| | | | | | Brida | e Culve | ort Insne | ection | | | | | | |
|--|----------|-----------|---------------------------------------|-----------------------------|--------|----------------|---|-------------------------|--------------|---------------|-----------------------|-----------|--|--|
| Bridge File Nu | mber | | | | | je eurr | Ivert Inspection Form Type | | | CULM | | | | |
| Year Built 1968 | | | | | | Lot No. | | 4 | | | | | | |
| Bridge or Towr | | | | Inspector Name | | Garry Roberts | | | | | | | | |
| | | | | CREEK, 2.13.63, WATERCRS-ST | | | Inspector Class | | BR CLS A | | | | | |
| Located On | | | | | | Assistant Name | | | | | | | | |
| Water Body Cl./Year | | | | | | | Assistant Class | | | | | | | |
| Navigabil. CI./ | | | | | | | | Inspection Date | | 08-Feb-2012 | | | | |
| Legal Land Lo | | SW SEC | | | | | Data Entry By | | Lauren Korte | | | | | |
| | | | | | | | | ntry Date | | 16-Mar-2012 | | | | |
| | | | | | | | | Reviewer Name | | Tom Carey | | | | |
| | | | | | | | Review Date | | | 22-Feb-2012 | | | | |
| Clear Roadway/Skew 7.2 / | | | | | | | | | Tim Davies | | | | | |
| AADT/Year | y/ Ontow | 1.27 | | | | | Dept. Review Date | | 22-Mar-2012 | | | | | |
| Road Classific | ation | RLU-208 | 3-100 | | | | Follow | | 0 | | | | | |
| Detour Length | | 1 | , 100 | | | | | op Dy | | | | | | |
| Bridge Culver | | | | | | | I | | | <u> </u> | | | | |
| Number of Cul | | 2 | 2 | | | | | | | | | | | |
| Pipe # | Barrel | | Span | Rise (or | Dia.) | Туре | | Length | | Corr. Profile | Pl./Slab Thickness | Shape | | |
| 1 | MAIN | 4 | 260 | 2940 | | RPP | | 31.7 | | 152X51 | 4.0 | PIPE ARCH | | |
| 2 | MAIN | 4 | 260 | 2940 | | RPP | | 31.7 | | 152X51 | 4.0 | PIPE ARCH | | |
| Special Featur | es | | | | | | | | | | | | | |
| Special Featur | | ment | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | Uti | ilities (L | ocated | at) | | | | | | |
| Utility Attachm | | | | | | | | | | | | | | |
| Telephone | | | & Roof of East Pipe. | | | | | Gas ATCO-15mS of pipes. | | | | | | |
| Power | 60m E | East-4Wes | | | Munici | | | | | | | | | |
| Others | | | | | Proble | m (Y/N) | No | | | | | | | |
| Remarks | | | | | | | | | | | | | | |
| | | | | A | | | Road / Embankment low Explanation of Condition | | | | | | | |
| Horizontal Alig | nment | | | | 7 | 7 | Off ramp E/B. | | | | | | | |
| Vertical Alignm | | | | | 6 | 6 | One way traffic. | | | | | | | |
| Roadway Widt | | | 7.200 | | 0 | 0 | | | | | | | | |
| Embankment | | | | | 6 | 6 | To 2.1 | @ Bevels. | | | | | | |
| Sideslope (| .1) | | 4.0 | | 0 | 0 | 6:1 @ South. | | | | | | | |
| (Height of Co | · · · | 1.4) | 1.0 | | | | | | | | | | | |
| Guardrail (Y/N) | | | Yes | | | | | | | | | | | |
| Approach Roa | ad / Eml | bankmen | t General Rat | ing | 6 | 6 | | | | | | | | |
| | | | | | | Unstre | am End | | | | | | | |
| Culvert Comp | onent | | | | Last | | | ation of C | ondi | tion | | | | |
| (Pipe # : 1, Sp | | e: Primar | v Span) | | | | | | | | | | | |
| Direction | - 7 - 7 | | · · · · · · · · · · · · · · · · · · · | | | | South | end of East | pipe | | | | | |
| End Treatment (Concrete, Steel, STEEL Others, None) | | | | | | | | | | | | | | |
| Headwall | | | Х | X | | | | | | | | | | |
| Collar | | | X | X | | | | | | | | | | |
| Wingwalls | | | | X | X | <u> </u> | | | | | | | | |
| (Shape :) | | | | | | |] | | | | | | | |
| / | | | | | | | | | | | | | | |

