| | | | | | Bridg | e Culve | ert Insp | ection | | | | | |
|--|---------|------------------------------|-----------------------|-----------------------------|--------------------------|---|------------------|-----------------------------|------------------|---------------|-----------------------|--------|--|
| Bridge File Num | ber | 76191 - | ·1 Bridge Culve | rt | | | Form 7 | | | CUL1 | | | |
| Year Built 1966 | | | | | | Lot No | - | | 1 | | | | |
| Bridge or Town I | Name | HONDO |) | | | | Inspec | tor Name | | Wade Nanninga | | | |
| Located Over TRIBUTAF WATERCF | | ARY TO ROURKE CK, 8.11.82.1, | | | Inspector Class | | BR CLS A | | | | | | |
| Located On | | 2:46 C1 | | | | | | Assistant Name | | | | | |
| Water Body Cl./Year | | | 0.001 | | | | | ant Class | | | | | |
| Navigabil. Cl./Ye | | | | | | | | tion Date | | 28-Mar-2013 | | | |
| Legal Land Loca | | NE SE | C 15 TWP 70 R | GF 1 W5 | M | | | ntry By | | Theresa Lacus | sta | | |
| Longitude, Latitu | | | 3:53, 55:03:44 | <u> </u> | - | | | Data Entry Date 23-Apr-2013 | | | | | |
| Road Authority | ide | | | (ΔΙΤ) | | | Reviewer Name | | Eric Carcoux | | | | |
| Contract Main. A | \rea | CMA10 | ransportation (AIT) | | | | Review Date | | 17-Apr-2013 | | | | |
| Clear Roadway/ | | 10.6 / | <u> </u> | | | | | Dept. Reviewer Name | | | | | |
| | | | 2012 (Δ) | 012 (A) | | | | Dept. Review Date | | 23-Apr-2013 | | | |
| | | | / 2012 (A) 210-110 | | | | Follow-Up By | | | | | | |
| Road Classification RAU-210- Detour Length (km) 5 | | 10 110 | | | | | | | | | | | |
| Bridge Culvert | | | | | | | | | | I. | | | |
| Number of Culve | | | 1 | | | | | | | | | | |
| | Barrel | | Span | Rise (or | Dia.) | Туре | | Length | | Corr. Profile | Pl./Slab Thickness | Shape | |
| 1 | MAIN | | _ | 2430 SP RT TIMBER STRUTS | | | 59.7 | | 152X51 | 111101111000 | ROUND | | |
| Special Features | | | VERT TIMBER | | 3 | <u>, U.</u> | | 100 | | 102/101 | | TROOMS | |
| Special Features | | ment | VERT THREET | OINOIC | | | | | | | | | |
| Operation Contained | | | | | | | | | | | | | |
| | | | | | Uti | ilities (L | ocated | at) | | | | | |
| Utility Attachmer | | | | | | | | | 1 | | | | |
| Telephone | West | r/w. | | | | | Gas | | | | | | |
| Power | | | | | | | Munici | | | | | | |
| Others | | | ng guage u/s. | | | | Problem (Y/N) No | | | | | | |
| Remarks | BF tag | g installe | ed @ top of Eas | | | | | _ | | | | | |
| | | | | A | | | | ankment | | | | | |
| | | | Last | Now | Explanation of Condition | | | | | | | | |
| Horizontal Alignment | | | 6 | | 6 | Limited sight distance both sides. No passing NBL | | | | | | | |
| Vertical Alignment | | | | 0 | | 76100 | 300m So | uth | | | | | |
| | | | | | | | 70103 | 300111 00 | uti i | | | | |
| Roadway Width (m) 10.600 | | 10.600 | | | | | | | | | | | |
| Embankment | | · | | 4 | N | 1m dia | x 1m dee | ep sink | hole in both sid | deslopes over | pipe. Not | | |
| Embankment Sideslope (:1) | | 3.0 | | | | affectir | ng emban | kment | stabilityJul, 20 | 011 | | | |
| (Height of Cov | er(m): | 7) | <u> </u> | | | | | | | | | | |
| Guardrail (Y/N) | | | Yes | | | | | | | | | | |
| Approach Road | d / Emb | oankme | nt General Rat | ing | 6 | 6 | | | | | | | |
