	Bridge Culvert Inspection												
Bridge File Number 75495 -1 Br			1 Bridge Culvert				Form Type		CULM				
Year Built 1960						Lot No.		4					
Bridge or Town N	r Town Name STRATHMORE				Inspecto			or Name	Jason Rusu				
Located Over	ted Over WID - IRRIGATION C, WATERC				CRS-IC	;	Inspect	or Class	BR CLS A				
Located On 21:12 C1 5.899				Assistant Name									
Water Body CI./Year						Assista	nt Class						
Navigabil. Cl./Year					Inspect	ion Date	09-Aug-2012						
Legal Land Location NW SEC 35 TWP 24 RGE 24 W4			/4M		Data E	ntry By	Lauren Korte						
Longitude, Latitude -113:15:39, 51:05:26					Data E	ntry Date	05-Sep-2012	05-Sep-2012					
Road Authority Alberta Transportation (AIT)					Review	er Name	Garry Roberts						
Contract Main. Area CMA30					Review	Date	19-Aug-2012						
Clear Roadway/S	Skew 1	11.2 / -3	0 deg. (LHF)				Dept. F	Reviewer Name	Tim Davies				
AADT/Year 1,710 / 2011 (A)			2011 (A)				Dept. Review Date		06-Sep-2012				
Road Classification	on F	RAU-21	1.8-110				Follow-	Uр Ву					
Detour Length (ki	m) 3	3											
Bridge Culvert I	nforma	tion											
Number of Culve	rts	2	2										
Pipe # B	Barrel		Span	Rise (or	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape		
1 N	/AIN	-		1370		MP		16.5	68X13		ROUND		
2 N	IAIN	-		1370		MP		16.5	68X13		ROUND		
Special Features													
Special Features	Comm	ent											
					1 14:	1:4:00 /1							
Litility Attachmon	to				Uti	littles (L	ocated	at)					
Talaphana West Ditah						Gas							
Power	West D	Ga Ga											
Others						Probler	m (Y/N) No						
Problem (T/N) NO													
Remarks				A	oproad	h Road	l / Fmb	ankment					
					Last	Now	Explan	ation of Condi	tion				
Horizontal Alignm	nent		·		6	6	Interse	ction 500m Nor	h.				
Vertical Alignmer	nt				8	8							
Roadway Width (	(m)		11.200										
Embankment					6	6							
Sideslope ( :1	1)		3.0										
(Height of Cove		2)											
Guardrail (Y/N)		,	Yes										
Approach Road	/ Emba	ankmen	t General Rat	ing	6	6							
						Unstro	am End						
Culvert Compon	nent				Last	Now	Explan	ation of Condi	tion				
(Pipe # : 1. Spar	n Type:	: Primar	v Span)		Luot	, ten	Explain						
Direction					W		South r	oipe West end					
End Treatment (Concrete, Steel, STEEL						טטענוז אואב אובט בווע.							
Headwall					Х	Х							
Collar			Х	Х									
Wingwalls				Х	Х								
(Shape: )						1							

	i -		Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Cutoff Wall		X	X	
Bevel End		4	4	Extensive corrosion of lower portion of bevel.
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	200			
Scour Protection		5	5	Concrete bags.
(Type : <b>RIP RAP</b> )				Ingrown.
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Upstream End General Rating	1	4	4	
		Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,	Span (mm	n):	, Rise (mm): 1370, Type: MP)
Barrel Last Accessible Date	11-Nov-2010			Water too deep to enter.
Special Features	1			
Special Feature				_
(Type:)				_
Special Feature				_
(Type:)				
Roof		4	N	Viewed from ends- both pipes still have circular shape.
Measured Rise (mm)				P.R 4.
Measured At Ring No.				_
Sag (mm)				_
Percent Sag	7			
Sidewall		4	N	P.R 4.
Measured Span (mm)	1470			_
Measured At Ring No.	2			_
Deflection (mm)	100			_
Percent Deflection	7		_	
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				_
Abrasion (Y/N)	No			
Circumferential Seams	1	5	N	P.R 5.
Separation (mm)	25			
Longitudinal Seams		5	N	P.R 5.
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		4	N	
Corrosion By Soil (Y/N)	No			(Heavy scaling on sidewalls) 11-Nov-2010
Corrosion By Water (Y/N)	Yes			1

