					Drida	ıo Cuby	rt Inch	oction						
						e Cuive	ert Inspection			CHLM				
Bridge File Nur	nber	81142 -1 Bridge Culvert						71		CULM				
Year Built		1996					Lot No.		4					
Bridge or Town Name CYNTHIA Located Over TRIBUTARY TO PEMBI			WALA DIVED			Inspector Name		Wade Nanning	ja					
8.11.84.61, WAT			IARY TO PEME .61. WATERCE	WATEDODS ST			Inspector Class		BR CLS B					
Located On 753:04 C1 5.323						Assistant Name								
Water Body Cl./Year							Assistant Class							
Navigabil. Cl./Year							Inspection Date		24-Jan-2011					
Legal Land Location SE SEC 20 TWP 50 RGE 10 W5					5M			Data Entry By Theresa Lacusta						
Longitude, Latitude -115:25:37, 53:19:33						Data Entry Date			15-Feb-2011					
Road Authority Alberta Transportation (AIT)				(AIT)	AIT)			er Name		Arnold Assenheimer				
Contract Main. Area CMA11				(,)			Review Date		14-Feb-2011					
Clear Roadway		9.6 /					Dept. Reviewer Name							
AADT/Year	// ORCVV	620 / 20	nng (Δ)				Dept. Review Date		22-Feb-2011					
Road Classifica	ation	RAU-20	. ,				Follow-	Up By						
Detour Length		35	55 110				-							
Bridge Culver							<u> </u>							
Number of Cul			2											
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN		-	2400		MP		34.9		125X26	2.8	ROUND		
2	MAIN		-	2400		MP		34.9		125X26	2.8	ROUND		
Special Feature				2100		1411		0 1.0		120/120		INCONE		
Special Feature		ment												
opoolar roatan	00 001111	110110												
					Ut	ilities (L	ocated	at)						
Utility Attachme	ents													
Telephone	West	r/w.				Gas								
Power	3 lines	s East r/v	w.				Municip	oal						
Others							Probler	m (Y/N) N	o					
Remarks	No BF	tag inst	talled on U/S ro	of.										
				Α				ankment						
					Last	Now	Explan	ation of Co	ondi	tion				
Horizontal Aligi					9	9	-							
Vertical Alignm	ent				8	8								
Roadway Widtl	h (m)		9.600			_								
Embankment					N	N								
Sideslope (_:1)		5.0											
(Height of Co	ver(m) :	1.9)												
Guardrail (Y/N))		Yes	Yes				Creased but still functional.						
Approach Roa	ad / Eml	oankme	nt General Rat	ing	8	8								
						Upstre	am End							
Culvert Comp	onent				Last	Now	Explan	ation of Co	ondi	tion				
(Pipe # : 1, Sp	an Type	e: Prima	ry Span)											
Direction					W		South p	oipe.						
End Treatment (Concrete, Steel, STEEL Others, None)														
Headwall					X	X								
Collar			Х	Х										
Wingwalls					Х	Х								
(Shape:)							1 of 6							

81142 -1 Bridge Culvert

Upstream End								
Culvert Component		Last	Now	Explanation of Condition				
(Pipe #: 1, Span Type: Primary	(Span)							
Cutoff Wall		Х	X					
Bevel End		N	N					
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW			Snow/ice covered.				
Above/Below (mm)	800							
Scour Protection		N	N	1 panel silt fence torn.				
(Type:)				Snow/ice covered.				
(Avg. Rock Size(mm):)								
Scour/Erosion		N	N	Snow/ice covered.				
Beavers (Y/N)	No							
Upstream End General Rating		8	8	G.R. carried forward but element not rated 16/Sept/2004 either.				
		Brid	dge Cu	Ivert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe #: 1, Primary Span, Local	tion Code: MAIN, Spa	n (mm	ı):	, Rise (mm): 2400, Type: MP)				
Barrel Last Accessible Date				Water/ice 2.3m deep. Barrels not visible due to snow.				
Special Features								
Special Feature								
(Type:)								
Special Feature								
(Type:)								
Roof		N	N					
Measured Rise (mm)								
Measured At Ring No.								
Sag (mm)								
Percent Sag								
Sidewall		N	N					
Measured Span (mm)								
Measured At Ring No.								
Deflection (mm)								
Percent Deflection								
Floor		N	N					
Bulge (mm)								
Measured At Ring No.								
Abrasion (Y/N)								
Circumferential Seams		N	N					
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)								
Coating		N	N					
Corrosion By Soil (Y/N)								
Corrosion By Water (V/N)								

