Bridge Culvert Inspection														
Bridge File Numl	e Number 07035 -1 Bridge Culvert						Form Type		CUL1					
Year Built 1958							Lot No.		1					
Bridge or Town I	or Town Name MAGRATH						Inspector Name		Jon Davies					
Located Over	TRI	BUTAR	JTARY TO POTHOLE CREEK,				Inspector Class		BR CLS B					
Logated Op	2.12	.20.2.4		(5-51			Assistant Name							
Localed On	62.0	20140	1 40.640					Assistant Class						
Navigabil CL/Xa						Inspection Date		04-Oct-2011						
Legal Land Loca		SEC 25			11./		Data Entry By		Erin Roberts					
Legal Land Location NW SEC			3 25 TWP 4 RGE 22 W4M					Data Entry Date		17-Nov-2011				
Longitude, Latitude -112:51:1		.51.10, rta Trai	Transportation (AIT)					Reviewer Name		Garry Roberts				
Contract Main Area CMA25		25						Review Date		10-Nov-2011				
Clear Poadway/Skow 10.1 / 35		/ -35 d	35 deg. (LHE)					Dept. Reviewer Name		Tim Davies				
AADT/Year	360	/ 2010)10 (A)					Dept. Review Date		21-Nov-2011				
Road Classificat	ion RAL	-209-1	10				Follow-	Ор Ву						
Detour Length (k	(m) 4						-							
Bridge Culvert Information														
Number of Culverts 1														
Pipe # E	Barrel	Spa	an	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1 N	/AIN	232	20	2560		SPE		51.8		152X51		ELLIPSE		
Special Features	6	VEF	RT TIMBER	STRUT	S									
Special Features	Comment													
	40				Uti	lities (L	ocated	at)						
Utility Attachmen		<u>сц</u>					Caa		100 m					
Telephone									100 m					
Othoro	3 WIRE EF	IRE EAST, crosses North						Problem (Y/N) No		line 60m South				
Others Remarks								II (171 N)						
Komano				А	oproa	ch Road	l / Emba	ankment						
					Last	Now	Explan	Explanation of Condition						
Horizontal Alignment				7	7	In sag curve, limited sight distance.								
Vertical Alignment				5	5	Farm access 4 corners.								
Roadway Width (m) 10.100			0.100											
Embankment					7	7								
Sideslope (:	1)	4	.0											
(Height of Cov														
Guardrail (Y/N)		Ν	lo											
Approach Road	l / Embank	ment G	eneral Rati	ng	5	5								
						linstra	am End							
Culvert Compo	nent				Last	Now	Explan	ation of	Condi	tion				
Direction					E		EAST							
End Treatment (Concrete, Steel, STEEL Others, None)														
Headwall		X	Х											
Collar			X	Х										
Wingwalls			X	Х										
(Shape :)														
Cutoff Wall			X	Х										

Alberta Transportation

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		7	6	(Asphalt apron 6m long) 2006/12/01						
Heaving (mm)	100									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	300									
Scour Protection		6	6	Also lots of vegetation						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 250)										
Scour/Erosion		6	6							
Beavers (Y/N)	No									
Upstream End General Rating	<u> </u>	6	6							
		Bric	dge Cu	Ivert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	an (mm): 2320	, Rise (mm): 2560, Type: SPE)						
Barrel Last Accessible Date	04-Oct-2011									
Special Features										
Special Feature		7	6	Struts in R5-R9						
(Type · VERT TIMBER STRUTS)			U							
Special Feature	<u> </u>									
(Type :)										
Roof		1	4	SOME ROOF & LIPPER SIDEWALL LONGIT SEAMS NOT NESTED						
Measured Rise (mm)	2354		-	TIGHT (UP TO 15 mm GAP U/S.						
Measured At Ring No	11			Confirmed ring 9 rise is 2369mm Ring 10 rise is 2354mm Concret						
Measured At Ring No. 11				floor exists from ring 11 onwards						
Barcont Sag	200 8									
Sidowoll	0	2	2	Two procked pooms ring 0						
Measured Span (mm)	2555	2	2	Two cracked seams mig 9.						
Measured At Ping No	0									
Deflection (mm)	3									
Denection (mm)	10									
	10	NI	N							
	0	IN	IN	Jan.16 2009						
Duige (IIIII)	0			Partial concrete floor. In poor condition around strut location						
	9 No									
	INO	0	0							
	0	6	6							
Separation (mm)	0									
Longitudinal Seams		2 2		Rings 5,6,7,8 nave 1 seam cracked. Ring 9 has two seams cracked with 81mm of steel left. No change in						
Total No. of Rings with Two Cracked Seams	1			dimension of remaining steel. No other seams cracked						
Min. Remaining Steel 81 Between Cracks (mm)				1N stagger						
Proper Lap (Y/N)	No									
Longitudinal Stagger (Y/N)	Yes									
Coating		6	6	Minor isolated superficial corrosion @ Floor by struts						
Corrosion By Soil (Y/N)	Yes									
Corrosion By Water (Y/N)	Yes			Soli corrosion at isolated bolt holes.						
Camber POS/ZERO/NEG	NEG									
Ponding (Y/N)	No									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Bric	lge Cu	vert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 2320	, Rise (mm): 2560, Type: SPE)					
Fish Passage Adequacy			5						
Baffle			X						
(Туре :)									
Waterway Adequacy		5	5						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating			4	GR raised 2 points due to struts in good condition & no change in defects					
	1	D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction	Direction			WEST					
End Treatment (Concrete, Steel, Others, None)	STEEL		1						
Headwall		X	X						
Collar		Х	Х						
Wingwalls		Х	X						
(Shape :)									
Cutoff Wall			Х						
Bevel End		7	6						
Heaving (mm)	0								
Invert Above/Below Stream Bed ABOVE									
Above/Below (mm)	300								
Scour Protection		4	4	Lack of rock @ haunch areas of d/s. Well vegetated @ sides of 4					
(Type : RIP RAP)				bevel.					
(Avg. Rock Size(mm) : 250)									
Scour/Erosion			4	10mx12mx1m deep scour hole Minor scour along North side of bevel haunch					
Beavers (Y/N)	No								
Downstream End General Ratin	ng	4	4						
		S	tructur	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		5	5	Turns 90 deg downstream					
Bank Stability			5	D/S banks are sloughing and general streambed degradation d/s only					
HWM (m below Top of Culvert)				No visible HWM					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading	DEGRADING								
Beavers (Y/N) No									
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating			5						

Maintenance Recommendations											
Inspector Recommendations		ear	Inspector Comments	Department Com	ments		Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTC	DFF										
REPAIR SEAMS											
OTHER ACTION									_		
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No (%)	ow) 44	4.4/44.4	Sufficiency Rating (Last/Now) (%)	51.0/50.9	Est. Repl. Yr 2020		Maint. Reqd. (Y/N)		No		
Special Comments for Next Inspection	Department Comments										
Maintenance Reviewed By				Date		E	stimated Total	0			
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Garry Rob	berts	Previ	ous Assistant's Name	Assistant's Name						
Next Inspection Date 04-)13	Previ	ous Inspection Date	Inspection Date 20-Jan-2010						
Inspection Cycle (Default) (months) 21											
Comment											