Bridge Culvert Inspection													
Bridge File Number 81354 -1			I -1 Bridge Culvert				Form Type		CULM				
Year Built		1989						Lot No.		4			
Bridge or Town	Name	NEWB	ROOK		Inspect	Inspector Name		Todd Warshawski					
Located Over		TRIBU	JTARY TO NAMEPI CREEK, 6.57.4,					or Class		BR CLS B			
Located On		827:04	4 C1 1.621					Assistant Name					
Water Body CI./Year			<i>1</i>					nt Class		00 Mar 0040			
Navigabil. Cl./Year			I					Doto Entry By		Janie Assenhe	imer		
Legal Land Location SW SEC			EC 12 TWP 62 RGE 22 W4M					ntry Date		22-Mar-2010			
Longitude, Latitude -113:10:			0:32, 54:20:29					Reviewer Name		Arnold Assenbeimer			
Road Authority Albert		Alberta	Transportation	(AIT)			Review Date		11-Mar-2010				
Contract Main.	Area	CMA10	•				Dept. R	Dept. Reviewer Name		Brent Herrick			
Clear Roadway	/Skew	10 / -25	odeg. (LHF)				Dept. R	eview Date		24-Mar-2010			
AADT/Year		90 / 200	08 (A)				Follow-	Up Bv					
Road Classifica	ation	RLU-20	)9G-90					-1 2					
Detour Length (	(km)	3											
Bridge Culvert	Informa	ation											
Number of Culv	/erts		2			1							
Pipe #	Barrel		Span	Rise (or I	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		-	1800		MP		28		125X26	2.8	ROUND	
2	MAIN		-	2200		MP		28		125X26	2.8	ROUND	
Special Feature	es												
Special Feature	es Comm	nent											
					Uti	ilities (L	ocated	at)					
Utility Attachme	ents												
Telephone							Gas						
Power							Municip	al					
Others							Probler	n (Y/N) No	)				
Remarks													
	Approa					Now	Explan	Inkment	ndit	ion			
Horizontal Align	ment				<u>Last</u> 7	7	слріан		nun				
Vertical Alignme	ent				8	8	-						
Roadway Width	n (m)		10.000			0							
Embankment	.4)		4.0		N	7							
(Height of Co	<u>. 1)</u>	0 7)	4.0				-						
Guardrail (X/N)	ver (III).	0.7)	No										
Approach Roa	d / Emb	ankme	nt General Rat	ing	1	1							
						Upstre	am End			-			
Culvert Compo	onent				Last	Now	Explan	ation of Co	ndit	ion			
(Pipe # : <b>1, Sp</b> a	an Type	: Prima	ary Span)				1						
Direction End Treatment	(Concre	te, Stee	el, STEEL		W		North p	ipe.					
Others, None) Headwall			Х	Х									
Collar					Х	X							
Wingwalls					Х	Х							
(Shape : )													

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)		_	
Cutoff Wall		X	X	
Bevel End		N	6	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		N	6	Sandstone mixed in.
(Type : <b>RIP RAP</b> )		I		
(Avg. Rock Size (mm) : <b>300</b> )				
Scour/Erosion		N	6	
Beavers (Y/N)	No			
Unotroom End Conorol Dating			6	
Opstream End General Rating		1	0	
		Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S	5pan (mm	ı): -, R	Lise (mm): 1800, Type: MP)
Barrel Last Accessible Date	08-Mar-2010			
Special Features				
Special Feature				
(Type : )			_	
Special Feature				
(Type : )				
Roof		6	7	(Near c/l rise 1825 upward. 20/Sept/2003)
Measured Rise (mm)	1825			Not measured due to ice. Shape and condition appear good
Measured At Ring No.				
Sag (mm)	25			
Percent Sag	1			
Sidewall		5	6	Minor localized bulging @ several locations.
Measured Span (mm)	1775			
Measured At Ring No.	2			Inward deflection
Deflection (mm)	25			1 194
Percent Deflection	1			1.7/0
Floor		N	N	(Silted over. Installation damage. small hole in D/S 1/3. installation
Bulge (mm)	0			damage. 20/Sept/2003)
Measured At Ring No.				1
Abrasion (Y/N)	No			1
Circumferential Seams		6	6	
Separation (mm)	65	Ū		
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		6	6	(Minor supreficial rust - lower third. Dec 4/06)
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

Bridge Inspection & Maintenance System (Web 2005)