| | | | | | | Upstre | am End | | | | | | |
| Culvert Compo | nent | | | | Last | | 1 | nation of | Condi | tion | | | |
| Direction | | | | | Е | | | | | | | | |
| End Treatment (Others, None) | Concre | ete, Stee | el, STEEL | | | | | | | | | | |
| Headwall | | | | | Х | Х | | | | | | | |
| Collar | | | | | Х | X | | | | | | | |
| Wingwalls | | | | Х | X | | | | | | | | |
| (Shape:) | | | | | | | | | | | | | |

76191 -1 Bridge Culvert

| | | | linstra | am End |
|---|-------------------|--------|---------|--|
| Culvert Component | | Last | Now | Explanation of Condition |
| Cutoff Wall | | X | X | Explanation of condition |
| Cuton Wan | | | | |
| Bevel End | | 5 | 5 | |
| Heaving (mm) | 100 | | | |
| Invert Above/Below Stream Bed | BELOW | | | |
| Above/Below (mm) | 400 | | | |
| Scour Protection | | 4 | 4 | Erroded 500mm around bevel but stablized in grass and willows. |
| (Type : NONE) | | | | |
| (Avg. Rock Size(mm):) | | | | |
| Scour/Erosion | | 4 | 4 | |
| Beavers (Y/N) | Yes | | | Dam on inlet. |
| Upstream End General Rating | | 4 | 4 | |
| | | | | |
| Outroot Occ | | | | Ivert Barrel |
| Culvert Component | tion Code: MAIN C | | Now_ | Explanation of Condition |
| (Pipe # : 1, Primary Span, Loca | | an (mm |): | , Rise (mm): 2430, Type: SP) |
| Barrel Last Accessible Date | 28-Mar-2013 | | | 1 m ice |
| Special Features | | | | |
| Special Feature | | N | 4 | Double 100 x 300 TT. |
| (Type: VERT TIMBER STRUTS |) | | | First vertical is missing or knocked over. |
| Special Feature | | | | That vertical is missing of knocked over. |
| (Type:) | | | | |
| Roof | | N | 4 | Cusping at ring 19. |
| Measured Rise (mm) | | | | |
| Measured At Ring No. | 13 | | | |
| Sag (mm) | | | | est |
| Percent Sag | 9 | | | |
| Sidewall | | N | 2 | 2 cracked seams in 7 rings. |
| Measured Span (mm) | 2815 | | | |
| Measured At Ring No. | 13 | | | |
| Deflection (mm) | 315 | | | |
| Percent Deflection | 13 | | | |
| Floor | | N | N | |
| Bulge (mm) | 0 | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | No | | | |
| Circumferential Seams | | N | 6 | |
| Separation (mm) | 0 | | | |
| Longitudinal Seams | | N | 2 | 19 rings with defects of some kind. Either corrugation distortion or |
| Total No. of Cracked Rings | 17 | | | cusping or cracks. 7 rings cracked at 3 & 9 o'clock. |
| Total No. of Rings with Two | 7 | | | No steel left & plates slide ove each other at ring 11. Steel ring |
| Cracked Seams | | | | installed to repair. Steel plate installed to repair rings 10 & 12. Several cracked rings have bolts torn out of plates. |
| Min. Remaining Steel Between Cracks (mm) | 25 | | | |
| Proper Lap (Y/N) | No | | | 1N Stagger |
| Longitudinal Stagger (Y/N) | Yes | | | caggo |
| Coating | | N | 5 | Extensive corrosion lower 1/2 of barrel10-Sep-2010 |
| Corrosion By Soil (Y/N) | Yes | | | |
| Corrosion By Water (Y/N) | Yes | | | |
| Camber POS/ZERO/NEG | ZERO | | | |

| | | Brio | lge Cu | lvert Barrel | | | | |
|---|-------|------|--------|---|--|--|--|--|
| Culvert Component | | | Now | Explanation of Condition | | | | |
| (Pipe # : 1, Primary Span, Location Code: MAIN, Spa | | |): | , Rise (mm): 2430, Type: SP) | | | | |
| Ponding (Y/N) | No | | | | | | | |
| Fish Passage Adequacy | | 4 | 4 | Hampered by perched outlet at low water. | | | | |
