					Brida	e Culve	ert Inspectio	on					
Bridge File Num	nber	77483 -1 Bridge Culvert				o ouire	Form Type		CULM				
Year Built		1973					Lot No.		4				
	ge or Town Name KANANASKIS						Inspector N	lame	Garry Roberts				
Located Over	ARY TO KANA	NASKIS F	RIVEF	۲.	Inspector C		BR CLS A						
	5, WATERCRS				Assistant Name								
Located On		40:12 C	1 30.932				Assistant Class						
Water Body CI./	Year						Inspection Date		01-Apr-2013				
Navigabil. CI./Ye	ear						Data Entry By		Lauren Korte				
Legal Land Loca	ation	SW SEC	C 19 TWP 23 R	GE 8 W5N	Л		Data Entry	•	11-Apr-2013				
Longitude, Latit	ude	-115:06	:59, 50:58:01				Reviewer Name		Tom Carey	· · · · · · · · · · · · · · · · · · ·			
Road Authority		Alberta	Transportation	(AIT)			Review Date		10-Apr-2013				
Contract Main.	Area	CMA28					Dept. Reviewer Name						
Clear Roadway/	/Skew	11.7 / -4	I5 deg. (LHF)			Dept. Review Date			06-May-2013				
AADT/Year		1,690 / 2	2012 (A)	Ω (Λ)				Follow-Up By					
Road Classifica	tion	RAU-21	0-110										
Detour Length (km)	50											
Bridge Culvert	Inform	nation											
Number of Culv	erts		2			1							
Pipe #	Barrel		Span	Rise (or D	Dia.)	Туре	Ler	ngth	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		1738	1920		SPE	61.	6	152X51	3.0	ELLIPSE		
2	MAIN		1738	1920		SPE	35.	4	152X51	3.0	ELLIPSE		
Special Feature	s												
Utility Attachme Telephone Power Others Remarks	nts Both I	ROW.					Gas Municipal Problem (Y	nent n of Cond					
Horizontal Align	ment				5	5	Located in a curve - 300 m limited sight distance.						
Vertical Alignme					7	7							
Roadway Width	(m)		11.700										
Embankment					7	7							
Sideslope (:1)		3.0										
(Height of Cov		: 1)					1						
Guardrail (Y/N)		,	No										
Approach Road	d / Eml	bankmer	nt General Rat	ing	5	5							
						Upstre	am End						
Culvert Compo	nent				Last	Now	Explanatio	n of Cond	lition				
(Pipe # : 1, Spa	an Typ	e: Prima	ry Span)										
Direction					E		East end N	orth pipe.					
End Treatment (Concrete, Steel, STEEL Others, None)													
Others, None)	Headwall				X								
Others, None)					Х	^							
Others, None)					x	X							
Others, None) Headwall													

				am End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Span Type: Primary	/ Span)							
Cutoff Wall		X	X					
Bevel End		7	7					
Heaving (mm)	0							
Invert Above/Below Stream Bed								
Above/Below (mm)	0							
Scour Protection		7	7					
(Type : NATURAL)				_				
(Avg. Rock Size(mm) :)			_					
Scour/Erosion		7	7					
Beavers (Y/N)	No							
Upstream End General Rating		7	7					
				lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm	ı): 1738	8, Rise (mm): 1920, Type: SPE)				
Barrel Last Accessible Date	01-Apr-2013			North pipe - 45 deg lhf.				
Special Features								
Special Feature								
(Type:)			-	_				
Special Feature				_				
(Туре:)								
Roof		7	7	Upward.				
Measured Rise (mm)	1970			_				
Measured At Ring No.	5			_				
Sag (mm)	50			_				
Percent Sag	2							
Sidewall	1	6	5	Inward.				
Measured Span (mm)	1660			Due to bolt tipping.				
Measured At Ring No.	9			_				
Deflection (mm)	78			-				
Percent Deflection	4							
Floor	1	7	7	-				
Bulge (mm)	0			-				
Measured At Ring No.				-				
Abrasion (Y/N)	No							
Circumferential Seams	1	7	7	-				
Separation (mm)	0							
Longitudinal Seams	1	5	5	May have been over torqued. Not causing problems at this time. Bolts are marked.				
Total No. of Cracked Rings	0			Approx 46 scattered bolt heads on				
Total No. of Rings with Two Cracked Seams	0			South sidewall seam are tipped and pulled into steel.				
Min. Remaining Steel Between Cracks (mm)								
Proper Lap (Y/N)	No							
Longitudinal Stagger (Y/N)	No							
Coating		6	6	Some alkali at bolts at 1/5 L.				
Corrosion By Soil (Y/N)	Yes							
Corrosion By Water (Y/N)	No							

