	Bridge Culve								rt Inspection				
Bridge File Number	79509 -1 Bridge Culvert					Form Type							
					LOT NO.			Z					
Bridge or Town Name	GRANI					Inspect							
Located Over	8.10.58	3.21.2, WATER	CRS-ST	۲,		Assists	or Class						
Located On	40:38 0	C1 25.052				Assista							
Water Body Cl./Year						Inspect	ion Date		23-Aug-2012				
Navigabil. Cl./Year						- Data Entry By			ZS-Aug-2012 Theresa Lacusta				
Legal Land Location	SE SE	C 8 TWP 63 RG	E 4 W6N			Data Entry Date		25-Sen-2012					
Longitude, Latitude	-118:33	-118:33:32, 54:25:51				Review	er Name		Eric Carcoux				
Road Authority	Alberta Transportation (AIT)						Review Date		24-Sep-2012				
Contract Main. Area	CMA05					Dept. F	Reviewer	Name	David Morrison				
Clear Roadway/Skew	N 10.2 / -10 deg. (LHF)						Dept. Review Date		21-Jan-2013				
AADT/Year	1,220 / 2011 (A)				Follo		Follow-Up By						
Road Classification	RAU-2	11.8-110											
Detour Length (km) 300													
Bridge Culvert Information													
Dipo # Barrol		1 Span	Pico (or		Type		Longth		Corr Profile	PI /Slab	Shano		
Fipe # Dallel		Span	Rise (OI	Dia.)	Type		Length		Con. Fiolile	Thickness	Shape		
1 MAIN		-	6160		SP		74.4		152X51	5.0	ROUND		
Special Features		SHOTCRETE	BEAM										
Special Features Com	ment												
				1 14	litico /l	o o o t o d	<b>at</b> )						
Litility Attachments				υι	incies (L		al)						
Telephone		Gas											
Power							Municipal						
Others						Problem (Y/N) No							
Remarks													
Approach Road / Embankment													
				Last	Now	Explanation of Condition							
Horizontal Alignment			7	7	Long gradual curve with steep grade est 7%. Superelevated, Passing both								
Vertical Alignment			5	5	directions.								
Paadway Width (m) 10		10.000											
Roadway Width (m)		10.200											
Embankment	Embankment			N	4	Ditch gully at NE, 400 x 400 x 50m,							
Sideslope (:1) 4.0						appears stablizedvegetated							
(Height of Cover(m)	: <b>2</b> )												
Guardrail (Y/N)		No											
Annuar al Decid / En			•		5								
Approach Road / Eff	bankme	nt General Rat	ing	5	5								
					Upstre	am End							
Culvert Component				Last	Now	Explan	ation of	Condi	tion				
Direction			W		-								
End Treatment (Conc Others, None)	rete, Stee												
Headwall				6	6	Medium vertical cracks.							
Collar				N	6								
Wingwalls				X	X								
(Shape : )													

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Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Cutoff Wall		N	N							
		NI	6	0.45m dia lag aver bavel						
	Sever End		0							
Heaving (mm)										
Invert Above/Below Stream Bed BELOW				-						
Above/Below (mm)	800									
		N	6							
(Type : RIP RAP)				_						
(Avg. Rock Size(mm) : 600)										
Scour/Erosion			6							
Beavers (Y/N)	No									
Upstream End General Rating	1	6	6							
		Brid	dae Cu	Ivert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1. Primary Span, Locat	tion Code: MAIN, Spa	n (mm):		Rise (mm): 6160. Type: SP)						
Barrel Last Accessible Date	27-Eeb-2009			Could only access up to ring 5 on water and soft acad was too door						
Darrer Last Accessible Date	27-1 65-2003			Could only access up to mig 5 as water and soft sand was too deep.						
Special Features										
Special Feature		N	4	RINGS 16&17 @ 5:00 seam, 2 narrow diagonal cracks, rebar						
(Type : SHOTCRETE BEAM)				Horizontal cracks27-Feb-2010						
Special Feature				_						
(Type : )										
Roof		N	N	Seam is flattening out @ d/s end- 27-Feb-2010						
Measured Rise (mm)										
Measured At Ring No.				Est. sag						
Sag (mm)	300			Couldn <sup>*</sup> t measure roof due to water height						
Percent Sag	5									
Sidewall	•	N	3							
Measured Span (mm)	6789		0							
Measured At Ring No	1									
Deflection (mm)	620			-						
Percent Deflection	10			-						
Floor		NI	N	200mm of eith and annual						
		IN	IN	ocontin of sitt and graver						
				-						
			6							
Circumferential Seams	0	N	6	as viewed to ring 5						
	U	N	E							
Total No. of Crocked Diago	0	IN	5	CRACKED SEAM HAS BEEN SHOTCRETED.						
	U			As viewed to ring 5.						
Cracked Seams										
Min. Remaining Steel Between Cracks (mm)	Min. Remaining Steel Between Cracks (mm)			1N						
Proper Lap (Y/N) No										
Longitudinal Stagger (Y/N) Yes										
Coating			4	Minor superficial rust on lower 1/3.						
Corrosion By Soil (Y/N)	Yes									
Corrosion By Water (V/N)	Yes									
	750									
Camper POS/ZERO/NEG	ZERU									

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Bridge Inspection & Maintenance System (Web 2005)

	Bridge Culvert Barrel								
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Location Code: MAIN, Spa		an (mm):		, Rise (mm): 6160, Type: SP)					
Ponding (Y/N)	No								
Fish Passage Adequacy			7						
Baffle			Х						
(Type : )									
Waterway Adequacy		7	7						
Icing (Y/N)	No			0.45m dia long over u/s bevelphoto					
Silting (Y/N)	No								
Drift (Y/N)	Yes								
Barrel General Rating		3	3						
				ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		E							
End Treatment (Concrete, Steel, Others, None)	CONCRETE	_							
Headwall		6	6	Medium vertical cracks in concrete					
Collar			6						
Wingwalls		X	Х						
(Shape : )									
Cutoff Wall			X						
Bevel End	Bevel End		5	Protruding from fill 800mm.					
Heaving (mm)	100								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	800		-						
Scour Protection		N	5	_					
(Type : <b>RIP RAP</b> )				-					
(Avg. Rock Size(mm) : <b>500</b> )									
Scour/Erosion		N	5						
Beavers (Y/N)	No								
Downstream End General Ration	ng	5	5						
		S	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)		-	-						
Alignment			/						
Bank Stability			5	3m vertical banks downstream, does not affect structure.					
HWM (m below Top of Culvert)				Hwm not visible.					
Drift (Y/N)	No								
Channel Bottom DEGRADING Degrading/Aggrading				-					
Beavers (Y/N) No									
(Fish Compensation Measure 1 :	NONE)			-					
(Fish Compensation Measure 2 : NONE)			_						
Channel General Rating			7						

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Maintenance Recommendations											
Inspector Recommendations		Year	Inspector Co	mments		Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUI	MULATION	2013	u/s end								
INSTALL CONCRETE/S											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTOFF		F									
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Ra (%)	) 33.3/33	.3 Suf (%)	Sufficiency Rating (Last/Now) (%)		8.0/49.4	Est. Repl. Yr 2021		Maint. Reqd. (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 Russel Vanderschar			schaaf Previous			Assistant's Name					
Next Inspection Date	3-May-2014 Previous				Inspection Date 19-Nov-2010						
Inspection Cycle (Default) (months) 21		1									
Comment											