| Bidge File Number | | | | | | | | | | | | | | |
|--|---|----------------|--------------------------------|---------------------|-------------|----------|------------|----------------------|--------------------|---------------------|-----------------|---|-------|--|
| Vaar BurkUned | | | | | | e Culve | | | | 0 | | | | |
| Bridge or Town Name LINDBERGH Inspector Name Kris Bosters | | | | | rt | | | | | | | | | |
| Located Over | | | | | | | | | | | | | | |
| ST | | | | | | | | | | | | | | |
| Located On | | | SEHILLS CREEK, 6.10, WATERCRS- | | | | | | | | | | | |
| Mater Body CL/Year | Located On | | - | 21 16 407 | | | | Assistant Name | | Brian Cote | | | | |
| Navigabil. CL/Year Legal Land Location NE SEC 27 TWP 56 ROE 5 W4M Data Entry By Theresa Lacusta 15-Jan-2013 15-Jan | | Voor | 040.04 (| C1 10.407 | 71 16.407 | | | | Assistant Class | | | | | |
| Legal Land Location Legal Card Secretary Legal Land Location Legal Land Land Land Land Land Land Land Land | | | | | | | | | Inspection Date | | 10-Dec-2012 | | | |
| Longitude, Latitude | | | NE SEC | 27 TWD 56 D | | | | Data Entry By | | Theresa Lacusta | | | | |
| Alberta Transportation (AIT) | | | | | GE 5 WAIVI | | | Data Entry Date | | 15-Jan-2013 | | | | |
| Contract Main. Area CMA08 | | | | | | | | Reviewer Name | | Eric Carcoux | | | | |
| Clear Roadway/Skew 9.1 | | | | ransportation (AIT) | | | | Review Date | | 19-Dec-2012 | | | | |
| AADTYNear 1,650 / 2011 (A) Follow-Up By | | | | | | | | Dept. Reviewer Name | | Paul Catt | | | | |
| Road Classification RCU-209-110 5 | | y/Skew | | | | | | Dept. Review Date | | | | | | |
| Detour Length (km) 5 | | | | | | | | Follow-U | р Ву | | | | | |
| Pridge Culvert Information Number of Culverts | | | | 9-110 | | | | - | | | | | | |
| Number of Culvers 1 | | ` ' | | | | | | | | | | | | |
| Pipe # Barrel Span Rise (or Dia.) Type Length Corr. Profile PL/Slab Thickness Shape Thickness Thickness Shape Thickness Shape Thickness Shape Thickness | | | | | | | | | | | | | | |
| Special Features Special Fea | | | | | | | 1 | | | | | | | |
| 2 | Pipe # | Barrel | | Span | Rise (or Di | a.) | Туре | L | ength | | Corr. Profile | | Shape | |
| Special Features | 2 | | | - | 2200 | | MP | 3 | 7 | | 125X26 | + | ROUND | |
| Utility Attachments | Special Featur | 1 | | | | | | | | | | | | |
| Utilities (Located at) | | | mont | | | | | | | | | | | |
| Utility Attachments Telephone Sas Municipal | Special realui | es Com | ment | | | | | | | | | | | |
| Telephone | | | | | | Ut | ilities (L | _ocated at | t) | | | | | |
| Now | Utility Attachme | ents | | | | | | | | | | | | |
| Problem (Y/N) | | | | | | | Gas | | | | | | | |
| Remarks | | | | | | | | Municipa | I | | | | | |
| Approach Road / Embankment Last Now Explanation of Condition | | | | | | | | Problem | (Y/N) | | | | | |
| Horizontal Alignment | Remarks | | | | | | | | | | | | | |
