| | | | | | _ | | | | | | | | |
|--------------------------------------------------------|----------------------|---------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------|----------------------------------------------------------------------------|---------------------------|-------------|----------------|-----------------------|-------|--|
| | | | | | Bridg | e Culve | | | | | | | |
| Bridge File Number 77273 -2 Bridge Culvert | | | | | | | Form Type | | CULE | | | | |
| Year Built 2009 | | | | | | Lot No. | | | | 4 | | | |
| Bridge or Town Name | | | | | | | | Inspector Name | | Brian Pientsch | | | |
| Located Over TRIBUTARY TO WI 8.10.48.2, WATERO | | | | HITEMUD RIVER, CRS-ST | | | Inspector Class | | BR CLS A | | | | |
| Located On 743:02 C1 45.315 | | | | | | Assistant Name | | Clem Guenette | | | | | |
| Water Body Cl./Year | | | | | | Assistant Class | | BR CLS B | | | | | |
| Navigabil. Cl./Year | | | | | | • | | | 22-Mar-2013 | | | | |
| Legal Land Lo | 11 TMD 88 DCE 21 M5M | | | | Data Entry By | | Theresa Lacusta | | | | | | |
| | | | 55 56:36:48 | | | | Data Entry Date Reviewer Name | | 23-Apr-2013 | | | | |
| | | | Franchortation (AIT) | | | | | | | Eric Carcoux | | | |
| Contract Main. Area CMA04 | | | | | | | | | 03-Apr-2013 | | | | |
| Clear Roadwa | y/Skew | 8.5 / -19 | deg. (LHF) | | | | • | | | | | | |
| AADT/Year | | 120 / 201 | 12 (A) | | | | | • | | 01-May-2013 | | | |
| Road Classific | ation | RCU-208 | 3G-90 | | | | Follow-Up By | | | | | | |
| Detour Length | (km) | | | | | | | | | | | | |
| Bridge Culver | t Inform | nation | | | | | | | | | | | |
| Number of Cul | verts | 1 | | | | | | | | | | | |
| Pipe # | Barrel | Span Rise (or | | Rise (or I | Dia.) Type | | | Length | | Corr. Profile | Pl./Slab Thickness | Shape | |
| 1 | MAIN | - | | 2430 | | RP | | 112.82 | | 152X51 | 4.2 | ROUND | |
| 1 | D/S | - | | 2700 | | MP | | 28.3 | | 125X26 | 2.8 | ROUND | |
| Special Featur | | В | BARREL ELBO | | | | | | | | - | | |
| Special Featur | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | Ut | ilities (L | ocated | at) | | | | | |
| Utility Attachm | ents | | | | | | | | | | | | |
| Telephone | | | | | | | Gas | | | | | | |
| Power | | | | | | | Munici | | | | | | |
| Others | | | | | | | Problem (Y/N) No | | | | | | |
| Remarks | | | | | | | | | | | | | |
| | | | | The state of the s | | | / Embankment | | | | | | |
| Harizantal Alia | nmont | | | | Last 3 | Now 3 | Sharp curves limiting spped to 50 km/hr. Crest curve 100m N of culvert cl. | | | | | | |
| Horizontal Alignment Vertical Alignment | | | | 3 3 | | | Crest | curves iiii curve 100n | n N of | culvert cl. | III. | | |
| | | | | | | 3 | Crest | urve 80m | S of c | culvert cl. | | | |
| Roadway Widt | th (m) | | 6.700 | | | | | | | | | | |
| Embankment | | | | | 8 | 8 | | | | | | | |
| Sideslope (_ | _:1) | | 4.0 | | | | | | | | | | |
| (Height of Co | over(m) | : 7) | | | | | | | | | | | |
| Guardrail (Y/N |) | | No | | | | | | | | | | |
| Approach Roa | ad / Eml | bankment | t General Rat | ing | 3 | 3 | | | | | | | |
| | | | | | | Upstre | am End | | | | | | |
| Culvert Comp | onent | | | | Last | Now | | ation of C | Condi | tion | | | |
| Direction | , | | | | E | | | | | | | | |
| End Treatment (Concrete, Steel, CONCRETE Others, None) | | | | | | | | | | | | | |
| Headwall | | | | | 9 | 8 | | | | | | | |
| Collar | | | 9 | N | Snow covered | | | | | | | | |
| Wingwalls | | | | X | X | | | | | | | | |
