| Bridge Culvert Inspection | | | | | | | | | | | | | |
|--|---------|------------------------|-------------------------|----------|---------|---------------|---------------------|-----------------------------|---------------|----------------|-----------------------|-------|--|
| Bridge File Nun | nber | 00241 - | 1 Bridge Culve | rt | | | | orm Type | | CULM | | | |
| Year Built | | | | | | | Lot No. | | | 1 | | | |
| Bridge or Town | Name | CARDS | TON | | | | Inspector Name | | Jason Rusu | | | | |
| Located Over | | TRIBUT | ARY TO ST M | ARY RIV | ER, | | | | | BR CLS A | | | |
| Located On | | | .6, WATERCRS | 5-51 | | | Assista | Assistant Name | | | | | |
| Located On | N | 5:04 C1 | 6.669 | 909 | | | Assistant Class | | | | | | |
| Water Body Cl. Navigabil. Cl./Y | | | | | | | Inspection Date | | 11-Oct-2011 | | | | |
| Legal Land Loc | | NIM/ SE | C 30 TM/D 3 DCE 24 M/4M | | | | | | | Alyssa Boynton | | | |
| | | | 3.44 40.14.40 | | | | | Data Entry Date 21-Nov-2011 | | | | | |
| | | a Transportation (AIT) | | | | Reviewer Name | | | Garry Roberts | | | | |
| Contract Main. Area CMA25 | | | | | | Review Date | | | 09-Nov-2011 | | | | |
| Clear Roadway | | 12 / | | | | | Dept. Reviewer Name | | | | | | |
| AADT/Year | / OROW | | 2010 (A) | | | | Dept. Review Date | | 25-Nov-2011 | | | | |
| Road Classifica | ation | ,0007 | | | | | Follow- | Uр Ву | | | | | |
| Detour Length | (km) | 3 | | | | | | | | | | | |
| Bridge Culvert | | ation | | | | | | | | | | | |
| Number of Culv | /erts | | 2 | | | | | | | | | | |
| Pipe # | Barrel | | Span | Rise (or | Dia.) | Туре | | Length | | Corr. Profile | Pl./Slab Thickness | Shape | |
| 1 | MAIN | | - | 1200 | | MP | | 56 | | | | ROUND | |
| 2 | MAIN | | - | 1200 | | MP | | 56 | | | | ROUND | |
| 1 MAIN - 2 MAIN - Special Features Special Features Comment Utility Attachments Telephone North & South Row | | | | | | | | | | | | | |
| Special Feature | es Comi | ment | | | | | | | | | | | |
| | | | | | 117 | ::::: /I | | -1) | | | | | |
| Litility Attachme | ante | | | | Uti | iitties (L | _ocated | at) | | | | | |
| | | | | | Gas | | Cross | sing 50m west | | | | | |
| Power South Row crossing 50m west | | | | | Municip | al | 01000 | oning donn wood | | | | | |
| Others | | | | | Problen | | No | | | | | | |
| Remarks Power to Cathodic protection @ N.W. | | | | | | | | (') | | | | | |
| | | | | | pproac | ch Road | d / Emba | nkment | | | | | |
| | | | | | Last | Now | Explan | ation of | Condi | tion | | | |
| Horizontal Align | | | | | 7 | 7 | Local ro | oad int. 1 | 00m w | est | | | |
| Vertical Alignm | | | | 7 | | 7 | | | | | | | |
| Roadway Width | n (m) | | 13.400 | | | | | | | | | | |
| Embankment | | | | | 6 | 6 | | | | | | | |
| Sideslope (| _:1) | | 4.0 | | | | | | | | | | |
| (Height of Co | ver(m): | :) | | | | | | | | | | | |
| Guardrail (Y/N) | | | No | | | | | | | | | | |
| Approach Roa | d / Eml | bankmeı | nt General Rat | ing | 7 | 7 | | | | | | | |
| | | | | | | Unstre | am End | | | | | | |
| Culvert Compo | onent | | | | Last | Now | | ation of | Condi | tion | | | |
| (Pipe # : 1, Sp | | e: Prima | ry Span) | | | | | | | | | | |
| Direction | | | | | | | South | | | | | | |
| End Treatment (Concrete, Steel, STEEL Others, None) | | | | | | | | | | | | | |
| Headwall | | | | | Х | Х | | | | | | | |
| Collar | | | X | X | | | | | | | | | |
| Wingwalls | | | X | X | | | | | | | | | |
| (Shape:) | | | | | | | | | | | | | |

