					Brida	a Culve	ert Insp	ection						
Bridge File Nu	mher	77517 -1	Bridge Culve	rt	Billag	e Cuive				CUL1				
Bridge File Number 77517 -1 Bridge Culvert Year Built 1986							Form Type Lot No.		2					
Bridge or Town					Inspector Name		Brian Pientsch							
Located Over	11441110	TRIBUTARY TO LOON RIVER,								BR CLS A				
2004104 0 701		8.10.18.12.12, WATERCRS-ST					Assistant Name		Clem Guenette					
Located On		88:08 C1	25.914				Assistant Class		Olem Gueriette					
Water Body CI	./Year							Inspection Date		11-Jun-2012				
Navigabil. Cl./					Data Entry By		Theresa Lacusta							
			2 TMD 97 DGE 0 M/5M				Data Entry Date		14-Oct-2012					
			04 56:30:45				Reviewer Name		Eric Carcoux					
Road Authority Alberta Tr Contract Main, Area CMA02			ransportation (AIT)					Review Date		08-Oct-2012				
Contract Main.		-						David Morriso	n					
Clear Roadway/Skew 10.8 / -30			deg. (LHF)				Dept. Reviewer Name Dept. Review Date		10-Jan-2013					
·		1,350 / 20	011 (A)					Follow-Up By		10-3411-2013				
Road Classific	ation	RAU-210					I dilow-op by							
Detour Length	(km)	300												
Bridge Culver	t Inform	nation												
Number of Cul	verts	1												
Pipe #	Barrel	S	pan	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	-		2400		MP		41		125X26	2.8	ROUND		
Special Featur	es											<u>'</u>		
Special Featur		ment												
					Uti	ilities (L	ocated	at)						
Utility Attachm	ents													
Telephone							Gas							
Power 6 wire O/H, 30m E r/w.						Municipal								
Others							Proble	m (Y/N)	No					
Remarks														
				A			d / Embankment							
							Explanation of Condition							
Horizontal Alig					7	7	Loon Lake intersection 120m south. Oil lease intersection 100m North.							
Vertical Alignm Roadway Widt			10.800		8	8								
Embankment					4	4					ttlement. Grass	sed in. Sloughing		
Sideslope (_	_:1)		4.0				banks on East side of road.							
(Height of Co	over(m)	: 1.8)												
Guardrail (Y/N))		No											
Approach Roa	ad / Eml	bankment	General Rat	ing	7	7								
							am End							
Culvert Comp	onent				Last	Now	Explar	nation of (Condi	tion				
Direction			OTES		E									
End Treatment Others, None)	t (Concre	ete, Steel,	STEEL											
Headwall					Х	X								
Collar	Collar				Х	Х								
Wingwalls	Wingwalls				Х	Х								
(Shape:)														
Cutoff Wall					Х	Х								

			Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	N	Crushed from equipment removing beaver dams. Cutting beside the
Heaving (mm)	100			bevel. Beaver dam on bevel end.
Invert Above/Below Stream Bed				Covered with beaver dam.
Above/Below (mm)	0			
Scour Protection		4	5	
(Type: NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		4	5	
Beavers (Y/N)	Yes			
Upstream End General Rating		4	5	
		Brid	dae Cu	Ilvert Barrel
Culvert Component			Now	
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	1):	, Rise (mm): 2400, Type: MP)
Barrel Last Accessible Date	15-Jan-2000			(Measured 2480 x 2330 near c/l. 1996/04/23) Water 800mm from crown. Looks good as viewed from the end @ d/s & 300mm from crown @ u/s.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		N	N	150mm bulge in roof at inlet from mower - photo.
Measured Rise (mm)				(2.9%. 15/Jan/2000)
Measured At Ring No.				- (2.976. 15/3411/2000)
Sag (mm)	70			
Percent Sag				
Sidewall		N	N	(3.3%. 15/Jan/2000)
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	80			
Percent Deflection				
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	
Separation (mm)	30			
Longitudinal Seams		Х	X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		N	N	(Minor superficial rusting below springline. 1996/04/23)
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

		Brio	Bridge Culvert Barrel					
Culvert Component		Last Now		Explanation of Condition				
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 2400, Type: MP)				
Ponding (Y/N)	Yes			1600mm ponding.				
Fish Passage Adequacy		7	7					
Baffle		Х	Х					
(Type:)								
Waterway Adequacy		5	5					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		N	N	General rating was "6" from 15/Jan/2000.				
		D	ownstr	ream End				
Culvert Component		Last	Now	Explanation of Condition				
Direction		W						
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		X	X					
Collar		Х	Х					
Wingwalls		Х	Х					
(Shape:)								
Cutoff Wall		Х	Х					
Bevel End		5	5	Water 1200mm from crown.				
Heaving (mm)	100							
Invert Above/Below Stream Bed				End of bevel under water.				
Above/Below (mm)	0							
Scour Protection		4	4					
(Type : NONE)								
(Avg. Rock Size(mm) :)			1					
Scour/Erosion		4	4	Loss of fill on sides 1.5m long x 0.4m wide x 0.3m deep.				
Beavers (Y/N)	No							
Downstream End General Ratin	ng	4	4					
		S		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)				HMW not visible.				
Drift (Y/N)	No							
Channel Bottom Degrading/Aggrading				Stable.				
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		7	7					

			Maintenance I	Recommend	ations					
Inspector Recommendations	Ye	ar Ir	nspector Comments		Department Com		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION	201	12 R	emove beaver dam at inlet.							
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTOFF										
REPAIR SEAMS										
OTHER ACTION	201	12 (F	Remove U/S bevel. Nov 5, 2008)							
OTHER ACTION		12 C	consider Level 2 inspection due to ycles without being able to acces	5 inspection s barrel.						
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	low) 55.	Sufficiency Rating (Last/N (%)		t/Now)	60.5/51.4	Est. Repl. Yr	2029	Maint. Re	qd. (Y/N)	Yes
Special Monitor scour d/s. Comments for Next Inspection	Monitor sett	tlement	8m South of u/s end.		Department Comments					
Maintenance Reviewed By					Date		E	stimated Total	1 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Brian Pien	itsch		Previous /	s Assistant's Name Lisbeth Medina					
Next Inspection Date	11-Mar-20)14		Previous	ous Inspection Date 04-Aug-2010					
Inspection Cycle (Default) (months)	21									
Comment										