| Baffle | | Х | Х | | | | | |
| (Type:) | | 1 | 1 | | | | | |
| Waterway Adequacy | | 4 4 | | Dam @ U/S opening. Large scour hole d/s. | | | | |
| Icing (Y/N) | No | | | - Large 3000 Hole 4/3. | | | | |
| Silting (Y/N) | No | | | | | | | |
| Drift (Y/N) | No | | 1 | <u> </u> | | | | |
| Barrel General Rating | | 2 | 2 | | | | | |
| | | D | ownstr | ream End | | | | |
| Culvert Component | | Last | Now | Explanation of Condition | | | | |
| Direction | | W | | | | | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | | | | | |
| Headwall | | Х | X | | | | | |
| Collar | | Х | Х | | | | | |
| Wingwalls | | Х | Х | | | | | |
| (Shape:) | | | | | | | | |
| Cutoff Wall | | Х | Х | | | | | |
| Bevel End | | 4 | 4 | Bevel projects from fill 2000 mm is contileverd and unsupported for | | | | |
| Heaving (mm) | 0 | | | 1000mm. | | | | |
| Invert Above/Below Stream Bed | ABOVE | | | 20 x 10 x 1.5m(l.w.d.) scour pool downstream. | | | | |
| Above/Below (mm) | 500 | | | | | | | |
| Scour Protection | | 4 | 4 | | | | | |
| (Type : RIP RAP) | | | | | | | | |
| (Avg. Rock Size(mm) : 100) | | | | | | | | |
| Scour/Erosion | | 4 | 4 | | | | | |
| Beavers (Y/N) No | | | | | | | | |
| Downstream End General Ratio | ng | 4 | 4 | | | | | |
| | | S | tructu | re Usage | | | | |
| | | Last | Now | Explanation of Condition | | | | |
| Channel (U/S and D/S) | | | T _ | | | | | |
| Alignment | | 5 | 5 | | | | | |
| Bank Stability | | 7 | 6 | | | | | |
| HWM (m below Top of Culvert) | | | | Not visible. | | | | |
| Drift (Y/N) Yes | | | | Dam at inlet. | | | | |
| Channel Bottom Degrading/Aggrading NONE | | | | | | | | |
| Beavers (Y/N) No | | | | | | | | |
| (Fish Compensation Measure 1 : | NONE) | | | | | | | |
| (Fish Compensation Measure 2 : | NONE) | | 1 | | | | | |
| Channel General Rating | | 5 | 5 | | | | | |

| | | Maintenance F | Recommendations | | | | |
|---|--------------|--|---------------------------|-------------------|----------------|-----------|-----|
| Inspector Recommendations | Year | Inspector Comments | Department Con | Target Year | Est. Cost | Cat # | |
| SHOTCRETE REPAIRS | | | | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | |
| INSTALL CONCRETE/STEEL LININ | G | | | | | | |
| INSTALL STRUTS | | | | | | | |
| INSTALL CONCRETE COLLAR/CUT | OFF | | | | | | |
| REPAIR SEAMS | | | | | | | |
| OTHER ACTION | 2013 | Replace knocked down strut. | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| Structural Condition Rating (Last/I (%) | Now) 22.2/22 | 2.2 Sufficiency Rating (Las (%) | t/Now) 26.6/26.6 | Est. Repl. Yr 201 | 4 Maint. Re | qd. (Y/N) | Yes |
| Scheduled for rep | acement. | w rating15-Apr-2013 ast flowing seasons for safety to acce nonths or late summer/fall. p. Site is between BF 76034 & BF 76 | | | | | |
| Maintenance Reviewed By | | | Date | | Estimated Tota | I 0 | |
| Proposed Long-Term Strategy | | | | | | | |
| On 3-Year Program (Y/N) | | | | | | | |
| Proposed Action | | | | | | | |
| Previous Inspector's Name | Eric Carcoux | | Previous Assistant's Name | | | | |
| Next Inspection Date | 28-Dec-2014 | | Previous Inspection Date | | | | |
| | | | | | | | |
| Inspection Cycle (Default) (months) | 21 | | | | | | |