| | | | | | Brida | e Culve | ert Insp | ection | | | | | |
|---|---------|--------------|------------------------------|-------------------------------------|-----------------|-----------------|--|----------------|----------------|-----------------------------|-----------------------|-----------|--|
| Bridge File Nur | | | | | | Form Type | | CULM | | | | | |
| Year Built 1987 | | | | | | Lot No. | | 4 | | | | | |
| Bridge or Town Name GRANUM | | | | | | Inspector Name | | | Garry Roberts | | | | |
| Located Over | | | RIGATION C, V | | Inspector Class | | BR CLS A | | | | | | |
| Located On | | | | | | | | Assistant Name | | | | | |
| Water Body Cl./Year | | | | | | Assistant Class | | | | | | | |
| Navigabil. CI./Y | | | | | | | | | 21-May-2010 | | | | |
| Legal Land Loc | | SW SEC | 3 TWP 11 R | GE 25 W4 | M | | Data Entry By | | Kelsey Roberts | | | | |
| Longitude, Latit | | -113:20:4 | | | | | | | | 17-Aug-2010 | | | |
| Road Authority | | | | | | | | - | | Ash Morjaria | | | |
| Contract Main. | | CMA26 | ! | , , , , , , , , , , , , , , , , , , | | | | | Review Date | | | | |
| Clear Roadway | | 11.3 / | | | | | Dept. F | Reviewer | Name | 29-May-2010 Lorenz Bohne | rt | | |
| AADT/Year | | 1,940 / 2 | 009 (A) | | | | · · · | Review Da | | 18-Aug-2010 | | | |
| Road Classifica | ation | RCU-209 | | | | | Follow | | | | | | |
| Detour Length | | 3 | | | | | | | | | | | |
| Bridge Culvert | | | | | | | 1 | | | I | | | |
| Number of Culv | | 1 | | | | | | | | | | | |
| Pipe # | Barrel | S | Span | Rise (or | Dia.) | Туре | | Length | | Corr. Profile | PI./Slab Thickness | Shape | |
| 1 | MAIN | 1 | 4000 | 4000 | | BP | | 33.3 | | | | RECTANGLE | |
| Special Feature | es | | | | | | | | | | Ì | | |
| Special Feature | es Comr | ment | | | | | | | | | | | |
| • | | | | | | | | | | | | | |
| | | | | | Ut | ilities (L | ocated | at) | | | | | |
| Utility Attachme | | | | | | | | | 1 | | | | |
| Telephone | S. DIT | ГСН | | | | | Gas | | | | | | |
| Power | | | N. FENCE | | | | Municipal | | | | | | |
| Others | | ER MONITORS? | | | | | | m (Y/N) | No | | | | |
| Remarks | | | //PLASTIC PIF R (WATER DE | | | | | | | | | | |
| | LAOI | | R (WATER DE | | nnroa | ch Road | d / Emb | ankment | | | | | |
| | | | | <u> </u> | | Now | | | Condi | tion | | | |
| Horizontal Aligr | nment | | _ | | 9 | 7 | Explanation of Condition INTERSECTION OF LOCAL ROAD SOUTH 25 METERS TO EAST | | | | | | |
| Vertical Alignm | | | | | 5 | 6 | | | | | | | |
| Roadway Width | | | 11.000 | | | U | | | | | | | |
| Embankment | | | | | 8 | 7 | | | | | | | |
| Sideslope (| :1) | | 3.0 | | | _ | | | | | | | |
| (Height of Co | | 0.5) | | | | | | | | | | | |
| Guardrail (Y/N) | | , | Yes | | | | Double layer over pipes on steel posts. | | | | | | |
| Approach Roa | d / Emb | bankmen | t General Rat | ing | 5 | 6 | | | | | | | |
| | | | | | | Upstre | am End | | | | | | |
| Culvert Compo | onent | | | | Last | Now | | ation of | Condi | tion | | | |
| Direction | | | | | S | | | | | | | | |
| End Treatment (Concrete, Steel, CONCRETE Others, None) | | | | | | | | | | | | | |
| Headwall | | | | | 8 | 8 | | | | | | | |
| Collar | | | X | Х | | | | | | | | | |
| Wingwalls | | | | | 8 | 8 | - | | | | | | |
| (Shape :) | | | | | | | | | | | | | |
| Cutoff Wall | | | | | N | N | | | | | | | |
| | | | | | | | | | | | | | |

| | 1 | | Upstre | am End |
|--|----------------------|------|--------|--|
| Culvert Component | | Last | Now | Explanation of Condition |
| Bevel End | | Х | Х | |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 200 | | | |
