				R	rida	o Culve	art Inspa	ction				
Bridge File Number 75541 -1 Bridge Culvert				lug	e Guive	vert Inspection Form Type		CULM				
Year Built 1967							Lot No.			4		
Bridge or Towr	n Name	A VALLE					or Name		Owen Salava			
		ORDER TRIBUTARY TO RED DEER				Inspector Name Inspector Class		BR CLS A				
Localed Over			N/ED 3/13 W/ATEDCDS_ST				Assistant Name		DI OLO A			
Located On		41:10 C	1 25 835				Assistant Class					
Water Body Cl	./Year					Inspection Date		18-Jul-2012				
Navigabil. Cl./Year							Data Entry By		Marcia Chavez			
Legal Land Location SW SEC			C 10 TWP 25 R		itry Date		02-Aug-2012					
Longitude, Latitude -110:		-110:12	110.12.51 51.06.57					Reviewer Name		John O'Brien		
Road Authority Alberta			ta Transportation (AIT)					Review Date		31-Jul-2012		
Contract Main. Area CMA22								Dept. Reviewer Name			25	
Clear Roadway/Skew 10.8 /								Dept. Review Date		07-Aug-2012		
AADT/Year		580 / 20	011 (A)				Follow-l		ale .	07-Aug-2012		
Road Classific	ation	RAU-21	11.8-110				- Follow-C	эр ву				
Detour Length	(km)	3										
Bridge Culver	t Inform	ation										
Number of Cul	verts		2									
Pipe #	Barrel		Span	Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape
1	MAIN		-	1829		MP		30.5		68X13	3.5	ROUND
2	MAIN		-	1829		MP		30.5		68X13	3.5	ROUND
Special Featur	es											
Special Featur	es Comi	ment	Pipe #2 lower.									
					Uti	lities (L	_ocated a	at)				
Utility Attachm												
Telephone	West						Gas					
Power 3 wires East fen						Municip						
Others	Fibre	optics E	ast r/w.				Problem	n (Y/N)	No			
Remarks				-								
				_			d / Emba			ti a m		
Harizantal Alia	nmant			Lá	ast	Now	Explana				uth Long chal	laur aan armia
Horizontal Alig					7	7		ght dista		ces North & So	utn. Long snai	low sag curve,
Vertical Alignm			40.000		8	8	3 3					
Roadway Widt	n (m)		10.800									
Embankment					N	7						
Sideslope (_	_:1)		3.0									
(Height of Co		1.8)		'								
Guardrail (Y/N)			No									
Approach Roa	ad / Eml	pankme	nt General Rat			7						
							am End					
Culvert Comp				La	ast	Now	Explana	ation of	Condi	tion		
(Pipe # : 1, Sp	an Typ	e: Prima	ry Span)				1					
Direction End Treatment	t (Concre	ete, Stee	el, STEEL	E			South p	ipe.				
Others, None) Headwall					X	Х						
Collar					X	X						
Wingwalls					X	X						
(Shape:)				,,							
(Griape .)							1					

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	Span)			
Cutoff Wall		Х	X	
Bevel End		N	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	400			
Scour Protection		N	7	Mostly natural.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Brid	dge Cu	Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location	on Code: MAIN, Spar	n (mm	1):	, Rise (mm): 1829, Type: MP)
Barrel Last Accessible Date	18-Jul-2012			South barrel.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	5	
Measured Rise (mm)	1735			
Measured At Ring No.	2			
	94			
Percent Sag	5			
Sidewall		N	6	
Measured Span (mm)	1895			
Measured At Ring No.	2			
	66			
Percent Deflection 3	3			
Floor		N	5	
	0			1
Measured At Ring No.				
	No			
Circumferential Seams		N	6	
	30			
Longitudinal Seams		N	6	Riveted.
	0			
	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
	Yes			
Coating	-	N	6	
	No			
	Yes			

		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	ın (mm) :	, Rise (mm): 1829, Type: MP)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		N	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	5	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Direction		W		South pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		X	X	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		X	X	
Bevel End		N	6	Some rusting.
Heaving (mm)	0			
	ABOVE			
Above/Below (mm)	200			
Scour Protection		N	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)		1		
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	6	6	
		1		am End
Culvert Component	_ `	Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)	1		T
Direction		E		North pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	Х	
Collar		X	X	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		X	X	

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Bevel End		N	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		N	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Dei	dae Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN. S			, Rise (mm): 1829, Type: MP)
Barrel Last Accessible Date	18-Jul-2012	<u> </u>		North barrel.
Barror Edot / tooocolbro Bato	10 001 2012			Tional Ballon
Special Features			1	
Special Feature				-
(Type:)			1	
Special Feature				
(Type:)				
Roof		N	5	
Measured Rise (mm)	1720			
Measured At Ring No.	2			
Sag (mm)	109			6.0%
Percent Sag	6		_	
Sidewall		N	5	
Measured Span (mm)	1930			
Measured At Ring No.	2			
Deflection (mm)	101			5.5%.
Percent Deflection	5			
Floor		N	5	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	6	
Separation (mm)	60			
Longitudinal Seams		X	X	
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		N	6	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			

		Brid	dge Cu	Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1829, Type: MP)
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		N	6	Some rock in barrel, minor.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	5	
Culvert Component			Now	eam End Explanation of Condition
Culvert Component (Pipe # : 2, Span Type: Second	lory Snon)	Last	INOW	Explanation of Condition
	iary Spari)	10/		Nexte size
Direction Comments Office	OTEEL	W		North pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL		T	
Headwall		X	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		N	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		N	7	300mm rock in bevel end.
(Type: RIP RAP)				
(Avg. Rock Size(mm): 300)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	7	
		S	tructu	re Usage
			Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		N	7	
HWM (m below Top of Culvert)	0.9			
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			
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 Cor	Department Comments					
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
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 (%)	Now) 55.6/5	5.6 Sufficiency Rating (%)	(Last/Now) 72.0/62.8	Est. Repl. Yr 202	Maint. Re	qd. (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	Jason Saly		Previous Assistant's Name						
Next Inspection Date	18-Apr-2014		Previous Inspection Date	29-Mar-2011					
Inspection Cycle (Default) (months)	21								