00241 -1 Bridge Culvert

| | | | Unstre | am End |
|--|----------------------|------|--------|--|
| Culvert Component | | | | Explanation of Condition |
| (Pipe # : 1, Span Type: Primary | / Span) | | 1 | |
| Cutoff Wall | , , , | Х | Х | |
| | | | | |
| Bevel End | | N | 6 | |
| Heaving (mm) | 50 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 300 | | | |
| Scour Protection | | N | 5 | |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 200) | | | 1 | |
| Scour/Erosion | | N | 5 | |
| Beavers (Y/N) | No | | | |
| Upstream End General Rating | | N | 5 | |
| | | Brid | dae Cu | lvert Barrel |
| Culvert Component | | | | Explanation of Condition |
| (Pipe # : 1, Primary Span, Locate | tion Code: MAIN, Spa | | | , Rise (mm): 1200, Type: MP) |
| Barrel Last Accessible Date | 11-Oct-2011 | | | West pipe. |
| Special Features | | | | |
| Special Feature | | | | |
| (Type:) | | | | |
| Special Feature | | | | |
| (Type:) | | | | |
| Roof | | N | 2 | 26% sag at ring 4. |
| Measured Rise (mm) | 890 | | | |
| Measured At Ring No. | 4 | | | |
| Sag (mm) | 310 | | | |
| Percent Sag | 26 | | | |
| Sidewall | | N | 2 | |
| Measured Span (mm) | 1445 | | | 20% deflection at ring 4. |
| Measured At Ring No. | 4 | | | 2070 defication at mig 1. |
| Deflection (mm) | 245 | | | |
| Percent Deflection | 20 | | | |
| Floor | | N | N | Under 300-500mm of water. |
| Bulge (mm) | | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | | | | |
| Circumferential Seams | | N | 4 | At R3 |
| Separation (mm) | 80 | | | |
| Longitudinal Seams | | N | 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 | | N | 4 | Small isolated perfs at roof at rings 3 and 4. |
| Corrosion By Soil (Y/N) | Yes | | | |
| Corrosion By Water (Y/N) | No | | | |

| | | Brid | dge Cu | lvert Barrel | | | |
|---|----------------------|-------|--------|------------------------------|--|--|--|
| Culvert Component | | | | Explanation of Condition | | | |
| (Pipe #: 1, Primary Span, Loca | tion Code: MAIN, Spa | n (mm |): | , Rise (mm): 1200, Type: MP) | | | |
| Camber POS/ZERO/NEG | POS | | | | | | |
| Ponding (Y/N) | No | | | | | | |
| Fish Passage Adequacy | | Х | 5 | | | | |
| Baffle | | N | N | | | | |
| (Type:) | | | | | | | |
| Waterway Adequacy | 1 | N | 6 | | | | |
| Icing (Y/N) | No | | | | | | |
| Silting (Y/N) | No | | | | | | |
| Drift (Y/N) | No | | | | | | |
| Barrel General Rating | | N | 2 | 2 notifications issued. | | | |
| | | | | eam End | | | |
| Culvert Component | | Last | Now | Explanation of Condition | | | |
| (Pipe # : 1, Span Type: Primary | / Span) | | | | | | |
| Direction | | | | | | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | | | | |
| Headwall | | Х | X | | | | |
| Collar | | Х | X | | | | |
| Wingwalls | | X | X | | | | |
| (Shape:) | | | | | | | |
| Cutoff Wall | | Х | X | | | | |
| Bevel End | | N | 5 | | | | |
| Heaving (mm) | 0 | | | | | | |
| Invert Above/Below Stream Bed | ABOVE | | | | | | |
| Above/Below (mm) | 100 | | _ | | | | |
| Scour Protection | | N | 5 | | | | |
| (Type: RIP RAP) | | | | | | | |
| (Avg. Rock Size(mm) : 200) | | | | | | | |
| Scour/Erosion | | N | 5 | | | | |
| Beavers (Y/N) | No | | | | | | |
| Downstream End General Ratio | ng | N | 5 | | | | |
| | | | | am End | | | |
| Culvert Component | | Last | Now | Explanation of Condition | | | |
| (Pipe # : 2, Span Type: Second | lary Span) | | | | | | |
| Direction | | | | | | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | | | | |
| Headwall | | Х | X | | | | |
| Collar | | Х | Х | | | | |
| Wingwalls | | Х | X | | | | |
| (Shape:) | | | | | | | |
| Cutoff Wall | | X | Х | | | | |

