02294 -1 Bridge Culvert

| | | | | | Bridg | e Culve | | | | | | | | |
|---|---------|----------|----------------|----------|---|-------------------|---------------------|-------------|---------------|-----------------|-----------------------|-------|--|--|
| Bridge File Nun | | | 1 Bridge Culve | rt | | | Form Type | | CUL1 | | | | | |
| Year Built | | 1953 | | | | | Lot No. | | 3 | | | | | |
| Bridge or Town | | | | | | | | tor Name | ! | Owen Salava | | | | |
| Located Over | | | SON CK, 3.88. | 10, WATE | RCRS | S-ST | Inspector Class | | | BR CLS A | | | | |
| Located On | | 11:12 C | 1 2.138 | | | | Assista | int Name | | | | | | |
| Water Body Cl. | | | | | | | Assistant Class | | | | | | | |
| Navigabil. Cl./Y | 'ear | | | | | | Inspection Date | | 01-Feb-2012 | | | | | |
| Legal Land Loc | ation | SW SE | C 2 TWP 39 RC | SE 3 W5N | / | | Data E | ntry By | | Marcia Chavez | | | | |
| Longitude, Latit | tude - | -114:19 | :48, 52:19:09 | | | | Data E | ntry Date |) | 01-Mar-2012 | | | | |
| Road Authority | | Alberta | Transportation | (AIT) | | | Review | er Name |) | John O'Brien | | | | |
| Contract Main. | Area | CMA19 | | | | | Review | / Date | | 22-Feb-2012 | | | | |
| Clear Roadway/Skew 10.8 / 0 de AADT/Year 5,740 / 20/Road Classification RAU-211.8 | | | deg. | | | | Dept. Reviewer Name | | Andrew Smikle | es | | | | |
| Road Classification RAU-211.8 Detour Length (km) 6 Bridge Culvert Information Number of Culverts 1 | | 2010 (A) | | | | Dept. Review Date | | 09-Mar-2012 | | | | | | |
| Road Classification RAU-211. Detour Length (km) 6 | | | | | | Follow-Up By | | | | | | | | |
| Detour Length (km) 6 | | | | | | | | , , | | | | | | |
| 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 | | - | 1810 | | SP | | 27.4 | | 152X51 | | ROUND | | |
| Special Feature | es | | | | | | | | | | | | | |
| Special Feature | | nent | | | | | | | | | | | | |
| · | | | | | | | | | | | | | | |
| | | | | | Ut | ilities (L | ocated. | at) | | | | | | |
| | ents | | | | | | ı | | 1 | | | | | |
| Telephone | South | r/w. | | | | | Gas | | | | | | | |
| Utility Attachments Telephone South r/w. Power Others Fibre optic North r/w. Remarks | | | | | Municip | oal | | | | | | | | |
| Others Fibre optic North r/w. | | | | | Problem (Y/N) No | | | | | | | | | |
| Remarks | | | | | | | | | | | | | | |
| | | | | A | | | | ankment | | | | | | |
| | | | Last | Now | Explanation of Condition Hill 300m West. | | | | | | | | | |
| | | | | | 9 | 9 | Hill 300 | m West. | | | | | | |
| Vertical Alignm | | | | | 8 | 8 | | | | | | | | |
| | | 10.800 | | | | | | | | | | | | |
| Embankment | | | | | 6 | 6 | Wide A | CP trans | verse (| crack over pipe | - sealed. | | | |
| Sideslope (| _:1) | | 4.0 | | | | | | | | | | | |
| (Height of Co | ver(m): | 1.8) | | | | | | | | | | | | |
| Guardrail (Y/N) | | | No | | | | | | | | | | | |
| Approach Roa | d / Emb | ankmer | nt General Rat | ing | 8 | 8 | | | | | | | | |
| | | | | | | Upstre | am End | | | | | | | |
| Culvert Compo | onent | | | | Last | Now | Explan | ation of | Condi | tion | | | | |
