Bridge Culvert Inspection												
Bridge File Nun					Bridge Cuive		· ·		CULM			
Year Built	IIDEI	2006			Lot No.		4					
Bridge or Town	Nama		P.			Inspector Name		Brian Pientsch				
Located Over	ITTAITIC		TARY TO HUN	TING CRE	FK		Inspector Class		BR CLS A			
Localed Over	8.10.58.3.2, WATERCRS-ST						Assistant Name		Lisbeth Medin	a		
Located On		LOCAL	. ROAD					ant Class	LIODOLII WIGGIII	<u> </u>		
Water Body Cl.	/Year							tion Date	25-Feb-2010			
Navigabil. Cl./Y	'ear								Theresa Lacus	sta		
Legal Land Loc	ation	NW SE	C 35 TWP 77 F	RGE 22 W	5M			Data Entry By Theresa Lacusta  Data Entry Date 22-Mar-2010				
Longitude, Latit	tude	-117:18	3:45, 55:43:23					ver Name	Arnold Assent	neimer		
Road Authority		Alberta	Transportation	(AIT)			Review		08-Mar-2010			
Contract Main.	Area	CMA03	3					Reviewer Name		n		
Clear Roadway	/Skew	8 / 0 de	g.					Review Date	13-Apr-2010			
AADT/Year		17 / 20°	10 (E)					-Up By				
Road Classifica	ation	RLU-20	08G-90					-1 3				
Detour Length	` '	4										
Bridge Culvert		ation										
Number of Culv			3									
Pipe #	Barrel		Span	Rise (or [	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		-	2200		MP		28	125X26	3.5	ROUND	
2	MAIN		-	2200		MP		28	125X26	3.5	ROUND	
3	MAIN		-	2200		MP		28	125X26	3.5	ROUND	
Special Feature	es											
Special Feature		nent			Uti	lities (L	_ocated	at)				
Utility Attachme	ents											
Telephone	elephone						Gas					
Power							Municipal					
			Others									
Remarks												
				Δ.	, a r	sh Door		m (Y/N)				
				T T			l / Emb	ankment	tion			
Horizontal Align	nment			T T	Last	Now	d / Emb Explar	ankment nation of Condi	tion			
Horizontal Align				T T	Last 4	Now 4	d / Emb Explar	ankment	tion			
Horizontal Align Vertical Alignm Roadway Width	ent		7.000	T T	Last	Now	d / Emb Explar	ankment nation of Condi	tion			
Vertical Alignm	ent		7.000	T T	Last 4	Now 4	d / Emb Explar	ankment nation of Condi	tion			
Vertical Alignme Roadway Width	ent n (m)		7.000	T T	Last 4 8	Now 4 8	d / Emb Explar	ankment nation of Condi	tion			
Vertical Alignman Roadway Width Embankment	ent n (m) _:1)	: 0.7)		T T	Last 4 8	Now 4 8	d / Emb Explar	ankment nation of Condi	tion			
Vertical Alignman Roadway Width Embankment Sideslope (	ent n (m) _:1) ver (m)	: 0.7)		T T	Last 4 8	Now 4 8	d / Emb Explar	ankment nation of Condi	tion			
Vertical Alignme Roadway Width Embankment Sideslope ( (Height of Co	ent n (m) _:1) ver (m)		3.0 No		Last 4 8	Now 4 8	d / Emb Explar	ankment nation of Condi	tion			
Vertical Alignman Roadway Width Embankment Sideslope ( (Height of Co Guardrail (Y/N)	ent n (m) _:1) ver (m)		3.0 No		8 8	8 8 4	d / Emb Explar	ankment nation of Condi 9 100m north.	tion			
Vertical Alignman Roadway Width Embankment Sideslope ( (Height of Co Guardrail (Y/N)	ent n (m) _:1) ver (m)		3.0 No	ing	8 8	Now 4 8 8	Explar Hwy. 4	ankment nation of Condi 9 100m north.				
Vertical Alignman Roadway Width Embankment Sideslope (	ent n (m) _:1) ver (m) ad / Eml	bankme	3.0 No	ing	8 8	Now 4 8 8	Explar Hwy. 4	ankment nation of Condi 9 100m north.				
Vertical Alignman Roadway Width Embankment Sideslope (	ent n (m) _:1) ver (m) ad / Eml	bankme	3.0 No	ing	8 8	Now 4 8 8	am Enc Explar	ankment nation of Condi 9 100m north.				
