					Brida	e Culve	ert Inspe	ction					
Bridge File Nu	mber	73686 -	1 Bridge Culve	ert	Dirag	o ouro				CULM			
Year Built		1998	ge	···			Lot No.		4				
Bridge or Town	n Name		ENT			Inspector Nam				Wade Nanninga			
Located Over							Inspector Class			BR CLS A			
		WATER	CRS-ST			Assistant Name							
Located On		28:18 C	1 29.760	29.760					Assistant Class				
Water Body Cl	./Year							ion Date		09-Apr-2012			
Navigabil. Cl./	<b>Year</b>							Data Entry By		Theresa Lacu	sta		
Legal Land Lo	cation	NW SEC	C 30 TWP 61 F	30 TWP 61 RGE 4 W4M						08-May-2012			
Longitude, Lat	itude	-110:35:	35, 54:18:37				Data Entry Date Reviewer Name			Eric Carcoux			
Road Authority Alberta Tr			Transportation	(AIT)			Review Date			25-Apr-2012			
Contract Main. Area CMA08									Jame	Brent Herrick			
Clear Roadway/Skew 11 /							•	eview Da		12-Jun-2012			
AADT/Year		5,000 / 2	2011 (A)				Follow-			12 0011 2012			
Road Classific	ation	RAU-21	1.8-110				1 Ollow-	ор Бу					
Detour Length	(km)	3											
Bridge Culver	t Inform	ation											
Number of Cul	verts	:	2										
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN			2000		MP		32		125X26	2.8	ROUND	
2	MAIN		-	1250		SSP		43			18.0	ROUND	
Special Featur	es												
Special Featur	es Comi	ment											
·													
					Uti	lities (L	Located	at)					
Utility Attachm	ents												
Telephone	North	r/w.			Gas								
Power	3 wire	es OH South r/w.					Municip						
Others	Fibre	optic cable South r/w.					Problen	n (Y/N)	No				
Remarks	BF tag	g installed	d @ North end										
				A			d / Emba						
					Last	Now	Explan	ation of C	Condi	tion			
Horizontal Alig					8	8	-						
Vertical Alignm	nent				8	8							
			_										
Roadway Widt	h (m)		11.000										
Embankment					8	8	Over to	Over top of 2000 dia pipe.					
Sideslope (_	.1)		4.0		0		Over to	p 01 2000	ula pi	pe.			
(Height of Co	· ·	1 5)	٦.∪				-						
Guardrail (Y/N		1.3)	No										
Suardrail (1/IV	/		140										
Approach Ro	ad / Eml	oankmer	nt General Ra	ting	8	8							
Oules 1 C							am End	-11		(!			
Culvert Comp		. D.:	m. Cm = \		Last	Now	⊢xplan	ation of C	Jondi	tion			
(Pipe # : 1, Sp	an Type	e: Primai	y Span)										
Direction			0		N		-						
End Treatment Others, None)	t (Concre	ete, Stee	I, SIEEL										
Headwall					Х	X							
Collar					X	X							

			Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	/ Span)			
Wingwalls		Х	X	
(Shape: )				
Cutoff Wall		Х	Х	
Bevel End		8	8	
Heaving (mm)	50			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	1000			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Upstream End General Rating		8	8	
		Brid	dae Cu	Ilvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN. Spa			, Rise (mm): 2000, Type: MP)
Barrel Last Accessible Date	09-Apr-2012	<b>,</b>	,-	,,,,,,,,
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		8	8	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				Estimated due to ice
Percent Sag	1			
Sidewall		8	8	Near c/l.
Measured Span (mm)	2020			
Measured At Ring No.				
Deflection (mm)	20			
Percent Deflection	1			
Floor		8	8	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	
Separation (mm)	40			
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				

		Bric	lge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	):	, Rise (mm): 2000, Type: MP)
Coating		6	6	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		3	4	Above S.B.
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		5	5	Pipe
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	8	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	Span)			
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	X	
Wingwalls		X	X	
(Shape: )				
Cutoff Wall		Х	X	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	1000			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	8	8	
			Upstre	am End
Culvert Component				Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		N		
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		Х	Х	
Collar		Х	Х	

			Upstre	am End
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Wingwalls		Х	Х	
(Shape: )				
Cutoff Wall		Х	Х	
Bevel End		Х	Х	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		8	8	
(Type: RIP RAP)				
(Avg. Rock Size(mm) : <b>200</b> )				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Upstream End General Rating		8	8	
		Brid	dae Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN. S			, Rise (mm): 1250, Type: SSP)
Barrel Last Accessible Date	, ,			Not accessible, viewed from ends. Looks good
Special Features				
Special Feature				
(Type:)			-	
Special Feature				
(Type : )				
Roof		8	8	
Measured Rise (mm)				
Measured At Ring No.				est
Sag (mm)	30			
Percent Sag	2			
Sidewall		8	8	
Measured Span (mm)				est
Measured At Ring No.				- 651
Deflection (mm)	30			
Percent Deflection	2			
Floor		8	8	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		4	4	Weld 0.7m from u/s end failed. Not significant issue, due to location.
Separation (mm)				
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings				
Total No. of Rings with Two				
Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				

		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1250, Type: SSP)
Coating		X	X	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	8	
		D	ownstr	ream End
Culvert Component			_	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)		111011	
Direction		s		
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape: )		<u>'</u>		
Cutoff Wall		Х	Х	
Bevel End		Х	Х	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		5	5	Small rock washing away
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	5	5	
		S	Structu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)			_	
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			

Structure Usage								
		Last	Now	Explanation of Condition				
Channel Bottom Degrading/Aggrading	NONE							
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating			8					

				Maintenand	e Recommen	dations					
Inspector Recommendations Year Inspector Comments						Department Con		Target Year	Est. Cost	Cat #	
SHOTCRETE REF	PAIRS		·			·					
PLACE ADDITION	IAL RIP RAP										
REMOVE DRIFT A	ACCUMULATION										
INSTALL CONCRE	ETE/STEEL LINING	<b>3</b>									
INSTALL STRUTS	<u> </u>										
INSTALL CONCRE	ETE COLLAR/CUTO	OFF									
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condit (%)	ion Rating (Last/N	ow) 88.9/8	8.9	Sufficiency Rating (L	.ast/Now)	65.1/66.4	Est. Repl. Yr	2053	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection	Monitor separating	seam @ u/s er	nd of WSP.			Department Comments					
Maintenance Revie	ewed By					Date		ı	Estimated Tota	1 0	
Proposed Long-Te	rm Strategy										
On 3-Year Program	m (Y/N)										
Proposed Action											
Previous Inspector	's Name	Shane Hall	Shane Hall			Previous Assistant's Name					
Next Inspection Da	ate	09-Jan-2014			Previous	Previous Inspection Date 15-Jul-2010					
Inspection Cycle (I	Default) (months)	21									
Comment	, , ,										