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

	Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	):	, Rise (mm): 1370, Type: MP)						
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N)	No									
Fish Passage Adequacy		X	X							
Baffle		Х	Х							
(Туре : )										
Waterway Adequacy		7	7							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		4 4		G.R carried forward.						
Culvert Component		D	ownstr	eam End						
(Pine # 1 Snan Type: Primary	(Span)	Lasi	NOW							
Direction	opuny	F		South pine- East end						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall	<u> </u>	Х	Х							
Collar		Х	X							
Wingwalls		X	Х							
(Shape: )										
Cutoff Wall		X	X							
Bevel End		4	4	Extensive corrosion of lower portion.						
Heaving (mm)	0									
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm)	200									
Scour Protection		5	5	Ingrown.						
(Type : <b>RIP RAP</b> )				-						
(Avg. Rock Size(mm) : 300)			1							
Scour/Erosion		5	5							
Beavers (Y/N)	No									
Downstream End General Ratin	ng	4	4							
			Upstre	am End						
Culvert Component			Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	ary Span)									
Direction		W		North pipe- West end.						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		X	X							
Collar		X	X							
Wingwalls (Shape: )		X	X							
Cutoff Wall		Х	X							

Alberta Transportation

	Upstream End							
Culvert Component		Last	Now	v Explanation of Condition				
(Pipe # : 2, Span Type: Second	lary Span)							
Bevel End		4	4	Heavy corrosion on lower 1/2.				
Heaving (mm)	0							
nvert Above/Below Stream Bed ABOVE								
Above/Below (mm)	200							
Scour Protection		5	5	Ingrown.				
(Type : <b>RIP RAP</b> )				And concrete bags				
(Avg. Rock Size(mm) : 250)								
Scour/Erosion			5					
Beavers (Y/N)	No							
Opstream End General Rating		4	4					
		Bri	dge Cu	lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN,	Span (	mm):	, Rise (mm): 1370, Type: MP)				
Barrel Last Accessible Date	11-Nov-2010			Viewed from ends- shape still circular.				
Special Features	1							
Special Feature				_				
(Type : )				_				
Special Feature								
(Туре : )								
Roof		4	N	(9% sag)- 11-Nov-2010				
Measured Rise (mm)	1245			P.R 4.				
Measured At Ring No.								
Sag (mm)	125							
Percent Sag	9							
Sidewall		5	N	P.R 5.				
Measured Span (mm)	1455							
Measured At Ring No.								
Deflection (mm)	85							
Percent Deflection	6							
Floor		5	N	P.R 5.				
Bulge (mm)	0							
Measured At Ring No.								
Abrasion (Y/N)	No							
Circumferential Seams		5	N					
Separation (mm)	25							
Longitudinal Seams		5	N	P.R 5.				
Total No. of Cracked Rings								
Total No. of Rings with Two Cracked Seams								
Min. Remaining Steel Between Cracks (mm)								
Proper Lap (Y/N)	Yes			1				
Longitudinal Stagger (Y/N)	Yes							
Coating		4	N	P.R 4.				
Corrosion By Soil (Y/N)	No			(Heavy scaling throughout pipe) 11-Nov-2010				
Corrosion By Water (Y/N)	Yes			1				
Camber POS/7ERO/NEC	ZERO							
Gamber FOS/ZERO/NEG	ZENU							

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

	Bridge Culvert Barrel								
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1370, Type: MP)					
Ponding (Y/N)	No								
Fish Passage Adequacy		X	X						
Baffle		X	Х						
(Туре:)									
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		4	4	G.R carried forward.					
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	lary Span)								
Direction		Е		North pipe- East end.					
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		X	Х						
Collar			X						
Wingwalls		X	X						
(Shape : )									
Cutoff Wall		X	X						
Bevel End	Bevel End		4	Extensive corrosion of bevel floor.					
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	Above/Below (mm) 200		-						
Scour Protection		5	5	and concrete bags.					
(Type : <b>RIP RAP</b> )				ingrown.					
(Avg. Rock Size(mm) : 300)			-						
Scour/Erosion		5	5						
Beavers (Y/N)	No								
Downstream End General Ration	ng	4	4						
		S	structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)		-	-						
Alignment			/						
Bank Stability			7						
HWM (m below Top of Culvert)				No visible HWM.					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading	AGGRADING								
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)			-					
(Fish Compensation Measure 2 :	NONE)		1						
Channel General Rating	Channel General Rating		7						

Maintenance Recommendations												
Inspector Recommendations		Year Inspector Comments			Department Comm	Target Year	Est. Cost	Cat #				
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTO	FF											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No (%)	w)	44.4/44.4	4 Sufficiency Rating (Last/N (%)	low) {	54.6/54.8	Est. Repl. Yr 2015		Maint. Reqd. (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 Jasor		Rusu		Previous <i>J</i>	us Assistant's Name							
Next Inspection Date 09-M		-2014		Previous	vious Inspection Date 11-Nov-2010							
Inspection Cycle (Default) (months) 21												
Comment												