Vertical Alignman Roadway Width Embankment Sideslope (	ent (m)  :1) ver (m)  and / Eml conent an Type	oankme e: )	3.0  No  nt General Rat	ing	Last 4 8 8 Last	Now 4 8 8	am End Explar	ankment nation of Condi 9 100m north.	tion			
Vertical Alignman Roadway Width Embankment Sideslope (	ent (m)  :1) ver (m)  and / Eml conent an Type	oankme e: )	3.0  No  nt General Rat	ing	Last 4 8 8 Last	Now 4 8 8	am End Explar	ankment nation of Condi 9 100m north.  nation of Condi culvert	tion			

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : <b>1, Span Type:</b> )				
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		9	9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		9	9	
(Type: RIP RAP)				
(Avg. Rock Size (mm) : <b>300</b> )				
Scour/Erosion		9	9	
Beavers (Y/N)	No			
Upstream End General Rating		9	9	
		Brid	dge Cu	Ilvert Barrel
<b>Culvert Component</b>			Now	Explanation of Condition
(Pipe #: 1, Secondary Span, Lo	ocation Code: MAIN, S	Span (r	nm): -	, Rise (mm): 2200, Type: MP)
Barrel Last Accessible Date	25-Feb-2010			South culvert.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		9	9	
Measured Rise (mm)	2226			Ring measured @ CL-Oct3, 2006
Measured At Ring No.				Floor covered with ice.
Sag (mm)	0			
Percent Sag	0			
Sidewall		9	8	
Measured Span (mm)	2192			Ring measured @ CL
Measured At Ring No.				
Deflection (mm)	8			Deflection inward.
Percent Deflection	0			
Floor		9	N	Covered with ice.
Bulge (mm)	0			Ring measured @ CL-Oct 3, 2006
Measured At Ring No.				- King measured & OL-Oct 3, 2000
Abrasion (Y/N)	No			
Circumferential Seams		9	8	
Separation (mm)	50			
Longitudinal Seams		Х	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)				

Culvert Component (Pipe #: 1, Secondary Span, Location Code: MAIN, Span (mm): Rise (mm): 2200, Type: MP)           Coating Corrosion By Soil (Y/N) Camber POS/ZERO/NEG         ZERO           Ponding (Y/N) Baffle         X         X           (Type :) Waterway Adequacy         9         9           Using (Y/N) Drift (Y/N) No         No         No           Darrel General Rating         9         8           Barrel General Rating         9         8           Barrel Last Accessible Date         Explanation of Condition           Culvert Component (Pipe #: 2, Primary Span, Location Code: MAIN, Span (mm): - , Rise (mm): 2200, Type: MP)           Barrel Last Accessible Date         Centre culvert.           Special Feature (Type :)         Special Feature (Type :)           Special Feature (Type :)         Measured (Se (mm)           Sag (mm)         0           Percent Sag         0           Sidewall         9           Measured & CL-Oct 3, 2006           Heasured & Ring No.         Deflection inward.           Deflection (mm)         33           Percent Deflection (mm)         9         N           Measured @ CL-Oct 3, 2006           Measured @ CL-Oct 3, 2006           Measured @ CL-Oct 3, 2006           Measured @ CL-Oct 3, 2006 </th <th></th> <th></th> <th>Bric</th> <th>dge Cu</th> <th>Ivert Barrel</th>			Bric	dge Cu	Ivert Barrel
Coating	Culvert Component		Last	Now	Explanation of Condition
Corrosion By Soil (Y/N)	(Pipe #: 1, Secondary Span, Lo	ocation Code: MAIN, S	Span (n	nm): -	, Rise (mm): 2200, Type: MP)
Corrosion By Water (Y/N)	Coating		9	8	
Camber POS/ZERO/NEG   ZERO	Corrosion By Soil (Y/N)	No			
Ponding (Y/N)	Corrosion By Water (Y/N)	No			
Fish Passage Adequacy	Camber POS/ZERO/NEG	ZERO			
Baffle X X X  (Type:)  Waterway Adequacy 9 9 9  Icing (Y/N) No Siting (Y/N) No Drift (Y/N) No  Barrel General Rating 9 8  Britige Culvert Earrel Last Now Explanation of Condition (Pipe #: 2, Primary Span, Location Code: MAIN, Span (mm): -, Rise (mm): 2200, Type: MP)  Barrel Last Accessible Date Centre culvert.  Special Features Special Feature (Type:) Special Feature (Type:) Roof 9 9 9 Measured Rise (mm) 2206 Measured At Ring No. 5 Floor covered with ice. Sag (mm) 0 Percent Sag 0  Sidewall 9 8 Measured @ CL-Oct 3, 2006 Measured At Ring No. 5 Deflection (mm) 33 Percent Deflection Percent Deflection 0  Floor 9 N Measured @ CL-Oct 3, 2006 Measured @ CL-Oct 3, 2006 Measured At Ring No. 5 Deflection inward.  Measured @ CL-Oct 3, 2006	Ponding (Y/N)	No			
