Bridge Culvert Inspection															
Bridge File Number 00355 -2			5 -2 Bridge Culvert				Form Type			CUL1					
Year Built		2001					Lot No.			4					
Bridge or Town	Name	RED DI	EER				Inspector Name		Jason Saly						
Located Over		TRIBUT	TARY TO RED	DEER RI	VER, 3	3.82,	Inspect	or Class		BR CLS A					
		WAIE	RCRS-SI				Assista	nt Name		CUL1   4   Jason Saly   BR CLS A   21-Nov-2011   Marcia Chavez   03-Jan-2012   John O'Brien   15-Dec-2011   me Andrew Smikles   09-Jan-2012   Sh   152X51   3.0   RC   Corr. Profile   PI./Slab   Thickness   Sh   152X51   3.0   RC   Notes   Andrew Smikles   O9-Jan-2012   Indition   n sides. Local road access NW corner.					
Located On		LOCAL	RUAD		Assistant Class										
Water Body CI./	rear				Inspection Date			21-Nov-2011							
Navigabil. Cl./ real				Data Entry By			Marcia Chavez								
Legal Lanu Loca	udo	112.52	-24 IVF 30 1		Data E	ntry Date		03-Jan-2012							
Road Authority Alberta		Transportation (AIT)				Reviewer Name			John O'Brien						
Contract Main. Area UNDEF				Review Date			15-Dec-2011								
Clear Roadway/Skew 14.6 /		14.6/						leviewer	Name	Andrew Smikles					
AADT/Year		11.07			[		Dept. Review Date		09-Jan-2012						
Road Classificat	tion	RCU-20	209-110				- Follow-Up By								
Detour Length (	(m)	4													
Bridge Culvert Information															
Number of Culverts 1															
Pipe #	Barrel		Span	Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape			
1	MAIN		-	1810		SP		52.43		152X51	3.0	ROUND			
Special Features	s														
Special Features	s Comn	nent													
Litility Attachmor	ate				Uti	lities (L	ocated	at)							
	North	of c/l					Gas								
Power	5 wire North of $c/l_1$ wire South of $c/l_2$						Municipal								
Others	0 1010						Probler	n (Y/N)	No						
Remarks															
	Approach Road / Embankment														
					Last	Now	Explanation of Condition								
Horizontal Alignment			7	6	Farm approach both sides. Local road access NW corner.										
Vertical Alignment			7	7											
Roadway Width (m)		8.100													
Embankment					7	7									
Sideslope (:	1)		2.0												
(Height of Cov	rer(m) :	<b>6.4</b> )			1										
Guardrail (Y/N)			Yes												
Approach Road	d / Emb	ankme	nt General Ra	ting	7	6									
						Upstrea	am End								
Culvert Compo	nent				Last	Now	Explan	ation of	Condi	ion					
Direction					N										
End Treatment (Concrete, Steel, STEEL Others, None)															
Headwall			X	Х											
Collar		Х	X												
Wingwalls			X	X											
(Shape : )															
Cutoff Wall						Х									

Alberta Transportation

	Upstream End										
Culvert Component		Last	Now	Explanation of Condition							
Bevel End		8	7								
Heaving (mm)	0										
Invert Above/Below Stream Bed	BELOW			_							
Above/Below (mm)	400										
Scour Protection		8	N	Snow covered.							
(Type : <b>RIP RAP</b> )				_							
(Avg. Rock Size(mm) : 300)											
Scour/Erosion		8	N	Snow covered.							
Beavers (Y/N)	Yes			Beaver dam in front of N bevel.							
Upstream End General Rating		8	7								
		Bri	dae Cu	lvert Barrel							
Culvert Component		Last	Now	Explanation of Condition							
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	n):	, Rise (mm): 1810, Type: SP)							
Barrel Last Accessible Date	18-Apr-2002		,	Only accessed first 3 rings from N. Transcribed dimensions from 28May2005; the culvert looks adequate.							
Special Features											
Special Feature											
(Type:)											
Special Feature				_							
(Type:)											
Roof		7	N	(Span 1820 x rise 1780 c/l. 02/04/18).							
Measured Rise (mm)	1760			(1760 x 1760 at R7 where roof seam is slightly cusping.							
Measured At Ring No.				- 20May2005).							
Sag (mm)	50			(2.2% roof sog. 28Mov2005)							
Percent Sag	2			$(2.2\% 1001 \text{ Sag. } 20101 \text$							
Sidewall		8	N	Span at R3=1812=2mm							
Measured Span (mm)	1760										
Measured At Ring No				-							
Deflection (mm)	50			(Inwards. 28May2005).							
Percent Deflection	2			1							
Floor	-	8	N	(Water and silt at D/S 1/3 L at 2nd coupler 28May/2005)							
Bulge (mm)	0	0	IN	( wrater and sin at $D/O / / O L,$ at 2nd couplet. 2010/ay2003).							
Measured At Ring No	<b>~</b>										
Abrasion (V/N)	No										
Circumferential Soama	110	0	N								
Separation (mm)	0	0	IN								
	U	0	NI								
Total No. of Crooked Dings	0	Ø	IN								
Total No. of Cracked Rings	U			-							
Cracked Seams				-							
Between Cracks (mm)				-							
Proper Lap (Y/N)	Yes			-							
Longitudinal Stagger (Y/N)	Yes			2N							
Coating		8	7								
Corrosion By Soil (Y/N)	No										
Corrosion By Water (Y/N)	No										
Camber POS/ZERO/NEG	ZERO										

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

00355 -2 Bridge Culvert

	1	Brid	dge Cu	Ivert Barrel				
Culvert Component			Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm):		, Rise (mm): 1810, Type: SP)				
Ponding (Y/N) No								
Fish Passage Adequacy		7	7					
Baffle		Х	Х					
(Type:)								
Waterway Adequacy		8	8					
Icing (Y/N)	No							
Silting (Y/N)	Yes			(D/S 1/3 L. 28May2005).				
Drift (Y/N)	Yes							
Barrel General Rating		7	N	GR was 7 based on roof rating on 28May2005).				
Culvert Compensat		Last	Now	Figure 2 Condition				
Direction		S	NOW					
End Treatment (Concrete, Steel, Others, None)	STEEL	5						
Headwall		Х	X					
Collar	Collar							
Wingwalls		X	X					
(Shape: )								
Cutoff Wall		X	Х					
Bevel End		8	N	Snow covered				
Heaving (mm)	0	0	IN					
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	400							
Scour Protection		8	N					
(Type : <b>RIP RAP</b> )		1						
(Avg. Rock Size(mm) : <b>200</b> )								
Scour/Erosion		8	N					
Beavers (Y/N)	Beavers (Y/N) Yes			Beaver dam S of pipe.				
Downstream End General Ration	ng	8	8	GR carried forward from 28May2005.				
		s	structu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment			8					
Bank Stability			8					
HWM (m below Top of Culvert)				HWM not visible.				
Drift (Y/N)	Drift (Y/N) Yes			Heavy deadrail in S channel.				
Channel Bottom Degrading/Aggrading				Unknown.				
Beavers (Y/N) Yes				Beaver dam S of pipe.				
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating			8					

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)	77.8/55.0	6 Sufficiency Rating (Last/N (%)	ow) 8	81.8/72.8 Est. Repl. Yr		2050	Maint. Re	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 Dave		am		Previous /	evious Assistant's Name						
Next Inspection Date 21		21-Aug-2016			nspection Date						
Inspection Cycle (Default) (months) 57											
Comment											