00330 -1 Bridge Culvert

| | | | | | Bride | o Culv | art Inca | ection | | | | | |
|--|----------|-------------|-----------------------|-----------|-----------------------|---|------------------------------------|---|--|-----------------|-----------------------|-----------|--|
| Bridge File Nun | | | | | Bridg | idge Culvert Inspecti Form Type | | | | CUL1 | | | |
| Year Built 1967 | | | | | | Lot No. | | 1 | | | | | |
| Bridge or Town Name ARDROSSAN | | | | | | | | Inspector Name | | Eric Carcoux | | | |
| | | | RY TO POINTE-AUX-PINS | | | Inspector Class | | BR CLS A | | | | | |
| CREEK, 6.72.3, WATERCRS | | | | | | Assistant Name | | DIX OLO A | | | | | |
| Located On 16:20 R1 5.911;16:20 L1 5.911 | | | | | | Assistant Class | | | | | | | |
| Water Body Cl. | /Year | | | | | | Inspection Date | | 09-Aug-2012 | | | | |
| Navigabil. Cl./Year | | | | | | | | Data Entry By | | Theresa Lacusta | | | |
| Legal Land Location NE SEC | | | 10 TMD 53 DCE 22 M/4M | | | | Data Entry Date | | 17-Sep-2012 | | | | |
| | | | 9:26, 53:34:12 | | | | Reviewer Name | | Stew Hagan | | | | |
| | | | Transportation (AIT) | | | | Review Date | | 13-Sep-2012 | | | | |
| Contract Main. Area CMA09 | | | | | | | Dept. Reviewer Name | | - | | | | |
| Clear Roadway | /Skew | 25 / | | | | | Dept. Review Date | | 09-Oct-2012 | | | | |
| AADT/Year | | 18,360 / 2 | 2011 (A) | | | | Follow- | | | | | | |
| Road Classifica | ation | RAD-412 | .4-120 | | | | _ | , , | | | | | |
| Detour Length | ` ' | 1 | | | | | | | | | | | |
| Bridge Culvert | | | | | | | | | | | | | |
| Number of Culv | | 1 | | | | | | | | I | | | |
| Pipe # | Barrel | S | pan | Rise (or | Dia.) | Туре | | Length | | Corr. Profile | PI./Slab Thickness | Shape | |
| 1 | MAIN | 2 | 610 | 2877 | | SPE | | 98.8 | | 152X51 | 2.8 | ELLIPSE | |
| 1 | D/S | | 610 | 2877 | | SPE | | 6.1 | | 152X51 | 2.8 | ELLIPSE | |
| Special Feature | | | ROP STRUC | | | O. L | | 0.1 | | 102/101 | 2.0 | TEELII OE | |
| Special Feature | | | | | | | | | | | | | |
| Operation of the control of the cont | | | | | | | | | | | | | |
| | | | | | Ut | ilities (L | ocated | at) | | | | | |
| Utility Attachme | | | | | | | | | 1 | | | | |
| Telephone | | | n r/w in servic | e road. | | | Gas | | | | | | |
| Power | 3 wire | s North r/\ | W. | | | | Municip | | | | | | |
| Others | | | | | | | Probler | n (Y/N) | No | | | | |
| Remarks | File ta | ıg U/S. | | | | | | | | | | | |
| | | | | A | | | | ankment | | tion | | | |
| Harisantal Alimonarat | | | | Last 8 | Now 8 | Explanation of Condition Off ramp to east. | | | | | | | |
| Horizontal Alignment | | | | | | 7 | 4 lane divided and 1 service road. | | | | | | |
| Vertical Alignment | | 32.800 | | 7 | | | | | | | | | |
| Roadway Width (m) | | 32.000 | | | | | | | | | | | |
| Embankment | | | | 6 | 5 | Minor ditch erosion @ | | sion @ | SW, 300 x 300mm x 30m. Grass established | | | | |
| Sideslope (| _:1) | | 3.0 | | | | - no problem. Hwy is 6:1. | | | | | | |
| (Height of Co | ver(m) : | 2.5) | | | | | 1, .0 | | | | | | |
| Guardrail (Y/N) Yes | | | | | South side EB & North | | | n side. North service road (too low - 200mm). | | | | | |
| Approach Road / Embankment General Rating | | | _ | _ | | | | | | | | | |
| Approach Roa | ia / Emi | oankment | General Rat | ing | 7 | 7 | | | | | | | |
| | | | | | | Upstre | am End | | | | | | |
| Culvert Compo | onent | | | | Last | | | ation of | Condi | tion | | | |
| Direction | | | | | S | | | | | | | | |
| End Treatment Others, None) | (Concre | ete, Steel, | STEEL | | | | | | | | | | |
| Headwall | Headwall | | | Х | X | | | | | | | | |
| Collar | | | Х | X | | | | | | | | | |
| Wingwalls | | | X | X | | | | | | | | | |
| (Shape:) | | | | | | | | | | | | | |

