					Bridg	e Culve	rt Insp	ection						
		-1 Bridge Culvert				Form Type CUL1								
Year Built 2001						Lot No	•		3					
Bridge or Town Name RED DEE			EER				Inspec	tor Name		Jason Saly				
Located Over TRIBUTAF WATERCF		ARY TO PIPER CREEK, 3.81.1.2,			Inspec	tor Class		BR CLS A						
Located On			CR3-51				Assista	Assistant Name						
Located On 595:02 C1 Water Body Cl./Year			C1 3.574	21 3.574				Assistant Class						
Navigabil. Cl./Year								tion Date		22-Nov-2011				
Legal Land Loca		S/W SE	C 5 TWD 38 D(2E 26 W/	IN/I			ntry By		Marcia Chave	Z			
										21-Dec-2011	21-Dec-2011			
Longitude, Latitude -113:41:25							Reviewer Name		John O'Brien					
Road Authority Alberta Tr Contract Main. Area CMA19		Transportation (AIT)				Review Date		15-Dec-2011						
Clear Roadway/		12.1 /					Dept. Reviewer Name							
AADT/Year			2010 (A)	2010 (A)				Review Da	ate	09-Jan-2012				
Road Classificat			-211.0-110				Follow-Up By							
Detour Length (F		3												
Bridge Culvert										1				
Number of Culve			1											
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN		-	2200		MP		48		125X26	2.8	ROUND		
Special Features														
Special Features		nent												
					114	::::: /I	(-1)						
Utility Attachmer	oto				Ut	ilities (L	ocateo	at)						
Telephone	In Sout	th ditch					Gas		200m	West.				
Power			orth r/w.				Munici	nal	200111					
Others	O WIIC (0111111	Otti i/w.				Problem (Y/N) No							
Remarks							1 10010	11 (1714)	110					
rtemante				A	oproac	ch Road	l / Emb	ankment						
					Last	Now		ation of		tion				
Horizontal Alignment					7	Typical farm approaches East & West of structure. In bottom of long gradual sag - good sight distance.								
Vertical Alignment			7		7	In botto	om of long	g gradu	ıal sag - good s	sight distance.				
Roadway Width (m)		12.100												
Embankment					7	7								
Sideslope (:	:1)		3.0											
(Height of Cov	/er(m) : 1	1.8)												
Guardrail (Y/N)		No												
Approach Road	d / Emba	ankme	nt General Rat	ing	7	7								
						Upstre	am End							
Culvert Compo	nent				Last	Now	Explar	ation of	Condi	tion				
Direction					N									
End Treatment (Others, None)	(Concret	te, Stee	ıl, STEEL											
Headwall			Х	Х										
Collar				Х	Х									
Wingwalls					Х	Х								
(Shape:)														
Cutoff Wall				Х	Х									

02458 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		8	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		8	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		8	N	Snow covered.
2.000	1			
Beavers (Y/N)	No			
Upstream End General Rating		8	7	
<u> </u>				
			T	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca		n (mm):	, Rise (mm): 2200, Type: MP)
Barrel Last Accessible Date	22-Nov-2011			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		8	8	Could not measure rise due to ice on floor.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	30			
Percent Sag				
Sidewall		8	8	Span at S end=2165=35
Measured Span (mm)	2235			Span at Midpipe=2235=35=1.6% Span at N End=2205=5
Measured At Ring No.				Span at N End=2205=5
Deflection (mm)	35			1.6%
Percent Deflection	2			1.070
Floor		8	N	(Minor dents due to rocks impacting steel during compaction - no
Bulge (mm)				problem. 29May2005). Snow covered.
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	
Separation (mm)	40			
Longitudinal Seams		Х	Х	
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		8	7	Water stains.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Culvert Component Last Now Explanation of Condition (Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 7, Rise (mm): 2200, Type: MP) Fish Passage Adequacy X X Baffle X X (Type :) Waterway Adequacy 8 8 Icing (Y/N) No No Drift (Y/N) No No	
Fish Passage Adequacy X X Baffle X X (Type:) Vaterway Adequacy 8 8 Icing (Y/N) No Silting (Y/N) No	
Baffle	
(Type :) 8 8 Waterway Adequacy 8 8 Icing (Y/N) No Silting (Y/N)	
Waterway Adequacy 8 8 Icing (Y/N) No Silting (Y/N) No	
Icing (Y/N) No Silting (Y/N) No	
Icing (Y/N) No Silting (Y/N) No	
Silting (Y/N) No	
Barrel General Rating 8 8	
Downstream End	
Culvert Component Last Now Explanation of Condition	
Direction S	
End Treatment (Concrete, Steel, Others, None)	
Headwall X X	
Collar X X	
Wingwalls X X	
(Shape:)	
Cutoff Wall X X	
Bevel End 8 7	
Heaving (mm) 0	
Invert Above/Below Stream Bed ABOVE Perch bevel 400mm from bevel to top of ice (photo).	
Above/Below (mm) 600	
Scour Protection 8 3	
(Type: RIP RAP)	
(Avg. Rock Size(mm) : 300)	
Scour/Erosion 8 3 Scour both sides of bevel; worst case E side 4m x 4m (photo	iotos).
Beavers (Y/N) No	
Downstream End General Rating 8 3	
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) HWM unknown.	
Drift (Y/N) No	
Channel Bottom Degrading/Aggrading Unknown.	
Beavers (Y/N) No	
(Fish Compensation Measure 1 : NONE)	
(Fish Compensation Measure 2 : NONE)	
Channel General Rating 7 7	

		Maintena	nce Recommendations					
Inspector Recommendations	Year	Inspector Comments	Department Con	Department Comments				
SHOTCRETE REPAIRS								
PLACE ADDITIONAL RIP RAP	2012	Re-armour S end of pipe ~40	n3.					
REMOVE DRIFT ACCUMULATION								
INSTALL CONCRETE/STEEL LINING	3							
INSTALL STRUTS								
INSTALL CONCRETE COLLAR/CUT	OFF							
REPAIR SEAMS								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/N (%)	low) 88.9/88	Sufficiency Rating (%)	(Last/Now) 86.5/79.9	Est. Repl. Yr	2050 Maint	t. Reqd. (Y/N)	Yes	
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	Dave Lam		Previous Assistant's Name					
Next Inspection Date	22-Feb-2015		Previous Inspection Date	ous Inspection Date 29-May-2005				
-			•					
Inspection Cycle (Default) (months)	39							