Bridge Culvert Inspection												
Bridge File Number 78484 -1 Bridge Culvert			rt		Form Type		CULM					
Year Built	Year Built 1984						Lot No.		4			
Bridge or Town	Name	ENCHA	NT				Inspector Name		Jason Rusu			
Located Over		BRP - IR	RIGATION C,	GATION C, WATERCRS-IC			Inspector Class		BR CLS B			
Located On		526:02 0	C1 5.868				Assistant Name					
Water Body Cl.	/Year						Assistant Class					
Navigabil. Cl./Y	'ear						Inspection Date		27-Feb-2010			
Legal Land Loc	ation	SE SEC	17 TWP 14 R	GE 19 W4	4M		Data Entry By		Kelsey Roberts			
Longitude, Latit	tude	-112:33:	40, 50:09:52				Data Entry Date	itry Date 24-Mar-2010				
Road Authority Alberta T			Fransportation			Reviewer Name Garry Roberts						
Contract Main. Area CMA25							Review Date 11-Mar-2010					
Clear Roadway	/Skew	9.4 /					Dept. Reviewer Name Lorenz Bohnert					
AADT/Year		590 / 20	08 (A)				Dept. Review D	ate	26-Mar-2010			
Road Classifica	ation	RCU-20	9-110				Follow-Up By					
Detour Length	(km)	6										
Bridge Culvert	t Informa	ation										
Number of Culv	/erts	2	2									
Pipe #	Barrel	S	Span	Rise (or	Dia.)	Туре	Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	ę	9700	4700		RPA	22.6		152X51	4.0,5.0	ARCH	
2	MAIN	ç	9700	4700		RPA	22.6		152X51	4.0,5.0	ARCH	
Special Feature	es											
Special Feature	es Comm	nent										
	ante l				Uti	lities (L	ocated at)					
		a a sta fa sa					0					
Dewer	Along north fence.						Municipal					
Othors							Broblom (V/N)	No				
Bemerke												
Remarks				Δ	nnroad	h Road	d / Embankment					
					Last	Now	Explanation of	Condit	tion			
Horizontal Aligr	nment				9	8	Rises then drops 150 m east.					
Vertical Alignm	ent				5	5	1 .					
Roadway Width	ר (m)		9.600	9.600								
Embankment					9	7	flat 12:1					
Sideslope (	_:1)		12.1				Some minor erosion due to highway drainage.					
(Height of Co	ver (m) :	0.3)										
Guardrail (Y/N)			Yes	Yes								
Approach Roa	ld / Emb	ankmen	t General Rat	ing	5	5						
						linstre	am End					
Culvert Comp	onent				Last	Now	Explanation of	Condi	tion			
(Pipe # : 1, Sp	an Type	: Primar	v Span)		Luot	non	Explanation of	oonan				
Direction					F		Fast cell_north	end				
End Treatment (Concrete, Steel, CONCRETE												
Headwall					7	7	H.L. CRACK BTWN HEADWALL & WINGWALL					
Collar					6	6	Some spalling by bevel end					
Wingwalls					8	8						
(Shape: )							1					