00241 -1 Bridge Culvert

| | Upstream End | | | | | | | | |
|--|--------------|------|--------|--|--|--|--|--|--|
| Culvert Component | | Last | Now | Explanation of Condition | | | | | |
| (Pipe # : 2, Span Type: Second | lary Span) | | | | | | | | |
| Bevel End | | N | 5 | Snow covered | | | | | |
| Heaving (mm) | 50 | | | | | | | | |
| Invert Above/Below Stream Bed | BELOW | | | | | | | | |
| Above/Below (mm) | 300 | | | | | | | | |
| Scour Protection | | N | 5 | | | | | | |
| (Type : RIP RAP) | | | | | | | | | |
| (Avg. Rock Size(mm) : 200) | | | | | | | | | |
| Scour/Erosion | | N | 5 | | | | | | |
| Beavers (Y/N) | No | | | | | | | | |
| Upstream End General Rating | | N | 5 | | | | | | |
| | | Bri | dae Cu | ilvert Barrel | | | | | |
| Culvert Component | | Last | | Explanation of Condition | | | | | |
| (Pipe # : 2, Secondary Span, Lo | | | | , Rise (mm): 1200, Type: MP) | | | | | |
| Barrel Last Accessible Date | 16-Oct-2011 | | | Unable to enter- not bridge size. Elbow three sections from end. | | | | | |
| Special Features | | | | | | | | | |
| Special Feature | | | | | | | | | |
| (Type:) | | | | | | | | | |
| Special Feature | | | | | | | | | |
| (Type:) | | | | | | | | | |
| Roof | | N | 2 | 26% sag. | | | | | |
| Measured Rise (mm) | 885 | | | | | | | | |
| Measured At Ring No. | 4 | | | | | | | | |
| Sag (mm) | 315 | | | | | | | | |
| Percent Sag | 26 | | | | | | | | |
| Sidewall | | N | 2 | 20% deflection. | | | | | |
| Measured Span (mm) | 1440 | | | | | | | | |
| Measured At Ring No. | 4 | | | | | | | | |
| Deflection (mm) | 240 | | | | | | | | |
| Percent Deflection | 20 | | | | | | | | |
| Floor | | N | N | | | | | | |
| Bulge (mm) | | | | | | | | | |
| Measured At Ring No. | | | | | | | | | |
| Abrasion (Y/N) | | | | | | | | | |
| Circumferential Seams | | N | 5 | | | | | | |
| Separation (mm) | 40 | | | | | | | | |
| Longitudinal Seams | | N | X | Riveted pipe. | | | | | |
| 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 | | N | 5 | | | | | | |
| Corrosion By Soil (Y/N) | No | | - 5 | 1 | | | | | |
| Corrosion By Water (Y/N) | Yes | | | Light corrosion in barrel at waterline. | | | | | |
| Camber POS/ZERO/NEG | POS | | | | | | | | |
| Cambon Co/ZENO/NEO | . 55 | | | | | | | | |

