					Brida	e Culv	ert Insp	ection						
						Form Type		CUL1						
/ear Built 1955					Lot N			4						
	Bridge or Town Name HARTELL						Inspector Name		Jon Davies					
Located Over	It I 1955 Town Name HARTELL Over TRIBUTARY TO TONGUE 2.13.27.5.4, WATERCRS-1 On 543:02 C1 13.745 On 543:02 C1 13.745 Ody CL/Year I. CL/YEAR I						Inspector Class		BR CLS B					
Located On	Over TRIBUTARY TO TON 2.13.27.5.4, WATER On 543:02 C1 13.745 ody CI./Year Image: Constraint of the second of the seco						Assistant Name							
Water Body Cl.	/Year							int Class						
Navigabil. Cl./Year							Inspection Date		02-Mar-2013					
Legal Land Location SW SEC 14 TWP 19 RGE 1 W5M					5M		Data Entry By		Lauren Korte					
							Data Entry Date Reviewer Name		29-Mar-2013					
Road Authority Alberta Transportation (AIT)									Garry Roberts					
Contract Main. Area CMA27							Review		17-Mar-2013					
								Reviewer Name	Tim Davies					
			011 (A)	11 (A)				Review Date	08-Apr-2013					
Road Classifica								-Uр Ву						
Detour Length ((km)	5					1							
		ation												
Number of Culv		1												
Pipe #	Barrel	S	Span	Rise (or	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape			
1	MAIN	-		2019		SP		63	152X51	3.0	ROUND			
Special Feature	es							1	1	-				
Utilities (Located at) Utility Attachments Gas														
Power	North	n ROW. Municipal												
Others							Proble	m (Y/N) No						
Remarks														
				A				ankment						
					Last		Explanation of Condition							
Horizontal Aligr					7	7	Intersection 700m West.							
Vertical Alignme Roadway Width			8.000		7	7								
	. ,													
Embankment					7	7	3:1 at r	oad side slope.						
Sideslope (:1)		2.0				-								
(Height of Co Guardrail (Y/N)		: 4)	No							2013 Korte 2013 oberts 2013 vies 2013 vies 2013				
Approach Roa	d / Emł	bankmen	t General Rat	ing	7	7								
				-			am End							
Culvert Compo	onent				Last			ation of Condi	tion					
Direction					S									
End Treatment Others, None)	(Concre	ete, Steel,	, STEEL				1							
Headwall					X	X								
Collar					X	X								
Wingwalls					X	X								
(Shape :)														
Cutoff Wall					X	X								
							1							

Alberta Transportation

			Upstre	am End					
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		6	6						
Heaving (mm)	200								
Invert Above/Below Stream Bed	BELOW			Fence attached to bevel.					
Above/Below (mm)	100								
Scour Protection		8	7						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 300)									
Scour/Erosion		8	7						
Beavers (Y/N)	No								
Upstream End General Rating		6	6						
		Brio	dge Cu	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm):	, Rise (mm): 2019, Type: SP)					
Barrel Last Accessible Date	02-Mar-2013								
Special Features									
Special Feature									
(Туре:)									
Special Feature									
(Type :)			_						
Roof			5	Estimate roof sag. General roof shape is adequate. R13 circumferential seam damage at roof. Up to 200mm torn steel. R14 isolated moderate cusping at West roof longitudinal seam.					
Measured Rise (mm) 2130									
Measured At Ring No.	10								
Sag (mm)	111								
Percent Sag	5								
Sidewall		5	5	(Water piping through 2 bolt holes in ring # 1 along floor seam - bolts					
Measured Span (mm)	2120			are missing) 27-Nov-2009.					
Measured At Ring No.	9			_					
Deflection (mm)	101			_					
Percent Deflection	5								
Floor		7	N	P.R 7. Ice and water up to 500mm deep.					
Bulge (mm)	0								
Measured At Ring No.				_					
Abrasion (Y/N)	Yes								
Circumferential Seams		5	5	Bolts missing at U/S bevel. Vertical separation at R13 roof. No					
Separation (mm)	200			infiltration.					
Longitudinal Seams		6	5						
Total No. of Cracked Rings	0								
Total No. of Rings with Two Cracked Seams				1N stagger					
Min. Remaining Steel Between Cracks (mm)	0			1N stagger.					
Proper Lap (Y/N) No				_					
Longitudinal Stagger (Y/N)	Yes		_						
Coating	1	5	5	Superficial corrosion at bolt holes and below water line.					
Corrosion By Soil (Y/N)	Yes			_					
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel										
Culvert Component		Last		Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm		, Rise (mm): 2019, Type: SP)						
Fish Passage Adequacy		X	5							
Baffle			X							
(Type:)										
Waterway Adequacy		7	7	Chainlink fence across d/s end, barbed						
Icing (Y/N)	No			wire fence across bevels.						
Silting (Y/N)	No									
Drift (Y/N) No										
Barrel General Rating		5 5								
Downstream End										
Culvert Component		Last	Now	Explanation of Condition						
Direction	•									
End Treatment (Concrete, Steel, Others, None)	d Treatment (Concrete, Steel, STEEL									
Headwall		X	X							
Collar		X	Х							
Wingwalls		X	X							
(Shape :)										
Cutoff Wall	Cutoff Wall									
Bevel End		5	5							
Heaving (mm)	Heaving (mm) 100									
nvert Above/Below Stream Bed BELOW										
Above/Below (mm) 100										
Scour Protection			5							
(Type : RIP RAP)				_						
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		4	5	1 m deep x 4.4 m wide x 8.5 m long - scour. Rock lined.						
Beavers (Y/N)	No									
Downstream End General Ration	ng	4	5							
		S	Structu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)			_							
Alignment			8							
Bank Stability			8							
HWM (m below Top of Culvert)				HWM not visible.						
Drift (Y/N)	No									
Channel Bottom DEGRADING Degrading/Aggrading										
Beavers (Y/N) No										
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		8	8							

Maintenance Recommendations											
Inspector Recommendations		Year	Inspector Comments		Department Comr	Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTC)FF										
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now) (%)		55.6/55.	.6 Sufficiency Rating (Last/N (%)	low)	62.0/63.2	Est. Repl. Yr 2023		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 Rex		avidson		Previous <i>J</i>	revious Assistant's Name						
Next Inspection Date 02		02-Jun-2016			Previous Inspection Date 27-Nov-2009						
Inspection Cycle (Default) (months) 39											
Comment											