			opsire	
Culvert Component	<b>0</b>	Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Cutoff Wall		N	N	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	vert Above/Below Stream Bed BELOW			
Above/Below (mm)	600			
Scour Protection		8	7	Ingrown
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size (mm) : <b>250</b> )				
Scour/Erosion		8	7	
Beavers (Y/N)	No			
Upstream End General Rating	1	6	6	
		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,	Span (mm	n): 9700	), Rise (mm): 4700, Type: RPA)
Barrel Last Accessible Date	27-Feb-2010			E pipe- Viewed from ends. Shape looks good.
Special Features				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		4	4	(Built this way. This is an ABC structure so it should be stable
Measured Rise (mm)	4355			because of the concrete structures over the top of it.) 28-Feb-2007
Measured At Ring No.	7			Est
Sag (mm)	345			
Percent Sag	7			
Sidewall	1	7	7	_
Measured Span (mm)	9764			_
Measured At Ring No.	3			_
Deflection (mm)	0			_
Percent Deflection	1			
Floor	1	N	N	ice covered
Bulge (mm)	0			_
Measured At Ring No.				-
Abrasion (Y/N)	No			
Circumferential Seams	1	8	8	Staggered.
Separation (mm)	0			
Longitudinal Seams	1	8	8	1 bolt missing-lower sidewall SE
Total No. of Cracked Rings	0			TOP & BOT OF SIDEWALLS NO STAGGER
Total No. of Rings with Two Cracked Seams	0			-
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)	No			-
Longitudinal Stagger (Y/N)	Yes			
Coating		4	4	Alkali staining
Corrosion By Soil (Y/N)	No			Some minor corrosion with some pitting in the lower half
Corrosion By Water (Y/N)	Yes			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm	): 9700	, Rise (mm): 4700, Type: RPA)					
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								
Fish Passage Adequacy		X	5						
Baffle		X	Х						
(Туре : )									
Waterway Adequacy		8	8						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		4	4						
			ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Span Type: Primary	(Span)								
Direction		W		East pipe					
End Treatment (Concrete, Steel, Others, None)	CONCRETE								
Headwall	1	7	7	H.L. CRACK BTWN HEADWALL & WINGWALL					
Collar			5	Large cracks between units.					
Wingwalls		7	7	Some cracks.					
(Shape : )									
Cutoff Wall		N	N						
Bevel End		7	7						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	600								
Scour Protection	Scour Protection		7	ingrown					
(Type : <b>RIP RAP</b> )									
(Avg. Rock Size (mm) : 250)									
Scour/Erosion		7	7						
Beavers (Y/N)	No								
Downstream End General Ration	ng	5	5						
			Upstre	am End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	ary Span)								
Direction		E		West pipe - north end.					
End Treatment (Concrete, Steel, CONCRETE Others, None)									
Headwall		7	7						
Collar		5	5						
Wingwalls		7	7						
(Shape : )									
Cutoff Wall		N	N						

Alberta Transportation

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Bevel End		7	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	700			
Scour Protection		7	6	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size (mm) : 250)				
Scour/Erosion			6	
Beavers (Y/N) No				
Upstream End General Rating	1	5	5	
		Bri	dae Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2. Secondary Span. Lo	cation Code: MAIN.	Span (	 mm): 9	700. Rise (mm): 4700. Type: RPA)
Barrel Last Accessible Date	27-Feb-2010			West cell- Shapes look good
Darrei Last Accessible Date	27-1 60-2010			
Special Features				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		4	4	Unable to confirm 7% sag.
Measured Rise (mm)	4355			
Measured At Ring No.	1			
Sag (mm)	345			
Percent Sag	7			
Sidewall		7	7	
Measured Span (mm)	9768			
Measured At Ring No.	3			
Deflection (mm)	0			
Percent Deflection	1			
Floor		N	N	Ice covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	Staggered
Separation (mm)	0			
Longitudinal Seams		8	7	Top & Bottom of sidewalls no stagger
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)	No			1
Longitudinal Stagger (Y/N)	No			1
Coating		4	5	
Corrosion By Soil (Y/N)	No			1
Corrosion By Water (Y/N)	Yes			1
Camber POS/ZERO/NEG	ZERO			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN	, Span (r	nm): 9	700, Rise (mm): 4700, Type: RPA)
Ponding (Y/N)	No			
Fish Passage Adequacy		X	5	
Baffle		X	Х	
(Туре : )				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	
		D	ownst	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		W		South west end.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	6	
Collar			6	
Wingwalls		7	6	
(Shape : )				
Cutoff Wall		N	N	
Bevel End	-	7	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			_
Above/Below (mm)	600	_	1	
Scour Protection		7	6	
(Type : <b>RIP RAP</b> )				-
(Avg. Rock Size (mm) : <b>250</b> )			1	
Scour/Erosion	1	7	6	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	6	
		S	Structu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)			1	
Alignment			7	
Bank Stability			7	
HWM (m below Top of Culvert)				No visible HWM
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	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			7						

			Maintenance Re	commend	ations					
Inspector Recommendations		Year	Inspector Comments		Department Comr	nents		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)	44.4/44.	4 Sufficiency Rating (Last/N (%)	low) (	61.0/60.9	Est. Repl. Yr 2028		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	Tim Da	Tim Davies			Previous Assistant's Name					
Next Inspection Date	27-May	27-May-2013			Previous Inspection Date 28-Feb-2007					
Inspection Cycle (Default) (months)	39									
Comment										