| | | | | | Bridg | e Culve | ert Inspe | ection | | | | | | |
|---|--|----------|---------------|------------|---------------|-------------|---------------------|------------------------------------|---------------|-----------------------|-----------|--|--|--|
| Bridge File Nun | Bridge File Number 74608 -1 Bridge Culvert | | | | | | Form Type | | CUL1 | CUL1 | | | | |
| Year Built | Built 1957 | | | | | | Lot No. | | 2 | 2 | | | | |
| Bridge or Town Name MORLEY | | | | | | | Inspect | or Name | Garry Roberts | Garry Roberts | | | | |
| Located Over TRAIL-ANIMAL, OVER SP | | | | | | | Inspect | or Class | BR CLS A | | | | | |
| Located On 1:04 R1 24.603;1:04 L1 24.666 | | | | | | | Assista | nt Name | | | | | | |
| Water Body Cl./Year | | | | | | | Assista | nt Class | | | | | | |
| Navigabil. Cl./Y | 'ear | | | | | | Inspection Date | | 10-Feb-2012 | | | | | |
| Legal Land Loc | ation | NW SE | C 23 TWP | 25 RGE 6 W | 5M | | Data Entry By | | Lauren Korte | | | | | |
| Longitude, Latit | tude - | -114:44 | 4:27, 51:09:0 | 05 | | | Data E | ntry Date | 13-Mar-2012 | 13-Mar-2012 | | | | |
| Road Authority | | Alberta | Transporta | tion (AIT) | | | Review | er Name | Tom Carey | Tom Carey | | | | |
| Contract Main. | Area | CMA28 | 3 | | | | Review | Date | 21-Feb-2012 | 21-Feb-2012 | | | | |
| Clear Roadway | //Skew | 27.2 / | | | | | Dept. R | Reviewer Nar | ne Tim Davies | | | | | |
| AADT/Year | | 18,610 | / 2010 (A) | | | | Dept. R | Review Date | 22-Mar-2012 | | | | | |
| Road Classifica | ation | RAD-4 | 12.4-120 | | | | Follow- | Uр Ву | | | | | | |
| Detour Length | (km) | 1 | | | | | | | | | | | | |
| Bridge Culvert | Informa | ation | | | | | | | | | | | | |
| Number of Culv | /erts | | 1 | | | | | | | | | | | |
| Pipe # | Barrel | | Span | Rise (or | Dia.) | Туре | | Length | Corr. Profile | Pl./Slab Thickness | Shape | | | |
| 1 MAIN 2430 2430 | | ВР | | | 71.7 | | | RECTANGLE | | | | | | |
| Special Feature | es | | | | | | | | | | | | | |
| Special Feature | es Comm | nent | | | | | | | | | | | | |
| | | | | | Po | octing In | nformati | on | | | | | | |
| Required Vert. | Clearanc | na Post | ting (m) | | FQ | sung II | liorillau | On | | | | | | |
| | | | | | | | | | | | | | | |
| Posted Vertical Clearance (Y/N) Posted: Lane NB On Bridge (m) In Adv | | | | vance (| (Y/N) | 1: | ane SB | On Bridge (m) | In Advan | ce (Y/N) | | | | |
| Remarks | Not Re | | Bridge (m) | III7KG | varioo (| (1714) | | uno 02 | On Bridge (m) | iii / tavaii | 00 (1714) | | | |
| Homano | Hotric | rquir ou | | | Ufi | ilities (l | ocated | at) | | | | | | |
| Utility Attachme | ents | | | | <u> </u> | T volum | <u>-courca</u> | ut) | | | | | | |
| Telephone | In sout | h ditch | | | | | Gas | | | | | | | |
| Power | 000.1 | | · | | | | Municip | pal | | | | | | |
| Others | Fibre o | optic ca | ble-N ditch | | | | Probler | n (Y/N) No |) | | | | | |
| Remarks | 1 | | | | | | 1 100101 | (1111) | | | | | | |
| | | | | А | pproa | ch Road | d / Emba | ankment | | | | | | |
| | | | | | Last | Now | Explan | ation of Co | ndition | | | | | |
| Horizontal Align | nment | | | | 6 | 6 | | Steep grade with truck lane, curve | | | | | | |
| Vertical Alignme | ent | | | | 5 | 5 | to the e Limited | | | | | | | |
| Roadway Width (m) 27.200 | | | | Liiiitod | oight diotain | 00 10 110 2 | | | | | | | | |
| Embankment | | | | | 7 | 7 | | | | | | | | |
| Sideslope (| ·1) | | 3.5 | | | | | | | | | | | |
| (Height of Co | · | 0.9) | 0.0 | | | | | | | | | | | |
| Guardrail (Y/N) | | <u> </u> | Yes | | | | | | | | | | | |
| Approach Roa | id / Emb | ankme | ent General | Rating | 5 | 5 | | | | | | | | |
| | | | | | | Upstre | am End | | | | | | | |
| Culvert Compo | onent | | | | Last | Now | | | | | | | | |
| Direction | | | | | | | | S end | | | | | | |
| End Treatment Others, None) | (Concre | te, Stee | el, CONCR | ETE | | | | | | | | | | |
| Headwall | | | 5 | 5 | | | | | | | | | | |

