					Brida	e Culve	ert Inspe	ection				
Bridge File Nun	nber	84513 -	1 Bridge Culve	rt			Form Type			CULM		
Year Built		2002					Lot No.		4			
Bridge or Town	Name	ENV IR	RIGATION CA	NAL STR	UCTUF	RE ON	Inspector Name		Garry Roberts			
		PROVII	NCIAL HIGHWA	AY 527 NI	EA		Inspector Class		BR CLS A			
Located Over			PINE COULEE,	WATERO	CRS-IC	;	Assista	nt Name				
Located On		527:02	C1 1.129				Assistant Class					
Water Body Cl.	/Year						Inspection Date		22-May-2010			
Navigabil. Cl./Y	'ear						Data Entry By		Alyssa Boynton			
Legal Land Loc	cation	SE SEC	C 32 TWP 13 R	GE 28 W	4M		Data Entry Date		17-Aug-2010			
Longitude, Latit	tude	-113:46	5:43, 50:07:41				·		Ash Morjaria			
Road Authority Alberta Transportation (AIT)						Review Date		28-May-2010				
Contract Main. Area CMA26					Dept. F	Reviewer	Name	Lorenz Bohne	rt			
Clear Roadway	//Skew	9.1 / 30	deg. (RHF)					Review Da		18-Aug-2010		
AADT/Year		490 / 20	009 (A)				Follow-					
Road Classifica		RCU-20	09-110									
Detour Length	` /											
Bridge Culvert		ation										
Number of Culv			3	I							I	
Pipe #	Barrel		Span	Rise (or	Dia.)	Type		Length		Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN		-	2400		SP		33		152X51	3.5	ROUND
	MAIN		_	2400		SP		33		152X51	3.5	ROUND
	MAIN		-	2400		SP		33		152X51	3.5	ROUND
Special Feature				2 100		<u> </u>		00		102/101	0.0	INCONE
Special Feature		ment										
					Uti	lities (L	ocated.	at)				
Utility Attachme												
Telephone	South						Gas					
Power	North	row					Municipal					
Others	-						Problem (Y/N) No					
Remarks							. ,					
				A				ankment				
Llevine stel Alies					Last	Now		Explanation of Condition Curve West				
Horizontal Align						6	Curve	vest				
Vertical Alignm			10.000			7						
Roadway Width	1 (111)		10.000									
Embankment						8						
Sideslope (_:1)		4.0									
(Height of Co		1)										
Guardrail (Y/N)			Yes				Cable/Post system					
	–											
Approach Roa	d / Eml	oankme	nt General Rat	ing		6						
						Upstre	am End					
Culvert Compo	onent				Last			ation of	Condi	tion		
(Pipe # : 1, Sp		e:)										
Direction					N		West F	ipe				
End Treatment Others, None)	(Concre	ete, Stee	el, STEEL					· 				
Headwall						Х						
Collar				X								

			Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type:)				
Wingwalls			Х	
(Shape:)				
Cutoff Wall			Х	
Bevel End			7	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection			8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion			8	
Beavers (Y/N)	No			
Upstream End General Rating			7	
		Bric	lae Cu	Ilvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa			, Rise (mm): 2400, Type: SP)
Barrel Last Accessible Date	22-May-2010			West Pipe
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof			7	Barrel entered 1/2 way from U/S
Measured Rise (mm)				Est
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall			8	
Measured Span (mm)	2413			
Measured At Ring No.	1			
Deflection (mm)				
Percent Deflection				
Floor			N	800mm water flowing
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams			8	
Separation (mm)	0			
Longitudinal Seams			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)	Yes			
Longitudinal Stagger (Y/N)	No			1

		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 2400, Type: SP)
Coating			7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG				
Ponding (Y/N)	No			
Fish Passage Adequacy			7	
Baffle			Х	
(Type:)				
Waterway Adequacy			7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating			7	
_				
			T	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo		opan (n	nm):	, Rise (mm): 2400, Type: SP)
Barrel Last Accessible Date	22-May-2010			
Special Features		I	1	
Special Feature				
(Type:)			1	
Special Feature				
(Type:)				
Roof			7	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall			7	
Measured Span (mm)	2433			EST Barrel entered from U/S 1/2
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor	_		N	800mm of flowing water
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams			8	
Separation (mm)	0			
Longitudinal Seams			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)	Yes			
Longitudinal Stagger (Y/N)	No			-
Longitudinal Stagger (1/14)	INU			

		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 2, Secondary Span, L	ocation Code: MAII	N, Span (r	nm):	, Rise (mm): 2400, Type: SP)
Coating			7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy			7	
Baffle			Х	
(Type:)			_	
Waterway Adequacy			7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating			7	
		Brio	dae Cu	ilvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 3, Secondary Span, L	ocation Code: MAII	N, Span (r	nm):	, Rise (mm): 2400, Type: SP)
Barrel Last Accessible Date	22-May-2010			
Special Features				
Special Feature				
(Type:)		<u> </u>		
Special Feature				
(Type:)		<u> </u>		
Roof			7	
Measured Rise (mm)				EST Barrel entered from U/S half
Measured At Ring No.				- Darret efficied from 0/3 ffail
Sag (mm)				
Percent Sag				
Sidewall			7	
Measured Span (mm)	2433			
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor			N	800mm flowing water
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams			8	
Separation (mm)	0			
Longitudinal Seams			7	
Total No. of Cracked Rings	0			1
Total No. of Rings with Two	0			
Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	No			

		Brio	dge Cul	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 3, Secondary Span, Lo	cation Code: MAIN, S	Span (n	nm):	, Rise (mm): 2400, Type: SP)
Coating			7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy			7	
Baffle			Х	
(Type:)				
Waterway Adequacy			7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating			7	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type:)				
Direction		S		Middle Pipe
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall			Х	
Collar			Х	
Wingwalls			Х	
(Shape:)				
Cutoff Wall			Х	
Bevel End			7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection			8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion			8	
Beavers (Y/N)				
Downstream End General Ratio	ng		7	
			tructur	re Usage
			Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment			6	Bend U/S channel
Bank Stability			8	
HWM (m below Top of Culvert)				No visable HWM
Drift (Y/N)	No			

Structure Usage								
		Last	Now	Explanation of Condition				
Channel Bottom Degrading/Aggrading								
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating			6					

		Maintenance Re	commend	ations					
Inspector Recommendations	Year	Inspector Comments		Department Comr	ments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS				·					
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	}								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	low) /77.8	Sufficiency Rating (Last/N	Now) /	74.4	Est. Repl. Yr	2055	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		E	Estimated Tota	1 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name			Previous /	Assistant's Name					
Next Inspection Date	22-Aug-2013		Previous I	nspection Date					
Inspection Cycle (Default) (months)	39								
Comment									