| (Shape: |) | | | | | | 1 | | | | | | |
| | | | | | | | | | | | | | |

| | | | Heetro | on End |
|---------------------------------------------------|-------------------|----------|-----------------|----------------------------------|
| Culvert Component | | Last | Now | am End Explanation of Condition |
| Cutoff Wall | | N | NOW | Explanation of Condition |
| Cuton vvan | | - 11 | _ '` ` | |
| Bevel End | | 9 | N | Snow covered |
| Heaving (mm) | 0 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 1000 | | | |
| Scour Protection | | 9 | N | Snow covered |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 500) | | | | |
| Scour/Erosion | | 9 | N | Snow covered |
| Beavers (Y/N) | No | | | |
| Upstream End General Rating | | 9 | 8 | |
| | | | | |
| Culvert Component | | | Now | Ivert Barrel |
| Culvert Component (Pipe # : 1, Primary Span, Loca | tion Codo: MAIN S | - | | Explanation of Condition |
| | | span (mm | ı) . | , Rise (mm): 2430, Type: RP) |
| Barrel Last Accessible Date | 27-Mar-2013 | | | 1928mm ice to crown |
| Special Features | | · | | |
| Special Feature | | 9 | 8 | 6.75 deg. vertical elbow |
| (Type: BARREL ELBOW) | | | | |
| Special Feature | | | | |
| (Type:) | | | | |
| Roof | | 9 | 8 | Ice on floor - unable to measure |
| Measured Rise (mm) | 2417 | | | |
| Measured At Ring No. | 10 | | | |
| Sag (mm) | 13 | | | |
| Percent Sag | 1 | | | |
| Sidewall | | 9 | 8 | |
| Measured Span (mm) | 2423 | | | |
| Measured At Ring No. | 10 | | | |
| Deflection (mm) | 7 | | | |
| Percent Deflection | 0 | | | Deflection inward. |
| Floor | | 9 | N | Ice on floor |
| Bulge (mm) | | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | No | | | |
| Circumferential Seams | | 9 | 8 | |
| Separation (mm) | | | | |
| Longitudinal Seams | | 9 | 8 | |
| Total No. of Cracked Rings | | | | |
| Total No. of Rings with Two Cracked Seams | | | | |
| Min. Remaining Steel Between Cracks (mm) | | | | |
| Proper Lap (Y/N) | Yes | | | |
| Longitudinal Stagger (Y/N) | Yes | | | |
| Coating | | 9 | 8 | |
| Corrosion By Soil (Y/N) | No | | | |
| Corrosion By Water (Y/N) | No | | | |
| Camber POS/ZERO/NEG | POS | | | |
| | 1 | | | |

| | | Brio | lge Cu | lvert Barrel |
|---------------------------------------------|----------------------|-------|--------|------------------------------|
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Locat | tion Code: MAIN, Spa | n (mm |): | , Rise (mm): 2430, Type: RP) |
| Ponding (Y/N) | No | | | |
| Fish Passage Adequacy | | 8 | 8 | |
| Baffle | | Х | Х | |
| (Type:) | | | | |
| Waterway Adequacy | | 9 | 6 | |
| Icing (Y/N) | Yes | | | |
| Silting (Y/N) | No | | | |
| Drift (Y/N) | No | | | |
| Barrel General Rating | | 9 | 8 | |
| | | Dric | dae Cu | lvert Barrel |
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Locat | tion Code: D/S. Span | | | Rise (mm): 2700, Type: MP) |
| Barrel Last Accessible Date | 27-Mar-2013 | (). | | 1958mm ice to crown |
| Darrer Last Accessible Date | 21-IVIAI-2013 | | | 1330mm loe to crown |
| Special Features | | | | |
| Special Feature | | | | |
| (Type:) | | | 1 | |
| Special Feature | | | | |
| (Type:) | | | | |
| Roof | | 9 | 8 | Ice on floor |
| Measured Rise (mm) | 2708 | | | Measured 14.5m from d/s end. |
| Measured At Ring No. | | | | |
| Sag (mm) | 8 | | | Deflection upward. |
| Percent Sag | | | | |
| Sidewall | | 9 | 8 | Measured 14.5m from d/s end. |
| Measured Span (mm) | 2651 | | | - |