| Horizontal Alignment Vertical Alignment S S S Pipe located on superelevated curve. Steep grade West of pipe. Farm / oilfield entrance 100m West. Roadway Width (m) 9.100 Embankment 7 7 Sideslope (_:1) 3.0 (Height of Cover(m) : 4.1) Guardrail (Y/N) No Approach Road / Embankment General Rating 5 5 Upstream End Culvert Component Direction End Treatment (Concrete, Steel, Others, None) Headwall 6 6 Void @ 2:00 between liner and headwall. Form rods not cut and grouted. Collar 8 N Snow covered. Wingwalls | | | | | Арр | roa | ch Road | d / Emban | kment | | | | | |
| Vertical Alignment 5 5 Steep grade West of pipe. Farm / oilfield entrance 100m West. | | | | | L | ast | Now | Explanat | ion of C | Condi | tion | | | |
| Roadway Width (m) 9.100 Embankment 7 7 Sideslope (_:1) 3.0 (Height of Cover(m): 4.1) Approach Road / Embankment General Rating Toulvert Component Last Direction End Treatment (Concrete, Steel, Others, None) Headwall Collar None Farm / oilfield entrance 100m West. Toulvest. Toulvest. Toulvest. Farm / oilfield entrance 100m West. Toulvest. Toulvest. | Horizontal Alig | nment | | | | 5 | 5 | Pipe loca | ited on s | upere | elevated curve. | | | |
| Roadway Width (m) 9.100 | Vertical Alignment | | | | | | Steep gra | ade Wes Ifield en | st of pi trance | pe. : 100m West. | | | | |
| Sideslope (_:1) 3.0 | Roadway Width (m) | | 9.100 | | | | | | | | | | | |
| (Height of Cover(m) : 4.1) Guardrail (Y/N) Approach Road / Embankment General Rating 5 5 Upstream End Culvert Component Last Now Explanation of Condition Direction End Treatment (Concrete, Steel, Others, None) Headwall Collar B N Snow covered. Wingwalls X X | Embankment | | | | | 7 | 7 | | | | | | | |
| (Height of Cover(m) : 4.1) Guardrail (Y/N) Approach Road / Embankment General Rating 5 5 Upstream End Culvert Component Last Now Explanation of Condition Direction End Treatment (Concrete, Steel, Others, None) Headwall Collar B N Snow covered. Wingwalls X X | | | 3.0 | | | | 1 | | | | | | | |
| Guardrail (Y/N) No Sproach Road / Embankment General Rating 5 5 Upstream End Culvert Component Last Now Explanation of Condition Direction N End Treatment (Concrete, Steel, Others, None) Headwall 6 6 Void @ 2:00 between liner and headwall. Form rods not cut and grouted. Collar 8 N Snow covered. Wingwalls X X | | | | | | | 1 | | | | | | | |
| Culvert Component Last Now Explanation of Condition Direction N End Treatment (Concrete, Steel, Others, None) CONCRETE Others, None) Headwall 6 6 Void @ 2:00 between liner and headwall. Form rods not cut and grouted. Collar 8 N Snow covered. Wingwalls X X | | | No | | | | | | | | | | | |
| Culvert Component Last Now Explanation of Condition Direction N End Treatment (Concrete, Steel, Others, None) CONCRETE Headwall 6 6 Void @ 2:00 between liner and headwall. Form rods not cut and grouted. Collar 8 N Snow covered. Wingwalls X X | Approach Road / Embankment General Rating | | ting | 5 | 5 | | | | | | | | | |
| Culvert Component Last Now Explanation of Condition Direction N End Treatment (Concrete, Steel, Others, None) CONCRETE Headwall 6 6 Void @ 2:00 between liner and headwall. Form rods not cut and grouted. Collar 8 N Snow covered. Wingwalls X X | | | | | | | Unstre | am End | | | | | | |
| Direction N End Treatment (Concrete, Steel, Others, None) CONCRETE Others, None) Headwall Collar 8 N Snow covered. Wingwalls X X | Culvert Comp | onent | | | | ast | | | ion of C | Condi | tion | | | |