| | | Brid | dge Cu | Ivert Barrel |
|---|----------------------|---------|---------|------------------------------|
| Culvert Component | | 1 | Now | Explanation of Condition |
| (Pipe # : 2, Secondary Span, Lo | cation Code: MAIN, S | Span (r | nm): | , Rise (mm): 1200, Type: MP) |
| Ponding (Y/N) | No | | | |
| Fish Passage Adequacy | | Х | 5 | |
| Baffle | | N | N | |
| (Type:) | | | | |
| Waterway Adequacy | | N | 5 | |
| Icing (Y/N) | No | | | |
| Silting (Y/N) | No | | | |
| Drift (Y/N) | No | | | |
| Barrel General Rating | | N | 2 | |
| | | D | ownsti | ream End |
| Culvert Component | | 1 | Now | Explanation of Condition |
| (Pipe # : 2, Span Type: Second | lary Span) | | | |
| Direction | | | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | |
| Headwall | | Х | Х | |
| Collar | | Х | Х | |
| Wingwalls | | Х | Х | |
| (Shape:) | | | | |
| Cutoff Wall | | X | Х | |
| Bevel End | | N | 5 | |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | ABOVE | | | |
| Above/Below (mm) 100 | | | | |
| Scour Protection | | N | 4 | |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 200) | | 1 | | |
| Scour/Erosion | | N | 4 | 4m x 5m x 1m Scour hole. |
| Beavers (Y/N) | No | | | |
| Downstream End General Ratio | ng | N | 4 | |
| | | 5 | Structu | re Usage |
| | | | Now | Explanation of Condition |
| Channel (U/S and D/S) | | 1 | | |
| Alignment | | 7 | 7 | |
| Bank Stability | | N | 7 | |
| HWM (m below Top of Culvert) | | | | None visible. |
| Drift (Y/N) | No | | | |
| Channel Bottom Degrading/Aggrading | AGGRADING | | | |
| Beavers (Y/N) | No | | | |
| (Fish Compensation Measure 1 : | | | | |
| (Fish Compensation Measure 2 : | NONE) | | | |
| Channel General Rating | | 7 | 7 | |

| | | Maintanana Baa | | | | | |
|--|--------------|---|---------------------------|---------------|-----------------|-----------|------|
| la an antan Danasan datian a | V | Maintenance Reco | | | Tananat Valar | F-4 O4 | 0-14 |
| Inspector Recommendations | Year | Inspector Comments | Department Com | Target Year | Est. Cost | Cat # | |
| SHOTCRETE REPAIRS | | | | | | | + |
| PLACE ADDITIONAL RIP RAP | | | | | | | + |
| REMOVE DRIFT ACCUMULATION | 2012 | Leatell lining heath miner or replace | | | | | |
| INSTALL CONCRETE/STEEL LINING INSTALL STRUTS | 3 2012 | Install lining - both pipes or replace. | | | | | |
| INSTALL STRUTS INSTALL CONCRETE COLLAR/CUT | OFF | | | | | | + |
| REPAIR SEAMS | OFF | | | | | | |
| OTHER ACTION | | | | | | | + |
| OTHER ACTION | | | | | | | + |
| OTHER ACTION | | | | | | | + |
| OTHER ACTION | | | | | | | |
| Structural Condition Rating (Last/N | low) 55.6/22 | .2 Sufficiency Rating (Last/No | ow) 67.7/39.2 | Est. Repl. Yr | 2016 Maint. Re | qd. (Y/N) | Yes |
| Special Comments for Next Inspection | | | Department Comments | | | | |
| Maintenance Reviewed By | | | Date | | Estimated Total | 1 0 | |
| Proposed Long-Term Strategy | | | | | | | |
| On 3-Year Program (Y/N) | | | | | | | |
| Proposed Action | | | | | | | |
| Previous Inspector's Name | Jason Rusu | F | Previous Assistant's Name | | | | |
| Next Inspection Date | 11-Jul-2013 | F | Previous Inspection Date | | | | |
| Inspection Cycle (Default) (months) | 21 | | | , | | | |
| Comment | | | | | | | |