Waterway Adequacy	Fish Passage Adequacy		7	7	
Vaterway Adequacy	Baffle		Х	Х	
Licing (Y/N)   No   Siting (Y/N)   No   No   Drift (Y/N)   No   No   Barrel General Rating   9   8	(Type:)				
Silting (Y/N) No  Barrel General Rating  Bridge Culvert Barrel  Culvert Component  (Pipe # : 2, Primary Span, Location Code: MAIN, Span (mm): - , Rise (mm): 2200, Type: MP)  Barrel Last Accessible Date  Centre culvert.  Special Features  Special Feature  (Type:)  Roof  Measured Rise (mm)  Sag (mm)  Percent Sag  Sidewall  Measured Span (mm)  Measured At Ring No.  Sidewall  Measured At Ring No.  Sidewall  Measured At Ring No.  Deflection (mm)  Deflection (mm)  Deflection (mm)  Sag (mm)  Deflection (mm)  Deflection (mm)  Deflection (mm)  Bulge (mm)  Measured At Ring No.  Measured & CL-Oct 3, 2006  Measured & CL  Deflection inward.  Measured & CL-Oct 3, 2006  Measured & CL  Deflection inward.  Measured & CL-Oct 3, 2006  Covered with ice.	Waterway Adequacy		9	9	
Drift (Y/N) No  Barrel General Rating  Bridge Culvert Barrel  Culvert Component  (Pipe # : 2, Primary Span, Location Code: MAIN, Span (mm): -, Rise (mm): 2200, Type: MP)  Barrel Last Accessible Date  Centre culvert.  Special Features  Special Feature  (Type :)  Roof  Measured Rise (mm)  Sag (mm)  Percent Sag  Sidewall  Measured At Ring No.  Sidewall  Measured At Ring No.  Sidewall  Measured At Ring No.  Deflection (mm)  Deflection (mm)  Deflection (mm)  Bulge (mm)  Measured & CL-Oct 3, 2006  Measured & CL  Deflection inward.  Measured & CL-Oct 3, 2006  Measured & CL  Deflection inward.  Measured & CL-Oct 3, 2006  Measured & CL  Deflection inward.  Measured & CL-Oct 3, 2006  Measured & CL  Deflection inward.  Measured & CL-Oct 3, 2006  Measured & CL  Deflection inward.  Measured & CL-Oct 3, 2006	Icing (Y/N)	No			
Barrel General Rating	Silting (Y/N)	No			
Culvert Component  (Pipe # : 2, Primary Span, Location Code: MAIN, Span (mm): - , Rise (mm): 2200, Type: MP)  Barrel Last Accessible Date  Centre culvert.  Special Features  Special Feature  (Type : )  Special Feature  (Type : )  Special Feature  (Type : )  Roof  Measured Rise (mm)  Percent Sag  Sidewall  Measured Span (mm)  Deflection (mm)  Deflection (mm)  Sag (m	Drift (Y/N)	No			
Culvert Component         Last         Now         Explanation of Condition           (Pipe # : 2, Primary Span, Location Code: MAIN, Span (mm): -, Rise (mm): 2200, Type: MP)           Barrel Last Accessible Date         Centre culvert.           Special Features           Special Feature         Crype:)           Special Feature         Measured Feature           (Type:)         Measured Rise (mm)           Special Feature         Measured Rise (mm)           Measured At Ring No.         Eloor covered with ice.           Sag (mm)         0           Percent Sag         0           Sidewall         9           Measured Span (mm)         2167           Measured At Ring No.         Deflection inward.           Deflection (mm)         33           Percent Deflection         0           Bulge (mm)         0           Measured @ CL-Oct 3, 2006           Covered with ice.	Barrel General Rating		9	8	
Culvert Component         Last         Now         Explanation of Condition           (Pipe # : 2, Primary Span, Location Code: MAIN, Span (mm): -, Rise (mm): 2200, Type: MP)           Barrel Last Accessible Date         Centre culvert.           Special Features           Special Feature         Crype:)           Special Feature         Measured Feature           (Type:)         Measured Rise (mm)           Special Feature         Measured Rise (mm)           Measured At Ring No.         Eloor covered with ice.           Sag (mm)         0           Percent Sag         0           Sidewall         9           Measured Span (mm)         2167           Measured At Ring No.         Deflection inward.           Deflection (mm)         33           Percent Deflection         0           Bulge (mm)         0           Measured @ CL-Oct 3, 2006           Covered with ice.			Bric	lae Cu	lvert Barrel
