Bridge Culvert Inspection														
Bridge File Number 80695 -		395 -1 Bridge Culvert				Form Type		CUL1						
Year Built 1984		1984	984				Lot No.		4					
Bridge or Town Name GRAN		GRAND					Inspector Name		Russel Vanderschaaf					
Located Over 2ND O		2ND OR	ID ORDER TRIBUTARY TO KAKWA				Inspector Class			BR CLS B				
Located On		40:38 C <sup>2</sup>	C1 25.414					Assistant Name						
Water Body Cl.					Assistant Class									
Navigabil. CI./Y	'ear						Inspection Date		Z3-Aug-2012					
Legal Land Loc	ation	SE SEC	8 TWP 63 RG	6E 4 W6N	1			ntry Dy		Theresa Lacus	Sla			
Longitude, Latitude -118:33:4			42, 54:26:01		Data Entry Date		25-Sep-2012							
Road Authority Alberta T		ransportation (AIT)				Reviewer Name		Eric Carcoux						
Contract Main. Area CMA05						Dent Reviewer Name		24-Sep-2012						
Clear Roadway/Skew 10.2 / -36		6 deg. (LHF)		Dept. Reviewer Name		OZ Jon 2012								
AADT/Year		1,220/2	011 (A)				Follow-I In By		07-5411-2013					
Road Classifica	ation	RAU-21	.8-110				гоном-ор ву							
Detour Length (	(km)	300												
Bridge Culvert Information														
Number of Culv	/erts	1	1	1										
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	2	2610	2877		SPE		62.2		152X51	3.0	ELLIPSE		
Special Feature	Special Features													
Special Features Comment														
					Uti	lities (l	ocated	at)						
Utility Attachme	ents													
Telephone							Gas							
Power							Municipal							
Others							Probler	m (Y/N)	No					
Remarks														
				Α	pproad	ch Road	d / Emba	ankment						
					Last	Now	Explanation of Condition							
Horizontal Alignment			7	7	Gradual curve with good sight distance, super elevated.									
Vertical Alignment				5	5	directions.								
Roadway Width (m) 10.200			10.200											
Embankment					5	5								
Sideslope (	_:1)		3.0											
(Height of Co	ver(m) :	<b>5.3</b> )												
Guardrail (Y/N) No														
Approach Roa	d / Emb	bankmen	t General Rat	ing	5	5								
						Upstre	am End							
Culvert Component			Last	Now	Explan	ation of	Condi	ion						
Direction			W											
End Treatment (Concrete, Steel, CONCRETE Others, None)														
Headwall			7	7										
Collar			N	7										
Wingwalls			X	X										
(Shape : )														
Cutoff Wall				N	N									

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Upstream End									
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		5	5	Bevel is distorted and pushed in where it meets barrel at top step					
Heaving (mm) 0				150mm on both sides.					
Invert Above/Below Stream Bed BELOW				_					
Above/Below (mm)	300		1						
Scour Protection		N	5	_					
(Type : <b>RIP RAP</b> )				_					
(Avg. Rock Size(mm) : 400)			1						
Scour/Erosion		N	5						
Beavers (Y/N) No									
Upstream End General Rating		5	5						
		Bric	lge Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	): <u>261</u> 0	), Rise (mm): 2877, Type: SPE)					
Barrel Last Accessible Date	23-Aug-2012								
Special Features			_						
Special Feature				_					
(Type:)									
Special Feature									
(Туре : )									
Roof		5	5	2 dents at 10 & 12:00 100 mm x 100 mm @ Ring 1. (Ring 1 & 2 defl.					
Measured Rise (mm)	2822			out 200m mat 3:00 )					
Measured At Ring No.	8								
Sag (mm)	6			Perforations					
Percent Sag	2								
Sidewall		5	5	Perferatin at 7:00 ring 4, 90mm wide, ring 1 @ 3:00, 100mm wide.					
Measured Span (mm)	2680								
Measured At Ring No.	8								
Deflection (mm)	70								
Percent Deflection	3								
Floor		5	5						
Bulge (mm)	0								
Measured At Ring No.	8								
Abrasion (Y/N)	No								
Circumferential Seams		7	7						
Separation (mm)	0			1					
Longitudinal Seams		7	7						
Total No. of Cracked Rings	0			1					
Total No. of Rings with Two Cracked Seams									
Min. Remaining Steel Between Cracks (mm)				1					
Proper Lap (Y/N)	No			1					
Longitudinal Stagger (Y/N)	No			1					
Coating	-	N	4	Superficial rust strip 1.2m W					
Corrosion By Soil (Y/N)	Yes		-7						
Corrosion By Water (V/N)	Yes								
Camber POS/ZERO/NEG	POS								
Ponding (Y/N)	No								

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Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	<u>n (mm</u>	): 2610	, Rise (mm): 2877, Type: SPE)					
Fish Passage Adequacy		4	4	1.1m outfall at outlet.					
Baffle			6						
(Type : )			_						
Waterway Adequacy			5						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		5	5						
			ownstr	coam End					
Culvert Component		Last	Now	Explanation of Condition					
Direction	1	E	1.10.1						
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	Х						
Collar			X						
Wingwalls		X	Х						
(Shape : )									
Cutoff Wall			Х						
Bevel End		N	6	Unsupported 3.5m, filled in with rock.					
Heaving (mm)	0								
Invert Above/Below Stream Bed ABOVE				Material settled along bevel 1.2m.May 26,2007					
Above/Below (mm)	1100								
Scour Protection			6	Bevel projecting from fill by 600mm.					
(Type : <b>RIP RAP</b> )				- sandstone.					
(Avg. Rock Size(mm) : 600)		1							
Scour/Erosion			6						
Beavers (Y/N)	No								
Downstream End General Ratin	ng	4	6						
		s	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment			6	Stream makes a 90 degree turn 20 m u/s to get into pipe.					
Bank Stability			7						
HWM (m below Top of Culvert)				Hwm not visible.					
Drift (Y/N) No									
Channel Bottom DEGRADING Degrading/Aggrading				Incised channel					
Beavers (Y/N) No									
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		6	6						

Maintenance Recommendations												
Inspector Recommendations	Year	Inspector Comm	ents	Department Corr	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) 55.6/5	5.6 Sufficie (%)	ency Rating (Last/Now)	44.5/46.6	<b>44.5/46.6</b> Est. Repl. Yr 2021		Maint. Reqd. (Y/N) No		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	Russel Vande	ussel Vanderschaaf Previous			Assistant's Name							
Next Inspection Date	23-May-2014	23-May-2014 Previ			s Inspection Date 19-Feb-2010							
Inspection Cycle (Default) (months)	21											
Comment												