			-	Srida	e Culv	ert Inspe	ection					
Bridge File Number	77194 -1	Bridge Culve			e ourve	Form T		CUL1				
Year Built	1970					Lot No.		4				
Bridge or Town Name					Inspector Name		Shane Hall					
Located Over PINTO CREEK, 8.11.118.3.1, W				WATERCRS-		· · ·	or Class	BR CLS A				
ST						Assistant Name						
Located On 40:30 C1 57.017						Assistant Class						
Water Body Cl./Year						Inspection Date		18-Oct-2012				
T	Navigabil. Cl./Year					Data E	ntry By	Theresa Lacusta				
Legal Land Location		11 TWP 54 R	GE 2 W6M			Data E	ntry Date	06-Jan-2013				
Longitude, Latitude -118:10:51, 53:38:35						Review	viewer Name Eric Carcoux					
Road Authority Alberta Transportation (AIT)						Review	Review Date 19-Nov-2012					
Contract Main. Area	CMA13					Dept. F	Reviewer Name	Paul Catt				
Clear Roadway/Skew	1	deg. (LHF)				Dept. F	Review Date	18-Jan-2013				
AADT/Year	2,040 / 2			Follow-Up By		Uр Ву						
Road Classification	RAU-209	-110				-						
Detour Length (km)	420											
Bridge Culvert Inform												
Pipe # Barrel		pan	Rise (or D	ia.)	Туре	Length		Corr. Profile	PI./Slab Thickness	Shape		
1 MAIN	2	019	2226		SPE		64.6	152X51	3.5	ELLIPSE		
Special Features			2220		0. 2	04.0		102/101	0.0			
Special Features Corr	ment											
				Uti	lities (l	ocated	at)					
Utility Attachments												
Telephone West	West r/w & East r/w.					Gas						
Power						Municipal						
Others						Problem (Y/N) No						
Remarks File t	ag installeo	d on West end										
							ankment					
			L		Now							
Horizontal Alignment				6	6	Curve at top of north hill. Crest curve limiting sight distance to the north. No passing.						
Vertical Alignment			6	0								
Roadway Width (m) 8.100												
Embankment				Ν	5							
Sideslope (:1)		3.0										
(Height of Cover(m)	: 6.4)											
Guardrail (Y/N)		Yes										
Approach Road / Em	bankment	t General Rat	ing	6	6							
					Upstre	am End						
Culvert Component			L	ast	Now		ation of Condi	tion				
Direction				N		H-pile r	etaining wall-no	bevel.				
End Treatment (Conc Others, None)	rete, Steel,	NONE				Fill spalling under retaining wall. This has been happening sinc retaining wall installed-poor design.				pening since		
Headwall				Х	X							
Collar				Х	X							
Wingwalls				Х	X							
(Shape :)					-							
Cutoff Wall				Х	Х							

Alberta Transportation

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End	I	X	X	-						
Heaving (mm)	400									
Invert Above/Below Stream Bed	BELOW			First 2 barrel sections heaved approx. 400mm.						
Above/Below (mm)	300									
Scour Protection		N	4	Additional rock recently place, filter fabric exposed.						
(Type : RIP RAP)				-						
(Avg. Rock Size(mm) : 250)										
Scour/Erosion		N	5							
Beavers (Y/N)	No									
Upstream End General Rating	1	4	4							
		Brid	dae Cu	lvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm): 201 9	, Rise (mm): 2226, Type: SPE)						
Barrel Last Accessible Date	18-Oct-2012			Not safe to access from u/s end. Accessed from d/s end only.						
Special Features	· · · · · · · · · · · · · · · · · · ·									
Special Feature										
(Type :)										
Special Feature										
(Туре :)										
Roof		6	6	Rock/gravel on floor, not measured.						
Measured Rise (mm)	2127									
Measured At Ring No.	9									
Sag (mm)	99									
Percent Sag	4									
Sidewall		6	6							
Measured Span (mm)	2108									
Measured At Ring No.	8									
Deflection (mm)	89									
Percent Deflection	4									
Floor		N	N	Abrasion from gravel. (Water is piping along first 4 sections.						
Bulge (mm)	0			28/June/2007) 90% of floor covered by large rock/gravel/silt.						
Measured At Ring No.										
Abrasion (Y/N)	Yes									
Circumferential Seams		6	6							
Separation (mm)	0									
Longitudinal Seams		7	7							
Total No. of Cracked Rings	0									
Total No. of Rings with Two Cracked Seams										
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)	No			1						
Longitudinal Stagger (Y/N)	No			1						
Coating		N	5	Bottom 1/4 of culvert has superficial rust. Soil side corrosion coming						
Corrosion By Soil (Y/N)	Yes		5	through majority of bolt holes.						
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	NEG									
Ponding (Y/N)	No									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

77194 -1 Bridge Culvert

		Bric	dge Cu	Ivert Barrel					
Culvert Component		Last		Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 2019	, Rise (mm): 2226, Type: SPE)					
Fish Passage Adequacy		4	4	1.5 m drop off end of pipe.					
Baffle		X	Х						
(Туре :)									
Waterway Adequacy		5	4	(Iced to within 1.2m of crown24-Nov-2010)					
Icing (Y/N)	Yes								
Silting (Y/N)	Yes								
Drift (Y/N) No									
Barrel General Rating		N	6						
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		E							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		X	X						
Collar		Х	Х						
Wingwalls		Х	Х						
(Shape :)		,							
Cutoff Wall		X	X						
Bevel End	1	6	6						
Heaving (mm)	200								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	1500		1						
Scour Protection		N	5	Drop off filled with rock.					
(Type : RIP RAP)				-					
(Avg. Rock Size(mm) : 300)			-						
Scour/Erosion		N	5						
Beavers (Y/N)	No								
Downstream End General Ratir	ng	4	5						
		S	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)			1						
Alignment		5	4	D/S poor alignment, sharp bend.					
Bank Stability		4 4		Sliding D/S from the pipe, due to poor alignment and high outlet velocities.					
HWM (m below Top of Culvert)				HWM not visible. Drift on embankment.					
Drift (Y/N) Yes									
Channel Bottom DEGRADING Degrading/Aggrading				D/S					
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)			4					
(Fish Compensation Measure 2 : NONE)									
Channel General Rating			4						

Maintenance Recommendations											
Inspector Recommendations	Year	Inspector Comments	Department Commo		Target Year	Est. Cost	Cat #				
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTC	0FF										
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION								_			
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No (%)	ow) 55.6/66	.7 Sufficiency Rating (Last/Now) (%)) 41.7/44.8 Est. Repl. Yr 2		2023	Maint. Reqd. (Y/N)		No			
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	Shane Hall	Previ	ous Assistant's Name	Assistant's Name							
Next Inspection Date	18-Jul-2014	Previ	ous Inspection Date								
Inspection Cycle (Default) (months)	21										
Comment											