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| Upstream End | | | | | | | | | | |
|---|----------------------|--------|---------|--|--|--|--|--|--|--|
| Culvert Component | | Last | Now | Explanation of Condition | | | | | | |
| Cutoff Wall | | X | X | | | | | | | |
| Caton Train | | | | | | | | | | |
| Bevel End | | 7 | 7 | | | | | | | |
| Heaving (mm) | | | | | | | | | | |
| Invert Above/Below Stream Bed | | | | | | | | | | |
| Above/Below (mm) | 0 | | _ | | | | | | | |
| Scour Protection | | 6 | 6 | Vegetation over rock. Approx 0.3 - 0.4m of settlement beside bevel. | | | | | | |
| (Type : RIP RAP) | | | | | | | | | | |
| (Avg. Rock Size(mm) : 300) | | | | | | | | | | |
| Scour/Erosion | | 6 | 6 | | | | | | | |
| Beavers (Y/N) | No | | | | | | | | | |
| Upstream End General Rating | | 6 | 6 | | | | | | | |
| Opstream End General Rating | | | | | | | | | | |
| | | Brid | dge Cu | Ivert Barrel | | | | | | |
| Culvert Component | | Last | Now | Explanation of Condition | | | | | | |
| (Pipe # : 1, Primary Span, Loca | tion Code: MAIN, Spa | an (mm |): 2610 | , Rise (mm): 2877, Type: SPE) | | | | | | |
| Barrel Last Accessible Date | 03-Mar-2007 | | | Viewed from end, water too deep to access, appears to be no change. | | | | | | |
| Special Features | | | | | | | | | | |
| Special Feature | | N | N | Median drain | | | | | | |
| (Type : DROP STRUCTURE) | | | | STEEL TRANSITION - "6". | | | | | | |
| Special Feature | | | | Rust covered. | | | | | | |
| (Type:) | | | | | | | | | | |
| Roof | | N | N | Section of SPCSP replaced with liner plate near centerline. | | | | | | |
| Measured Rise (mm) | | IN | I IN | Could not measure rise due to gravel on floor03-Mar-2007 | | | | | | |
| Measured At Ring No. | | | | (20/June/2005) | | | | | | |
| Sag (mm) | 200 | | | (2000110/2000) | | | | | | |
| Percent Sag | 200 | | | | | | | | | |
| Sidewall | | N | N | (3rd ring from D/S cracked on both sides, 75mm of steel remaining. | | | | | | |
| Measured Span (mm) | 2810 | IN | IN | 20/June/2005) (Not visible, seam under ice. Cracked ring under | | | | | | |
| Measured At Ring No. | 2010 | | | service road, not under Hwy. No change in measurement this inspection. 03/Mar/2007) Could not rate due to limited access (R4). | | | | | | |
| Deflection (mm) | 200 | | | R1 - 2605, R4 - 2578, beyond R4 down to D/S - silt & ice26-Nov- | | | | | | |
| Percent Deflection 8 | | | | _ 2008 | | | | | | |
| Floor | , o | N | N | | | | | | | |
| Bulge (mm) | | IN | IN | | | | | | | |
| Measured At Ring No. | | | | | | | | | | |
| Abrasion (Y/N) | | | | | | | | | | |
| Circumferential Seams | | N | N | Hole repaired in west wall, tear in liner section repaired. Minor | | | | | | |
| Separation (mm) | 30 | IN | IN | construction damage ring 8 & 9 west wall - photo20-Jun-2005 | | | | | | |
| Longitudinal Seams | | N | N | | | | | | | |
| Total No. of Cracked Rings | 1 | 14 | 1 1 4 | | | | | | | |
| Total No. of Rings with Two Cracked Seams | 1 | | | | | | | | | |
| Min. Remaining Steel Between Cracks (mm) | 75 | | | 1N Stagger | | | | | | |
| Proper Lap (Y/N) | No | | | - ITT Oldgyer | | | | | | |
| Longitudinal Stagger (Y/N) | Yes | | | | | | | | | |
| Coating | | N | N | Pitting in lower sections silt & water03-Mar-2007 | | | | | | |
| Corrosion By Soil (Y/N) | No | | | g iono. occurro on a mater. oc mai 2007 | | | | | | |
| | | | | | | | | | | |
| Corrosion By Water (Y/N) | Yes | | | | | | | | | |

