Bridge Culvert Inspection														
Bridge File Number 07073 -1 Bridge Culvert							Form Type			CUL1				
Year Built		1960						1						
Bridge or Town N	Name S	SUNNYE	BROOK				Inspect	ector Name		Todd Warshawski				
Located Over	٦	TRIBUT	ARY TO STRA	WBERR	Y CRE	EK,	· · ·		BR CLS B					
	6	6.112.11	, WATERCRS	₹S-ST			Assistant Name							
Located On 39:08 C1 13.408							Assistant Class							
Water Body CI./Year					Inspection			tion Date		10-Jan-2013				
Navigabil. Cl./Year							Data Entry By		Lisa Fairhurst					
Legal Land Location SW SEC 5 TWP 49 RGE 2 W5M					Λ		Data Entry Date			17-Jan-2013				
Longitude, Latitude -114:15:54, 53:11:33							Reviewer Name		Eric Carcoux					
Road Authority Alberta Transportation (AIT)							Review Date		16-Jan-2013					
Contract Main. Area CMA11								ept. Reviewer Name		Paul Catt				
	Clear Roadway/Skew 11.2 /					Dept. R			ate	18-Jan-2013				
AADT/Year		2,800 / 2					Follow-Up By							
Road Classificati	-	RAU-211	.8-110				_							
Detour Length (km) 6														
Bridge Culvert I														
Number of Culve		1												
Pipe # E	Barrel	S	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1 N	/AIN	2	314	2552		SPE		58.5		152X51	3.0	ELLIPSE		
Special Features			-											
· ·	Special Features Comment													
					Uti	lities (L	ocated	at)						
Utility Attachmen							1							
· · · · · · · · · · · · · · · · · · ·		and south					Gas							
	5 wires	North r/	w. 1 wire to w	est.			Munici							
Others						Proble	m (Y/N)	No						
Remarks														
				A				ankment	0					
					Last 7	Now	Explanation of Condition Entrances both sides.							
Horizontal Alignment						-	Sag curve, no passing in either direction.							
Vertical Alignment				6	6									
Roadway Width (m)			11.200											
Embankment					7	7								
Sideslope (:	1)		3.0											
(Height of Cove	er(m) : 7	7.2)												
Guardrail (Y/N)			Yes											
		-		-			.							
Approach Road	l / Emba	ankmen	t General Rat	ing	6	6	Strike damage, 2 sections at NE - photo							
						Upstre	am End							
Culvert Component				Last			ation of	Condi	tion					
Direction		S												
End Treatment (Concrete, Steel, STEEL														
Others, None) Headwall			X	X										
Collar			X	X										
Wingwalls				X	X									
(Shape:)					V	V								
Cutoff Wall				X	X									

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	Upstream End								
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		4	4	Bolts missing from longitudinal seams (30).					
Heaving (mm)	300								
Invert Above/Below Stream Bed									
Above/Below (mm)	0								
Scour Protection		N N		Snow covered					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 200)									
Scour/Erosion		N	N	(Piping for first 3 barrel sections. 2002/05/17) (Loss of fill along west side of bevel up to 400mm, settlement along east27-May-2009)					
Beavers (Y/N)	Yes			1m high beaver dam 5m U/S.					
Upstream End General Rating		4	4						
		Brid	dge Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 2314	, Rise (mm): 2552, Type: SPE)					
Barrel Last Accessible Date	10-Jan-2013			Ice covering R19-23, seam not visible					
Special Features	I								
Special Feature									
(Type:)									
Special Feature									
(Туре :)									
Roof		5	5	(5.8% roof sag. 2002/05/07)					
Measured Rise (mm)	2404			Rise not measured due to ice					
Measured At Ring No.	11								
Sag (mm)	148								
Percent Sag	6								
Sidewall		2	2	Sidewall cracked less than 50mm steel.					
Measured Span (mm)	2515								
Measured At Ring No.	11								
Deflection (mm)	201								
Percent Deflection	9								
Floor		N	N	1m ice in barrel					
Bulge (mm)	0								
Measured At Ring No.									
Abrasion (Y/N)	No								
Circumferential Seams		5	5	(Some water seepage apparent most seams. 2002/05/17)					
Separation (mm)	0			Lower 1/3 not rated					
Longitudinal Seams		2	2	Rings 2,3,4,5,6,7,8,10,11,12. Cracked East wall (15,16,17,18,19,20					
Total No. of Cracked Rings	18			and 21 cracked on East wall. 36mm metal between cracks, worst @ ring R18.					
Total No. of Rings with Two Cracked Seams				R6,8,10,12,15,16,17,19 all with 50-100, steel, others listed have					
Min. Remaining Steel Between Cracks (mm)	36			more thank 100mm.					
Proper Lap (Y/N)	No								
Longitudinal Stagger (Y/N)	Yes			1N stagger.					
Coating		N	N	(Superficial on lower 1/2. 26/Jan/2006)					
Corrosion By Soil (Y/N)	Yes								
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 2314	, Rise (mm): 2552, Type: SPE)						
Ponding (Y/N)	No									
Fish Passage Adequacy		7	7							
Baffle		Х	Х							
(Type :)										
Waterway Adequacy			7							
Icing (Y/N)	No			Minor drift at inlet						
Silting (Y/N)	No									
Drift (Y/N)	Yes									
Barrel General Rating		2	2							
			ownstr	ream End						
Culvert Component		Last	Now	Explanation of Condition						
Direction		N	110 11							
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	X							
Collar		X	Х							
Wingwalls		Х	X							
(Shape:)		~~~~	~							
Cutoff Wall		X	X							
Bevel End		4	4	Bolts missing from longitudinal seams (30).						
Heaving (mm)	100									
Invert Above/Below Stream Bed ABOVE										
Above/Below (mm) 200										
Scour Protection			N	Snow covered						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 200)										
Scour/Erosion			N)Loss of fill on West side 1m long, 0.5m wide, 0.2m deep27-May-2009)						
Beavers (Y/N)	Beavers (Y/N) Yes			Dam 20m D/S.						
Downstream End General Ratir	ng	4	4							
		S	tructu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment		7	7							
Bank Stability		7	7							
HWM (m below Top of Culvert)				HWM not visible.						
Drift (Y/N)	No									
Channel Bottom Degrading/Aggrading				20m D/S there is a dam.						
Beavers (Y/N) Yes										
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating			7							

Maintenance Recommendations												
Inspector Recommendations			Year	Inspector Comments			Department Com	ments	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	REPAIR SEAMS											
OTHER ACTION			2013	Bridge assessment.								
OTHER ACTION			2013	Repair g	guardrail (2 sections)							
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)			22.2/22.	2	Sufficiency Rating (Last/ (%)	Now)	42.8/42.5	Est. Repl. Yr	2015	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection Assessment underway. EDC 16 Jan/13					to	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 Wade		Wade I	Wade Nanninga				us Assistant's Name					
Next Inspection Date 10-0		10-Oct	10-Oct-2014 Prev				s Inspection Date 26-Jan-2011					
Inspection Cycle (Default) (months) 21		21										
Comment												