(Pipe # : 2, Primary Span, Location Code: MAIN, Span (mm): - , Rise (mm): 2200, Type: MP)	Culvert Component		1		
Special Feature   Centre culvert.	-	tion Code: MAIN, Spa			·
Special Feature         (Type:)           Special Feature         (Type:)           Roof         9 9           Measured Rise (mm)         2206           Measured At Ring No.         Floor covered with ice.           Sag (mm)         0           Percent Sag         0           Sidewall         9 8           Measured Span (mm)         2167           Measured At Ring No.         Deflection inward.           Deflection (mm)         33           Percent Deflection         0           Floor         9 N           Bulge (mm)         0           Measured @ CL-Oct 3, 2006           Covered with ice	Barrel Last Accessible Date				Centre culvert.
Special Feature         (Type:)           Special Feature         (Type:)           Roof         9 9           Measured Rise (mm)         2206           Measured At Ring No.         Floor covered with ice.           Sag (mm)         0           Percent Sag         0           Sidewall         9 8           Measured Span (mm)         2167           Measured At Ring No.         Deflection inward.           Deflection (mm)         33           Percent Deflection         0           Floor         9 N           Bulge (mm)         0           Measured @ CL-Oct 3, 2006           Covered with ice	Special Features				
(Type:)         Special Feature           (Type:)         (Type:)           Roof         9 9           Measured Rise (mm)         2206           Measured At Ring No.         Floor covered with ice.           Sag (mm)         0           Percent Sag         0           Sidewall         9 8           Measured Span (mm)         2167           Measured At Ring No.         Deflection inward.           Deflection (mm)         33           Percent Deflection         0           Floor         9 N           Bulge (mm)         0           Measured @ CL-Oct 3, 2006           Covered with ice.					
Special Feature   (Type:)   Roof					
Roof					
Roof	(Type:)				
Measured At Ring No.  Sag (mm)  Percent Sag  Sidewall  Measured Span (mm)  Measured Span (mm)  Deflection (mm)  Deflection (mm)  Sidewall  Measured @ CL  Deflection inward.  Deflection (mm)  Floor  Percent Deflection  Measured @ CL  Deflection inward.  Measured @ CL  Deflection inward.  Covered with ice.			9	9	
Sag (mm) 0 Percent Sag 0  Sidewall 9 8 Measured Span (mm) 2167 Measured At Ring No. Deflection (mm) 33 Percent Deflection 0  Floor 9 N Bulge (mm) 0 Measured At Ring No.  Measured At Ring No.  Covered with ice	Measured Rise (mm)	2206			Measured @ CL-Oct 3, 2006
Sag (mm) 0 Percent Sag 0  Sidewall 9 8 Measured Span (mm) 2167 Measured At Ring No. Deflection (mm) 33 Percent Deflection 0  Floor 9 N Bulge (mm) 0 Measured & CL-Oct 3, 2006 Measured At Ring No.	Measured At Ring No.				Floor covered with ice.
Percent Sag 0  Sidewall 9 8  Measured Span (mm) 2167  Measured At Ring No. Deflection (mm) 33  Percent Deflection 0  Floor 9 N  Bulge (mm) 0  Measured @ CL  Deflection inward.  Measured @ CL  Deflection inward.		0			
Sidewall  Measured Span (mm)  Measured At Ring No.  Deflection (mm)  Percent Deflection  Floor  Bulge (mm)  Measured @ CL  Deflection inward.  Measured @ CL  Deflection inward.  Measured @ CL  Deflection inward.		0			
Measured Span (mm)  Measured @ CL  Measured At Ring No.  Deflection (mm)  Percent Deflection  Floor  Bulge (mm)  Measured @ CL  Deflection inward.  Measured @ CL  Deflection inward.  Measured @ CL  Deflection inward.	Sidewall		9	8	
Measured At Ring No.  Deflection (mm)  Percent Deflection  Floor  Bulge (mm)  Measured At Ring No.  Deflection inward.  Deflection inward.  Measured @ CL-Oct 3, 2006  Covered with ice	Measured Span (mm)	2167			Measured @ CL
Deflection (mm) 33  Percent Deflection 0  Floor 9 N  Bulge (mm) 0  Measured At Ring No.  Covered with ice	, , ,				Deflection inward.
