					Brida	e Culve	ert Inspe	ection							
Bridge File Number 09642 -1 Bridge Culvert					o ouire	Form Type			CUL1						
Year Built 1989						Lot No.		4							
Bridge or Town	Name	SANDY L	AKE				Inspector Name		Wade Nanninga						
Located Over			CA RIVER, 8.1	0.18. WA	ATERC	RS-ST	Inspector Class		BR CLS B						
Located On		813:08 C						nt Name							
Water Body Cl./	/Year						Assistant Class								
Navigabil. Cl./Y							Inspection Date		07-Jan-2011						
Legal Land Loc		NE SEC	6 TWP 78 RG	F 22 W4	M		Data Entry By			Theresa Lacus	sta				
Longitude, Latit			3, 55:43:52				Data Entry Date			03-Feb-2011					
Road Authority			ransportation	(AIT)				er Name		Arnold Assenheimer					
Contract Main.	Area	CMA06		()			Review Date			12-Jan-2011					
Clear Roadway/Skew 12 / 25 deg. (RHF)						Dept. Reviewer Name									
AADT/Year		520 / 200					Dept. Review Date		08-Feb-2011						
Road Classifica	ition	RCU-210	. ,					Follow-Up By		001002011					
Detour Length (300													
Bridge Culvert	··									I					
Number of Culv		1													
	Barrel	S	pan	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape			
1	MAIN	-		4140		SP		50.6		152X51	3.0	ROUND			
Special Feature	es														
Special Feature	es Comr	nent			1 14	ilitios (l	_ocated	at)							
Utility Attachme	nte				U	incies (L	Ocaleu	al)							
Telephone							Gas								
Power															
Others							Municipal Problem (Y/N) No								
Remarks	BE tac	n installad	on top of We	all			II (1/1 N)								
T(c)nan(5		ginstaned				ch Road	d / Fmba	ankment							
					Last			ation of		tion					
Horizontal Alignment				8	8	In long gradual sag curve.									
Vertical Alignment			8	7			C								
Roadway Width (m) 12.000		12.000													
Embankment					7	7									
Sideslope (:1)		2.5												
(Height of Cov		3.5)					1								
Guardrail (Y/N)			Yes												
Approach Roa	d / Emb	bankment	General Rat	ing	8	7									
							am End								
Culvert Compo	onent				Last	Now	Explan	ation of	Condi	tion					
Direction					W		-								
End Treatment Others, None)	(Concre	ete, Steel,	CONCRETE			_									
Headwall					7	7									
Collar			6	6	Small spalled area on south side of bevel end. Cracks on top of collar, wide tranverse cracks collar. Cracks near bottom bevel both sides caused by rocks.										
							sides c	aused by	rocks.						
Wingwalls					X	X	sides c	aused by	rocks.						

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			Upstre	am End								
Culvert Component		Last	Now	Explanation of Condition								
Cutoff Wall		N	N									
Payol End			7									
Bevel End Heaving (mm) 0			7									
Heaving (mm)												
Invert Above/Below Stream Bed BELOW												
Above/Below (mm)	1500											
Scour Protection		4	N	Fill & riprap settled up to 0.5m beside collar undermixed - photo09- Aug-2007								
(Type : RIP RAP)				-								
(Avg. Rock Size(mm) : 400)		1		Snow covered.								
Scour/Erosion		4	N									
Beavers (Y/N)	No											
Upstream End General Rating		4	4	GR carried fwd.								
		Brid		Ivert Barrel								
Culvert Component		Last	Now	Explanation of Condition								
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN_Sna			, Rise (mm): 4140, Type: SP)								
Barrel Last Accessible Date	08-Jan-2011		<u>.</u>	2.0m ice in barrel.								
	00-5411-2011											
Special Features												
Special Feature												
(Type:)												
Special Feature												
(Type:)												
Roof		N	4									
Measured Rise (mm)												
Measured At Ring No.				- est								
Sag (mm)	410											
Percent Sag	10											
Sidewall	10	N	4									
Measured Span (mm)	4545		T									
Measured At Ring No.	5											
Deflection (mm) Percent Deflection	405											
	10											
Floor		N	N									
Bulge (mm)												
Measured At Ring No.												
Abrasion (Y/N)												
Circumferential Seams	-	N	7									
Separation (mm)	0		_									
Longitudinal Seams		N	7	Only 1/2 visible.								
Total No. of Cracked Rings												
Total No. of Rings with Two Cracked Seams												
Min. Remaining Steel Between Cracks (mm)				3N stagger								
Proper Lap (Y/N)	Yes											
Longitudinal Stagger (Y/N)	Yes											
Coating		6	5	Superficial rust at ice line.								
Corrosion By Soil (Y/N)	Yes			Slight corrosion around bolts inside wall.								
Corrosion By Water (Y/N)	Yes											
Camber POS/ZERO/NEG	NEG											

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 4140, Type: SP)					
Ponding (Y/N)	No								
Fish Passage Adequacy		7	7						
Baffle		N	N						
(Type:)									
Waterway Adequacy		8	7	(Iced to within 1900 of crown. 2001/03/22)					
Icing (Y/N)	Yes								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		N	4						
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		Е							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	X						
Collar			Х						
Wingwalls		X	X						
(Shape :)									
Cutoff Wall		X	X						
Bevel End		7	7						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	100								
Scour Protection		7	N	Snow covered					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 350)									
Scour/Erosion		7	N						
Beavers (Y/N)	No								
Downstream End General Ratir	າg	7	7	GR carried forward.					
		S	Structu	ire Usage					
		1	1	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		6	6						
Bank Stability			4	Erosion of bank 30 m U/S, sloughing.					
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	Yes								
Channel Bottom									
Degrading/Aggrading	No			-					
Beavers (Y/N) (Fish Componention Measure 1 :	-								
(Fish Compensation Measure 1 :	· · · · · · · · · · · · · · · · · · ·			-					
(Fish Compensation Measure 2 :	NUNE)	E	4						
Channel General Rating		5	4						

Maintenance Recommendations												
Inspector Recommendations		ar Inspector Comments			Department Com	nments	Tar	rget Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTOFF												
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No (%)	ow) 55.6/4	14.4 Suffi (%)	Sufficiency Rating (Last/Now) %)		63.5/53.4 Est. Repl. Yr 203		Yr 2034	4	Maint. Reqd. (Y/I		No	
Special Comments for Next Inspection					Department Comments							
Maintenance Reviewed By					Date			Estim	nated Total	0		
Proposed Long-Term Strategy					· · · · · · · · · · · · · · · · · · ·							
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name Dave Lam			Previous			Assistant's Name						
Next Inspection Date 07-Ap		07-Apr-2014 Previou				Inspection Date 09-Aug-2007						
Inspection Cycle (Default) (months)	39											
Comment												