| End Treatment (Concrete, Steel, Others, None) Headwall Collar 8 N Snow covered. Wingwalls CONCRETE Void @ 2:00 between liner and headwall. Form rods not cut and grouted. | _ | J U III | | | | | | | | | | | | |
| Headwall 6 6 Void @ 2:00 between liner and headwall. Form rods not cut and grouted. Collar 8 N Snow covered. Wingwalls X X | End Treatment | (Concre | ete, Stee | I, CONCRETE | | <u> </u> | | | | | | | | |
| Wingwalls X X | , | | | | 6 6 | | | | | | | | | |
| | Collar | | | | 8 | N | Snow co | Snow covered. | | | | | | |
| (Shape:) | Wingwalls | | | | | X | X | | | | | | | |
| | (Shape:) | | | | | | | | | | | | | |

| | | | Instra | am End |
|--|--------------------|-----------|--------|---|
| Culvert Component | | Last | Now | Explanation of Condition |
| Cutoff Wall | I. | N | N | Explanation of containon |
| | | | | |
| Bevel End | | 7 | N | Longer than standard length. Superficial rust07-Oct-2009 |
| Heaving (mm) | 100 | | | |
| Invert Above/Below Stream Bed | ABOVE | | | |
| Above/Below (mm) | 100 | | | |
| Scour Protection | | 5 | N | |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 400) | | | | |
| Scour/Erosion | | 5 | N | Fill has dropped 500mm along East collar. Visible through snow, unsure if condition worsened. |
| Beavers (Y/N) | No | | | |
| Upstream End General Rating | | 5 | 5 | Carried over. |
| | | Brid | dge Cu | Ivert Barrel |
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 2, Secondary Span, Lo | ocation Code: MAIN | , Span (r | nm): | , Rise (mm): 2200, Type: MP) |
| Barrel Last Accessible Date | 07-Oct-2009 | | | Running water in culvert, not accessible. |
| Special Features | | <u> </u> | | |
| Special Feature | | | | |
| (Type:) | | | | |
| Special Feature | | | | |
| (Type:) | | <u> </u> | | |
| Roof | | 5 | N | 600mm wide top plate missing 7m from u/s end. Conc, fills void-from |
| Measured Rise (mm) | 2176 | | | original const.(photo)-07-Oct-2009 |
| Measured At Ring No. | | | | @ cl |
| Sag (mm) | 24 | | | |
| Percent Sag | | | | |
| Sidewall | • | 8 | N | Liner looks OK from both ends. North end of the original pipe dented |
| Measured Span (mm) | 2214 | | | from liner installation. No problem07-Oct-2009 |
| Measured At Ring No. | | | | @ cl |
| Deflection (mm) | 14 | | | |
| Percent Deflection | | | | |
| Floor | | 7 | N | |
| Bulge (mm) | | | | |
| Measured At Ring No. | | | | |
| Abrasion (Y/N) | No | | | |
| Circumferential Seams | | 7 | N | |
| Separation (mm) | | | | |
| Longitudinal Seams | | X | Х | |
| Total No. of Cracked Rings | | 7, | | 1 |
| Total No. of Rings with Two Cracked Seams | | | | |
| Min. Remaining Steel Between Cracks (mm) | | | | |
| Proper Lap (Y/N) | | | | |
| Longitudinal Stagger (Y/N) | | | | |
| Coating | | 5 | N | Superficial rust on floor of the original culvert07-Oct-2009 |
| Corrosion By Soil (Y/N) | No | | | _ |
| Corrosion By Water (Y/N) | Yes | | | |

| | | Brid | dge Cu | Ivert Barrel |
|---|-----------------------|---------|--------|---|
| Culvert Component | | Last | Now | Explanation of Condition |