Percent Deflection 0  Floor 9 N  Bulge (mm) 0  Measured At Ring No.  Covered with ice		33			
Floor  Bulge (mm)  Measured At Ring No.  Measured @ CL-Oct 3, 2006  Covered with ice	` '				
Bulge (mm) 0 Measured @ CL-Oct 3, 2006  Measured At Ring No. Covered with ice			9	N	
Measured At Ring No.  Covered with ice		0			M
Covered with ice					- Measured @ CL-Oct 3, 2006
7101001011 (1711)		No			Covered with ice.
Circumferential Seams 9 9			9	9	
Separation (mm) 26		26			
Longitudinal Seams X X		1-4	X	X	
Total No. of Cracked Rings					
Total No. of Rings with Two Cracked Seams	Total No. of Rings with Two				
Min. Remaining Steel Between Cracks (mm)	Min. Remaining Steel				
Proper Lap (Y/N)	, ,				
Longitudinal Stagger (Y/N)					

		Brio	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Primary Span, Loca	ation Code: MAIN, Sp	oan (mm	): -,R	ise (mm): 2200, Type: MP)
Coating		9	8	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		9	9	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		9	8	
		Bric	dae Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 3, Secondary Span, L	ocation Code: MAIN			· ·
Barrel Last Accessible Date	25-Feb-2010			North culvert.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		9	9	
Measured Rise (mm)	2222			Measured @ CL-Oct 3, 2006
Measured At Ring No.				Floor covered wiht ice.
Sag (mm)	0			
Percent Sag	0			
Sidewall		9	8	
Measured Span (mm)	2189			Measured @ CL
Measured At Ring No.				
Deflection (mm)	11			Deflection inward.
Percent Deflection	0			
Floor		9	N	Measured @ CL-Oct 3, 2006
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			Floor covered with ice.
Circumferential Seams		9	9	
Separation (mm)	30			
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings				1
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				

		Brio	Bridge Culvert Barrel							
				Explanation of Condition						
(Pipe #: 3, Secondary Span, Lo	cation Code: MAIN, S	pan (r	mm): -	, Rise (mm): 2200, Type: MP)						
Coating		9	8							
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	No									
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N)	No									
Fish Passage Adequacy		7	7							
Baffle		9	Х							
(Type:)										
Waterway Adequacy		9	9							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		9	8							
		D	ownstr	ream End						
Culvert Component		Last		Explanation of Condition						
(Pipe # : <b>3, Span Type</b> : )										
Direction		W		Centre culvert						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	X							
Collar		Х	Х							
Wingwalls		Х	Х							
(Shape: )										
Cutoff Wall		Х	X							
Bevel End		9	9							
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW			Covered with snow.						
Above/Below (mm)	400									
Scour Protection		9	9							
(Type : <b>RIP RAP</b> )										
(Avg. Rock Size (mm) : <b>300</b> )										
Scour/Erosion		9	9							
Beavers (Y/N)	No									
Downstream End General Rating		9	9							
		S	Structu	re Usage						
			Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment		9	9							
Bank Stability		9	8							
HWM (m below Top of Culvert)				HWM not visible.						
Drift (Y/N) No										

Structure Usage							
		Last	Now	Explanation of Condition			
Channel Bottom Degrading/Aggrading  NONE							
Beavers (Y/N)	No						
(Fish Compensation Measure 1	: NONE)						
(Fish Compensation Measure 2	: NONE)						
Channel General Rating			9				
, and the second							

			Mainten	ance Recomme	ndations					
Inspector Recommendations	Year	Inspecto	or Comments		Department Com	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS					·					
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	<b>a</b>									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	low) 100.0	/88.9	Sufficiency Ratin (%)	g (Last/Now)	89.2/85.6	Est. Repl. Yr	2051	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		1	Estimated Tota	1 0	
Proposed Long-Term Strategy					15500					
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Colin Roy			Previou	s Assistant's Name					
Next Inspection Date	25-Nov-2014			Previou	us Inspection Date 03-Oct-2006					
Inspection Cycle (Default) (months)	57									
Comment										