					Bridg	e Culve	ert Insp	ection						
Bridge File Number 71850 -		0 -1 Bridge Culvert				Form Type		CUL1						
Year Built  Bridge or Town Name  SPIRIT RIVER  Located Over  TRIBUTARY TO HOWARD CREEK, 8.10.82.2.1, WATERCRS-ST  Located On  49:04 C1 16.990  Water Body CI./Year  Navigabil. CI./Year  Legal Land Location  SW SEC 27 TWP 78 RGE 7 W6M  Longitude, Latitude -118:59:45, 55:46:52  Road Authority  Alberta Transportation (AIT)  Contract Main. Area						Lot No			4					
						Inspec	tor Name		Brian Pientsch					
Located Over	-	TRIBU	TARY TO HOW	ARD CRE	EEK,		Inspector Class BR CLS A							
Located On							Assista	Assistant Name Brian Cote						
		49.04 (	51 10.990					ant Class						
						Inspec	tion Date		07-Jul-2011					
					· N /		Data E	ntry By		Lisa Fairhurst				
				GE / WO	OIVI		Data E	ntry Date		12-Aug-2011				
Longitude, Latitude -118:59:45							Reviev	Reviewer Name Arnold Assenheimer						
Road Authority Alberta T			•	(AII)			Review Date			13-Jul-2011				
							Dept. Reviewer Name			Steve Pasquan				
Clear Roadway/Skew 11.4 / -7 c AADT/Year 1,650 / 20 Road Classification RAU-211.		•				Dept. Review Date		16-Nov-2011						
Road Classification RA							Follow-Up By							
Detour Length (		6												
Bridge Culvert														
Number of Culve			1											
			Span	Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		-	3050		SP		96.3		152X51	4.0	ROUND		
Special Feature										102/101		11100112		
	Special Features Comment													
·														
					Uti	ilities (L	ocated	at)						
Utility Attachmen	nts						_		I					
Telephone							Gas							
Power	4 line 4	10m So	uth of S. should	er			Munici		 					
Others							Proble	m (Y/N)	No					
Remarks				Δ.	20100	sh Door	l / Emb	ankment						
				A	Last			nation of		tion				
Horizontal Align	ment				7	7				ING COMPAN	Y			
Vertical Alignme					8	8	250M	EAST	DIVILL					
Roadway Width			11.400											
						1 _								
Embankment				7	7									
Sideslope (		4.0\	3.0											
(Height of Cov	/er(m) : '	16)												
Guardrail (Y/N)			Yes											
Approach Road	d / Emba	ankme	ent General Rat	ing	7	7								
						Upstre	am Enc							
<b>Culvert Compo</b>	nent				Last	Now	Explar	nation of	Condi	tion				
Direction					S									
End Treatment ( Others, None)	(Concre	te, Stee	el, CONCRETE											
Headwall					7	7								
Collar					7	7								
Wingwalls			Х	Х										
(Shape: )														
Cutoff Wall					N	N								

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		7	7	
Beavers (Y/N)	Yes			2.5m high beaverdam 5m u/s.
Upstream End General Rating		7	7	
		Bri	dge Cu	Ivert Barrel
Culvert Component			Now	
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S			, Rise (mm): 3050, Type: SP)
Barrel Last Accessible Date	07-Jul-2011			
Special Features				
Special Feature				
(Type : )				
Special Feature				
(Type : )		<u> </u>		
Roof		7	7	
Measured Rise (mm)	3020	-		
Measured At Ring No.	12			
Sag (mm)	30			
Percent Sag	1			
Sidewall		7	5	Numerous dents and some perforations caused by large heavy
Measured Span (mm)	3072			objects, does not appear construction related - photo
Measured At Ring No.	12			
Deflection (mm)	22			
Percent Deflection	1			
Floor		7	7	
Bulge (mm)	0			-
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams	. 10	7	7	
Separation (mm)	0	1	,	
Longitudinal Seams	·	8	8	
Total No. of Cracked Rings	0	8	ď	
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				2N Stagger
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating	. 00	7	7	
Corrosion By Soil (Y/N)	No	1	,	
	No			
Corrosion By Water (Y/N) Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

		Bric	lge Cu	Ivert Barrel				
Culvert Component			Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	an (mm):		, Rise (mm): 3050, Type: SP)				
Fish Passage Adequacy		7	6					
Baffle		Х	Х					
(Type:)								
Waterway Adequacy			7					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		7	5					
		D	ownstr	ream End				
Culvert Component		Last	Now	Explanation of Condition				
Direction		N						
End Treatment (Concrete, Steel, Others, None)	End Treatment (Concrete, Steel, STEEL							
Headwall		Х	X					
Collar		Х	N					
Wingwalls			Х					
(Shape: )								
Cutoff Wall		Х	Х					
Bevel End			7					
Heaving (mm)	300							
Invert Above/Below Stream Bed	ABOVE							
Above/Below (mm) 300								
Scour Protection		6	6					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 450)								
Scour/Erosion		6	6					
Beavers (Y/N)	No							
Downstream End General Ratin	ng	6	6					
		s	tructu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment			7					
Bank Stability		5	5					
HWM (m below Top of Culvert)				LINAMA ned viinible				
Drift (Y/N) Yes				HWM not visible.				
Channel Bottom Degrading/Aggrading  DEGRADING				Beaver dam u/s.				
Beavers (Y/N) Yes								
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating			7					

		Maintena	nce Recommendations				
Inspector Recommendations	Year	Inspector Comments	Department Cor	mments	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING	3						
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUT	OFF						
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/N (%)	low) 77.8/5	Sufficiency Rating (%)	(Last/Now) 73.9/63.8	Est. Repl. Yr 203	5 Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date		Estimated Tota	I 0	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Shane Hall		Previous Assistant's Name				
Next Inspection Date	07-Apr-2013		Previous Inspection Date	27-Oct-2009			
Inspection Cycle (Default) (months)	21						
Comment							