| (Pipe # : 2, Secondary Span, Lo | ocation Code: MAIN, S | Span (r | nm): | , Rise (mm): 2200, Type: MP) |
| Camber POS/ZERO/NEG | ZERO | | | |
| Ponding (Y/N) | No | | | |
| Fish Passage Adequacy | | 4 | 4 | High stream velocity and riprap at outlet make it difficult for fish to pass. |
| Baffle | | Х | Х | |
| (Type:) | | | | |
| Waterway Adequacy | | 6 | 6 | |
| Icing (Y/N) | No | | | |
| Silting (Y/N) | No | | | |
| Drift (Y/N) | Yes | | | |
| Barrel General Rating | | 5 | N | Last rated 5 on 07-Oct-2009 |
| | | D | ownstr | ream End |
| Culvert Component | | Last | Now | Explanation of Condition |
| Direction | | S | | |
| End Treatment (Concrete, Steel, Others, None) | STEEL | | | |
| Headwall | | X | X | |
| Collar | | Х | X | |
| Wingwalls (Shape:) | | Х | X | |
| Cutoff Wall | | Х | Х | |
| Cuton Wan | | ^ | | |
| Bevel End | | 6 | N | Longer than standard bevel end. Superficial rust07-Oct-2009 |
| Heaving (mm) | 300 | | | |
| Invert Above/Below Stream Bed | ABOVE | | | |
| Above/Below (mm) | 500 | _ | | |
| Scour Protection | | 7 | 7 | Visible through snow at/near stream bed at outlet. |
| (Type : RIP RAP) | | | | |
| (Avg. Rock Size(mm) : 400) | | T _ | T _ | 10.000 |
| Scour/Erosion | | 7 | 5 | Large scour pool @ D/S but culvert is well protected. |
| Beavers (Y/N) | No | | | |
| Downstream End General Ratio | ng | 6 | 6 | Carried over. |
| | | S | tructu | re Usage |
| | | Last | Now | Explanation of Condition |
| Channel (U/S and D/S) | | | | |
| Alignment | | | 7 | |
| Bank Stability | | 4 | 4 | Large scour hole D/Sseems stabilized. Banks d/s of scour are slumping. |
| HWM (m below Top of Culvert) | | | | Not visible. |
| Drift (Y/N) | Yes | | | |
| 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 | | 4 | | | | | |

| | | Mainten | ance Recommendations | | | | |
|--|-------------|------------------------|---------------------------|--------------------------------------|----------------|-----------|---------|
| Inspector Recommendations | Year | Inspector Comments | Department Cor | nments | Target Year | Est. Cost | Cat # |
| SHOTCRETE REPAIRS | | | · | | | | |
| PLACE ADDITIONAL RIP RAP | | | | | | | |
| REMOVE DRIFT ACCUMULATION | | | | | | | |
| INSTALL CONCRETE/STEEL LINING | G | | | | | | |
| INSTALL STRUTS | | | | | | | |
| INSTALL CONCRETE COLLAR/CUT | OFF | | | | | | |
| REPAIR SEAMS | | | | | | | |
| OTHER ACTION | | | | | | | \perp |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| OTHER ACTION | | | | | | | |
| Structural Condition Rating (Last/N(%) | Now) 55.6/5 | Sufficiency Rating (%) | g (Last/Now) 51.5/50.9 | Est. Repl. Yr 20 | Maint. Re | qd. (Y/N) | No |
| Special Comments for Next Inspection | | | Department Comments | | | | |
| Maintenance Reviewed By | | | Date | | Estimated Tota | 0 | |
| Proposed Long-Term Strategy | | | | | | | |
| On 3-Year Program (Y/N) | | | | | | | |
| Proposed Action | | | | | | | |
| Previous Inspector's Name | Shane Hall | | Previous Assistant's Name | | | | |
| Next Inspection Date | 10-Mar-2016 | | Previous Inspection Date | Previous Inspection Date 07-Oct-2009 | | | |
| Inspection Cycle (Default) (months) | 39 | | | | | | |
| Comment | | | | | | | |