08358 -1 Bridge Culvert

					Bridg	e Culve	rt Insp	ection						
Bridge File Number 08358 -1 Bridge Culvert						Form Type				CUL1				
Year Built 1970							Lot No			3				
Bridge or Town I	Name	NEW B	RIGDEN				Inspec	Inspector Name Owe			Owen Salava			
Located Over TRIBUTAI WATERCI			ARY TO SOUNDING CREEK, 4.4.7,				tor Class		BR CLS A					
Located On 41:12 C1 2							Assistant Name Assistant Class							
Water Body CI./	Year							tion Date		18-Jul-2012				
Navigabil. Cl./Ye										Marcia Chave				
Legal Land Loca	ation	NW SE	C 3 TWP 31 RC	3E 4 W4N	/			ntry By		†	<u> </u>			
Longitude, Latitu		-110:30	0:05, 51:37:46				Data Entry Date 02-Aug-2012							
Road Authority		Alberta	Transportation	(AIT)				Reviewer Name John O'Brien						
Contract Main. A	Area	CMA22					Review Date 31-Jul-2012							
Clear Roadway/	Skew	10.6 /						Dept. Reviewer Name Andrew Smikles						
AADT/Year		570 / 20	011 (A)				Dept. Review Date		07-Aug-2012					
Road Classificat		RAU-2				Follow-Up By								
Detour Length (k	km)	3												
Bridge Culvert	Inform	ation												
Number of Culve	erts		1											
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1 N	MAIN		2590	2870		SPE		51.8		152X51	2.8	ELLIPSE		
Special Features	S													
Special Features	s Comn	nent												
					Liti	ilities (L	ocated	at)						
Utility Attachmer	nts				<u> </u>	iiiiioo (L	ocalica	at)						
Telephone							Gas							
Power	4 lines	Fast fe	enceline.					unicipal						
Others	1 111100	2 2001 10	1100111101				Problem (Y/N) No							
Remarks							1 10010	(1,11)	1.10					
				Aı	oproac	ch Roac	l / Emb	ankment						
					Last		Explanation of Condition							
Horizontal Alignr	ment			8			No passing SB & NB, in sag curve.							
Vertical Alignment			6		6									
Roadway Width (m)		10.600												
Embankment			N		7									
Sideslope (:1)		3.0												
(Height of Cov	er(m):	5)												
Guardrail (Y/N)		Yes	Yes				NE 135 post broken.							
Approach Road	l / Emb	ankme	nt General Rat	ing	6	6								
						Upstre	am End							
Culvert Compo	nent				Last	Now		ation of	Condi	tion				
Direction					W	INOW	LAPIGI	idtion or	Conan					
End Treatment (Others, None)	Concre	ete, Stee	steel											
Headwall				Х	X									
Collar				Х	X									
Wingwalls					Х	X								
(Shape:)														
Cutoff Wall				Х	Х									

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End	<u> </u>	N	5	Pitting rust along floor.
Heaving (mm)	150			Triang root diong noor.
Invert Above/Below Stream Bed				
Above/Below (mm) 200				
Scour Protection		N	5	Slight undermining of bevel but well rocked.
(Type : RIP RAP)		IN	J	Slight undermining of bever but well focked.
(Avg. Rock Size(mm) : 300) Scour/Erosion		N	5	
Scoul/Elosion		IN	5	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
		Brid	dae Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN.			·
Barrel Last Accessible Date	18-Jul-2012		.,	, (). <u></u>
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)		<u> </u>		
Roof		7	7	
Measured Rise (mm)	2795			
Measured At Ring No.	9			
Sag (mm)	75			0.007
Percent Sag	3			2.6%
Sidewall	-	7	7	Minor damage caused during construction, repaired at R8.
Measured Span (mm)	2686			will of damage caused during construction, repaired at No.
Measured At Ring No.	9			
Deflection (mm)	96			3.7%
Percent Deflection	4			
	4	NI NI	l NI	Weter O Fee door
Floor		N	N	Water 0.5m deep.
Bulge (mm)	0			
Measured At Ring No.	No			
Abrasion (Y/N)	No		T -	
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	Only top seams visible.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		4	4	(Superficial rust along floor. 18Aug2009). Starting to show corrosion
Corrosion By Soil (Y/N)	Yes	•	· ·	@ bolts. Corrosion perforations S sidewall at R11.
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Toriumg (T/N)	INO			

		Brid	ige Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 2590	, Rise (mm): 2870, Type: SPE)
Fish Passage Adequacy		5	6	
Baffle		X	X	
(Type:)				
Waterway Adequacy		7	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	X	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		N	6	
Heaving (mm)	50			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		N	6	Well vegetated.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		N	6	
Beavers (Y/N) No				
Downstream End General Ratin	ng	5	6	
		s	tructu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	8	
Bank Stability		N	7	
HWM (m below Top of Culvert) 2.0				Flow line.
Drift (Y/N) No				
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N) No				
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	8	

		Maintenanc	e Recommendations				
Inspector Recommendations	Year	Inspector Comments	Department Com	ments	Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS	1.00.	moposis: commente	2 opanimoni com			20 0001	July
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING	}						
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUT	OFF						
REPAIR SEAMS							
OTHER ACTION	2012	Repair broken guardrail post.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/N (%)	ow) 77.8/77	7.8 Sufficiency Rating (L	ast/Now) 72.9/71.5	Est. Repl. Yr 203	Maint. Re	qd. (Y/N)	Yes
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	Jason Saly		Previous Assistant's Name				
Next Inspection Date	18-Apr-2014		Previous Inspection Date	29-Mar-2011			
Next inspection bate	107101						
Inspection Cycle (Default) (months)	21						