

Bridge Culvert Inspection								
Bridge File Number	75428 -1 Bridge Culvert				Form Type	CULM		
Year Built	1961				Lot No.	4		
Bridge or Town Name	LACOMBE				Inspector Name	Jason Saly		
Located Over	WOLF CREEK, 5.56, WATERCRS-ST				Inspector Class	BR CLS A		
Located On	2:26 L1 26.172;2:26 R1 26.150				Assistant Name			
Water Body Cl./Year					Assistant Class			
Navigabil. Cl./Year					Inspection Date	20-Mar-2013		
Legal Land Location	SW SEC 9 TWP 41 RGE 26 W4M				Data Entry By	Marcia Chavez		
Longitude, Latitude	-113:41:22, 52:30:35				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	25.8 /				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	3656	2438	BP	80			RECTANGLE
Special Features								
Special Features Comment								
Utilities (Located at)								
Utility Attachments								
Telephone					Gas			
Power					Municipal			
Others					Problem (Y/N)	No		
Remarks								
Approach Road / Embankment								
			Last	Now	Explanation of Condition			
Horizontal Alignment			7	7	On ramp over the pipe on the west side.			
Vertical Alignment			8	8				
Roadway Width (m)	30.900							
Embankment			7	7	Snow covered. Wide transverse cracks in ACP on either side of structure, all lanes (4) - sealed.			
Sideslope (:1)	4.0							
(Height of Cover(m) : 1.1)								
Guardrail (Y/N)	Yes							
Approach Road / Embankment General Rating			7	7				
Upstream End								
Culvert Component			Last	Now	Explanation of Condition			
Direction			E		South box.			
End Treatment (Concrete, Steel, Others, None)	CONCRETE							
Headwall			7	7				
Collar			X	X				
Wingwalls			5	5	Pulled away upto 30mm. Parging peeling off at SE, minor.			
(Shape :)								
Cutoff Wall			N	N				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	200			
Scour Protection		5	N	(Concrete slab floor cracking and heaved about 150mm in center. 15Sep2011) - Snow covered.
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		5	N	Snow covered.
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1828, Rise (mm): 2438, Type: BP, Cell Sequence: 1)				
Barrel Last Accessible Date	20-Mar-2013			South box.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	Could not measure rise due to ice.
Measured Rise (mm)	2438			
Measured At Ring No.	1			
Sag (mm)	0			
Percent Sag	0			
Sidewall		7	6	Span at E end=1842=14mm (Span at 1/4pt=1837=9mm) Span at midpt=1820=18mm (Span at 3/4pt=1827=1mm) Span at W end=1839=11mm Spall near SW wingwall. 0.8%
Measured Span (mm)	1842			
Measured At Ring No.				
Deflection (mm)	14			
Percent Deflection	1			
Floor		7	N	Ice covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	5	
Separation (mm)	40			
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)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1828, Rise (mm): 2438, Type: BP, Cell Sequence: 1)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)		No		
Siltting (Y/N)		No		
Drift (Y/N)		No		
Barrel General Rating		7	6	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1828, Rise (mm): 2438, Type: BP, Cell Sequence: 2)				
Barrel Last Accessible Date		20-Mar-2013		North box.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	Could not measure rise due to ice.
Measured Rise (mm)		2438		
Measured At Ring No.		1		
Sag (mm)		0		
Percent Sag		0		
Sidewall		7	7	(Span at 14pt=1827=1mm) Span at midpt=1820=8mm (Span at 3/4pt=1828=0mm) Span at W end=1834=6mm Span at E end=1821=7mm Inwards. 0.4%
Measured Span (mm)		1820		
Measured At Ring No.				
Deflection (mm)		8		
Percent Deflection		0		
Floor		7	N	Ice covered.
Bulge (mm)		0		
Measured At Ring No.				
Abrasion (Y/N)		No		
Circumferential Seams		6	5	
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)		No		
Corrosion By Water (Y/N)		No		
Camber POS/ZERO/NEG		ZERO		
Ponding (Y/N)		No		

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1828, Rise (mm): 2438, Type: BP, Cell Sequence: 2)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		Extended in 1999.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	
Collar		X	X	
Wingwalls		5	5	SW wing separated 30mm at top.
(Shape :)				
Cutoff Wall		N	N	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		5	N	Snow covered.
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		5	N	Snow covered.
Beavers (Y/N)	No			
Downstream End General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)				Grass on top wire at d/s fence (photo 3). Small sized.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

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							
Structural Condition Rating (Last/Now) (%)	77.8/66.7	Sufficiency Rating (Last/Now) (%)	71.1/65.6	Est. Repl. Yr	2031	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Monitor wingwall separating.		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							