					Brida	e Culv	ert Insp	ection						
Bridge File Number 01509 -1 Bridge Culvert							Form Type			CUL1				
Year Built		1965	*				Lot No	••		3				
Bridge or Town Name RAYMOND							Inspector Name			Jon Davies				
Located Over				E, 2.12.20.2.1,			Inspector Class		BR CLS B					
		WATERO	CRS-ST				Assistant Name							
Located On 52:02 C1 1.337						Assistant Class								
Water Body CI	./Year					Inspection Date				28-Sep-2011				
Navigabil. Cl./							Data Entry By		Alyssa Boynton					
Legal Land Loo	cation	16 TWP 6 RG		Data Entry Date		13-Oct-2011								
Longitude, Lati	01, 49:27:54	1 40.27.54				Reviewer Name		Garry Roberts						
Road Authority	ransportation (AIT)				Review Date		03-Oct-2011							
Contract Main.						Dept. Reviewer Name		Tim Davies						
Clear Roadway/Skew 12 /								Dept. Review Date		28-Oct-2011				
AADT/Year		2,010/2	· · ·				Follow	Follow-Up By						
Road Classific		RAU-211	.8-110											
Detour Length		8												
Bridge Culver														
Number of Cul	1		1											
Pipe #	Barrel	S	Span Rise (or		r Dia.) Type			Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	-		2134		MP		34		68X13	4.2	ROUND		
Special Featur	es			1		1		1		1		1		
Special Featur		ment												
•														
	Ĩ				Ut	ilities (l	ocated	at)						
Utility Attachm	ents													
Telephone	@ No	rth r/w & S	South ditch 4"	conduit.			Gas							
Power	North					Aunicipal								
Others	Others Fiber optics North row						Proble	m (Y/N)	No					
Remarks														
				A				ankment						
						Now	Explanation of Condition							
Horizontal Alignment				8	7	Intersection to East. Crest curve east. No passing east bound lane.								
Vertical Alignment			40.000		8	6								
Roadway Width (m)		12.000												
Embankment					7	7								
			3.0				1							
(Height of Cover(m) : 2.8)							1							
Guardrail (Y/N)			Yes											
Approach Roa	ad / Eml	bankmen	t General Rat	ling	8	6								
						Upstre	am End							
Culvert Component			Last			Explanation of Condition								
Direction						South invert.								
End Treatment (Concrete, Steel, STEI Others, None)		, STEEL												
Headwall			X	Х										
Collar			X	X										
Wingwollo			X	X										
Wingwalls (Shape :)			^	^										
Cutoff Wall				X	X									

Alberta Transportation

			Unstro	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		5	5	Floor rust, otherwise o.k.
Heaving (mm)	100		U	Telus conduit over U/S bevel
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection			6	
(Type : RIP RAP)		6	0	
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		6	6	
Scoul/Elosion		0	0	
Beavers (Y/N)	No			
Upstream End General Rating	1	5	5	
		Brid	dqe Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN. S		-	, Rise (mm): 2134, Type: MP)
Barrel Last Accessible Date	19-Jan-2010		<u>, </u>	Not accessible due to high flow velocity.
Special Features				
Special Feature				
(Type :)				-
Special Feature				
(Type :)				
Roof		7	N	D.P. 7 viewed from South and Constral shape is good
		1	IN	P.R. 7 viewed from South end. General shape is good.
Measured Rise (mm)				
Measured At Ring No.	3			
Sag (mm)	69			-
Percent Sag 3				
Sidewall		4	N	(Rust lower sidewall. Soil corrosion spots in R2 most at west sidewall) Jan 19 2010
Measured Span (mm)	2210			P.R 4
Measured At Ring No.	2			-
Deflection (mm)	76			
Percent Deflection	4	_	_	
Floor	1	N	N	High water.
Bulge (mm)	0			(Some large rocks in the pipe) Jan. 15/09
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		7	N	P.R 7
Separation (mm) 40				
Longitudinal Seams		6	N	Rivetted seams. P.R. 6
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	otal No. of Rings with Two 0			
Min. Remaining Steel 0 Between Cracks (mm)				
Proper Lap (Y/N) Yes				1
Longitudinal Stagger (Y/N)	Yes			1
Coating		4	N	(Corrosion flaking & pitting @ floor & haunches
Corrosion By Soil (Y/N)	Yes	4	IN	Some isolated pitting in the side walls
Corrosion By Soli (Y/N) Corrosion By Water (Y/N)	Yes			Several soil corrosion spots in R2) Jan 19 2010. P.R 4
Camber POS/ZERO/NEG	ZERO			ן אדר די אדרד די אדר די אדרי די אדר די אדר די אדר די אדר די אדר די די אדר די אדי די אדר די אדר די אדר די אדר די אדר די אדר די אדי אדר די אדר די אדר די אדר די אדר די אדי אדי אדי אדי אדי אדי אדי אדיד

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

01509 -1 Bridge Culvert

		Brid	dae Cu	Ivert Barrel			
Culvert Component		Last		Explanation of Condition			
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN. Spa			, Rise (mm): 2134, Type: MP)			
Ponding (Y/N)	No		/				
Fish Passage Adequacy		5	5				
Baffle		X	X				
(Type :)			~				
Waterway Adequacy		6	6				
Icing (Y/N)	No						
Silting (Y/N)	No						
Drift (Y/N)	No						
Barrel General Rating		4	4	GR carried forward.			
		D	ownst	ream End			
Culvert Component			Now	Explanation of Condition			
Direction				North			
End Treatment (Concrete, Steel, Others, None)	STEEL						
Headwall		Х	X				
Collar		X	Х				
Wingwalls		X	X				
(Shape:)			~				
Cutoff Wall		X	X				
Bevel End		5	5	(Flaking rust on lower half of the pipe) 2006/12/06			
Heaving (mm)	100						
Invert Above/Below Stream Bed	BELOW			(Some rip rap in the bevel) 2006/12/06			
Above/Below (mm)	100						
Scour Protection		6	6	Sparse Rock. Well in grown and natural.			
(Type : RIP RAP)				_			
(Avg. Rock Size(mm) : 400)							
Scour/Erosion		6	6				
Beavers (Y/N)	No						
Downstream End General Ratin	ıg	5	5				
		S	Structu	re Usage			
		Last	Now	Explanation of Condition			
Channel (U/S and D/S)		5					
Alignment			5				
Bank Stability			5				
WM (m below Top of Culvert) 1.5				No visible HWM			
Drift (Y/N) Yes				At up stream bevel end.			
Channel Bottom AGGRADING Degrading/Aggrading							
Beavers (Y/N) No							
(Fish Compensation Measure 1 :	NONE)						
(Fish Compensation Measure 2 :	NONE)						
Channel General Rating		5	5				

Maintenance Recommendations											
Inspector Recommendations		Ye	ear	Inspector Comments		Department Comments			Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT	ACCUMULATION	20	012	Remove drift U/S bevel South.							
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTOFF		DFF									
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
	OTHER ACTION										
OTHER ACTION								_			
Structural Condition Rating (Last/Now) (%)			4.4/44.4	/44.4 Sufficiency Rating (Last/ (%)		50.7/50.4	Est. Repl. Yr	2020	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection			fro accelerated deterioration. May require liner or an 10 years.			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 Gar		Garry Rol	Garry Roberts			Assistant's Name					
Next Inspection Date 2		28-Jun-20	28-Jun-2013			Previous Inspection Date 19-Jan-2010					
Inspection Cycle (Default) (months) 22		21									
Comment											