

Bridge Culvert Inspection			
Bridge File Number	02347 -1 Bridge Culvert	Form Type	CULE
Year Built/Lined	1959/1989	Lot No.	
Bridge or Town Name	LINDBERGH	Inspector Name	Eric Carcoux
Located Over	MOOSWA CREEK, 6.10.1, WATERCRS-ST	Inspector Class	BR CLS A
Located On	646:04 C1 17.107	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	24-Jan-2013
Legal Land Location	NW SEC 26 TWP 56 RGE 5 W4M	Data Entry By	Brent Herrick
Longitude, Latitude	-110:38:39, 53:52:14	Data Entry Date	24-Jan-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	
Contract Main. Area	CMA08	Review Date	
Clear Roadway/Skew	9.1 /	Dept. Reviewer Name	
AADT/Year	1,660 / 2012 (A)	Dept. Review Date	
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	5		

**Bridge Culvert Information**

Number of Culverts	2							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN Partially Lined	-	3050	SP	62.2	152X51	2.8,2.8,2.8	ROUND
2	MAIN PARTIAL LINER	-	2700	MP	52	125X26	2.8,2.8,2.8	ROUND
Special Features	BEAVR CTRL DEV							
Special Features Comment								

**Utilities (Located at)**

Utility Attachments			
Telephone		Gas	
Power		Municipal	
Others		Problem (Y/N)	
Remarks			

**Approach Road / Embankment**

	Last	Now	Explanation of Condition
Horizontal Alignment	5		
Vertical Alignment	6		
Roadway Width (m)			
Embankment	4		
Sideslope (__:1)			
(Height of Cover(m) : 7)			
Guardrail (Y/N)			
<b>Approach Road / Embankment General Rating</b>	<b>5</b>		

**Upstream End**

Culvert Component	Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Secondary Span)			
Direction	N		
End Treatment (Concrete, Steel, Others, None)			
Headwall	X		
Collar	7		

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 1, Span Type: Secondary Span)</b>				
Wingwalls		X		
(Shape : )				
Cutoff Wall		N		
Bevel End		6		
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		7		
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>400</b> )				
Scour/Erosion		7		
Beavers (Y/N)				
<b>Upstream End General Rating</b>		<b>6</b>		

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 1, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3050, Type: SP)</b>				
Barrel Last Accessible Date				
<b>Special Features</b>				
Special Feature				
(Type : <b>BEAVR CTRL DEV</b> )				
Special Feature				
(Type : )				
Roof				
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall				
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor				
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams				
Separation (mm)				
Longitudinal Seams				
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)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 1, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3050, Type: SP)</b>				
Coating				
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG				
Ponding (Y/N)				
Fish Passage Adequacy				
Baffle				
(Type : )				
Waterway Adequacy				
Icing (Y/N)				
Siltting (Y/N)				
Drift (Y/N)				
<b>Barrel General Rating</b>				

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 1, Span Type: Secondary Span)</b>				
Direction		S		
End Treatment (Concrete, Steel, Others, None)				
Headwall		X		
Collar		X		
Wingwalls		X		
(Shape : )				
Cutoff Wall		X		
Bevel End		7		
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		7		
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>400</b> )				
Scour/Erosion		7		
Beavers (Y/N)				
<b>Downstream End General Rating</b>		<b>7</b>		

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 2, Span Type: Primary Span)</b>				
Direction		N		
End Treatment (Concrete, Steel, Others, None)				
Headwall				
Collar				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 2, Span Type: Primary Span)</b>				
Wingwalls				
(Shape : )				
Cutoff Wall				
Bevel End				
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection				
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>400</b> )				
Scour/Erosion				
Beavers (Y/N)				
<b>Upstream End General Rating</b>				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 2, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2700, Type: MP)</b>				
Barrel Last Accessible Date				
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof				
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall				
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor				
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams				
Separation (mm)				
Longitudinal Seams				
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)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 2, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2700, Type: MP)</b>				
Coating				
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG				
Ponding (Y/N)				
Fish Passage Adequacy				
Baffle				
(Type : )				
Waterway Adequacy				
Icing (Y/N)				
Siltng (Y/N)				
Drift (Y/N)				
<b>Barrel General Rating</b>				

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 2, Span Type: Primary Span)</b>				
Direction		S		
End Treatment (Concrete, Steel, Others, None)				
Headwall				
Collar				
Wingwalls				
(Shape : )				
Cutoff Wall				
Bevel End				
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection				
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>400</b> )				
Scour/Erosion				
Beavers (Y/N)				
<b>Downstream End General Rating</b>				

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		7		
Bank Stability		7		
HWM (m below Top of Culvert)				
Drift (Y/N)				

Structure Usage				
		Last	Now	Explanation of Condition
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)				
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</b>		

Maintenance Recommendations						
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
INSTALL CONCRETE/STEEL LINING						
INSTALL STRUTS						
INSTALL CONCRETE COLLAR/CUTOFF						
REPAIR SEAMS						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>44.4/</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>59.6/</b>	Est. Repl. Yr		Maint. Req. (Y/N)
Special Comments for Next Inspection			Department Comments			
Maintenance Reviewed By			Date	Estimated Total	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	24-Apr-2016		Previous Inspection Date	07-Oct-2009		
Inspection Cycle (Default) (months)	39					
Comment						