Bridge Culvert Inspection													
Bridge File Number 71327 -1 Bridge Cul			Bridge Culver	lvert			Form Type		CULM				
Year Built 1969						Lot No.		2					
Bridge or Town Name ISLAND LAKE						Inspector Name		Todd Warshawski					
Located Over 2ND ORDER TRIBUTAR				RY TO ATHABASCA			Inspect	or Class		BR CLS B			
RIVER, 0.11.75.				./5.1, WATERCRS-ST				nt Name					
Water Rody CL Maar							Assista	Assistant Class					
Navigabil CL/Y	/ roar						Inspect	Inspection Date 29-Mar-2013					
Legal Land Loc	car ation NV	2 19 TWP 69 R	GE 24 W	/4M		Data Entry By Theresa Lacusta							
Longitude Latitude -113:39			32 54.59.27		/ 1101		Data Entry Date 15-Apr-2013						
Road Authority Alberta		berta T	rta Transportation (AIT)					Reviewer Name Eric Carcoux					
Contract Main, Area CMA10		MA10	A10					Review Date 03-Apr-2013					
Clear Roadway/Skew 10.3 /						Dept. F	Reviewer Name Brent Herrick						
AADT/Year	56	0 / 20 ⁻	12 (A)				Dept. F	Dept. Review Date 23-Apr-2013					
Road Classifica	ation RA	AU-21	1.8-110				Follow-	ор ву					
Detour Length	(km) 50)					-						
Bridge Culvert	Informatio	on											
Number of Culv	/erts	2	2										
Pipe #	Barrel	S	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape	
1	MAIN	-		1200		MP		30		68X13	2.8	ROUND	
2	MAIN	-		1200		MP		30		68X13	2.8	ROUND	
Special Feature	es												
Special Features Comment Barrel lengths not confirmed, it is over 30							30m.						
					Uti	lities (L	ocated	at)					
Utility Attachme	ents												
Telephone	lephone West r/w.						Gas						
Power	2 wires West r/w.						Municip	bal					
Others							Probler	n (Y/N)	No				
Remarks	_												
				<u> </u>	<u>l ast</u>	Now	Explanation of Condition						
Horizontal Alignment			7	7	Park a	cess to N	orth.						
Vertical Alignm	ent				6	6	Limited sight distance to south due to crest. No passing. Service road runs parallel to Hwy on west side.						
Roadway Width	ו (m)		10.300										
Embankment					7	7							
Sideslope (:1)		3.0										
(Height of Co	ver(m) : 3.	5)					1						
Guardrail (Y/N)			Yes	′es			East side only.						
Approach Roa	d / Emban	kmen	t General Rat	ing	6	6							
						Upstre	am End						
Culvert Compo	onent				Last	Now	Explan	ation of C	Condit	tion			
(Pipe # : 1, Span Type: Primary Span)													
Direction					E		North p	ipe.					
End Treatment (Concrete, Steel, NONE Others, None)													
Headwall					X	Х							
Collar					X	Х							
Wingwalls			v	Y	1								
					^	~							

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Cutoff Wall		X	X	
Bevel End		X	Х	Removed during beaver dam removalJul, 2011
Heaving (mm)				Water covered
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	700			
Scour Protection	·	5	N	Snow covered
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		5	N	Snow covered
Beavers (Y/N)	No			
Upstream End General Rating		5	5	GR carried fwd from Jul, 2011.
		Bri	dge <u>Cu</u>	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm	ı):	, Rise (mm): 1200, Type: MP)
Barrel Last Accessible Date	14-Sep-1995			Barrel not accessible, ice 0.3 from crown.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	N	(8% deflection, sag est. 29/Mar/2006) Upstream end damaged from
Measured Rise (mm)				beaver dam removal. Damage to inlet from beaver dam removal.
Measured At Ring No.				
Sag (mm)	100			
Percent Sag	8			
Sidewall		N	4	Upstream barrel is unravelling due to bevel removal.
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	100			
Percent Deflection	8			
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)				
Longitudinal Seams		X	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		5	N	Pitting rust most of barrelJul, 2011
Corrosion By Soil (Y/N)	No		-1	
Corrosion By Water (Y/N)	Yes			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