| Direction | | | | | N | | | | | | | | | |
| End Treatment Others, None) | (Concre | te, Stee | I, STEEL | | | | | | | | | | | |
| Others, None) Headwall | | Х | Х | | | | | | | | | | | |
| Collar | | | Х | Х | | | | | | | | | | |
| Wingwalls | | | Х | Х | | | | | | | | | | |
| (Shape:) | | | | | | | | | | | | | | |
| Cutoff Wall | | | | | Х | Х | | | | | | | | |

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| | | | Unstre | am End |
|--|-------------------|------|-------------|---|
| Culvert Component | | Last | Now | Explanation of Condition |
| Bevel End | | 4 | N | (Damaged by hoe, torn on West side, two places, minor. Top of |
| Heaving (mm) | 200 | | | bevel bent inwards. 30Mar2010). Snow covered. |
| Invert Above/Below Stream Bed | | | | |
| Above/Below (mm) | 0 | | | |
| Scour Protection | | 5 | N | Snow covered. |
| (Type : NATURAL) | | | | |
| (Avg. Rock Size(mm):) | | | | |
| Scour/Erosion | | 5 | N | (Minor shoulder erosion starting as old riprap washed out. |
| | | | 30Mar2010). | |
| Beavers (Y/N) | Yes | | | Beaver grate. |
| Upstream End General Rating | | 4 | 4 | GR carried forward from 30Mar2010. |
| | | Dric | dae Cu | lvert Barrel |
| Culvert Component | | | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Locat | tion Code: MAIN S | | | , Rise (mm): 1810, Type: SP) |
| Barrel Last Accessible Date | 01-Feb-2012 | | ,- | , () |
| | | | | |
| Special Features | | | 1 | |
| Special Feature | | | | |
| (Type:) | | | 1 | |
| Special Feature | | | | |
| (Type:) | | | 1 | |
| Roof | I | 6 | 6 | Unable to measure due to ice. |
| Measured Rise (mm) | 1860 | | | |
| Measured At Ring No. | 6 | | | |
| Sag (mm) | 50 | | | |
| Percent Sag | 2 | | | |
| Sidewall | I | 6 | 6 | (Large hole in sidewall at inlet - photo. No infiltration, construction damage. 30Mar2010). |
| Measured Span (mm) | 1870 | | | Small isolated holes in sidewall. |
| Measured At Ring No. | 6 | | | |
| Deflection (mm) | 60 | | | 3.3% |
| Percent Deflection | 3 | | | |
| Floor | | 6 | N | (Some rocks washed into barrel floor. 30Mar2010). |
| Bulge (mm) | 0 | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | No | | | |
| Circumferential Seams | | 7 | 7 | |
| Separation (mm) | 0 | | | |
| Longitudinal Seams | | 7 | 7 | |
| Total No. of Cracked Rings | 0 | | | |
| Total No. of Rings with Two Cracked Seams | | | | 1N |
| Min. Remaining Steel Between Cracks (mm) | | | | |
| Proper Lap (Y/N) | No | | | |
| Longitudinal Stagger (Y/N) | Yes | | | |
| Coating | | 4 | 4 | Minor superficial rust on lower sidewalls and floor. Minor soil side. |
| Corrosion By Soil (Y/N) | Yes | | | |
| Corrosion By Water (Y/N) | Yes | | | |
| Camber POS/ZERO/NEG | NEG | | | |

| | | Bric | dge Cu | Ivert Barrel |
|---|---------------------------------------|-------|--------|---|
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe #: 1, Primary Span, Locat | tion Code: MAIN, Spa | n (mm |): | , Rise (mm): 1810, Type: SP) |
| Ponding (Y/N) | No | | | |
| Fish Passage Adequacy | | 3 | 3 | Perched outlet. |
| Baffle | | Х | Х | |
| (Type:) | | | | |
