					Brida	e Culve	ert Insp	ection						
Bridge File Number 77193 -1 Bridge C			Bridge Culve				Form Type			CUL1				
Year Built 1970							Lot No.			1				
Bridge or Town	ENTRANCE					Inspec	or Name		Shane Hall					
Located Over		TRIBUTARY TO PINTO CREEK,					Inspector Class			BR CLS A				
		8.11.118.3.1.5, WATERCRS-ST					Assistant Name							
Located On		40:30 C1	1 55 003				Assistant Class							
Water Body Cl.	/Year						Inspection Date			18-Oct-2012				
Navigabil. CI./Y										Theresa Lacusta				
Legal Land Location SE SE								ntry Date		26-Nov-2012				
Longitude, Latitude -118:0			119.00.12 52.29.07					er Name		Eric Carcoux				
Road Authority Albert			Viberta Transportation (AIT)					Date		19-Nov-2012				
Contract Main.	Area	CMA13					Dept. Reviewer Name							
Clear Roadway	/Skew	8.9 /								06-Dec-2012				
AADT/Year		2,040 / 2	011 (A)				Dept. Review Date Follow-Up By			00 000 2012				
Road Classifica	ation	RAU-209	9-110				- голож-ор бу							
Detour Length	(km)	420												
Bridge Culvert	Inform	nation												
Number of Culverts 1														
Pipe #	Barrel	S	Span	Rise (or I	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	1	724	1901		SPE		42.7		152X51	2.8	ELLIPSE		
Special Feature	es													
Special Feature	es Comi	ment												
					Uti	ilities (L	ocated	at)						
Utility Attachme									1					
Telephone	East r	/w.					Gas							
Power						Municipal								
Others							Proble	m (Y/N)	No					
Remarks														
				Ар				ankment						
						Now	Explanation of Condition							
Horizontal Aligr					7	7	Bottom of sag, limited sight distance, no passing north.							
Vertical Alignment					6	6								
Roadway Width	n (m)		8.500											
Embankment					Ν	4		Work done at u/s end - embankment mostly void of vegetation						
Sideslope (	_:1)		2.5	5				culvert.						
(Height of Co	ver(m) :	<b>5.6</b> )												
Guardrail (Y/N)			Yes	Yes										
Approach Roa	d / Eml	bankment	t General Rat	ing	6	6								
						Upstre	am End							
Culvert Compo	onent				Last			ation of	Condi	tion				
Direction			W											
End Treatment (Concrete, Steel, STEEL Others, None)					1									
Headwall				Х	X									
Collar				Х	X									
Wingwalls				Х	X									
(Shape : )														
Cutoff Wall	Cutoff Wall				Х	Х								
					Х	X								

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			Up <u>stre</u>	am End						
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		N	Х	Bevel removed						
Heaving (mm)	2000									
Invert Above/Below Stream Bed	ABOVE			First 2 barrel sections heaved.						
Above/Below (mm)	300									
Scour Protection			4	Riprap scattered through channel and on road embankment.						
(Type : <b>RIP RAP</b> )				Appears work done u/s this year. Cannot confirm if protection adeuate for spring runoff.						
(Avg. Rock Size(mm) : 250)										
Scour/Erosion		Ν	4							
Beavers (Y/N)	Yes		1	Appears to be beaverdam u/s of inlet.						
Upstream End General Rating		4	4							
		Bric	lae Cu	lvert Barrel						
Culvert Component				Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa									
Barrel Last Accessible Date	15-Oct-2007		-	Excessive sag @ 1/3 to 2/3 L.( ice up to 0.9m below crown24-Nov-2010) Viewed from d/s end. Cannot access from u/s end, too steep. Only last 2 d/s rings inspected Beyond that water over hip waders.						
Special Features										
Special Feature										
(Type : )										
Special Feature										
(Туре : )										
Roof		Ν	N	(Cracks at circumferential seams. 15/Oct/2007)						
Measured Rise (mm)	1820									
Measured At Ring No.	6									
Sag (mm)	81									
Percent Sag	4									
Sidewall		N	N							
Measured Span (mm)	1802									
Measured At Ring No.	6									
Deflection (mm)	78									
Percent Deflection	5									
Floor		N	N	2 perforations in last d/s ringsphoto						
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		N	N	(6 cracks at 12:00. R5-10. 15/Oct/2007)						
Separation (mm)	0			· · · · · ·						
Longitudinal Seams		N	N	(Loose bolts, poor nesting on approx 20% of seams. Water squirting						
Total No. of Cracked Rings	0			through seams & bolt holes from under pipe. 15/Oct/2007)						
Total No. of Rings with Two Cracked Seams	0									
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)	No									
Longitudinal Stagger (Y/N)	No									
Coating		N	4	Superficial rust below waterline.						
Corrosion By Soil (Y/N)	No			Rust perforations in floor at d/s end. One 200mmx50mm, 1-100mm						
Corrosion By Water (Y/N)	Yes			x 50mmphoto						
Camber POS/ZERO/NEG	NEG									

