Bridge Culvert Inspection													
Bridge File Number 76234 -1 Bridge Culvert							Form Ty	/pe		CUL1			
Year Built						Lot No.			4				
Bridge or Town Name CARDS			STON				Inspector Name		Jon Davies				
Located Over TRAIL-A			ANIMAL, OVER SP				Inspector Class			BR CLS B			
Located On		6.809				Assistant Name							
Water Body Cl.	/Year					Assista	nt Class						
Navigabil. Cl./Y	′ear						Inspecti	Inspection Date 12-Oct-2011					
Legal Land Location SE SEC			2 4 TWP 4 RGE 25 W4M				Data Er	Data Entry By Erin Roberts					
Longitude, Lati	tude	:51, 49:15:4	Data Er	Data Entry Date 19-Nov-2011									
Road Authority Alberta T			Transportati	Review	Reviewer Name Garry Roberts								
Contract Main.	Area	CMA25					Review Date			08-Nov-2011			
Clear Roadway	//Skew					Dept. Reviewer Name			Tim Davies				
AADT/Year		2.460/2	2010 (A)				Dept. Review Date			21-Nov-2011			
Road Classifica	ation	RAU-21	1.8-110				Follow-Up By						
Detour Lenath	(km)	6					-	. ,					
Bridge Culvert	t Inform	ation					1						
Number of Culv	verts		1										
Pipe #	Barrel		Span	Span Rise (or		Dia.) Type		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		-	2200		MP		30		125X26		ROUND	
Special Feature	es												
Special Feature	es Comr	nent											
Posting Information													
Required Vert.	Clearan	ce Posti	ng (m)										
Posted Vertical	Clearar	nce (Y/N)		(1								
Posted: Lane NB On Bridge (m) In Advance (Y/N) Lane SB On Bridge (m) In Advance (Y/N)													
Remarks Not req.													
Utilities (Located at)													
Power	1 wire East						Gas		100 11	1300111			
Othoro							Drobler		No				
Duners	FIDEL	Optic line											
Remarks				٨	nnroac	h Poar	d / Emba	nkmont					
				A	Last	Now	Explana	ation of	Condi	tion			
Horizontal Alig	nment				q	g	LAPiano		Jonal				
Vertical Alianm	ent			9	q								
Roadway Width	n (m)		11.400	11.400		5							
Embankment				7	6	900mm CSP 10m		m Sout	uth				
Sideslope (:1)			3.5				1:1 over West end of pipe with minor erosion						
(Height of Co	 ver(m) :	1.3)					1						
Guardrail (Y/N)		Yes				Guardrail from top of shoulder - 3m down embank - both sides							
Approach Road / Embankment General Rating			9	9									
Culvert Component			Last	Now	Explana	Explanation of Condition							
Direction					W		West side						
End Treatment (Concrete, Steel, Others, None)		I, STEEL				1							
Headwall					Х	X							
Collar			Х	X									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

	Upstream End										
Culvert Component		Last	Now	Explanation of Condition							
Wingwalls		Х	X								
(Shape :)											
Cutoff Wall		Х	X								
Bevel End		6	6	Notched bevel.							
Heaving (mm)	0										
Invert Above/Below Stream Bed	BELOW										
Above/Below (mm)	200										
Scour Protection		6	6								
(Type : NATURAL)											
(Avg. Rock Size(mm) :)											
Scour/Erosion		6	6								
Beavers (Y/N)	No										
Upstream End General Rating		6	6								
		Bric	dge Cu	Ivert Barrel							
Culvert Component		Last	Now	Explanation of Condition							
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	<u>n (mm</u>):	, Rise (mm): 2200, Type: MP)							
Barrel Last Accessible Date	12-Oct-2011										
Special Features											
Special Feature											
(Type :)											
Special Feature											
(Туре :)											
Roof		5	5	Spot welding scars at roof and floor.							
Measured Rise (mm)	2078										
Measured At Ring No.	2										
Sag (mm)	122										
Percent Sag	9										
Sidewall		5	5	Some 10mm holes at these welded areas at roof and floor in the 2nd ring.							
Measured Span (mm)	2320										
Measured At Ring No.	2										
Deflection (mm)	120										
Percent Deflection	5										
Floor		N	N								
Bulge (mm)	0										
Measured At Ring No.				_							
Abrasion (Y/N)	No										
Circumferential Seams		5	5	50mm horizontal separation.							
Separation (mm)	70			70mm vertical separation 2 locations.							
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		5	5	Spot welding scars have superficial							
Corrosion By Soil (Y/N)	No			corrosion. Superficial rust at u/s bevel & crown and at haunch area. Dug to water.							
Corrosion By Water (Y/N)	Yes										

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Bric	dge Cu	lvert Barrel
Culvert Component		Last Now		Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAI		Span (mm):		, Rise (mm): 2200, Type: MP)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N) No				
Fish Passage Adequacy		X	X	
Baffle		Х	Х	
(Туре :)				
Waterway Adequacy		X	7	Handles drainage.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	5	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
Direction		E		East end.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		6	6	Notch cut out of bevel.
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	200			
Scour Protection		6	4	Not adequate. Required at invert.
(Type : NATURAL)				
(Avg. Rock Size(mm) :)		,		
Scour/Erosion		6	4	3m long x 2m wide x 1m deep scour hole at D/S invert
Beavers (Y/N)	No			
Downstream End General Ration	ng	6	4	
		S	structu	re Usage
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment			Х	Bare floor, poor for cattle use.
Roadway Surface			4	
(Туре :)				
Icing (Y/N)	No			
Traffic Safety Features		Х	X	
Туре				
Lighting		Х	X	
Barrel Leakage (Y/N)	No			

Structure Usage										
		Last	Now	Explanation of Condition						
Drainage			5							
Structure In Use (Y/N) No				Fence to barrel in disrepair.						
Grade Separation General Rating			4							

Maintenance Recommendations												
Inspector Recommendations		Year Inspector Comments			Department Com	Target Year	Est. Cost	Cat #				
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC	FF											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now (%)		55.6/55.	.6 Sufficiency Rating (Last/ (%)	Now)	66.3/57.9	Est. Repl. Yr	st. Repl. Yr 2030		qd. (Y/N)	No		
Special Comments for Next Inspection					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 Ga		Roberts		Previous	Assistant's Name							
Next Inspection Date		2013		Previous	revious Inspection Date 21-Jan-2010							
Inspection Cycle (Default) (months) 21												
Comment												