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

77483 -1 Bridge Culvert

	Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1738	, Rise (mm): 1920, Type: SPE)						
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N) No										
Fish Passage Adequacy		5	5	Also used by wildlife.						
Baffle		Х	Х							
(Туре :)										
Waterway Adequacy		7	7	Dry.						
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		5	5							
		D	ownstr	eam End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Span Type: Primary	/ Span)									
Direction		W		North pipe.						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	Х							
Collar		Х	Х							
Wingwalls		Х	X							
(Shape :)										
Cutoff Wall		Х	X							
Bevel End		7	7							
Heaving (mm)	0									
Invert Above/Below Stream Bed										
Above/Below (mm)	0									
Scour Protection		8	8							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 200)										
Scour/Erosion		8	8							
Beavers (Y/N)	No									
Downstream End General Ratin	ng	7	7							
				am End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	lary Span)									
Direction	I	E		South pipe.						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	Х							
Collar		Х	X							
Wingwalls		Х	X							
(Shape :)										
Cutoff Wall		Х	X							

Alberta Transportation

				am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		7	7	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating	1	7	7	
		-		
				Ivert Barrel
Culvert Component				Explanation of Condition
		Span (ı	mm): 17	738, Rise (mm): 1920, Type: SPE)
Barrel Last Accessible Date	01-Apr-2013			South barrel.
Special Features				
Special Features Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	Lawrend
	4070	7	7	Upward.
Measured Rise (mm)	1970			-
Measured At Ring No.	5			-
Sag (mm)	50			-
Percent Sag	2	-	-	
Sidewall		7	7	Inward.
Measured Span (mm)	1670			-
Measured At Ring No.	5			-
Deflection (mm)	68			_
Percent Deflection	3			
Floor	-	7	7	
Bulge (mm)	0			-
Measured At Ring No.				-
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			-
Total No. of Rings with Two Cracked Seams	0			-
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		6	6	Some alkali at bolts at 1/5 L.
Corrosion By Soil (Y/N)	Yes			Minor superficial corrosion and storage stains.
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brie	dae Cu	Ivert Barrel
Culvert Component				Explanation of Condition
	cation Code: MAIN, S			738, Rise (mm): 1920, Type: SPE)
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	Also used by wildlife.
Baffle		X	X	
(Type :)		~~~~		
Waterway Adequacy		7	7	Dry.
Icing (Y/N)	No	1	1	
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
J				
Culvert Component				ream End
Culvert Component	any Span)	Last	NOW	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)	14/		
Direction End Treatment (Concrete, Steel, Others, None)	STEEL	W		West end, South pipe.
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Downstream End General Ratin	ng	7	7	
		S	Structu	re Usage
		Last		Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	No defined channel.
Bank Stability			8	
HWM (m below Top of Culvert)				Hwm not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	NONE			
Beavers (Y/N)	No			1
(Fish Compensation Measure 1 :	-			
(Fish Compensation Measure 2 :				1
Channel General Rating	,	7	7	

			Maintenance Rec	commend	lations					
Inspector Recommendations		Year	Inspector Comments		Department Com	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)	55.6/55.0	6 Sufficiency Rating (Last/N (%)	ow)	63.3/63.2	Est. Repl. Yr	2031 Maint. R		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	Garry R	Roberts		Previous <i>J</i>	us Assistant's Name					
Next Inspection Date	01-Jan-	-2015		Previous Inspection Date 25-May-2011						
Inspection Cycle (Default) (months)	21									
Comment										