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Bridge Inspection & Maintenance System (Web 2005)

77193 -1 Bridge Culvert

				Ivert Barrel						
Culvert Component				Explanation of Condition						
(Pipe # : <b>1, Primary Span, Loca</b>	tion Code: MAIN, S	Span (mm	): 1724	, Rise (mm): 1901, Type: SPE)						
Ponding (Y/N)	Yes			Ice to crown @ 1/3 to 2/3 L09-Feb-2009						
Fish Passage Adequacy		3	3	Outlet above streambed.						
Baffle		X	Х							
(Туре : )										
Waterway Adequacy		4	4	Inlet iced up to within 0.2 m from crown @ inlet24-Nov-2010						
Icing (Y/N)	Yes									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		4	4	G.R. carried forward from 15/Oct/2007.						
				ream End						
Culvert Component			Now	Explanation of Condition						
Direction	1	E		-						
End Treatment (Concrete, Steel, Others, None)	STEEL		1							
Headwall		X	X							
Collar		X	Х							
Wingwalls		X	Х							
(Shape : )										
Cutoff Wall		X	X							
Bevel End		6	6							
Heaving (mm)	300									
Invert Above/Below Stream Bed ABOVE										
Above/Below (mm) 600										
Scour Protection		4	4							
(Type : <b>RIP RAP</b> )				Scour around sides of bevel.						
(Avg. Rock Size(mm) : 400)										
Scour/Erosion		4	4							
Beavers (Y/N)	Yes			Debris @ d/s bevel appears from beavers.						
Downstream End General Ration	ng	4	4							
		s	tructu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment		4	4	Stream makes 90 degree bend immediately D/S of pipe.						
Bank Stability		6	6	Old slide mark on outlet bank.						
HWM (m below Top of Culvert)				HWM not visible.						
Drift (Y/N) Yes										
Channel Bottom DEGRADING Degrading/Aggrading				Degrading D/S.						
Beavers (Y/N) Yes										
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating	4	4								

Alberta Transportation

77193 -1 Bridge Culvert

Maintenance Recommendations													
Inspector Recommendations			Year	Inspecto	r Comments		Department Con	Target 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			2013	Complete Level II inspection and assess (requires dewatering) or replace.									
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/Now) (%)			44.4/44.4		Sufficiency Rating (Last/I (%)	Now) 3	31.8/31.8		Est. Repl. Yr 2021		Maint. Reqd. (Y/N)		Yes
Special Comments for Next Inspection	eaving. ck cracks d/s end.	s at circu	m. seams	5.		Department Comments							
Maintenance Reviewed By							Date	Estimated Total 0					
Proposed Long-Term Strategy													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name Sha			Shane Hall Previous					s Assistant's Name					
Next Inspection Date 18-		18-Jul-:	2014			nspection Date	24	I-Nov-2010					
Inspection Cycle (Default) (months) 21													
Comment													