		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 2400, Type: MP)
Camber POS/ZERO/NEG ZERO				
Ponding (Y/N)	Ves		(Ponding 1.5m. 16/Sept/2004)	
Fish Passage Adequacy		8	8	
Baffle		N	N	
(Type:)				
Waterway Adequacy			4	Water 2.3m deep and standing.
Icing (Y/N)	No			Snow/ice covered.
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	
		D		
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	y Span)	1		
Direction	ı	E		
End Treatment (Concrete, Steel, Others, None)	STEEL			water to within 100mm of crown.
Headwall			X	
Collar Wingwalls		Х	Х	
Wingwalls		X	X	
(Shape:)			1	
Cutoff Wall		Х	X	
Bevel End		N	N	Snow/ice covered.
Heaving (mm)	0			
Invert Above/Below Stream Bed				Snow/ice covered.
Above/Below (mm)	800		1	
Scour Protection		N	N	Snow/ice covered.
(Type:)				
(Avg. Rock Size(mm):)		T	1	
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Downstream End General Ratio	ng			G.R. carried forward but elements not rated on 16/Sept/2004 either.
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)	1,,,		I
End Treatment (Concrete, Steel, STEEL		W		North pipe. Water to within 100mm of crown.
Others, None) Headwall		Х	Х	
Collar		Х	X	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall			Х	