| | | Brid | dge Cu | Ivert Barrel |
|---|----------------------|------|--------|--|
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 1, Primary Span, Loca | tion Code: MAIN, Spa | | | |
| Camber POS/ZERO/NEG | NEG | | | |
| Ponding (Y/N) | No | | | |
| Fish Passage Adequacy | | 5 | 5 | |
| Baffle | | Х | Х | |
| (Type:) | | | | |
| Waterway Adequacy | | 7 | 7 | Gravel and rocks. |
| Icing (Y/N) | No | | | |
| Silting (Y/N) | No | | | |
| Drift (Y/N) | Yes | | | |
| Barrel General Rating | | 2 | 2 | (G.R. carried forward from 20/June/2005, longitudinal seam & sidewall governed.) |
| | | D | ownstr | ream End |
| Culvert Component | | Last | Now | Explanation of Condition |
| Direction | | N | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | |
| Headwall | | Х | Х | |
| Collar | | Х | Х | |
| Wingwalls | | Х | Х | |
| (Shape:) | | 1 | 1 | |
| Cutoff Wall | | Х | 7 | |
| Bevel End | | 7 | 7 | |
| Heaving (mm) | 100 | | | |
| Invert Above/Below Stream Bed | | | | |
| Above/Below (mm) | 0 | | 1 | |
| Scour Protection | | 7 | 7 | |
| (Type : NATURAL) | | | | |
| (Avg. Rock Size(mm):) | | | | |
| Scour/Erosion | | 7 | 7 | |
| Beavers (Y/N) | Yes | | | Dam 8m d/s. |
| Downstream End General Ratio | ng | 7 | 7 | |
| | | S | tructu | re Usage |
| | | Last | Now | Explanation of Condition |
| Channel (U/S and D/S) | | | 1 | |
| Alignment | | 8 | 8 | |
| Bank Stability | | 5 | 5 | |
| HWM (m below Top of Culvert) | | | | HWM not visible. |
| Drift (Y/N) Yes | | | | Brqanches d/s. |
| Channel Bottom Degrading/Aggrading | DEGRADING | | | |
| Beavers (Y/N) | No | | | |
| (Fish Compensation Measure 1 : | NONE) | | | |
| (Fish Compensation Measure 2 : | NONE) | | | |

| Structure Usage | | | | | | | | |
|------------------------|-----------------------------------|---|--|--|--|--|--|--|
| | Last Now Explanation of Condition | | | | | | | |
| Channel General Rating | | 8 | | | | | | |

| | | | Maintenance | Recommend | ations | | | | | |
|--|--|---------------------------------|--|---------------------------|------------------------|-------------------------------|------|----------------|-----------|-------|
| Inspector Recommendations | | Year | Inspector Comments | | Department Com | ments | | Target Year | Est. Cost | Cat # |
| SHOTCRETE RE | PAIRS | | | | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | | | | |
| INSTALL CONCRETE/STEEL LINING | | 9 | | | | | | | | |
| INSTALL STRUTS | | | | | | | | | | |
| INSTALL CONCR | RETE COLLAR/CUT | OFF | | | | | | | | |
| REPAIR SEAMS | | | | | | | | | | |
| OTHER ACTION | | 2012 | Upgrade North guardrail in service meet standard height. | e road to | | | | | | |
| OTHER ACTION | | 2012 | Bridge assessment, if not comple | ted. | | | | | | |
| OTHER ACTION | | | | | | | | | | |
| OTHER ACTION | | | | | | | | | | |
| Structural Condition Rating (Last/Now) (%) | | ow) 22.2/2 | 2.2 Sufficiency Rating (La: | st/Now) | 46.8/48.7 | Est. Repl. Yr | 2015 | Maint. Re | qd. (Y/N) | Yes |
| Special Comments for Next Inspection | crack length or defl call to R5 as meas | ection are the surements remain | urrent inspection cycle adequate. No same as last inspection. LRA issued n same as previous03-Mar-2007 Sept 2012(R. Hussain). | change in but no phone | Department Comments | | | | | |
| Maintenance Reviewed By | | | | | Date | | E | Estimated Tota | 1 0 | |
| Proposed Long-To | · | | | | | | | | | |
| On 3-Year Progra | am (Y/N) | | | | | | | | | |
| Proposed Action | | | | | | | | | | |
| Previous Inspector's Name Arr | | Arnold Assenheimer Previ | | | us Assistant's Name | | | | | |
| Next Inspection D | ate | 09-May-2014 | 09-May-2014 Previous | | | s Inspection Date 27-Apr-2011 | | | | |
| Inspection Cycle (| | 21 | | | | | | | | |
| Comment | | | | | | | | | | |