

Bridge Culvert Inspection				
Bridge File Number	75435 -1 Bridge Culvert		Form Type	CUL1
Year Built	1961		Lot No.	3
Bridge or Town Name	LACOMBE		Inspector Name	Jason Saly
Located Over	MUNICIPAL		Inspector Class	BR CLS A
Located On	2:26 R1 22.788;2:26 L1 22.812		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	20-Mar-2013
Legal Land Location	SE SEC 6 TWP 41 RGE 26 W4M		Data Entry By	Marcia Chavez
Longitude, Latitude	-113:44:04, 52:29:50		Data Entry Date	01-Apr-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	CMA19		Review Date	26-Mar-2013
Clear Roadway/Skew	22.3 /		Dept. Reviewer Name	Chris Black
AADT/Year	25,890 / 2011 (A)		Dept. Review Date	09-Apr-2013
Road Classification	RFD-412.4-130		Follow-Up By	
Detour Length (km)	1			

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	6096	4267	BP	55			RECTANGLE
Special Features								
Special Features Comment								

**Posting Information**

Required Vert. Clearance Posting (m)	UNDER: MUNICIPAL 4.2m											
Posted Vertical Clearance (Y/N)	No											
Posted:	Lane	EB	On Bridge (m)		In Advance (Y/N)	No	Lane	WB	On Bridge (m)		In Advance (Y/N)	No
Remarks	Not required.											

**Utilities (Located at)**

Utility Attachments											
Telephone	West r/w.					Gas					
Power	3 wire 50m West & East of c/l.					Municipal					
Others						Problem (Y/N)		No			
Remarks											

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	On grade. Crest to the North.
Vertical Alignment		7	7	
Roadway Width (m)	22.300			
Embankment		7	7	3 timber blocks missing from W rail & 1 block broken at E rail.
Sideslope (___:1)	3.0			
(Height of Cover(m) : 2.5)				
Guardrail (Y/N)	Yes			
<b>Approach Road / Embankment General Rating</b>		<b>7</b>	<b>7</b>	

**Upstream End**

Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		6	6	Rebar stains along headwall.
Collar		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls (Shape : <b>FLARE</b> )		5	5	Wingwall pushed in 100mm @ North, 155mm South. Strut across wings @ top.
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection (Type : ) (Avg. Rock Size(mm) : )		X	X	
Scour/Erosion		X	X	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>5</b>	<b>5</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 6096, Rise (mm): 4267, Type: BP)				
Barrel Last Accessible Date	20-Mar-2013			
<b>Special Features</b>				
Special Feature (Type : )				
Special Feature (Type : )				
Roof		6	6	Some leaching and efflorescence on roof near W end.
Measured Rise (mm)	4267			
Measured At Ring No.	1			
Sag (mm)	0			
Percent Sag	0			
Sidewall		6	6	Vertical 0.3 to 0.5mm wide cracks @ 3 to 4m. Span at W end=6121=25mm Span at midpipe=6094=2mm Span at E end=6109=13mm
Measured Span (mm)	6121			
Measured At Ring No.				
Deflection (mm)	25			0.4%
Percent Deflection	0			
Floor		N	N	Gravel covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	5	All circumferential seams have seeping water.
Separation (mm)	20			
Longitudinal Seams		X	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		X	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 6096, Rise (mm): 4267, Type: BP)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	Municipal.
Baffle		X	X	
(Type : )				
Waterway Adequacy		X	X	Gravel on floor to accomodate local traffic for land access.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>6</b>	<b>6</b>	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		6	6	
Collar		X	X	
Wingwalls (Shape : <b>FLARE</b> )		4	4	Wingwalls pushed in 140mm N, 410mm S. Separated from barrel, 70mm N, 180mm South. Gap @ SE filled with ACP/sheathing to hold bank fill. Strut across wing. 4mm wide diagonal crack in South. Wing at top & 1mm wide vertical cracks at 1 to 2m spacing both wingwalls.
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		X	X	
(Type : )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		X	X	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>4</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		4	4	For local use only. Land access with poor alignment.
Roadway Surface		5	5	
(Type : )				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type	None			
Lighting		X	X	

Structure Usage				
		Last	Now	Explanation of Condition
Barrel Leakage (Y/N)	Yes			
Drainage		7	7	
Structure In Use (Y/N)	Yes			Gate across East end bowed and unable to be locked, left open.
<b>Grade Separation General Rating</b>		<b>4</b>	<b>4</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
OVERLAY DECK							
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION	2013	Install guardrail blocks.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>66.7/66.7</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>63.9/63.8</b>	Est. Repl. Yr	2033	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor movement of wingwalls at both ends. No action required for 4 rated alignment.		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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	20-Dec-2014		Previous Inspection Date	15-Sep-2011			
Inspection Cycle (Default) (months)	21						
Comment							