					Brida	e Culve	ert Insp	ection					
Bridge File Num	nber	78876 -1 Bridge Culvert						Гуре	CUL1				
Year Built		1977					Lot No.		3				
Bridge or Town Name MILLARVILLE							Inspector Name		Calvin Roberts				
Located Over TRAIL-ANIMAL, OVER SP								tor Class	BR CLS B				
Located On			C1 4.291					ant Name					
Water Body Cl./	/Year						Assistant Class						
Navigabil. Cl./Y							Inspection Date		30-Jan-2013				
Legal Land Loc		SE SEC	C 4 TWP 21	RGE 4 W5N	Λ		Data Entry By		Lauren Korte				
Longitude, Latit			):20, 50:44:5					Entry Date	01-Mar-2013				
Road Authority Alberta Transportation (AIT)							Reviewer Name		Garry Roberts				
Contract Main. Area CMA27							Review Date		03-Feb-2013				
Clear Roadway/Skew 13.5 /							Dept. Reviewer Name						
AADT/Year		200 / 20	011 (A)			Dept. Review Date			04-Mar-2013				
Road Classifica	ation	RCU-20						-Up By					
Detour Length (		50	50 110					op by					
Bridge Culvert	<u> </u>												
Number of Culv			1										
	Barrel		Span	Rise (or	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		-	2100		MP		24.4	68X13	3.5	ROUND		
Special Feature													
Special Feature		nent											
					Po	sting l	nformat	lion					
Required Vert.													
Posted Vertical		nce (Y/N	l)										
Posted: Lane	NB	On I	Bridge (m)	In Ad	vance (	(Y/N)	No L	ane SB (	On Bridge (m)	In Advar	nce (Y/N) No		
Remarks	Not re	quired.											
					Uti	ilities (L	ocated	l at)					
Utility Attachme	ents						1						
Telephone							Gas						
Power	50M V	V-6 wire	crosses hw	/y.			Munici	pal					
Others							Problem (Y/N) No						
Remarks													
				A	pproa	ch Roa	d / Emb	ankment					
					Last	Now	Explanation of Condition						
	Horizontal Alignment Vertical Alignment				6 7	6 7	Driveway and gas plant entrance 33m West.						
Roadway Width	n (m)		9.100										
Embankment					4	4	2:1 fro		۱.				
	:1)		2.0				Cut to 1:1@ sides of pipe @ ends. Side slopes slid causing 1m of fill @ ends of pipe.						
							Side s	m road to crown 1:1@ sides of p					
(Height of Cover(m) : 2)								1:1@ sides of p	ng 1m of fill @ e	ends of pipe.			
		2)	Yes					1:1@ sides of p lopes slid causi	ng 1m of fill @ e	ends of pipe.			
Guardrail (Y/N)		2)	Yes				South.	1:1@ sides of p lopes slid causi	ng 1m of fill @ e	ends of pipe.			
				Rating	6	6		1:1@ sides of p lopes slid causi	ng 1m of fill @ e	ends of pipe.			
Guardrail (Y/N)				Rating	6			1:1@ sides of p lopes slid causi	ng 1m of fill @ e	ends of pipe.			
Guardrail (Y/N)	d / Emt			Rating	6 Last	Upstre	South.	1:1@ sides of p lopes slid causi		ends of pipe.			
Guardrail (Y/N) Approach Roa	d / Emt			Rating		Upstre	South.	1:1@ sides of p lopes slid causi		ends of pipe.			
Guardrail (Y/N) Approach Roa Culvert Compo	d / Emb	oankme	nt General	Rating		Upstre	South. am Enc Explai	1:1@ sides of p lopes slid causi		ends of pipe.			

Alberta Transportation

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Collar		Х	X							
Wingwalls		Х	Х	_						
(Shape : )										
Cutoff Wall		Х	X							
Bevel End		Х	Х							
Heaving (mm)	0									
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm)	400									
Scour Protection		7	N							
(Type : NATURAL)				_						
(Avg. Rock Size(mm) : )										
Scour/Erosion		7	N							
Beavers (Y/N)	No		_							
Upstream End General Rating		7	N	P.R 7.						
		Brid	d <u>ge Cu</u>	lvert Barrel						
Culvert Component		Last		Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	):	, Rise (mm): 2100, Type: MP)						
Barrel Last Accessible Date	30-Jan-2013									
Special Features	1									
Special Feature										
(Type : )										
Special Feature										
(Туре : )										
Roof		7	7	Unable to measure rise est.						
Measured Rise (mm)				_						
Measured At Ring No.				_						
Sag (mm)				_						
Percent Sag	3									
Sidewall	1	7	7	_						
Measured Span (mm)	2178			_						
Measured At Ring No.	2			-						
Deflection (mm)	78			-						
Percent Deflection	3									
Floor	1	N	N	(300mm deep water and 400mm silt) Oct 1/09						
Bulge (mm)				Àpprox 500mm ice in pipe.						
Measured At Ring No.				_						
Abrasion (Y/N)										
Circumferential Seams		7	7							
Separation (mm)	67									
Longitudinal Seams		Х	X							
Total No. of Cracked Rings	0									
Total No. of Rings with Two Cracked Seams	0									
Min. Remaining Steel Between Cracks (mm)	0									
Proper Lap (Y/N)	No			1						
Longitudinal Stagger (Y/N)	No									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa			, Rise (mm): 2100, Type: MP)
Coating		6	6	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	Yes			(Blockages at end causing 300mm deep ponding) Oct 1/09.
Fish Passage Adequacy		Х	X	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		Х	Х	Approx 500mm ice in pipe.
Icing (Y/N)	Yes			
Silting (Y/N)	No			1
Drift (Y/N)	No			1
Barrel General Rating		7	7	
Barrer General Rating				
Culvert Component		Last	Now	Explanation of Condition
Direction				South.
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall	I	X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
			^	
Bevel End		Х	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	1000			
Scour Protection		7	N	Snow covered.
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		7	N	
Beavers (Y/N)	No			
Downstream End General Rati		7	N	P.R 7.
	.9			
				re Usage
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		X	X	-
Roadway Surface		7	7	
(Type : )				
Icing (Y/N)	Yes			Approx 500mm ice.
Traffic Safety Features	1	X	X	
Туре				

Structure Usage									
		Last	Now	Explanation of Condition					
Lighting		X	X						
Barrel Leakage (Y/N)	No								
Drainage		5	3	Blockage at D/S end causing ponding.					
Structure In Use (Y/N)	No								
Grade Separation General Rating			3						

Maintenance Recommendations											
Inspector Recommendations		Year	Inspecto	r Comments		Department Corr	nments	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											
OTHER ACTION		2013	Remove	material blocking D	D/S end.						
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No (%)	ow)	77.8/77.8		Sufficiency Rating (Last/Now) (%)		82.5/76.0	Est. Repl. Yr 2028		Maint. Reqd. (Y/N)		Yes
Special Comments for Next Inspection					Department Comments						
Maintenance Reviewed By						Date		E	Estimated Tota	I 0	
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Roberts			Previous	Assistant's Name						
Next Inspection Date	30-Apr	30-Apr-2016 Pre				ous Inspection Date 01-Oct-2009					
Inspection Cycle (Default) (months)	39										
Comment											