					Brida	e Culv	ert Insp	ection						
Bridge File Number 74146 -1 Bridge Culvert					Dirag		Form Type			CUL1				
Year Built										4				
Bridge or Town Name CARSELAND							Lot No. Inspector Name			Tom Carey				
Located Over		TRIBUTA	RIBUTARY TO BOW RIVER, 2.13.22,					tor Class		BR CLS A				
WATERCRS-ST Located On 24:04 C1 1.861							Assistant Name							
Water Body Cl./Year								Int Class						
Navigabil. Cl./									20-Feb-2013					
Legal Land Lo		NE SEC	5 TWP 22 RG	E 25 W4	M					Anne Roberts				
Longitude, Lat			5:40 50:50:41					ntry Date		19-Mar-2013				
			ransportation	(AIT)			Reviewer Name			Garry Roberts				
Contract Main. Area CMA3			ranoportation		Review Date			03-Mar-2013						
Clear Roadwa		8.5 /						Reviewer I		Tim Davies				
AADT/Year	y/ORCW		120 / 2011 (A)					Review Da	ate	25-Mar-2013				
Road Classific	ation	i	2,420 / 2011 (A) RCU-208-110				Follow	Follow-Up By						
Detour Length		3					-							
Bridge Culver		1					1			1				
Number of Cul		1												
Pipe #	Barrel	S	Span Rise (or		Dia.) Type			Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	-		1524		MP		24.7		68X13		ROUND		
Special Featur	es									1	-			
Special Featur	es Comi	ment			Uti	ilities (I	_ocated	at)						
Utility Attachm	ents													
Telephone							Gas							
Power							Municipal							
Others							Proble	m (Y/N)	No					
Remarks	None													
				Α	pproa	ch Roa	d / Emb	ankment						
					Last	Now		Explanation of Condition						
Horizontal Alig					6	6	Curve 400 m north 75 km/hr. On grade 2%.							
Vertical Alignm					6	6								
Roadway Width (m)			8.500											
Embankment					7	7								
Sideslope (_	_:1)		2.0											
(Height of Cover(m) : 2.2)														
Guardrail (Y/N)		No											
Approach Roa	ad / Eml	bankment	t General Rat	ing	6	6								
						Upstre	am End							
Culvert Component					Last	Now		ation of (Condi	tion				
Direction				W										
End Treatment (Concrete, Steel, Others, None)		STEEL												
Headwall				Х	X									
Collar				x	X									
Wingwalls				X	X									
(Shape :)														
Cutoff Wall				X	Х									
						-1								

Alberta Transportation

			Upstre	am End				
Culvert Component		Last	Now	Explanation of Condition				
Bevel End		7	7	_				
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW			Snow covered.				
Above/Below (mm)	200							
Scour Protection		7	7	Some rock under grass. Well grassed.				
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 100)								
Scour/Erosion		7	7					
Beavers (Y/N)	No							
Upstream End General Rating		7	7					
		Bri	dge <u>Cu</u>	Ivert Barrel				
Culvert Component		Last		Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm	ı):	, Rise (mm): 1524, Type: MP)				
Barrel Last Accessible Date	20-Feb-2013							
Special Features								
Special Feature								
(Туре :)								
Special Feature								
(Туре :)								
Roof		4	4	Isolated 100mm bulge @ roof 2m from d/s end				
Measured Rise (mm)	1380			MINOR CUSPING @ ROOF SEAMS				
Measured At Ring No.	2			-				
Sag (mm)	144			-				
Percent Sag	9							
Sidewall		5	5					
Measured Span (mm)	1620			-				
Measured At Ring No.	2			-				
Deflection (mm)	96							
Percent Deflection	6		_					
Floor		5	5	Moderate corrosion on entire length of floor.				
Bulge (mm)	0			-				
Measured At Ring No.				-				
Abrasion (Y/N)	No							
Circumferential Seams		8	8	Rivetted.				
Separation (mm)	50							
Longitudinal Seams		X	8					
Total No. of Cracked Rings	0							
Total No. of Rings with Two Cracked Seams	0							
Min. Remaining Steel Between Cracks (mm)	0							
Proper Lap (Y/N)								
Longitudinal Stagger (Y/N)								
Coating		5	5	Some alkali at seams & corrosion on entire length of floor.				
Corrosion By Soil (Y/N)	No							
Corrosion By Water (Y/N)	Yes			1				
Camber POS/ZERO/NEG	POS			SLIGHTLY				
Ponding (Y/N)	No							

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S	pan (mm):	, Rise (mm): 1524, Type: MP)
Fish Passage Adequacy		X	Х	
Baffle		X	X	
(Type:)				
Waterway Adequacy		9	9	
Icing (Y/N)	No		-	
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	
Barror Conoral Rading				
				ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		E		-
End Treatment (Concrete, Steel, Others, None)	End Treatment (Concrete, Steel, STEEL Others, None)			
Headwall		X	X	
Collar			Х	
Wingwalls		X	Х	
(Shape :)				
Cutoff Wall			X	
Bevel End			6	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm) 0				
Scour Protection			N	(WELL GRASSED IN.
(Type : RIP RAP)				Bevel undermined 500mm at end.) PR 4 Snow covered
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		4	N	(2500 mm WIDE x 700 mm DEEP x 8 m LONG scour hole). PR 4
Beavers (Y/N) No		_		
Downstream End General Ration	ng	4	4	(Waded in to most of it. Feels like it is rock lined.) GR carried forward.
		S	Structu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment			7	Low shallow banks.
Bank Stability			8	
HWM (m below Top of Culvert)				No visible hwm.
Drift (Y/N) No				1
Channel Bottom DEGRADING Degrading/Aggrading				@ D/S
Beavers (Y/N) No				1
(Fish Compensation Measure 1 :	-			
(Fish Compensation Measure 2 :	· · · · · · · · · · · · · · · · · · ·			
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/CUTC	FF												
REPAIR SEAMS													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/No (%)	ow)) 44.4/44.4		Sufficiency Rating (Last/Now) (%)		v) (63.2/63.2 Est. R		t. Repl. Yr	2021	Maint. Reqd. (Y/N)		No
Special Comments for Next Inspection							Department Comments						
Maintenance Reviewed By							Date			E	Estimated Tota	I 0	
Proposed Long-Term Strategy													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name To		Tom Carey Pr					evious Assistant's Name						
Next Inspection Date 2		20-Nov-2014 Previ					us Inspection Date 20-May-2011						
Inspection Cycle (Default) (months) 2													
Comment													