					Brida	e Culve	ert Insp	ection					
Bridge File Numbe	er	13974 -1 Bridge Culvert			~~~		Form Type			CUL1			
Year Built 1985						Lot No.			4				
Bridge or Town Name MORRIN							Inspector Name			Owen Salava			
Located Over			DER TRIBUT		RED DEER		Inspector Class		BR CLS A				
			3.53.1, WATE	RCRS-ST			Assistant Name						
Located On 27:10 C1 21.405							Assistant Class						
Water Body Cl./Year							Inspection Date		25-Oct-2012				
Navigabil. Cl./Yea		044.050	40 7145 04 5				Data Entry By		Marcia Chavez				
Legal Land Location			16 TWP 31 F	RGE 21 W	4IVI		Data Entry Date		08-Nov-2012				
Longitude, Latitude -112:56:02, 51:39:07						Reviewer Name		John O'Brien					
Road Authority Alberta Transportation (AIT)						Review Date		30-Oct-2012					
Contract Main. Are		CMA20	(DUE)				Dept. Reviewer Name		Andrew Smikles				
Clear Roadway/Sl			deg. (RHF)				Dept. Review Date		13-Nov-2012				
AADT/Year		1,890 / 2	` ,				Follow-Up By						
Road Classificatio		RAU-213	3.4-120										
Detour Length (km		46											
Bridge Culvert In  Number of Culvert		1											
	arrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape	
1 MA	AIN	_		1500		SP		36		152X51	3.0	ROUND	
Special Features				1.000				100		102/101		11100112	
Special Features (	Comm	nent											
					Uti	ilities (L	_ocated	at)					
Utility Attachments	S								I				
Telephone						Gas							
Power							Munici		ļ.,				
Others							Proble	m (Y/N)	No				
Remarks				Λ.	anroo	oh Boo	d / Emb	ankment					
				A						tion			
Horizontal Alignme	ent				4	4	Explanation of Condition  Winding down coulee to river.						
Vertical Alignment			4	4	On 6% grade - climbing lane. No passing EB, 150m before "Right Curve" sign. 200m E of RR21-4.								
Roadway Width (m) 13.700					ZOOM Z OF MAZE I								
Embankment					7	7							
Sideslope (:1)	)		3.0				1						
(Height of Cover		1.7)											
(gitt of cotol(iii) . III)						Gabion baskets in both ditches.							
Guardrail (Y/N) No		No	0			Sabion basicets in bottl			i ditories.				
Approach Road /	Emb	ankmen	t General Rat	ing	4	4							
Outros O							am End		0	(lan			
Culvert Compone	ent				Last	Now	Explai	nation of	Condi	tion			
Direction End Treatment (Conthers, None)	oncre	te, Steel,	STEEL		N		-						
Headwall			Х	Х									
Collar			Х	X									
Wingwalls				Х	X								
(Shape: )													

			Unetre	am End
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall	<u> </u>	X	X	Explanation of condition
Bevel End		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		N	N	Snow covered.
(Type: RIP RAP, GABION)				
(Avg. Rock Size(mm) : 100)			1	
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
		D.::	las C	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN Sn			, Rise (mm): 1500, Type: SP)
Barrel Last Accessible Date	20-May-2004	an (mm	<u>,.                                    </u>	D/S 60% of pipe filled with bush and silt. Not able to access culvert
Barrer Last Accessible Date	20-Way-2004			barrel, shape is adequate from outside view.
Special Features				
Special Feature				
(Type:)			T	
Special Feature				
(Type:)		1	1	
Roof	I	N	N	
Measured Rise (mm)	1500			
Measured At Ring No.	6			
Sag (mm)	0			
Percent Sag	0			
Sidewall		N	N	
Measured Span (mm)	1525			
Measured At Ring No.	6			
Deflection (mm)	25			
Percent Deflection	2		T	
Floor		N	N	Ice & dirt covered, average 900mm deep.
Bulge (mm)	0			
Measured At Ring No.	Vac			-
Abrasion (Y/N)	Yes			(Description and address of the Control of the Cont
Circumferential Seams		N	N	(Roof plate cut at bolt c/l at first ring from D/S - 1 m proper lap. 29-May-2004).
Separation (mm)	0			·
Longitudinal Seams		N	N	
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)	No			
Coating		N	N	(Corrosion with some pitting on floor at U/S and exterior of roof at
Corrosion By Soil (Y/N)	Yes			ends. Scaling @ bottom haunches @ U/S. 14-Feb-2006).
Corrosion By Water (Y/N)	Yes			,

		Brid	dge Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	):	, Rise (mm): 1500, Type: SP)
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	Yes			
Fish Passage Adequacy		Х	Х	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	Yes			
Barrel General Rating		N	N	
Culvert Component		Last	Now	eam End Explanation of Condition
Culvert Component Direction		S	INOW	Explanation of Condition
End Treatment (Concrete, Steel,	CTEEL	3		
Others, None)	SIEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape: )				
Cutoff Wall		Х	Х	
Bevel End		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	50			
Scour Protection		N	N	(Gabion baskets in place around pipe in ditch. 22Feb2008). Snow
(Type : RIP RAP, GABION)				covered.
(Avg. Rock Size(mm) : 100)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
			1	
Downstream End General Ratio	ng	6	6	
				re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	90 degree curves at both ends.
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :				
(Fish Compensation Measure 2 :	NONE)		1	
Channel General Rating		5	5	

		Maintenance	Recommendation	ns					
Inspector Recommendations	Year	Inspector Comments		partment Comn	nents		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS							3		
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	ì								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTO	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 55.6/55	.6 Sufficiency Rating (La (%)	st/Now) 42.6	/42.5	Est. Repl. Yr	2025	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection			De	epartment omments					
Maintenance Reviewed By			Da	ite		E	Estimated Tota	I 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Owen Salava		Previous Assi	stant's Name					
Next Inspection Date	25-Jul-2014		Previous Insp	ection Date	21-Dec-2010				
Inspection Cycle (Default) (months)	21								
Comment									