

Bridge Culvert Inspection									
Bridge File Number	75404 -1 Bridge Culvert				Form Type	CUL1			
Year Built	1961				Lot No.	3			
Bridge or Town Name	PINE LAKE				Inspector Name	Owen Salava			
Located Over	TRAIL-ANIMAL, OVER SP				Inspector Class	BR CLS A			
Located On	42:08 C1 29.690				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	26-Nov-2012			
Legal Land Location	SW SEC 25 TWP 36 RGE 25 W4M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-113:27:07, 52:06:54				Data Entry Date	06-Dec-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA19				Review Date	04-Dec-2012			
Clear Roadway/Skew	11.4 /				Dept. Reviewer Name	Andrew Smikles			
AADT/Year	1,450 / 2011 (A)				Dept. Review Date	10-Dec-2012			
Road Classification	RAU-211.8-110				Follow-Up By				
Detour Length (km)	6								
Bridge Culvert Information									
Number of Culverts	1								
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape	
1	MAIN	1724	1901	SPE	27.4	152X51	3.0	ELLIPSE	
Special Features									
Special Features Comment									
Posting Information									
Required Vert. Clearance Posting (m)									
Posted Vertical Clearance (Y/N)									
Posted:	Lane	NB	On Bridge (m)	In Advance (Y/N)	Lane	SB	On Bridge (m)	In Advance (Y/N)	
Remarks									
Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power					Municipal				
Others	Unknown cable through pipe attached to roof.				Problem (Y/N)	No			
Remarks									
Approach Road / Embankment									
			Last	Now	Explanation of Condition				
Horizontal Alignment			8	8	No passing EB. Blind sag and horizontal curve to the East.				
Vertical Alignment			6	6					
Roadway Width (m)	11.400								
Embankment			6	6					
Sideslope (___:1)	3.0								
(Height of Cover(m) : 1.5)									
Guardrail (Y/N)	Yes				N - 3 cable system; S - W-Beam on timber posts. 3 posts leaning at N.				
<b>Approach Road / Embankment General Rating</b>			<b>6</b>	<b>6</b>					
Upstream End									
<b>Culvert Component</b>			Last	Now	Explanation of Condition				
Direction			N						
End Treatment (Concrete, Steel, Others, None)	NONE								
Headwall			X	X					

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		7	N	Snow covered.
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		7	N	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>7</b>	<b>7</b>	GR carried forward from 12Apr2011.
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1724, Rise (mm): 1901, Type: SPE)				
Barrel Last Accessible Date	26-Nov-2012			
Special Features				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		7	7	Unable to measure due to dirt on floor.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag	0			
Sidewall		5	4	Missing crest bolts on bottom seams.
Measured Span (mm)	1710			
Measured At Ring No.	4			
Deflection (mm)	14			-14 Inwards.
Percent Deflection	0			
Floor		N	N	Dirt covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		5	4	Missing crest bolts on both bottom seams. (Farmer likely requested crest bolts be removed as hazard to hooves). Shape still good though.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1724, Rise (mm): 1901, Type: SPE)				
Coating		7	7	
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type : )				
Waterway Adequacy		6	6	Takes drainage from N.
Icing (Y/N)	No			
Siltting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>5</b>	<b>4</b>	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		6	N	Snow covered.
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		6	N	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>6</b>	<b>6</b>	GR carried forward from 12Apr2011.
Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		8	8	
Roadway Surface		7	7	Dirt covered.
(Type : <b>CONCRETE</b> )				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type	None			

Structure Usage				
		Last	Now	Explanation of Condition
Lighting		X	X	
Barrel Leakage (Y/N)	No			
Drainage		5	5	(Minor ponding (100mm) N end. 12Apr2011) - Ice at N end.
Structure In Use (Y/N)	Yes			Fenced across N field; no recent use.
<b>Grade Separation General Rating</b>		<b>5</b>	<b>5</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	2013	Repair cable rail.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>59.8/54.7</b>	Est. Repl. Yr	2021	Maint. Req. (Y/N)	No
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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	26-Aug-2014		Previous Inspection Date	12-Apr-2011			
Inspection Cycle (Default) (months)	21						
Comment							