71327 -1 Bridge Culvert

		Brid	dge Cu	Ivert Barrel				
Culvert Component	Culvert Component			Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 1200, Type: MP)				
Camber POS/ZERO/NEG	NEG							
Ponding (Y/N)								
Fish Passage Adequacy		5	N					
Baffle		N	N					
(Туре :)								
Waterway Adequacy		5	N					
Icing (Y/N)	Yes			Ice 0.3m from crown				
Silting (Y/N)	No							
Drift (Y/N)	Yes							
Barrel General Rating		4	4	G.R. was "4" from 14/Sept/1995.				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Span Type: Primary	/ Span)							
Direction		W		North pipe.				
End Treatment (Concrete, Steel,	STEEL			· · · · · · · · · · · · · · · · · · ·				
Others, None)								
Headwall		Х	X					
Collar			X					
Wingwalls		X	X					
(Shape :)								
Cutoff Wall	Cutoff Wall		X					
Bevel End		5	N	Buried in snow/ice.				
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	700							
Scour Protection	Scour Protection		N	Snow covered				
(Type : NATURAL)								
(Avg. Rock Size(mm) :)								
Scour/Erosion	-	6	N					
Beavers (Y/N)	No							
Downstream End General Ration	ng	5	5	GR carried fwd from Jul, 2011				
			Upstre	am End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	lary Span)							
Direction	1	E		South pipe.				
End Treatment (Concrete, Steel, Others, None)	NONE							
Headwall		Х	X					
Collar		Х	Х					
Wingwalls		Х	Х					
(Snape:)		N						
Cutoff Wall		X	Х					

Alberta Transportation

	Upstream End									
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	lary Span)									
Bevel End		X	X	Removed with beaver dam removal.						
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW			_						
Above/Below (mm)	300									
Scour Protection		5	N							
(Type : NATURAL)										
(Avg. Rock Size(mm) :)										
Scour/Erosion		5	N							
Beavers (Y/N)	Yes									
Unstream End General Rating		5	5	GR carried fwd from Jul 2011						
opolioum End Conordi Kating		Ū	Ŭ							
		Bri	dge Cu	Ilvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAI	v, Span (i	mm):	, Кіse (mm): 1200, Туре: МР)						
Barrel Last Accessible Date	29-Mar-2013									
Special Features										
Special Feature				Only accessible for 5m u/s & d/s.						
(Type:)										
Special Feature				_						
(Type:)			_							
Roof		4	N	Could not measure rise due to ice on floor.						
Measured Rise (mm)				_						
Measured At Ring No.				_						
Sag (mm)				_						
Percent Sag										
Sidewall		4	N							
Measured Span (mm)	1308			_						
Measured At Ring No.										
Deflection (mm)	108									
Percent Deflection	9									
Floor		N	N							
Bulge (mm)										
Measured At Ring No.										
Abrasion (Y/N)										
Circumferential Seams		N	N							
Separation (mm)										
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)				1						
Coating		4	4	Pitting rust lower 1/3.						
Corrosion By Soil (Y/N)	No	-	-7							
Corrosion By Water (Y/N)	Yes			-						
	NEC									
Camper FUS/ZERU/NEG	INEG									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

	1	Brid	dge Cu	Ivert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1200, Type: MP)				
Ponding (Y/N)	No							
Fish Passage Adequacy		X	X					
Baffle			Х					
(Type :)								
Waterway Adequacy		5	5					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	Yes							
Barrel General Rating			4	GR carried fwd. 14-Sep-1995				
		D	ownsti	ream End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	lary Span)							
Direction		W		South pipe				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		Х	X					
Collar			X					
Wingwalls		X	X	_				
(Shape :)								
Cutoff Wall		X	X					
Bevel End		5	N	Bevel unsupported for 800mmJul, 2011				
Heaving (mm)	50			Show covered				
Invert Above/Below Stream Bed	ABOVE			-				
Above/Below (mm)	400							
Scour Protection		4	N	No rock in haunch and streambed areasJul, 2011				
(Type : NATURAL)				-				
(Avg. Rock Size(mm) :)		1						
Scour/Erosion		4	N	400 mm x 1.5 x 2.0m long scour hole off end of bevelJul, 2011				
Beavers (Y/N)	No							
Downstream End General Ration	ng	4	4	GR carried fwd from Jul, 2011.				
		S	Structu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)		-	-					
Alignment		8	8					
Bank Stability		7	7	Low banks, grass & marsh area.				
HWM (m below Top of Culvert)				HWM not visible.				
Drift (Y/N)	Yes							
Channel Bottom Degrading/Aggrading				-				
Beavers (Y/N)	Yes							
(Fish Compensation Measure 1 :	NONE)			-				
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		7	8					

Maintenance Recommendations												
Inspector Recommendations	Yea	ear	Inspector	Comments		Department Com	ments		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC	DFF											
REPAIR SEAMS												
OTHER ACTION		13	Trim off u ends.	unraveling/damaged up	stream barrel							
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No (%)	ow) 44.	.4/44.4		Sufficiency Rating (La (%)	ast/Now)	47.1/47.2	Est. Repl. Yr	2020	Maint. Red	qd. (Y/N)	Yes	
Special Comments for Next Inspection						Department Comments						
Maintenance Reviewed By						Date		E	Estimated Total	0		
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name	Kris Bosters				Previous /	Previous Assistant's Name						
Next Inspection Date	29-Dec-20	014			Previous I	Inspection Date						
Inspection Cycle (Default) (months)	21											
Comment												