| Bridge Culvert Inspection | | | | | | | | | | | | | |
|--|----------|------------|---------------|----------|----------------|-----------------|--|---------------|-------------|---------------|-----------------------|--------------|--|
| Bridge File Number 07887 -1 Bridge Culvert | | | | | | | Form Type | | | CULM | | | |
| Year Built 1954 | | | | | | Lot No. | | 4 | | | | | |
| Bridge or Town Name BOWDEN | | | | | Inspector Name | | Owen Salava | | | | | | |
| | | | | | | | Inspector Class | | | BR CLS A | | | |
| Located On 587:02 C1 16.0 | | | | | | | Assistant Name | | DIC OLO IX | | | | |
| Water Body Cl./Year | | | | | | Assistant Class | | | | | | | |
| Navigabil. Cl./Year | | | | | | Inspection Date | | 24-Oct-2011 | | | | | |
| Legal Land Location SE SEC 25 TWP 34 RG | | | | | | Data Entry By | | Marcia Chavez | | | | | |
| Longitude, Latitude -114:25:58, 51:56:26 | | | | | | Data Entry Date | | 24-Nov-2011 | | | | | |
| | | · | | | | Reviewer Name | | John O'Brien | | | | | |
| · | | CMA19 | · | | | | Review Date | | 13-Nov-2011 | | | | |
| Clear Roadway | | 8.5 / | | | | | Dept. Reviewer Name | | | | | | |
| AADT/Year | | 1,110/2 | 010 (A) | | | | Dept. Review Date | | 24-Nov-2011 | | | | |
| Road Classifica | tion | RCU-208 | | | | | Follow | | | | | | |
| Detour Length (| | 7 | | | | | | , , | | | | | |
| Bridge Culvert | | ation | | | | | | | | 1 | | | |
| Number of Culv | | 1 | | | | | | | | | | | |
| Pipe # | Barrel | 5 | Span | Rise (or | Dia.) | Туре | | Length | | Corr. Profile | Pl./Slab Thickness | Shape | |
| 1 | MAIN | 8 | 3400 | 2100 | | BP | | 85 | | | | RECTANGLE | |
| Special Feature | s | | | | | | | | | | <u> </u> | | |
| Special Feature | s Comr | ment | | | | | | | | | | | |
| • | | | | | | | | | | | | | |
| | | | | | Uti | ilities (L | ocated | at) | | | | | |
| Utility Attachme | T | | | | | | | | 1 | | | | |
| Telephone South row | | | | | | | Gas | | | | | | |
| Power 15m North of c/l. | | | | | | Munici | | l | | | | | |
| Others | | | | | | | Proble | m (Y/N) | No | | | | |
| Remarks | | | | Α. | | -l- Daa | l / Emb | | | | | | |
| | | | | Α | Last | Now | | ankment | | tion | | | |
| Horizontal Align | ment | | | | 7 | 7 | Explanation of Condition 450m West of intersection. Farm entrance 200m West, grade to | | | | | | |
| Vertical Alignme | | | | | 5 | 5 | | mited sig | | | ance 200m we | or, grade to | |
| Roadway Width | | | 8.500 | | | | | | | | | | |
| Embankment | | | | | 7 | 7 | | | | | | | |
| Sideslope (| :1) | | 3.0 | | | | | | | | | | |
| (Height of Cov | • | (6) | 10.0 | | | | | | | | | | |
| Guardrail (Y/N) | | | Yes | | | | 200m of guardrail. | | | | | | |
| Approach Road | d / Emb | oankmen | t General Rat | ing | 5 | 5 | | | | | | | |
| | | | | | | Unatra | om End | | | | | | |
| Culvert Compo | nent | | | | Last | Now | Explan | ation of | Condi | tion | | | |
| Direction | , iiGiit | | | | S | INOW | LAPIAI | iation or | Condi | LIOII | | | |
| End Treatment Others, None) | (Concre | ete, Steel | CONCRETE | <u> </u> | | | | | | | | | |
| Headwall | | | | | 7 | 7 | | | | | | | |
| Collar | | | X | X | | | | | | | | | |
| Wingwalls | | | 7 | 7 | | | | | | | | | |
| (Shape : FLARE) | | | | , , | | | | | | | | | |
| (Snape : FLARE) Cutoff Wall | | | Х | V | | | | | | | | | |
| Guion Wall | | | | | ^ | X | | | | | | | |