| Scour Protection | | 8 | 8 | |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 250) | | | | |
| Scour/Erosion | | 8 | 8 | |
| Beavers (Y/N) | No | | | |
| Upstream End General Rating | | 8 | 8 | |
| | | Brid | dae Cu | lvert Barrel |
| Culvert Component | | Last | | Explanation of Condition |
| | tion Code: MAIN, Spa | | | , Rise (mm): 4000, Type: BP, Cell Sequence: 1) |
| Barrel Last Accessible Date | 21-May-2010 | | | West Cell |
| Barrei Last Accessible Date | 21-May-2010 | | | West Cell |
| Special Features | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Roof | | 7 | 7 | |
| Measured Rise (mm) | 4000 | | | |
| Measured At Ring No. | 1 | | | |
| Sag (mm) | 0 | | | |
| Percent Sag | | | | |
| | | 7 | 7 | NARROW VERT CRACKS RUNNING THE HEIGHT OF |
| Sidewall | 0500 | 1 | 1 | SIDEWALLS 1.40-1.80 M APART |
| Measured Span (mm) | 3500 | | | - |
| Measured At Ring No. | 1 | | | - |
| Deflection (mm) | 0 | | | - |
| Percent Deflection | | | | |
| Floor | 1 | N | 7 | |
| Bulge (mm) | 0 | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | No | | | |
| Circumferential Seams | | X | Х | |
| Separation (mm) | | | | |
| Longitudinal Seams | | Х | Х | |
| Total No. of Cracked Rings | 0 | | | |
| Total No. of Rings with Two Cracked Seams | 0 | | | |
| Min. Remaining Steel Between Cracks (mm) | 0 | | | |
| Proper Lap (Y/N) | | | | 1 |
| Longitudinal Stagger (Y/N) | | | | 1 |
| Coating | | X | X | |
| Corrosion By Soil (Y/N) | No | | Λ | |
| · · · · · | No | | | |
| Corrosion By Water (Y/N) | | | | |
| Camber POS/ZERO/NEG | ZERO | | | |
| Ponding (Y/N) | No | | | |

| | | Brid | lge Cu | Ivert Barrel |
|--|----------------------|---------|---------|---|
| Culvert Component | | Last | | Explanation of Condition |
| _ | ation Code: MAIN, Sp | oan (mm | |), Rise (mm): 4000, Type: BP, Cell Sequence: 1) |
| Fish Passage Adequacy | | Х | 7 | |
| Baffle | | | X | |
| (Type :) | | X | | |
| Waterway Adequacy | | 8 | 7 | |
| Icing (Y/N) | No | 0 | 1 | |
| Silting (Y/N) | No | | | - |
| Drift (Y/N) | No | | | - |
| Barrel General Rating | | 7 | 7 | |
| | | | | |
| | | | | Ivert Barrel |
| Culvert Component | | | | Explanation of Condition |
| | | Jan (mm |): 3500 | 0, Rise (mm): 4000, Type: BP, Cell Sequence: 2) |
| Barrel Last Accessible Date | 21-May-2010 | | | 2nd from west |
| Special Features | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Special Feature | | | | |
| (Type :) | | | | |
| Roof | | 7 | 7 | |
| Measured Rise (mm) | 4000 | | | _ |
| Measured At Ring No. | 1 | | | _ |
| Sag (mm) | 0 | | | _ |
| Percent Sag | | | | |
| Sidewall | | 7 | 7 | |
| Measured Span (mm) | 3500 | | | _ |
| Measured At Ring No. | 1 | | | _ |
| Deflection (mm) | 0 | | | _ |
| Percent Deflection | | | | |
| Floor | | N | 7 | |
| Bulge (mm) | | | | _ |
| Measured At Ring No. | | | | - |
| Abrasion (Y/N) | No | | | |
| Circumferential Seams | | X | X | - |
| Separation (mm) | | | | |
| Longitudinal Seams | | X | X | - |
| Total No. of Cracked Rings | 0 | | | - |
| Total No. of Rings with Two Cracked Seams | 0 | | | |
| Min. Remaining Steel Between Cracks (mm) | 0 | | | |
| Proper Lap (Y/N) | | | | |
| Longitudinal Stagger (Y/N) | | | | |
| Coating | | X | X | |
| Corrosion By Soil (Y/N) | No | | | |
| Corrosion By Water (Y/N) | No | | | |
| Camber POS/ZERO/NEG | ZERO | | | |
| Ponding (Y/N) | No | | | |
| | | | | |

| Bridge Culvert Barrel | | | | | | | | | |
|--|----------------------|--------|---------|--|--|--|--|--|--|
| Culvert Component | | | | Explanation of Condition | | | | | |
| (Pipe # : 1, Primary Span, Loca | tion Code: MAIN, Spa | ın (mm |): 3500 | , Rise (mm): 4000, Type: BP, Cell Sequence: 2) | | | | | |
