

| Bridge Culvert Inspection | | | | |
|---------------------------|---------------------------------|--|---------------------|---------------|
| Bridge File Number | 73021 -1 Bridge Culvert | | Form Type | CUL1 |
| Year Built | 1986 | | Lot No. | 4 |
| Bridge or Town Name | BURDETT | | Inspector Name | Jason Rusu |
| Located Over | SMR - IRRIGATION C, WATERCRS-IC | | Inspector Class | BR CLS A |
| Located On | 879:04 C1 26.112 | | Assistant Name | |
| Water Body Cl./Year | | | Assistant Class | |
| Navigabil. Cl./Year | | | Inspection Date | 17-Mar-2012 |
| Legal Land Location | SW SEC 9 TWP 9 RGE 11 W4M | | Data Entry By | Lauren Korte |
| Longitude, Latitude | -111:26:59, 49:42:48 | | Data Entry Date | 11-Apr-2012 |
| Road Authority | Alberta Transportation (AIT) | | Reviewer Name | Garry Roberts |
| Contract Main. Area | CMA24 | | Review Date | 23-Mar-2012 |
| Clear Roadway/Skew | 8.5 / 10 deg. (RHF) | | Dept. Reviewer Name | Tim Davies |
| AADT/Year | 560 / 2011 (A) | | Dept. Review Date | 17-Apr-2012 |
| Road Classification | RCU-209-110 | | Follow-Up By | |
| Detour Length (km) | 3 | | | |

Bridge Culvert Information

| | | | | | | | | |
|--------------------------|--------|------|----------------|------|--------|---------------|--------------------|-------|
| Number of Culverts | 1 | | | | | | | |
| Pipe # | Barrel | Span | Rise (or Dia.) | Type | Length | Corr. Profile | PI./Slab Thickness | Shape |
| 1 | MAIN | - | 1600 | MP | 43 | | | ROUND |
| Special Features | | | | | | | | |
| Special Features Comment | | | | | | | | |

Utilities (Located at)

| | | | | | | | |
|---------------------|-------------------------------|--|--|---------------|-------------------------------|--|--|
| Utility Attachments | | | | | | | |
| Telephone | East side. | | | Gas | x's rd approx 30m North & x's | | |
| Power | | | | Municipal | Canal 10m from East end. | | |
| Others | Fibre Optic cable East ditch. | | | Problem (Y/N) | No | | |
| Remarks | | | | | | | |

Approach Road / Embankment

| | Last | Now | Explanation of Condition |
|--|----------|----------|--------------------------|
| Horizontal Alignment | 9 | 9 | |
| Vertical Alignment | 8 | 8 | |
| Roadway Width (m) | 8.500 | | |
| Embankment | 8 | 8 | |
| Sideslope (_ :1) | 3.0 | | |
| (Height of Cover(m) : 1.6) | | | |
| Guardrail (Y/N) | No | | |
| Approach Road / Embankment General Rating | 8 | 8 | |

Upstream End

| Culvert Component | Last | Now | Explanation of Condition |
|---|-------|-----|--------------------------|
| Direction | | | West. |
| 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 | | X | 7 | |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 100 | | | |
| Scour Protection | | N | 7 | |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 300) | | | | |
| Scour/Erosion | | N | 7 | |
| Beavers (Y/N) | No | | | |
| Upstream End General Rating | | 7 | 7 | |
| Bridge Culvert Barrel | | | | |
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 1600 , Type: MP) | | | | |
| Barrel Last Accessible Date | 17-Mar-2012 | | | |
| Special Features | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Roof | | N | 7 | |
| Measured Rise (mm) | 1585 | | | |
| Measured At Ring No. | 3 | | | |
| Sag (mm) | 15 | | | |
| Percent Sag | 1 | | | |
| Sidewall | | N | 7 | |
| Measured Span (mm) | 1600 | | | |
| Measured At Ring No. | 3 | | | |
| Deflection (mm) | 0 | | | |
| Percent Deflection | 0 | | | |
| Floor | | N | 7 | |
| Bulge (mm) | 0 | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | No | | | |
| Circumferential Seams | | N | 7 | |
| Separation (mm) | 0 | | | |
| Longitudinal Seams | | X | X | |
| Total No. of Cracked Rings | 0 | | | |
| Total No. of Rings with Two Cracked Seams | 0 | | | |
| Min. Remaining Steel Between Cracks (mm) | 0 | | | |
| Proper Lap (Y/N) | | | | |
| Longitudinal Stagger (Y/N) | | | | |
| Coating | | N | 5 | |
| Corrosion By Soil (Y/N) | No | | | |
| Corrosion By Water (Y/N) | Yes | | | |
| Camber POS/ZERO/NEG | ZERO | | | |
| Ponding (Y/N) | No | | | |

| Bridge Culvert Barrel | | | | |
|---|-----------|----------|----------|--------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1600, Type: MP) | | | | |
| Fish Passage Adequacy | | X | X | |
| Baffle | | X | X | |
| (Type :) | | | | |
| Waterway Adequacy | | N | 7 | |
| Icing (Y/N) | No | | | |
| Silting (Y/N) | No | | | |
| Drift (Y/N) | No | | | |
| Barrel General Rating | | N | 7 | |
| Downstream End | | | | |
| Culvert Component | | Last | Now | Explanation of Condition |
| Direction | | | | East. |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | |
| Headwall | | X | X | |
| Collar | | X | X | |
| Wingwalls | | X | X | |
| (Shape :) | | | | |
| Cutoff Wall | | X | X | |
| Bevel End | | X | 7 | |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 150 | | | |
| Scour Protection | | N | 7 | |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 300) | | | | |
| Scour/Erosion | | N | 7 | |
| Beavers (Y/N) | No | | | |
| Downstream End General Rating | | 7 | 7 | |
| Structure Usage | | | | |
| | | Last | Now | Explanation of Condition |
| Channel (U/S and D/S) | | | | |
| Alignment | | 8 | 8 | |
| Bank Stability | | N | 7 | |
| HWM (m below Top of Culvert) | | | | |
| Drift (Y/N) | No | | | |
| Channel Bottom Degrading/Aggrading | AGGRADING | | | |
| Beavers (Y/N) | No | | | |
| (Fish Compensation Measure 1 : NONE) | | | | |
| (Fish Compensation Measure 2 : NONE) | | | | |
| Channel General Rating | | 8 | 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) (%) | 55.6/77.8 | Sufficiency Rating (Last/Now) (%) | 73.8/77.5 | Est. Repl. Yr | 2035 | Maint. Req. (Y/N) | No |
| 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 | Tim Davies | | Previous Assistant's Name | | | | |
| Next Inspection Date | 17-Jun-2015 | | Previous Inspection Date | 11-Feb-2009 | | | |
| Inspection Cycle (Default) (months) | 39 | | | | | | |
| Comment | | | | | | | |