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		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	): -,R	ise (mm): 1800, Type: MP)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N) No				
Fish Passage Adequacy			6	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	6	
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1. Span Type: Primary	/ Span)	Luot	non	
Direction	opany	F		North nine
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)			-	
Cutoff Wall		X	X	
Bevel End		N	6	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		N	6	Some sandstone.
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size (mm) : 300)				
Scour/Erosion		N	6	
Beavers (Y/N)	No		_	
Downstream End General Ration	ng	7	6	
			Upstre	am End
Culvert Component			Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction				South pipe.
End Treatment (Concrete, Steel, STEEL Others, None)				
Headwall			X	
Collar		X	X	
Wingwalls		X	X	
(Shape : )			1	
Cutoff Wall			X	

			Upstre	ream End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	lary Span)								
Bevel End		N	6						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	300								
Scour Protection		N	6	Some sandstone.					
(Type : <b>RIP RAP</b> )			_						
(Avg. Rock Size (mm) : <b>300</b> )									
Scour/Erosion		N	6						
	1								
Beavers (Y/N)	No								
Unstream End Constal Pating		0	6						
opstream End General Rating		0	0						
		Bri	dge Cu	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN,	Span (	mm): -	, Rise (mm): 2200, Type: MP)					
Barrel Last Accessible Date	04-Dec-2006			Not accessible due to water/ice.					
Special Features									
Special Feature				Viewed from ends, shape and condition appear good.					
(Type : )			_	-					
Special Feature				_					
(Туре : )									
Roof		6	N	_					
Measured Rise (mm)									
Measured At Ring No.									
Sag (mm)									
Percent Sag									
Sidewall		3	N	(At West end 2105, @ mid pipe 2109, @ East end 2109. Dec 4/06)					
Measured Span (mm)	2109								
Measured At Ring No.									
Deflection (mm)	9			Pipe is 2200 @ centreline not 1800					
Percent Deflection									
Floor		N	N	Ice covered.					
Bulge (mm)				1					
Measured At Ring No.				1					
Abrasion (Y/N)				1					
Circumferential Seams		6	N						
Separation (mm)	70	U							
Longitudinal Seams		X	X						
Total No. of Cracked Pings		~	~						
Total No. of Pings with Two				-					
Cracked Seams									
Min. Remaining Steel Between Cracks (mm)									
Proper Lap (Y/N)									
Longitudinal Stagger (Y/N)									
Coating		6	6	(Minor superficial rust, lower third Dec 4/06)					
Corrosion By Soil (Y/N)	No		Ŭ						
Corrosion By Water (Y/N)	Yes			1					
	ZERO								
Camber 1 03/ZERO/NEG									

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	Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (n	nm): -	, Rise (mm): 2200, Type: MP)						
Ponding (Y/N)	No									
Fish Passage Adequacy			6							
Baffle		Х	X							
(Туре : )										
Waterway Adequacy		8	8							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating			N	Previous measurements & ratings were based on wrong barrel diameter.						
		D	ownstr	eam End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	ary Span)									
Direction		E		South pipe.						
End Treatment (Concrete, Steel, Others, None)	STEEL		-							
Headwall		X	X							
Collar		Х	Х							
Wingwalls		X	Х							
(Shape : )										
Cutoff Wall		Х	X							
Bevel End		N	7							
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	300		1							
Scour Protection		N	7	Some sandstone.						
(Type : <b>RIP RAP</b> )										
(Avg. Rock Size (mm) : 300)			1							
Scour/Erosion		N	7							
Beavers (Y/N)	No									
Downstream End General Ratin	ng	8	7							
	1	S	Structur	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)			1							
Alignment		8	8	Snow covered.						
Bank Stability			8							
HWM (m below Top of Culvert)				HWM not visible.						
Drift (Y/N) No										
Channel Bottom Degrading/Aggrading										
Beavers (Y/N) No										
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									

Structure Usage									
Last Now Explanation of Condition									
Channel General Rating			8						

Maintenance Recommendations												
Inspector Recommendations		Year	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/CUTO	FF											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No (%)	w)	33.3/66.	7 Sufficiency Rating (Last/N (%)	ow)	58.6/71.8	Est. Repl. Yr 2038		Maint. Reqd. (Y/N)		No		
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	Jason S	Saly		Previous Assistant's Name								
Next Inspection Date 08-		08-Jun-2013			Previous Inspection Date 04-Dec-2006							
Inspection Cycle (Default) (months)	39											
Comment												