| | | | | am End |
|--|--------------------|---------|----------|--|
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Span Type: Primary | / Span) | | | |
| Cutoff Wall | | X | X | |
| Bevel End | | 7 | 7 | |
| Heaving (mm) | 200 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 100 | | | |
| Scour Protection | | 8 | 8 | |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 350) | | | | |
| Scour/Erosion | | 8 | 8 | |
| Beavers (Y/N) | No | | | |
| Upstream End General Rating | | 7 | 7 | |
| | | | | |
| Culvort Component | | | | Ivert Barrel |
| Culvert Component | tion Code: MAINL C | | | Explanation of Condition |
| (Pipe # : 1, Primary Span, Loca | | pan (mm | 1): 4260 | |
| Barrel Last Accessible Date | 08-Feb-2012 | | | East pipe- Handles 70% of flow. |
| Special Features | | | _ | |
| Special Feature | | | | - |
| (Type:) | | | | - |
| Special Feature | | | | - |
| (Туре :) | | | | |
| Roof | | 6 | 6 | Holes in roof from Conduit ring 2 and 7. |
| Measured Rise (mm) | 2800 | | | _ |
| Measured At Ring No. | 5 | | | _ |
| Sag (mm) | 140 | | | - |
| Percent Sag | 4 | | | |
| Sidewall | 1 | 7 | 7 | _ |
| Measured Span (mm) | 4300 | | | _ |
| Measured At Ring No. | 5 | | | _ |
| Deflection (mm) | 40 | | | _ |
| Percent Deflection | 1 | | | |
| Floor | | 6 | 6 | |
| Bulge (mm) | 50 | | | |
| Measured At Ring No. | 4 | | | - |
| Abrasion (Y/N) | Yes | | | |
| Circumferential Seams | 1 | 7 | 7 | |
| Separation (mm) | 0 | | | |
| Longitudinal Seams | | 7 | 7 | |
| Total No. of Cracked Rings | 0 | | | |
| Total No. of Rings with Two Cracked Seams | | | | |
| Min. Remaining Steel Between Cracks (mm) | | | | |
| Proper Lap (Y/N) | No | | | |
| Longitudinal Stagger (Y/N) | No | | | |
| Coating | | 5 | 5 | Superficial corrosion @ Floor. |
| Corrosion By Soil (Y/N) | Yes | | | Minor soil corrosion at upper seams. |
| Corrosion By Water (Y/N) | Yes | | | |