| Upstream End | | | | | | | | | |
|--|----------------------|-------|---------|---|--|--|--|--|--|
| Culvert Component | | Last | Now | Explanation of Condition | | | | | |
| Bevel End | | X | X | | | | | | |
| Heaving (mm) | 0 | | | | | | | | |
| Invert Above/Below Stream Bed | | | | At S.B. | | | | | |
| Above/Below (mm) | 600 | | | | | | | | |
| Scour Protection | | 7 | 7 | | | | | | |
| (Type : RIP RAP) | | | | | | | | | |
| (Avg. Rock Size(mm) : 350) | | | | | | | | | |
| Scour/Erosion | | 7 | 7 | | | | | | |
| Beavers (Y/N) | No | | | | | | | | |
| Upstream End General Rating | | 7 | 7 | | | | | | |
| | | Brio | dge Cu | Ivert Barrel | | | | | |
| Culvert Component | | Last | Now | Explanation of Condition | | | | | |
| (Pipe #: 1, Primary Span, Loca | tion Code: MAIN, Spa | n (mm |): 4200 |), Rise (mm): 2100, Type: BP, Cell Sequence: 1) | | | | | |
| Barrel Last Accessible Date | 24-Oct-2011 | | | West barrel. | | | | | |
| Special Features | | | | | | | | | |
| Special Feature | | | | | | | | | |
| (Type:) | | | | | | | | | |
| Special Feature | | | | | | | | | |
| (Type:) | | | | | | | | | |
| Roof | | 6 | 6 | Narrow longitudinal cracks in roof. | | | | | |
| Measured Rise (mm) | | | | | | | | | |
| Measured At Ring No. | | | | | | | | | |
| Sag (mm) | 0 | | | | | | | | |
| Percent Sag | | | | | | | | | |
| Sidewall | | 6 | 6 | Bend to NE at North end. | | | | | |
| Measured Span (mm) | | | | | | | | | |
| Measured At Ring No. | | | | | | | | | |
| Deflection (mm) | 0 | | | | | | | | |
| Percent Deflection | | | | | | | | | |
| Floor | | N | 6 | | | | | | |
| Bulge (mm) | 0 | | | | | | | | |
| Measured At Ring No. | | | | | | | | | |
| Abrasion (Y/N) | | | | | | | | | |
| Circumferential Seams | | 5 | 5 | 4th seam from U/S end 40mm gap. | | | | | |
| Separation (mm) | 50 | | | | | | | | |
| 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 | | X | X | | | | | | |
| Corrosion By Soil (Y/N) | | | | | | | | | |
| Corrosion By Water (Y/N) | | | | | | | | | |
| Camber POS/ZERO/NEG | ZERO | | | | | | | | |
| Ponding (Y/N) | No | | | | | | | | |

| | | Bri | dae Cu | Ivert Barrel |
|--|---------------------|--------|----------|--|
| Culvert Component | | Last | Now | Explanation of Condition |
| | tion Code: MAIN, Sp | | | , Rise (mm): 2100, Type: BP, Cell Sequence: 1) |
| Fish Passage Adequacy | | X | X | |
| Baffle | | X | X | |
| (Type:) | | / | | |
| Waterway Adequacy | | 7 | 7 | (400 mm ice. 26Jan2009). |
| Icing (Y/N) | Yes | | | (400 mm 100. 200an2000). |
| Silting (Y/N) | No | | | |
| Drift (Y/N) | Yes | | | |
| Barrel General Rating | 1.00 | 6 | 6 | |
| Burror Contoral Ruting | | | | |
| | | | | Ivert Barrel |
| Culvert Component | | Last | Now | Explanation of Condition |
| | | an (mm | 1): 4200 | Rise (mm): 2100, Type: BP, Cell Sequence: 2) |
| Barrel Last Accessible Date | 24-Oct-2011 | | | East cell. |
| Special Features | | | | |
| Special Feature | | | | |
| (Type:) | | | | |
| Special Feature | | | | |
| (Type:) | | | | |
| Roof | | 6 | 6 | Narrow longitudinal cracks in roof. |
| Measured Rise (mm) | | | | |
| 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 | 6 | |
| Bulge (mm) | 0 | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | | | | |
| Circumferential Seams | | 5 | 5 | |
| Separation (mm) 40 | | | | |
| 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) | | | | |
| Coating | | X | Х | |
| Corrosion By Soil (Y/N) | No | | | |
| Corrosion By Water (Y/N) | No | | | |
| Camber POS/ZERO/NEG | ZERO | | | |
| Ponding (Y/N) | No | | | |

