

Bridge Culvert Inspection				
Bridge File Number	77974 -1 Bridge Culvert		Form Type	CUL1
Year Built	1974		Lot No.	4
Bridge or Town Name	CZAR		Inspector Name	Jason Saly
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS A
Located On	41:14 C1 35.730		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	26-Nov-2012
Legal Land Location	NW SEC 29 TWP 38 RGE 6 W4M		Data Entry By	Marcia Chavez
Longitude, Latitude	-110:50:10, 52:17:55		Data Entry Date	15-Jan-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	CMA22		Review Date	14-Dec-2012
Clear Roadway/Skew	11.4 /		Dept. Reviewer Name	Andrew Smikles
AADT/Year	1,120 / 2011 (A)		Dept. Review Date	17-Jan-2013
Road Classification	RAU-211.8-110		Follow-Up By	
Detour Length (km)	5			

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	-	2100	MP	32.9	68X13	2.8	ROUND
Special Features								
Special Features Comment								

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

Utilities (Located at)			
Utility Attachments			
Telephone	West r/w.		Gas
Power	3 line E, fence line.		Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	No passing NB, crest curve to the North.
Vertical Alignment		6	6	
Roadway Width (m)	11.400			
Embankment		N	N	Snow covered.
Sideslope (___:1)	4.0			
(Height of Cover(m) : 1.8)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		6	6	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)		NONE		
Headwall		X	X	
Collar		X	X	

Upstream End					
Culvert Component		Last	Now	Explanation of Condition	
Wingwalls (Shape :)		X	X		
Cutoff Wall		X	X		
Bevel End		X	X	Squared end. Gate at West end.	
Heaving (mm)	0				
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	200				
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 300)		N	N	Snow covered.	
Scour/Erosion		N	X		
Beavers (Y/N)	No				
Upstream End General Rating		7	7	GR was 7 from 17Aug2009.	
Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2100, Type: MP)					
Barrel Last Accessible Date	26-Nov-2012				
Special Features					
Special Feature (Type :)					
Special Feature (Type :)					
Roof		4	4		
Measured Rise (mm)					
Measured At Ring No.					
Sag (mm)	165			Sag estimated. 7.9 %	
Percent Sag	8				
Sidewall		4	4	Span at W end=2195=95mm Span at midpipe=2264=164mm=7.8%Span at E end=2189=89mm	
Measured Span (mm)	2264				
Measured At Ring No.					
Deflection (mm)	164			7.8%	
Percent Deflection	8				
Floor		N	N	Dirt covered.	
Bulge (mm)	0				
Measured At Ring No.					
Abrasion (Y/N)	No				
Circumferential Seams		6	6		
Separation (mm)	0				
Longitudinal Seams		7	7	Riveted.	
Total No. of Cracked Rings	0				
Total No. of Rings with Two Cracked Seams	0				
Min. Remaining Steel Between Cracks (mm)					
Proper Lap (Y/N)	Yes				
Longitudinal Stagger (Y/N)	Yes				
Coating		6	6	Minor.	
Corrosion By Soil (Y/N)	Yes				
Corrosion By Water (Y/N)	No				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2100, Type: MP)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		X	X	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
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	Squared end.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	250			
Scour Protection		N	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	X	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	GR was 7 from 17Aug2009.

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	7	Dirt covered.
Roadway Surface		N	N	
(Type : CONCRETE)				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type	None			
Lighting		X	X	
Barrel Leakage (Y/N)	No			

Structure Usage				
		Last	Now	Explanation of Condition
Drainage		7	7	
Structure In Use (Y/N)	Yes			
Grade Separation 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) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	67.5/67.0	Est. Repl. Yr	2024	Maint. Reqd. (Y/N)	No
Special Comments for Next Inspection	"4" rating for roof & sidewalls, measurement remain relatively constant; no other action required other than regular inspections.		Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)	N						
Proposed Action	2007.05.21 Revisit site again in two years to determine continued usage.						
Previous Inspector's Name	Jason Saly		Previous Assistant's Name				
Next Inspection Date	26-Aug-2014		Previous Inspection Date	08-Mar-2011			
Inspection Cycle (Default) (months)	21						
Comment							