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

74663 SC-3 Bridge Culvert

| Bridge Culvert Barrel | | | | | | | | | |
|---|----------------------|-------|---------|--|--|--|--|--|--|
| Culvert Component | | Last | Now | Explanation of Condition | | | | | |
| (Pipe # : 1, Primary Span, Loca | tion Code: MAIN, Spa | n (mm |): 4260 | , Rise (mm): 2940, Type: RPP) | | | | | |
| Camber POS/ZERO/NEG | ZERO | | | | | | | | |
| Ponding (Y/N) | No | | | | | | | | |
| Fish Passage Adequacy | | 5 | 5 | Takes 90% of flow. | | | | | |
| Baffle | | Х | X | | | | | | |
| (Туре :) | | 1 | | | | | | | |
| Waterway Adequacy | I | 7 | 7 | | | | | | |
| Icing (Y/N) | No | | | | | | | | |
| Silting (Y/N) | No | | | | | | | | |
| Drift (Y/N) | No | | | | | | | | |
| Barrel General Rating | | 6 | 6 | | | | | | |
| | | | | eam End | | | | | |
| Culvert Component | (Spop) | Last | Now | Explanation of Condition | | | | | |
| (Pipe # : 1, Span Type: Primary | o span) | | | North and of Fact size | | | | | |
| Direction End Treatment (Concrete, Steel, | STEEL | | | North end of East pipe. | | | | | |
| Others, None) | | X | X | | | | | | |
| Headwall | | X | X | | | | | | |
| Collar | | X | X | | | | | | |
| Wingwalls | | X | X | | | | | | |
| (Shape :) | | | | | | | | | |
| Cutoff Wall | | Х | X | | | | | | |
| Bevel End | | 7 | 7 | | | | | | |
| Heaving (mm) | 0 | | | | | | | | |
| Invert Above/Below Stream Bed | ABOVE | | | | | | | | |
| Above/Below (mm) | 600 | | | | | | | | |
| Scour Protection | | 4 | 4 | | | | | | |
| (Type : RIP RAP) | | | | | | | | | |
| (Avg. Rock Size(mm) : 300) | | 1 | 1 | | | | | | |
| Scour/Erosion | | 4 | 4 | 1600mm DP Scour at D/S End - Rock lined. | | | | | |
| Beavers (Y/N) | No | | | | | | | | |
| Downstream End General Ratin | ng | 4 | 4 | | | | | | |
| | | | Upstre | am End | | | | | |
| Culvert Component | | | Now | Explanation of Condition | | | | | |
| (Pipe # : 2, Span Type: Second | ary Span) | | | | | | | | |
| Direction | | | | South end of West pipe. | | | | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | | | | | | |
| Headwall | | Х | X | | | | | | |
| Collar | | Х | Х | | | | | | |
| Wingwalls | | Х | Х | | | | | | |
| (Shape :) | | | | | | | | | |
| Cutoff Wall | | X | X | | | | | | |

Alberta Transportation

| Upstream End | | | | | | | | |
|--|-------------------|-----------|--------|--------------------------------------|--|--|--|--|
| Culvert Component | | | | Explanation of Condition | | | | |
| (Pipe # : 2, Span Type: Second | lary Span) | | | | | | | |
| Bevel End | | 7 | 7 | | | | | |
| Heaving (mm) | 200 | | | | | | | |
| Invert Above/Below Stream Bed | ABOVE | | | | | | | |
| Above/Below (mm) | 600 | | | | | | | |
| Scour Protection | | 8 | 8 | | | | | |
| (Type : RIP RAP) | | | | | | | | |
| (Avg. Rock Size(mm) : 350) | | | | | | | | |
| Scour/Erosion | | 8 | 8 | | | | | |
| Beavers (Y/N) | No | | | | | | | |
| Upstream End General Rating | | 7 | 7 | | | | | |
| | | Brid | dao Cu | lvert Barrel | | | | |
| Culvert Component | | | | Explanation of Condition | | | | |
| | cation Code: MAIN | | | 260, Rise (mm): 2940, Type: RPP) | | | | |
| Barrel Last Accessible Date | 08-Feb-2012 | , opun (i | | West pipe. | | | | |
| | | | | 11001 hihe. | | | | |
| Special Features | | | | | | | | |
| Special Feature | | | | | | | | |
| (Туре :) | | | | | | | | |
| Special Feature | | | | | | | | |
| (Type :) | | | | | | | | |
| Roof | | 6 | 5 | | | | | |
| Measured Rise (mm) | 2750 | | | | | | | |
| Measured At Ring No. | 4 | | | | | | | |
| Sag (mm) | 190 | | | | | | | |
| Percent Sag | 6 | | | | | | | |
| Sidewall | | 7 | 7 | | | | | |
| Measured Span (mm) | 4300 | | | | | | | |
| Measured At Ring No. | 5 | | | | | | | |
| Deflection (mm) | 40 | | | | | | | |
| Percent Deflection | 1 | | | | | | | |
| Floor | | 6 | 6 | | | | | |
| Bulge (mm) | 0 | | | | | | | |
| Measured At Ring No. | | | | | | | | |
| Abrasion (Y/N) | Yes | | | | | | | |
| Circumferential Seams | | 7 | 7 | | | | | |
| Separation (mm) | 0 | | | | | | | |
| Longitudinal Seams | | 7 | 7 | | | | | |
| Total No. of Cracked Rings | 0 | | | 1 | | | | |
| Total No. of Rings with Two Cracked Seams | 0 | | | | | | | |
| Min. Remaining Steel Between Cracks (mm) | | | | 1 | | | | |
| Proper Lap (Y/N) | No | | | 1 | | | | |
| Longitudinal Stagger (Y/N) | No | | | 1 | | | | |
| Coating | | 5 | 5 | Minor soil corrosion at upper seams. | | | | |
| Corrosion By Soil (Y/N) | Yes | U | 5 | | | | | |
| Corrosion By Water (Y/N) | Yes | | | Superficial Corrosion @ floor. | | | | |
| Camber POS/ZERO/NEG | NEG | | | | | | | |
| | | | | | | | | |

