

| Bridge Culvert Inspection | | | |
|---------------------------|------------------------------|---------------------|-----------------|
| Bridge File Number | 85000 -2 Bridge Culvert | Form Type | CUL1 |
| Year Built | 2002 | Lot No. | 4 |
| Bridge or Town Name | BON ACCORD | Inspector Name | Kris Bosters |
| Located Over | WATERCOURSE, WATERCRS-NI | Inspector Class | BR CLS A |
| Located On | 28:02 C1 24.932 | Assistant Name | Brian Cote |
| Water Body Cl./Year | | Assistant Class | |
| Navigabil. Cl./Year | | Inspection Date | 10-Apr-2012 |
| Legal Land Location | NW SEC 12 TWP 56 RGE 24 W4M | Data Entry By | Theresa Lacusta |
| Longitude, Latitude | -113:26:14, 53:49:57 | Data Entry Date | 08-May-2012 |
| Road Authority | Alberta Transportation (AIT) | Reviewer Name | Eric Carcoux |
| Contract Main. Area | CMA09 | Review Date | 25-Apr-2012 |
| Clear Roadway/Skew | 11.8 / 27 deg. (RHF) | Dept. Reviewer Name | Brent Herrick |
| AADT/Year | 6,120 / 2011 (A) | Dept. Review Date | 12-Jun-2012 |
| Road Classification | RAU-211.8-110 | Follow-Up By | |
| Detour Length (km) | 6 | | |

Bridge Culvert Information

| | | | | | | | | |
|--------------------------|--------|------|----------------|------|--------|---------------|--------------------|-------|
| Number of Culverts | 1 | | | | | | | |
| Pipe # | Barrel | Span | Rise (or Dia.) | Type | Length | Corr. Profile | PI./Slab Thickness | Shape |
| 1 | MAIN | - | 2000 | MP | 70 | 125X26 | 2.8 | ROUND |
| Special Features | | | | | | | | |
| Special Features Comment | | | | | | | | |

Utilities (Located at)

| | | | |
|---------------------|----------------------|---------------|----|
| Utility Attachments | | | |
| Telephone | North and South r/w. | Gas | |
| Power | 3 wires North r/w. | Municipal | |
| Others | | Problem (Y/N) | No |
| Remarks | File tag U/S. | | |

Approach Road / Embankment

| | | Last | Now | Explanation of Condition |
|--------------------------------------------------|--------|----------|----------|--------------------------|
| Horizontal Alignment | | 7 | 7 | Curve each direction. |
| Vertical Alignment | | 7 | 7 | In sag. |
| Roadway Width (m) | 12.900 | | | |
| Embankment | | 8 | 8 | |
| Sideslope (_ :1) | 4.0 | | | |
| (Height of Cover(m) : 4) | | | | |
| Guardrail (Y/N) | No | | | |
| Approach Road / Embankment General Rating | | 7 | 7 | |

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 | | 7 | 7 | |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 500 | | | |
| Scour Protection | | 7 | 7 | |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 200) | | | | |
| Scour/Erosion | | 7 | 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): 2000 , Type: MP) | | | | |
| Barrel Last Accessible Date | 22-Jun-2010 | | | Viewed from ends, looks good. |
| Special Features | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Roof | | 8 | N | cl |
| Measured Rise (mm) | 2010 | | | |
| Measured At Ring No. | | | | |
| Sag (mm) | 0 | | | |
| Percent Sag | | | | |
| Sidewall | | 8 | N | cl |
| Measured Span (mm) | 1994 | | | |
| Measured At Ring No. | | | | |
| Deflection (mm) | 6 | | | |
| Percent Deflection | 0 | | | |
| Floor | | N | N | Silt.-22-Jun-2010 |
| Bulge (mm) | 0 | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | No | | | |
| Circumferential Seams | | 7 | N | |
| Separation (mm) | 30 | | | |
| Longitudinal Seams | | X | X | |
| Total No. of Cracked Rings | | | | |
| Total No. of Rings with Two Cracked Seams | | | | |
| Min. Remaining Steel Between Cracks (mm) | | | | |
| Proper Lap (Y/N) | | | | |
| Longitudinal Stagger (Y/N) | | | | |
| Coating | | 7 | 7 | |
| 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): 2000, Type: MP) | | | | |
| Fish Passage Adequacy | | 7 | 7 | |
| Baffle | | X | X | |
| (Type :) | | | | |
| Waterway Adequacy | | 7 | 7 | (Silt - 22-Jun-2010) |
| Icing (Y/N) | No | | | |
| Silting (Y/N) | No | | | |
| Drift (Y/N) | No | | | |
| Barrel General Rating | | 8 | N | Last rated 8 on 22-Jun-2010 |
| 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 | | 8 | 8 | |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | | BELOW | | |
| Above/Below (mm) | 500 | | | |
| Scour Protection | | 7 | 7 | |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 200) | | | | |
| Scour/Erosion | | 7 | 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 | | 7 | 7 | |
| Bank Stability | | 7 | 7 | |
| HWM (m below Top of Culvert) | | | | HWM not visible. |
| Drift (Y/N) | | No | | |
| Channel Bottom Degrading/Aggrading | | NONE | | |
| Beavers (Y/N) | | No | | |
| (Fish Compensation Measure 1 : NONE) | | | | |
| (Fish Compensation Measure 2 : NONE) | | | | |
| Channel General Rating | | 7 | 7 | |

| 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) (%) | 88.9/55.6 | Sufficiency Rating (Last/Now) (%) | 80.5/62.5 | Est. Repl. Yr | 2060 | 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 | Arnold Assenheimer | | Previous Assistant's Name | | | | |
| Next Inspection Date | 10-Jan-2014 | | Previous Inspection Date | 22-Jun-2010 | | | |
| Inspection Cycle (Default) (months) | 21 | | | | | | |
| Comment | | | | | | | |