| Waterway Adequacy | | 4 | 4 | As indicated by scour below culvert outlet. |
| Icing (Y/N) | No | | | |
| Silting (Y/N) | No | | | |
| Drift (Y/N) | Yes | | | |
| Barrel General Rating | | 6 | 6 | |
| | | D | ownstr | ream End |
| Culvert Component | | Last | Now | Explanation of Condition |
| Direction | | S | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | |
| Headwall | | Х | Х | |
| Collar | | Х | Х | |
| Wingwalls | | Х | Х | |
| (Shape:) | | | | |
| Cutoff Wall | | Х | X | |
| Bevel End | | 4 | 4 | Damaged by hoe and bent sideways. |
| Heaving (mm) | 300 | | | |
| Invert Above/Below Stream Bed | ABOVE | | | |
| Above/Below (mm) | 600 | | | |
| Scour Protection | | 4 | 4 | Bevel cantilevered 1.0m armoured by rock - photo. |
| (Type : NONE) | | | | |
| (Avg. Rock Size(mm):) | | 1 | 1 | |
| Scour/Erosion | | 4 | 4 | Scour undermining invert. |
| Beavers (Y/N) | Yes | | | |
| Downstream End General Ratio | ng | 4 | 4 | |
| | | | | re Usage |
| 01 - 1 (11/0 - 1 D/0) | | Last | Now | Explanation of Condition |
| Channel (U/S and D/S) Alignment | | 7 | 7 | Old beaver pond U/S. |
| Bank Stability | | 7 | 7 | |
| HWM (m below Top of Culvert) | 0.4 | | | |
| Drift (Y/N) | Yes | | | |
| Channel Bottom Degrading/Aggrading | DEGRADING | | | |
| Beavers (Y/N) | Yes | | | |
| (Fish Compensation Measure 1 : | NONE) | | | |
| (Fish Compensation Measure 2 : | · · · · · · · · · · · · · · · · · · · | | | |
| Channel General Rating | | 7 | 7 | |

| | | Maintenance | Recommenda | ations | | | | | |
|--|-------------|---|-----------------------|------------------------|---------------|------|-----------------|-----------|-------|
| Inspector Recommendations | Year | Inspector Comments | | Department Comi | ments | | Target Year | Est. Cost | Cat # |
| SHOTCRETE REPAIRS | | | | | | | | | |
| PLACE ADDITIONAL RIP RAP | 2012 | 2m3 Class I to inlet shoulders (if r & outlet to raise streambed elevat perched outlet. | ot yet done) ion @ | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | | | |
| INSTALL CONCRETE/STEEL LINING | 3 | | | | | | | | |
| INSTALL STRUTS | | | | | | | | | |
| INSTALL CONCRETE COLLAR/CUT | OFF | | | | | | | | |
| REPAIR SEAMS | | | | | | | | | |
| OTHER ACTION | | | | | | | | | |
| OTHER ACTION | | | | | | | | | |
| OTHER ACTION | | | | | | | | | |
| OTHER ACTION | | | | | | | | | |
| Structural Condition Rating (Last/N (%) | low) 66.7/6 | Sufficiency Rating (Las (%) | st/Now) 4 | 3.5/43.5 | Est. Repl. Yr | 2020 | Maint. Re | qd. (Y/N) | Yes |
| Special Comments for Next Inspection | | | | Department Comments | | | | | |
| Maintenance Reviewed By | | | | Date | | E | Estimated Total | 1 0 | |
| Proposed Long-Term Strategy | | | | | | | | | |
| On 3-Year Program (Y/N) | | | | | | | | | |
| Proposed Action | | | | | | | | | |
| Previous Inspector's Name | Owen Salava | | Previous A | Assistant's Name | Chris Black | | | | |
| Next Inspection Date | 01-Nov-2013 | | Previous I | nspection Date | 30-Mar-2010 | | | | |
| Inspection Cycle (Default) (months) | 21 | | | , | , | | | | |
| Comment | | | | | | | | | |