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

74663 SC-3 Bridge Culvert

| | | 1 | | Ivert Barrel |
|---|-----------------------|---------|---------|----------------------------------|
| Culvert Component | | | | Explanation of Condition |
| | ocation Code: MAIN, S | Span (r | nm): 42 | 260, Rise (mm): 2940, Type: RPP) |
| Ponding (Y/N) | No | | | |
| Fish Passage Adequacy | | 5 | 6 | Only takes 10% of flow. |
| Baffle | | Х | X | |
| (Type :) | | | | |
| Waterway Adequacy | | 7 | 7 | |
| Icing (Y/N) | No | | | - |
| Silting (Y/N) | No | | | - |
| Drift (Y/N) | No | | _ | |
| Barrel General Rating | | 6 | 5 | |
| | | D | ownstr | ream End |
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 2, Span Type: Second | lary Span) | | | |
| Direction | | | | North end of West pipe. |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | |
| Headwall | | X | X | |
| Collar | | | Х | |
| Wingwalls | | Х | Х | |
| (Shape :) | | | | |
| Cutoff Wall | | X | X | |
| Bevel End | | 7 | 7 | |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | ABOVE | | | |
| Above/Below (mm) | 500 | | | |
| Scour Protection | | 4 | 4 | _ |
| (Type : RIP RAP) | | | | _ |
| (Avg. Rock Size(mm) : 300) | | | | |
| Scour/Erosion | | 4 | 4 | 1m deep scour. Rock lined. |
| Beavers (Y/N) | No | | | |
| Downstream End General Ration | ng | 4 | 4 | |
| | | s | Structu | re Usage |
| | | Last | Now | Explanation of Condition |
| Channel (U/S and D/S) | | | | |
| Alignment | | 6 | 6 | Gentle curves both ends. |
| Bank Stability | | 7 | 7 | |
| HWM (m below Top of Culvert) | 1.2 | | | No visible HWM. |
| Drift (Y/N) | No | | | |
| Channel Bottom Degrading/Aggrading | | | | |
| Beavers (Y/N) | No | | | |
| (Fish Compensation Measure 1 : | NONE) | | | |
| (Fish Compensation Measure 2 : | NONE) | | | |
| Channel General Rating | | 6 | 6 | |

| Maintenance Recommendations | | | | | | | | | | | | |
|---|---------|----------|-------------------------------------|------------|-----------------------------------|---------------|----------------|-----------------|-----------|----|--|--|
| Inspector Recommendations | | Year | Inspector Comments | | Department Com | Target Year | Est. Cost | Cat # | | | | |
| SHOTCRETE REPAIRS | | | | | | | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | | | | | | |
| INSTALL CONCRETE/STEEL LINING | | | | | | | | | | | | |
| INSTALL STRUTS | | | | | | | | | | | | |
| INSTALL CONCRETE COLLAR/CUTC |)FF | | | | | | | | | | | |
| REPAIR SEAMS | | | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | | | |
| Structural Condition Rating (Last/No (%) | ow) | 66.7/55. | 6 Sufficiency Rating (Last/N (%) | ow) 6 | 64.6/64.7 | Est. Repl. Yr | 2025 Maint. Re | | qd. (Y/N) | No | | |
| Special Comments for Next Inspection | | | | | 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 | Garry F | Roberts | | Previous / | evious Assistant's Name | | | | | | | |
| Next Inspection Date 08-N | | /-2013 | | Previous I | rious Inspection Date 27-Sep-2010 | | | | | | | |
| Inspection Cycle (Default) (months) | 21 | | | | | | | | | | | |
| Comment | | | | | | | | | | | | |