					Brida	e Culve	ert Insn	ection					
Bridge File Number 00990 -1 Bridge Culvert					- Tricig	o ourve	Form	•		CULE			
Year Built/Lined 1952/2007							Lot No.		4				
Bridge or Town		ND			Inspector Name			Jon Davies					
Located Over						Inspector Class		BR CLS B					
WATERCE			CRS-ST				Assistant Name						
Located On		10 581				Assistant Class							
Water Body Cl./Year							Inspection Date		28-Sep-2011				
Navigabil. Cl./					Data Entry By		Erin Roberts						
3			16 TWP 6 RGE 20 W4M				Data Entry Date		01-Nov-2011				
,		23, 49:27:54				Reviewer Name		Garry Roberts					
Road Authority Alberta Tra		ransportation (AIT)				Review Date		03-Oct-2011					
Contract Main.	Area	CMA25	-				Dept. Reviewer Name						
Clear Roadwa	y/Skew	7.3 /					Dept. Review Date		17-Nov-2011				
AADT/Year		1,260 / 2	2010 (A)				Follow-Up By						
Road Classific	ation	RAU-209	9-110				-	. ,					
Detour Length		3											
Bridge Culver		nation											
Number of Cul	verts	1								I			
Pipe #	Barrel	5	Span	Rise (or Dia.)		Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape	
2	U/S FULL -			2200		MP	MP					ROUND	
2	MAIN FULL - LINER			1524		SSP		24.4				ROUND	
2 D/S FULL - LINER			2200		MP		10				ROUND		
Special Featur	es										·		
Special Featur	es Comi	ment											
·													
					Uti	lities (L	ocated	at)					
Utility Attachm													
Telephone North & South ditch.							Gas						
Power	North						Municipal Problem (Y/N) No						
Others	Fibre optic cable North ditch.						Proble	m (Y/N)	No				
Remarks													
				Ī	•			ankment					
Liania antal Alim					Last	Now 6	Explanation of Condition						
Horizontal Alig				5			In sag	Gradual curve to West. No passing. In sag curve, limited sight distance both sides. Road widens					
	Vertical Alignment  Roadway Width (m) 7.		7.300	7.300		5							
			8	8	1.0m of backfill over th		a aytanajana th	on up to the re	and at 1 E:1				
Embankment	.1\		1.5		0 0		1.011 of backill over the			e exterisions th	ien up to the re	au at 1.5.1	
Sideslope (		. 3 3/	1.0				-						
(Height of Co		. 3.2)	No										
Approach Roa	ad / Eml	bankmen	t General Rat	ting	5	5							
						Upstre							
Culvert Component			Last	Now	Explai	nation of	Condi	tion					
Direction End Treatmen	t (Concre	ete, Steel	, STEEL		S								
Others, None) Headwall			X	X									
Collar					Х	X							

				am End
Culvert Component		Last	Now	Explanation of Condition
Wingwalls		X	X	
(Shape: )				
Cutoff Wall		Х	X	
Bevel End	I	7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
		Bri	dae Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Primary Span, Loca	tion Code: U/S, Span			Rise (mm): 2200, Type: MP)
Barrel Last Accessible Date	19-Jan-2010			6.1m long CSP extensions both ends. Not accessible due to high water depth.
Special Features				The sacretain and to high mater apprin
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		8	N	PR 8
Measured Rise (mm)				Viewed from South end- general shape is good
Measured At Ring No.				
Sag (mm)	10			
Percent Sag				
Sidewall		8	N	PR 8
Measured Span (mm)	2215			
Measured At Ring No.	1			
Deflection (mm)	15			
Percent Deflection				
Floor		N	N	800mm water
Bulge (mm)	0			
Measured At Ring No.	1			
Abrasion (Y/N)	No			
Circumferential Seams		Х	Х	
Separation (mm)				
Longitudinal Seams		Х	X	
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)				
Coating		7	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Controlled by Water (1/14)	1110			2 2 of 5

00990 -1 Bridge Culvert

		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Primary Span, Loca	tion Code: U/S, Span	(mm):	, i	Rise (mm): 2200, Type: MP)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Ratin	ng	8	N	PR 8
		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	<b>)</b> :	, Rise (mm): 1524, Type: SSP)
Barrel Last Accessible Date	19-Jan-2010			Not accessible due to high water depth
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		8	N	Old pipe has been lined with a 1524mm steel pipe and grouted in
Measured Rise (mm)	1524			PR 8 - viewed from South end general shape is good
Measured At Ring No.	1			
Sag (mm)				
Percent Sag				
Sidewall		8	N	PR 8
Measured Span (mm)	1524			
Measured At Ring No.	1			
Deflection (mm)				
Percent Deflection				
Floor		8	N	PR 8
Bulge (mm)	0			
Measured At Ring No.	1			
Abrasion (Y/N)	No			
Circumferential Seams		8	N	(Welded) 19-Jan-2010
Separation (mm)				PR 8
Longitudinal Seams		Х	X	
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)				
Coating		Х	Х	
Corrosion By Soil (Y/N)				
Correcion By Water (V/N)				

		Bric	lge Cu	lvert Barrel				
Culvert Component		Last Now		Explanation of Condition				
(Pipe # : 2, Primary Span, Loca	tion Code: MAIN, Spa	an (mm	):	, Rise (mm): 1524, Type: SSP)				
Camber POS/ZERO/NEG	ZERO							
Ponding (Y/N)	No							
Fish Passage Adequacy		5	5					
Baffle		Х	Х					
(Type:)								
Waterway Adequacy		7	7					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		8	N	PR 8				
		D	ownstr	ream End				
Culvert Component		Last	Now	Explanation of Condition				
Direction		N						
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		X	Х					
Collar		Х	Х					
Wingwalls		Х	Х					
(Shape: )								
Cutoff Wall		X	X					
Bevel End		7	7					
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	400							
Scour Protection		7	7					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 300)								
Scour/Erosion		7	7					
Beavers (Y/N)	No							
Downstream End General Ratio	ng	7	7					
				re Usage				
Channel (III/C and D/C)		Last	Now	Explanation of Condition				
Channel (U/S and D/S)		7	7					
Alignment		7	7					
Bank Stability			_ ′					
HWM (m below Top of Culvert)	0.0			HWM Not visible				
Drift (Y/N)	No							
Channel Bottom Degrading/Aggrading	DEGRADING							
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :								
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		7	7					

			Mainten	ance Recommer	ndations					
Inspector Recommendations	Year	Inspecto	or Comments		Department Com	nments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	3									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	ow) 88.9/5	5.6	Sufficiency Rating (Last/Now) (%)		81.6/65.9	Est. Repl. Yr	2040 Maint.		eqd. (Y/N)	No
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	Stimated Tota	ıI 0	
Proposed Long-Term Strategy									·	
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Garry Roberts Pre				vious Assistant's Name					
Next Inspection Date	28-Jun-2013			Previou	s Inspection Date	19-Jan-2010				
Inspection Cycle (Default) (months)	21									
Comment										