	8370 -1 Bridg	na Culva		JI (4.9)	o oarve	art ille pee	ш						
		78370 -1 Bridge Culvert				ert Inspection Form Type		CUL1					
	1982					Lot No.		3					
Bridge or Town Name C	CAROLINE					Inspector Name			Owen Salava				
	RIBUTARY T	O RAVE	N RIVER.	3.91.	.6.	Inspecto			BR CLS A				
W	ATERCRS-S	ST				Assistant							
Located On 22	2:20 C1 32.2	29		Assistant									
Water Body Cl./Year						Inspection Date			19-Oct-2012				
Navigabil. Cl./Year						Data Entry By			Marcia Chavez				
Legal Land Location N	W SEC 9 TV	VP 36 RC	GE 5 W5M			Data Entry Date			09-Nov-2012				
Longitude, Latitude -1						Reviewer Name		John O'Brien					
Road Authority Alberta Transportation (AIT)					Review Date				30-Oct-2012				
Contract Main. Area C	Contract Main. Area CMA18					Dept. Reviewer Name				es			
Clear Roadway/Skew 12	2.3 /					Dept. Review Date			13-Nov-2012				
AADT/Year 1,	970 / 2011 (A)				Follow-Up By							
Road Classification R	AU-211.8-11	0				T Gliow-op By							
Detour Length (km) 6													
Bridge Culvert Informat	ion												
Number of Culverts	1		I		I				I				
Pipe # Barrel	Span		Rise (or D	ia.)	Туре	L	ength		Corr. Profile	Pl./Slab Thickness	Shape		
1 MAIN	2019		2226		SP	2	29.9		152X51	2.8	ELLIPSE		
Special Features	2013		ZZZO		Oi		.0.0		102/(01	2.0	LLLII OL		
Special Features Comme	ent 5% VE	:											
oposiar i oataroo commi	0,0 12	-											
				Uti	lities (L	_ocated a	t)						
Utility Attachments													
Telephone In r/w West of c/l.						Gas							
Power 2 wires 2	es 25m East of c/l.					Municipa	ıl						
Others Fibre optics East r/w.						Problem	(Y/N)	⁄es_					
Remarks													
					oach Road / Embankment								
			L			Explanation of Condition							
Horizontal Alignment				7	7	Approach 20m NE.							
Vertical Alignment			8	8	D	Bump sign at transverse ACP crack over pipe.							
Roadway Width (m) 12.300					Bump sign at transvers			se ACP crack o	ver pipe.				
Embankment				7	7								
Sideslope (:1)													
(Height of Cover(m): 1.	.3)												
Guardrail (Y/N)	No												
					Τ_								
Approach Road / Emba	nkment Gen	eral Rat	ing	7	7								
					Upstre	am End							
Culvert Component		Now	Explana	tion of C	ondi	tion							
Direction				W									
End Treatment (Concrete	, Steel, STE	EL											
Others, None)													
Headwall				Χ	X								
Collar				Х	X								
Collai				,									
	Wingwalls					1							
Wingwalls				Χ	X								
Wingwalls (Shape:) Cutoff Wall				X	X								

78370 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		6	6	
Heaving (mm)	200			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		N	6	
(Type: RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		N	6	
Beavers (Y/N)	No			
	110		Ι.	
Upstream End General Rating		6	6	
				Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca		n (mm): 2019	, Rise (mm): 2226, Type: SP)
Barrel Last Accessible Date	19-Oct-2012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	
Measured Rise (mm)	2190			
Measured At Ring No.	3			
Sag (mm)	36			1.6% sag
Percent Sag	1			
Sidewall		7	7	
Measured Span (mm)	2090			
Measured At Ring No.	3			
Deflection (mm)	71			3.5% deflection
Percent Deflection	3			
Floor		N	6	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		6	6	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			

78370 -1 Bridge Culvert

		Brio	dge Cul	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 2019	, Rise (mm): 2226, Type: SP)
Fish Passage Adequacy		5	5	D/S perched.
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
		D		ream End
Culvert Component		Last	Now	Explanation of Condition
Direction	T	E		
End Treatment (Concrete, Steel, Others, None)	STEEL		1	
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		6	6	Bevel projects from fill as much as 700mm.
Heaving (mm)	150			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		N	3	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		N	3	Rock washed D/S, bevel perched 400mm with 3m x 6m x 0.6m deep scour hole - photo.
Beavers (Y/N)	No			
Downstream End General Ratio	ng	3	3	
		S	Structur	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Culvert)	0.5			
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :				
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		6	6	

		Mainte	enance Recommenda	ations					
Inspector Recommendations	Year	Inspector Comments	marioc Recommend	Department Comm	ents	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							ger rem		
PLACE ADDITIONAL RIP RAP	2013	15m3 Class 1 @ D/S end.							
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	i								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTO	OFF								
REPAIR SEAMS									
OTHER ACTION	2013	Seal transverse crack.							
OTHER ACTION	2013	Trim d/s embankment/rock	along bevelled end.						
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 77.8/77	77.8/77.8 Sufficiency Rating (L (%)		2.9/62.7	Est. Repl. Yr	2039	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection				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 Owen Salava Previous			Previous A	Assistant's Name					
Next Inspection Date				nspection Date	03-Feb-2011				
Inspection Cycle (Default) (months)	21								
Comment									