74608 -1 Bridge Culvert

| | | | Upstre | am End |
|---|----------------------|------|----------|---|
| Culvert Component | | Last | Now | Explanation of Condition |
| Collar | | Х | X | |
| Wingwalls | | 3 | 3 | Spalling along top edges and sides. |
| (Shape:) | | | | |
| Cutoff Wall | | X | X | |
| Bevel End | | Х | Х | |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 100 | | | |
| Scour Protection | | Х | Х | |
| (Type: NATURAL) | | | | |
| (Avg. Rock Size(mm):) | | | | |
| Scour/Erosion | | Х | X | |
| Beavers (Y/N) | No | | | |
| Upstream End General Rating | | 3 | 3 | |
| | | Brid | dae Cu | lvert Barrel |
| Culvert Component | | | | Explanation of Condition |
| (Pipe # : 1, Primary Span, Loca | tion Code: MAIN, Spa | | | |
| Barrel Last Accessible Date | 10-Feb-2012 | | <u>,</u> | ,, |
| Special Features | | | | |
| Special Feature | | | | |
| (Type:) | | | | |
| Special Feature | | | | |
| (Type:) | | | | |
| Roof | | 5 | 6 | First 2.0 m from south end has alkaline & rust stains & MED |
| Measured Rise (mm) | | | | SCALING @ roof |
| Measured At Ring No. | | | | |
| Sag (mm) | 0 | | | |
| Percent Sag | | | | |
| Sidewall | | 7 | 7 | |
| Measured Span (mm) | | | | |
| Measured At Ring No. | | | | |
| Deflection (mm) | 0 | | | |
| Percent Deflection | | | | |
| Floor | | N | 7 | |
| Bulge (mm) | 0 | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | No | | | |
| Circumferential Seams | | 6 | 7 | |
| Separation (mm) | 30 | | | |
| Longitudinal Seams | | Х | Х | |
| 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) | | | | |

