					Brida	ie Culve	ert Insn	ection					
Bridge File Number 73971 -1 Bridg			Bridge Culve				rt Inspection Form Type CUL1						
Year Built 1979							Lot No	•	2				
Bridge or Town Name COA								tor Name	Todd Warshawski				
Located Over			ARY TO EMBA	ARRAS RI	IVER.		•	tor Class	BR CLS B				
		8.11.107	.33.20, WATE	RCRS-ST				ant Name					
Located On 40:24 C1			1 34.293					Assistant Class					
Water Body Cl./Year								Inspection Date 31-Oct-2012					
Navigabil. Cl./Year						Data Entry By Lisa Fairhurst							
Legal Land Location S		SE SEC						Data Entry Date 21-Nov-2012					
Longitude, Latitude		-117:00:2	21, 53:10:14				Reviewer Name Eric Carcoux						
Road Authority		Alberta Transportation (AIT)					Review Date 13-Nov-2012						
Contract Main. Area CN		CMA13							e Brent Herrick				
Clear Roadway	y/Skew	14.5 / -32	2 deg. (LHF)					Review Date	22-Nov-2012				
AADT/Year		300 / 201	11 (A)				Follow-Up By		22 1107 2012				
Road Classific	ation	RAU-211	1.8-110					op 2,					
Detour Length	(km)	5											
Bridge Culver	t Inform	nation											
Number of Cul	verts	1											
Pipe #	Barrel		Span	Rise (or Dia.		Туре		Length	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	2	2610	2877		SPE		111.6	152X51	3.5,4.3	ELLIPSE		
Special Featur	es												
Special Featur	es Comi	ment											
•													
					Ut	ilities (L	ocated	at)					
Utility Attachm													
Telephone SW r/w					Gas								
Power							Munici						
Others						Proble	m (Y/N) No						
Remarks	BF ta	ag on u/s b	pevel	۸۳	proo	oh Boos	l / Emb	ankmont					
				A)			d / Embankment Explanation of Condition						
Horizontal Alignment				7	7	Intersection with Hwy 40, 100 North.							
Vertical Alignment					7	7	On gra	de 4% increasir	ng to south.				
Roadway Width (m)		14.500											
Troadway Widin (III)													
Embankment				6	6								
Sideslope (:1)		4.0											
(Height of Co	over(m)	: 11)											
Guardrail (Y/N)		No										
Approach Roa	ad / Eml	bankmen	t General Rat	ing	7	7							
						Upstre	am Enc						
Culvert Component				Last			nation of Condi	tion					
Direction				E									
End Treatment Others, None)	t (Concre	ete, Steel,	STEEL										
Headwall					Х	Х							
Collar				Х	Х								
Wingwalls					Х	X							
(Shape:)						1							
Cutoff Wall					Х	X							
							1						

73971 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		6	6	
Heaving (mm)	300			
	BELOW			
Above/Below (mm)	500			
Scour Protection		3	4	Scour 1.5m back along E bevel.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		3	4	
Beavers (Y/N)	No			
Upstream End General Rating	-	3	4	
		Bri	dge Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,			· ·
Barrel Last Accessible Date	31-Oct-2012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		4	6	Rocks on floor-sag est. at less than 5%
Measured Rise (mm)				neone on neon ong con at 1000 than 070
Measured At Ring No.	16			
Sag (mm)	10			
Percent Sag	5			
Sidewall		6	6	
Measured Span (mm)	2666			Small dent from install R12
Measured At Ring No.	18			
Deflection (mm)	56			
Percent Deflection	2			
		NI.	l NI	Clear as yeard with reals
Floor	0	N	N	Floor covered with rocks
Bulge (mm)	0			
Measured At Ring No.	V			-
Abrasion (Y/N)	Yes		T -	
Circumferential Seams	1.	8	7	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				1N Stagger
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		5	6	Superficial rust along floor.
Corrosion By Soil (Y/N)	Yes	3		Soil side corrosion leaking along floor plate edges.
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Camper FUS/ZERU/NEG	LERU			
Ponding (Y/N)	No			

73971 -1 Bridge Culvert

		Brio	lge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Spa			<u>): 2610</u>	, Rise (mm): 2877, Type: SPE)
Fish Passage Adequacy		4	4	300mm hanging outlet.
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		6	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	6	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction	Direction			
End Treatment (Concrete, Steel, Others, None)	End Treatment (Concrete, Steel, Others, None)			
Headwall		X	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		X	X	
Bevel End		6	6	
Heaving (mm)	200			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	300			
Scour Protection		4	4	Scour along bevel 1.5 x 3 x 1m
(Type : NONE)				
(Avg. Rock Size(mm):)				
Scour/Erosion		4	4	Scour hole about 1.5m deep, 10 m across.
Beavers (Y/N) No				
Downstream End General Ratio	ng	4	4	
		s	tructur	re Usage
			Now	Explanation of Condition
Channel (U/S and D/S)				
Channel (U/S and D/S) Alignment		4	6	
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			Deg d/s.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	6	

73971 -1 Bridge Culvert

		Maintenance R	ecommendations					
Inspector Recommendations	Year	Inspector Comments	Department Com		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS								
PLACE ADDITIONAL RIP RAP	2013	40m3 CL2 u/s and d/s.						
REMOVE DRIFT ACCUMULATION								
INSTALL CONCRETE/STEEL LINING	}							
INSTALL STRUTS								
INSTALL CONCRETE COLLAR/CUT	OFF							
REPAIR SEAMS								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/N (%)	low) 44.4/66	Sufficiency Rating (Last	/Now) 44.4/59.7	44.4/59.7 Est. Repl. Yr 2035		Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments					
Maintenance Reviewed By			Date		E	stimated Total	0	
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								
Proposed Action								
Previous Inspector's Name	Bryan Wai		Previous Assistant's Name	Brent Herrick				
Next Inspection Date	31-Jul-2014		Previous Inspection Date	03-Oct-2012				
Inspection Cycle (Default) (months)	21		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
Comment								