| Fish Passage Adequacy | | X | 7 | | | | | | |
| Baffle | | | X | | | | | | |
| (Type :) | | Х | ~ | | | | | | |
| Waterway Adequacy | | 8 | 7 | | | | | | |
| Icing (Y/N) | No | | , | | | | | | |
| Silting (Y/N) | No | | | - | | | | | |
| Drift (Y/N) | No | | | | | | | | |
| Barrel General Rating | | 7 | 7 | | | | | | |
| Barrer Centeral Rading | | | | | | | | | |
| Outpart Opman and | | | | Ivert Barrel | | | | | |
| Culvert Component | tion Code: MAIN, Sna | Last | | Explanation of Condition | | | | | |
| Barrel Last Accessible Date | 21-May-2010 | in (mm |): 3500 | Rise (mm): 4000, Type: BP, Cell Sequence: 3) 3rd from West | | | | | |
| | 21-Way-2010 | | | | | | | | |
| Special Features | | | | | | | | | |
| Special Feature | | | | | | | | | |
| (Type:) | | | | - | | | | | |
| Special Feature | | | | | | | | | |
| (Type :) | | | | | | | | | |
| Roof | 1 | 7 | 7 | | | | | | |
| Measured Rise (mm) | 4000 | | | - | | | | | |
| Measured At Ring No. | 1 | | | - | | | | | |
| Sag (mm) | 0 | | | - | | | | | |
| Percent Sag | | | | | | | | | |
| Sidewall | | 7 | 7 | | | | | | |
| Measured Span (mm) | 3500 | | | _ | | | | | |
| Measured At Ring No. | 1 | | | _ | | | | | |
| Deflection (mm) | 0 | | | - | | | | | |
| Percent Deflection | | | | | | | | | |
| Floor | | N | 7 | | | | | | |
| Bulge (mm) | 0 | | | - | | | | | |
| Measured At Ring No. | | | | | | | | | |
| Abrasion (Y/N) | No | | | | | | | | |
| Circumferential Seams | | Х | X | | | | | | |
| Separation (mm) | | | _ | | | | | | |
| Longitudinal Seams | | Х | X | | | | | | |
| Total No. of Cracked Rings | 0 | | | | | | | | |
| Total No. of Rings with Two Cracked Seams | 0 | | | | | | | | |
| Min. Remaining Steel Between Cracks (mm) | 0 | | | | | | | | |
| Proper Lap (Y/N) | | | | | | | | | |
| Longitudinal Stagger (Y/N) | | | | | | | | | |
| Coating | | Х | Х | | | | | | |
| Corrosion By Soil (Y/N) | | | | | | | | | |
| Corrosion By Water (Y/N) | | | | | | | | | |
| Camber POS/ZERO/NEG | ZERO | | | | | | | | |
| Ponding (Y/N) | No | | | | | | | | |

| | Bridge Culvert Barrel | | | | | | | | | |
|--|-----------------------|-------|---------|--|--|--|--|--|--|--|
| Culvert Component | | Last | | Explanation of Condition | | | | | | |
| (Pipe # : 1, Primary Span, Loca | tion Code: MAIN, Spa | n (mm |): 3500 | , Rise (mm): 4000, Type: BP, Cell Sequence: 3) | | | | | | |
| Fish Passage Adequacy | | | 7 | | | | | | | |
| Baffle | | Х | Х | | | | | | | |
| (Туре :) | | | | | | | | | | |
| Waterway Adequacy | | 8 | 7 | | | | | | | |
| Icing (Y/N) | No | | | | | | | | | |
| Silting (Y/N) | No | | | | | | | | | |
| Drift (Y/N) | No | | | | | | | | | |
| Barrel General Rating | | 7 | 7 | | | | | | | |
| | | Bric | lge Cu | lvert Barrel | | | | | | |
| Culvert Component | | Last | | Explanation of Condition | | | | | | |
| (Pipe # : 1, Primary Span, Loca | tion Code: MAIN, Spa | n (mm |): 3500 | , Rise (mm): 4000, Type: BP, Cell Sequence: 4) | | | | | | |
| Barrel Last Accessible Date | 21-May-2010 | | | east cell | | | | | | |
| Special Features | | | | | | | | | | |
| Special Feature | | | | | | | | | | |
| (Type:) | | | | | | | | | | |
| Special Feature | | | | | | | | | | |
| (Туре :) | | | | | | | | | | |
| Roof | | 7 | 7 | | | | | | | |
| Measured Rise (mm) | 4000 | | | | | | | | | |
| Measured At Ring No. | 1 | | | | | | | | | |
| Sag (mm) | | | | | | | | | | |
| Percent Sag | | | | | | | | | | |
| Sidewall | | 7 | 7 | | | | | | | |
| Measured Span (mm) | 3500 | | | | | | | | | |
| Measured At Ring No. | 1 | | | | | | | | | |