| | | Brid | dge Cul | lvert Barrel | | | | |
|---|----------------------|-------|----------|---|--|--|--|--|
| Culvert Component | | Last | Now | Explanation of Condition | | | | |
| (Pipe #: 1, Primary Span, Loca | tion Code: MAIN, Spa | n (mm |): 2430 | , Rise (mm): 2430, Type: BP) | | | | |
| Coating | | X | X | | | | | |
| Corrosion By Soil (Y/N) | No | | | | | | | |
| Corrosion By Water (Y/N) | No | | | | | | | |
| Camber POS/ZERO/NEG | ZERO | | | | | | | |
| Ponding (Y/N) | No | | | | | | | |
| Fish Passage Adequacy | | Х | Х | | | | | |
| Baffle | | Х | Х | | | | | |
| (Type:) | | | | | | | | |
| Waterway Adequacy | | 7 | 7 | Handles drainage. | | | | |
| Icing (Y/N) | No | | | | | | | |
| Silting (Y/N) | No | | | | | | | |
| Drift (Y/N) | No | | | | | | | |
| Barrel General Rating | | 5 | 6 | | | | | |
| | | D | ownstr | eam End | | | | |
| Culvert Component | | | Now | Explanation of Condition | | | | |
| Direction | | | | North end | | | | |
| End Treatment (Concrete, Steel, Others, None) | CONCRETE | | | | | | | |
| Headwall | | 6 | 6 | | | | | |
| Collar | | Х | Х | | | | | |
| Wingwalls | | 4 | 4 | 1 mm DIAGONAL CRACKS @ NE. MOVING AWAY FROM | | | | |
| (Shape:) | | | | BARREL @ NE TO 100 mm & @ NW TO 70mm. | | | | |
| Cutoff Wall | | Х | Х | | | | | |
| Bevel End | | Х | X | | | | | |
| Heaving (mm) | 0 | - 1 | | | | | | |
| Invert Above/Below Stream Bed | BELOW | | | | | | | |
| Above/Below (mm) | 100 | | | | | | | |
| Scour Protection | | Х | 4 | | | | | |
| (Type : NATURAL) | | | | | | | | |
| (Avg. Rock Size(mm):) | | | | | | | | |
| Scour/Erosion | | Х | 4 | Loss of fill -1m deep | | | | |
| Beavers (Y/N) | No | | | | | | | |
| Downstream End General Ratio | ng | 4 | 4 | | | | | |
| | | | Structur | re Usage | | | | |
| | | | Now | Explanation of Condition | | | | |
| Grade Separation | I | Luot | 11011 | Expandion of condition | | | | |
| Road Alignment | | Х | Х | | | | | |
| Roadway Surface | | 6 | 5 | | | | | |
| (Type:) | | | | | | | | |
| Icing (Y/N) | No | | | | | | | |
| Traffic Safety Features | | X | Х | | | | | |
| Type | | | | | | | | |
| .,,,,,, | 1 | | | 1 | | | | |

| Structure Usage | | | | | | | | |
|---------------------------------|--|------|-----|------------------------------------|--|--|--|--|
| | | Last | Now | Explanation of Condition | | | | |
| Lighting | | Х | X | | | | | |
| Barrel Leakage (Y/N) Yes | | | | | | | | |
| Drainage | | 4 | 5 | 900mm CSP located 10m E of d/s end | | | | |
| Structure In Use (Y/N) Yes | | | | | | | | |
| Grade Separation General Rating | | | 5 | | | | | |

| | | | Maintenance | e Recommend | dations | | | | | |
|--|---------|---|--|----------------|---------------------------|---------------|-----------|----------------|-----------|-----|
| Inspector Recommendations | \ | Year Inspector Comments | | | Department Con | Target Year | Est. Cost | Cat # | | |
| SHOTCRETE REPAIRS | | | | | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | | | | |
| INSTALL CONCRETE/STEEL LINING | 3 | | | | | | | | | |
| INSTALL STRUTS | | | | | | | | | | |
| INSTALL CONCRETE COLLAR/CUT | OFF | | | | | | | | | |
| REPAIR SEAMS | | 2012 | Install 12" wide steel plates at Nowing seam | orth barrel to | | | | | | |
| OTHER ACTION | | 2012 | Fill void at NE- 3m3 pit run. | | | | | | | |
| OTHER ACTION | | 2012 | Repour South wingwalls- approx | 20m2 | | | | | | |
| OTHER ACTION | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | | y) 55.6/66.7 Sufficiency Rating (Last (%) | | ast/Now) | 55.6/61.5 | Est. Repl. Yr | 2024 | Maint. Re | qd. (Y/N) | Yes |
| Special Comments for Next Inspection | | | | | Department Comments | | | | | |
| Maintenance Reviewed By | | | | | Date | | E | Estimated Tota | 1 0 | |
| Proposed Long-Term Strategy | | | | | | | | | | |
| On 3-Year Program (Y/N) | | | | | | | | | | |
| Proposed Action | | | | | | | | | | |
| Previous Inspector's Name Garry | | Garry Roberts | | | Previous Assistant's Name | | | | | |
| Next Inspection Date | 10-Nov- | 2013 | | Previous | Inspection Date | | | | | |
| Inspection Cycle (Default) (months) | 21 | | | | | | | | | |
| Comment | | | | | | | | | | |