| (Type :) | | | | |
| Waterway Adequacy | | 5 | 5 | |
| Icing (Y/N) | No | | | |
| Silting (Y/N) | No | | | |
| Drift (Y/N) | No | | | |
| Barrel General Rating | | 5 | 4 | |
| Downstream End | | | | |
| Culvert Component | | Last | Now | Explanation of Condition |
| Direction | | S | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | |
| Headwall | | X | X | |
| Collar | | X | X | |
| Wingwalls | | X | X | |
| (Shape :) | | | | |
| Cutoff Wall | | X | X | |
| Bevel End | | 5 | 5 | Minor dent at 11 o'clock |
| Heaving (mm) | 75 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 250 | | | |
| Scour Protection | | 5 | 5 | |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 200) | | | | |
| Scour/Erosion | | 5 | 5 | |
| Beavers (Y/N) | No | | | |
| Downstream End General Rating | | 5 | 5 | |
| Structure Usage | | | | |
| | | Last | Now | Explanation of Condition |
| Channel (U/S and D/S) | | | | |
| Alignment | | 8 | 8 | |
| Bank Stability | | 7 | 6 | |
| HWM (m below Top of Culvert) | | | | HWM not visible |
| Drift (Y/N) | No | | | |
| Channel Bottom Degrading/Aggrading | DEGRADING | | | |
| Beavers (Y/N) | No | | | |
| (Fish Compensation Measure 1 : NONE) | | | | |
| (Fish Compensation Measure 2 : NONE) | | | | |
| Channel General Rating | | 7 | 8 | |

| Maintenance Recommendations | | | | | | | |
|---|--|--|---------------------------|---------------|-----------|---------------------|----|
| Inspector Recommendations | Year | Inspector Comments | Department Comments | Target Year | Est. Cost | Cat # | |
| SHOTCRETE REPAIRS | | | | | | | |
| PLACE ADDITIONAL 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) (%) | 55.6/44.4 | Sufficiency Rating (Last/Now) (%) | 58.5/54.3 | Est. Repl. Yr | 2015 | Maint. Req'd. (Y/N) | No |
| Special Comments for Next Inspection | Monitor bulge on floor and culvert deflection. | | 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 | Eric Caroux | | Previous Assistant's Name | | | | |
| Next Inspection Date | 30-Aug-2015 | | Previous Inspection Date | 29-Aug-2008 | | | |
| Inspection Cycle (Default) (months) | 57 | | | | | | |
| Comment | | | | | | | |