07887 -1 Bridge Culvert

| | | Bric | ige Cul | lvert Barrel | | | | |
|---|----------------------|-------|---------|--|--|--|--|--|
| Culvert Component | | Last | Now | Explanation of Condition | | | | |
| (Pipe #: 1, Primary Span, Locat | tion Code: MAIN, Spa | n (mm |): 4200 | , Rise (mm): 2100, Type: BP, Cell Sequence: 2) | | | | |
| Fish Passage Adequacy | | 5 | 5 | | | | | |
| Baffle | | Х | Х | | | | | |
| (Type:) | | | | | | | | |
| Waterway Adequacy | | 7 | 7 | (400 mm ice. 26Jan2009). | | | | |
| Icing (Y/N) | Yes | | | | | | | |
| Silting (Y/N) | No | | | | | | | |
| Drift (Y/N) | No | | | | | | | |
| Barrel General Rating | | 5 | 6 | | | | | |
| | | D | ownstr | eam End | | | | |
| Culvert Component | | Last | Now | Explanation of Condition | | | | |
| Direction | | N | | | | | | |
| End Treatment (Concrete, Steel, Others, None) | CONCRETE | | | | | | | |
| Headwall | | 7 | 7 | | | | | |
| Collar | | X | X | | | | | |
| Wingwalls | | 7 | 7 | | | | | |
| (Shape : FLARE) | | | | | | | | |
| Cutoff Wall | | Х | X | | | | | |
| Bevel End | | X | X | | | | | |
| Heaving (mm) | 0 | | | | | | | |
| Invert Above/Below Stream Bed BELOW | | | | | | | | |
| Above/Below (mm) | 600 | | | | | | | |
| Scour Protection | | 7 | 7 | | | | | |
| (Type : NATURAL) | | | | | | | | |
| (Avg. Rock Size(mm) :) | | 1 | 1 | | | | | |
| Scour/Erosion | | 7 | 7 | | | | | |
| Beavers (Y/N) | No | | | | | | | |
| Downstream End General Ratin | ng | 7 | 7 | | | | | |
| | | s | tructur | re Usage | | | | |
| | | Last | Now | Explanation of Condition | | | | |
| Channel (U/S and D/S) | | | 1 | | | | | |
| Alignment | | 7 | 7 | | | | | |
| Bank Stability | | 7 | 7 | | | | | |
| HWM (m below Top of Culvert) | | | | HWM not visible. | | | | |
| Drift (Y/N) | Yes | | | | | | | |
| Channel Bottom Degrading/Aggrading | AGGRADING | | | | | | | |
| Beavers (Y/N) | Yes | | | | | | | |
| (Fish Compensation Measure 1 : | NONE) | | | | | | | |
| (Fish Compensation Measure 2 : | NONE) | | | | | | | |
| Channel General Rating | | 7 | 7 | | | | | |

| | | | Maintenan | ce Recommer | dations | | | | | |
|--|-----------|-------------------------|---------------------------------|----------------------------|------------------------|-----------------------------|----------------|----------------|-----------|----|
| Inspector Recommendations | Υe | Year Inspector Comments | | | Department Com | 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 | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | |
| Structural Condition Rating (Last/N (%) | low) 55 | 55.6/66.7 Sufficien (%) | | ficiency Rating (Last/Now) | | Est. Repl. Yr | 2030 Maint. Re | | qd. (Y/N) | No |
| Special Comments for Next Inspection | | | | | Department Comments | | | | | |
| Maintenance Reviewed By | | | | | Date | | E | Estimated Tota | I 0 | |
| Proposed Long-Term Strategy | 2004.05.2 | 29 Stru | cture should be good until 2050 |). | | | | | | |
| On 3-Year Program (Y/N) | | | | | | | | | | |
| Proposed Action | | | | | | | | | | |
| Previous Inspector's Name Gar | | Garry Roberts | | | Assistant's Name | | | | | |
| Next Inspection Date 24 | | 24-Jan-2015 Previou | | | | Inspection Date 26-Jan-2009 | | | | |
| Inspection Cycle (Default) (months) | 39 | | | | | | | | | |
| Comment | | | | | | | | | | |