| Deflection (mm) | 0 | | | | | | | | | |
| Percent Deflection | | | | | | | | | | |
| Floor | | N | 7 | | | | | | | |
| Bulge (mm) | | | | | | | | | | |
| Measured At Ring No. | | | | | | | | | | |
| Abrasion (Y/N) | | | | | | | | | | |
| Circumferential Seams | | Х | X | | | | | | | |
| Separation (mm) | 0 | | | | | | | | | |
| Longitudinal Seams | | Х | Х | | | | | | | |
| Total No. of Cracked Rings | 0 | | | | | | | | | |
| Total No. of Rings with Two Cracked Seams | 0 | | | | | | | | | |
| Min. Remaining Steel Between Cracks (mm) | 0 | | | | | | | | | |
| Proper Lap (Y/N) | | | | | | | | | | |
| Longitudinal Stagger (Y/N) | | | | | | | | | | |
| Coating | | Х | Х | | | | | | | |
| Corrosion By Soil (Y/N) | No | | | | | | | | | |
| Corrosion By Water (Y/N) | No | | | | | | | | | |
| Camber POS/ZERO/NEG | ZERO | | | | | | | | | |
| Ponding (Y/N) | No | | | | | | | | | |

| | Bridge Culvert Barrel | | | | | | | | | |
|---|-----------------------|--------|---------|--|--|--|--|--|--|--|
| Culvert Component | | 1 | | Explanation of Condition | | | | | | |
| (Pipe # : 1, Primary Span, Loca | tion Code: MAIN, Spa | ın (mm |): 3500 | , Rise (mm): 4000, Type: BP, Cell Sequence: 4) | | | | | | |
| Fish Passage Adequacy | | X | 7 | | | | | | | |
| Baffle | | Х | Х | | | | | | | |
| (Type :) | (Type:) | | | | | | | | | |
| Waterway Adequacy | | 8 | 7 | | | | | | | |
| Icing (Y/N) | No | | | | | | | | | |
| Silting (Y/N) | No | | | | | | | | | |
| Drift (Y/N) | No | | | | | | | | | |
| Barrel General Rating | | 7 | 7 | | | | | | | |
| | | D | ownstr | eam End | | | | | | |
| Culvert Component | | Last | Now | Explanation of Condition | | | | | | |
| Direction | | N | | | | | | | | |
| End Treatment (Concrete, Steel, Others, None) | CONCRETE | | | | | | | | | |
| Headwall | | 8 | 8 | | | | | | | |
| Collar | | X | X | | | | | | | |
| Wingwalls | | 8 | 8 | | | | | | | |
| (Shape :) | | 1 | - | | | | | | | |
| Cutoff Wall | | N | N | | | | | | | |
| Bevel End | | Х | Х | | | | | | | |
| Heaving (mm) | 0 | | | | | | | | | |
| Invert Above/Below Stream Bed | BELOW | | | | | | | | | |
| Above/Below (mm) | 200 | | | | | | | | | |
| Scour Protection | | 8 | 8 | | | | | | | |
| (Type : RIP RAP) | | | | | | | | | | |
| (Avg. Rock Size(mm) : 250) | | 1 | | | | | | | | |
| Scour/Erosion | | 8 | 8 | | | | | | | |
| Beavers (Y/N) | No | | | | | | | | | |
| Downstream End General Ratin | າg | 8 | 8 | | | | | | | |
| | | S | Structu | re Usage | | | | | | |
| | | | Now | Explanation of Condition | | | | | | |
| Channel (U/S and D/S) | | | | | | | | | | |
| Alignment | | 9 | 9 | Canal | | | | | | |
| Bank Stability | Bank Stability | | | | | | | | | |
| HWM (m below Top of Culvert) | | | | 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 | | 9 | 9 | | | | | | | |

| Maintenance Recommendations | | | | | | | | | | | | | |
|--|------------|-----------|-------------------------------------|--------------------------------------|-------------------------------------|-------|------|--------------------|-----------|-------|--|--|--|
| Inspector Recommendations | | Year | Inspector Comments | | Department Comr | ments | | 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) | 77.8/77.3 | 8 Sufficiency Rating (Last/N (%) | low) 8 | 32.5/79.1 Est. Repl. Yr 2043 | | 2043 | Maint. Reqd. (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 | Tim Davies | | | Previous Assistant's Name | | | | | | | | | |
| Next Inspection Date 21-Au | | J-2013 | | Previous Inspection Date 27-Feb-2007 | | | | | | | | | |
| | 39 | | | | | | | | | | | | |
| Comment | | | | | | | | | | | | | |