| Measured At Ring No. | | | | |
| Deflection (mm) | 49 | | | Deflection inward. |
| Percent Deflection | 2 | | 1 | |
| Floor | | 9 | N | Ice on floor |
| Bulge (mm) | | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | No | _ | T - | |
| Circumferential Seams | | 9 | 8 | |
| Separation (mm) | 30 | | | |
| Longitudinal Seams | | Х | 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 | | 9 | 8 | |
| Corrosion By Soil (Y/N) | No | | | |
| Corrosion By Water (Y/N) | No | | | |
| Camber POS/ZERO/NEG | ZERO | | | |

| | | Brid | lge Cu | lvert Barrel | | | | |
|-----------------------------------------------|----------------------|----------|--------|----------------------------|--|--|--|--|
| Culvert Component | | Last Now | | Explanation of Condition | | | | |
| (Pipe #: 1, Primary Span, Loca | tion Code: D/S, Span | (mm): | , F | Rise (mm): 2700, Type: MP) | | | | |
| Ponding (Y/N) | No | | | | | | | |
| Fish Passage Adequacy | | | 8 | | | | | |
| Baffle | | | Х | | | | | |
| (Type:) | | | | | | | | |
| Waterway Adequacy | | 9 | 9 | | | | | |
| Icing (Y/N) | Yes | | | | | | | |
| Silting (Y/N) | No | | | | | | | |
| Drift (Y/N) | No | | | | | | | |
| Barrel Extension General Ratin | ng | 9 | 8 | | | | | |
| | | D | ownstr | ream End | | | | |
| Culvert Component | | Last | | Explanation of Condition | | | | |
| Direction | <u> </u> | W | INOW | Explanation of Condition | | | | |
| End Treatment (Concrete, Steel, Others, None) | CONCRETE | VV | | | | | | |
| Headwall | | 9 | 9 | | | | | |
| Collar | | 9 | N | Snow covered | | | | |
| Wingwalls | | Х | Х | | | | | |
| (Shape:) | | | | | | | | |
| Cutoff Wall | | N | N | | | | | |
| Bevel End | | 9 | 8 | Based on 40% visibility | | | | |
| Heaving (mm) | 0 | | | | | | | |
| Invert Above/Below Stream Bed | BELOW | | | | | | | |
| Above/Below (mm) | 500 | | | | | | | |
| Scour Protection | | 9 | N | Snow covered | | | | |
| (Type : RIP RAP) | | | | | | | | |
| (Avg. Rock Size(mm) : 300) | | 1 | 1 | | | | | |
| Scour/Erosion | | 9 | N | Snow covered | | | | |
| Beavers (Y/N) | No | | | | | | | |
| Downstream End General Ratio | ng | 9 | 8 | | | | | |
| | | S | tructu | re Usage | | | | |
| | | Last | | Explanation of Condition | | | | |
| Channel (U/S and D/S) | | | | | | | | |
| Alignment | | 7 | 7 | | | | | |
| Bank Stability | | 5 | 5 | Slumping banks downstream. | | | | |
| HWM (m below Top of Culvert) | | | | HWM not visible. | | | | |
| 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 | | 8 | 7 | | | | | |

| | | | Maintena | nce Recommen | dations | | | | | |
|--------------------------------------------|-------------------------|----------------------|----------|-------------------------------------|--------------------------------------|-------------------------|-----------|----------------|-----------|----|
| Inspector Recommendations | 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) 100. | 100.0/88.9 Suffi (%) | | Sufficiency Rating (Last/Now) %) | | 86.3/69.6 Est. Repl. Yr | | 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 | | | | | | | | | | |
| On 3-Year Program (Y/N) | | | | | | | | | | |
| Proposed Action | | | | | | | | | | |
| Previous Inspector's Name Brian | | Brian Pientsch Pre | | | ious Assistant's Name Lisbeth Medina | | | | | |
| Next Inspection Date | 22-Jun-2016 | 6 | | Previous | Inspection Date | 13-Nov-2009 | | | | |
| Inspection Cycle (Default) (months) | 39 | | | | | | | | | |
| Comment | | | | | | | | | | |