81142 -1 Bridge Culvert

Last Now Explanation of Condition Explanation of Condition	Upstream End										
Pipe #: 2. Span Type: Secondary Span	Culvert Component										
Heaving (mm) 0 0 1 1 1 1 1 1 1 1	-	lary Span)									
Invert Above/Below (trim)				N	Snow/ice covered.						
Invert Above@Below (mm)	Heaving (mm)	0									
Scour Protection N N N Showlice covered.	3 ()				Snow/ice covered.						
Scour Protection N N N Showlice covered.											
(Avg. Rock Size(mm) :) N			N	N	Snow/ice covered.						
(Avg. Rock Size(mm) :) N	(Type:)										
Scount Erosion N N N											
Upstream End General Rating B 8 8 G.R. carried forward but elements not rated 16/Sept/2004 either. Bridge Gulvert Barrol Last Now Explanation of Condition (Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm); 2400, Type: MP) Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Roof N N N Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall N N N Measured At Ring No. Deflection (mm) Percent Deflection Floor N N N Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams Separation (mm) Longitudinal Seams X X Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams Min. Remaining Steel Bettveen Cracks (mm) Longitudinal Stagger (Y/N) Longitudinal Stagger (Y/N) Longitudinal Stagger (Y/N) Longitudinal Stagger (Y/N) Corrosion By Water (Y/N) Corrosion By Water (Y/N)				N							
Culvert Component (Pipe & : 2, Secondary Span, Location Code: MAIN, Span (mm): Rise (mm): 2400, Type: MP) Special Feature (Type :) Special Feature (Type :) Special Feature (Type :) Roof N N N Measured At Ring No. Sag (mm) Percent Sag Sidewall N Measured At Ring No. Deflection (mm) Percent Deflection Floor N N N Measured At Ring No. Abrasion (Y/N) Circumferential Seams Separation (mm) Longitudinal Seams Total No. of Cracked Rings Total No. of Rings with Two Cracked Seams Total No. of Rings with Two	Beavers (Y/N)	No									
Culvert Component Last Now Explanation of Condition (Pipe # 2.2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2400, Type: MP) Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Special Feature (Type :) Special Feature (Type :) Special Feature (Type :) Special Feature (Type :) Special Feature (Type :) Roof Roof Roof Measured At Ring No. Deflection (mm) Floor Bulge (mm) Measured At Ring No. <t< td=""><td>Upstream End General Rating</td><td></td><td>8</td><td>8</td><td>G.R. carried forward but elements not rated 16/Sept/2004 either.</td></t<>	Upstream End General Rating		8	8	G.R. carried forward but elements not rated 16/Sept/2004 either.						
Culvert Component Last Now Explanation of Condition (Pipe # 2.2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2400, Type: MP) Barrel Last Accessible Date Special Features Special Feature (Type :) Special Feature (Type :) Special Feature (Type :) Special Feature (Type :) Special Feature (Type :) Special Feature (Type :) Special Feature (Type :) Roof Roof Roof Measured At Ring No. Deflection (mm) Floor Bulge (mm) Measured At Ring No. <t< td=""><td></td><td></td><td>Dri</td><td>dae Cu</td><td>Ivert Parrel</td></t<>			Dri	dae Cu	Ivert Parrel						
Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm):	Culvert Component										
Special Feature Special Feature Common Special Feature Special Fe	-	cation Code: MAIN. S			· •						
Special Feature (Type :) Special Feature (Type :) Special Feature (Type :) Roof N N N Measured Rise (mm) N Measured Rise (mm) Measured Rise (mm) N Measured Span (mm) Measured Span (mm) N Measured At Ring No. Deflection (mm) Deflection (mm) Percent Deflection N N N Floor N N N Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams Separation (mm) N N Longitudinal Seams X X Total No. of Rings with Two Cracked Rings Total No. of Rings with Two Cracks (mm) Proper Lap (Y/N) Deflection (Mm) Longitudinal Stagger (Y/N) N N Coating N N N Corrosion By Soil (Y/N) N N		- Cation Codor IIII tirt, C	, pa (.	,.	, 11100 (11111) 1 2 100, 1 3 por 1111)						
Special Feature	Barrer East Accessible Bate										
Type : Special Feature	Special Features										
Special Feature Common	Special Feature										
Type :	(Type:)										
Roof	Special Feature										
Measured Rise (mm) Measured At Ring No. Sag (mm) Percent Sag Sidewall N N Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No. Abrasion (y/N) Circumferential Seams N N Separation (mm) Longitudinal Seams Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (y/N) Longitudinal Sager (y/N) Cortosion By Soil (y/N) Cortosion By Soil (y/N) Cortosion By Soil (y/N) Corrosion By Soil (y/N) Corrosion By Water (y/N)	(Type:)										
Measured At Ring No. Sag (mm) Percent Sag Sidewall N N N Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor N N N Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams Separation (mm) Longitudinal Seams X 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) Longitudinal Stagger (Y/N) Longitudinal Stagger (Y/N) Coating N N N Corrosion By Soil (Y/N) Corrosion By Water (Y/N)	Roof		N	N							
Sag (mm) Percent Sag Sidewall N N N Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor N N N Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams N N Separation (mm) Longitudinal Seams 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) Longitudinal Stagger (Y/N) Coating N N Corrosion By Soil (Y/N) Corrosion By Soil (Y/N) Corrosion By Water (Y/N)	Measured Rise (mm)										
Sag (mm) Percent Sag Sidewall N N N Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor N N N Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams N N Separation (mm) Longitudinal Seams 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) Longitudinal Stagger (Y/N) Coating N N Corrosion By Soil (Y/N) Corrosion By Soil (Y/N) Corrosion By Water (Y/N)	Measured At Ring No.										
Sidewall Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor N N N Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams N N N Separation (mm) Longitudinal Seams 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 N N N Corrosion By Soil (Y/N) Corrosion By Soil (Y/N) Corrosion By Water (Y/N)	Sag (mm)										
Measured Span (mm) Measured At Ring No. Deflection (mm) Percent Deflection Floor Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams Separation (mm) Longitudinal Seams 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 N N N N N N N N N N N N N	Percent Sag										
Measured At Ring No. Deflection (mm) Percent Deflection Floor N N N Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams N N Separation (mm) Longitudinal Seams X 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 N N Corrosion By Soil (Y/N) Corrosion By Water (Y/N)	Sidewall		N	N							
Deflection (mm) Percent Deflection Floor N N N Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams N N Separation (mm) Longitudinal Seams 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 N N Corrosion By Soil (Y/N) Corrosion By Water (Y/N)	Measured Span (mm)										
Percent Deflection Floor Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams Separation (mm) Longitudinal Seams 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 N N Corrosion By Soil (Y/N) Corrosion By Water (Y/N)	Measured At Ring No.										
Floor N N N Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams N N Separation (mm) Longitudinal Seams X 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 N N Corrosion By Soil (Y/N) Corrosion By Water (Y/N)	Deflection (mm)										
Bulge (mm) Measured At Ring No. Abrasion (Y/N) Circumferential Seams N N Separation (mm) Longitudinal Seams X 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 N N Corrosion By Soil (Y/N) Corrosion By Water (Y/N)	Percent Deflection										
Measured At Ring No. Abrasion (Y/N) Circumferential Seams Separation (mm) Longitudinal Seams 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 N N Corrosion By Soil (Y/N) Corrosion By Water (Y/N)	Floor		N	N							
Abrasion (Y/N) Circumferential Seams N N Separation (mm) Longitudinal Seams X 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 Corrosion By Soil (Y/N) Corrosion By Water (Y/N)	Bulge (mm)										
Circumferential Seams Separation (mm) Longitudinal Seams 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 N N N Corrosion By Soil (Y/N) Corrosion By Water (Y/N)	Measured At Ring No.										
Separation (mm) Longitudinal Seams X	Abrasion (Y/N)										
Longitudinal Seams X 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 N N Corrosion By Soil (Y/N) Corrosion By Water (Y/N)	Circumferential Seams		N	N							
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 N N Corrosion By Soil (Y/N) Corrosion By Water (Y/N)	Separation (mm)										
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 N N Corrosion By Soil (Y/N) Corrosion By Water (Y/N)	Longitudinal Seams		Х	X							
Total No. of Rings with Two Cracked Seams Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) Longitudinal Stagger (Y/N) Coating N N Corrosion By Soil (Y/N) Corrosion By Water (Y/N)											
Min. Remaining Steel Between Cracks (mm) Proper Lap (Y/N) Longitudinal Stagger (Y/N) Coating N N Corrosion By Soil (Y/N) Corrosion By Water (Y/N)											
Proper Lap (Y/N) Longitudinal Stagger (Y/N) Coating N N Corrosion By Soil (Y/N) Corrosion By Water (Y/N)											
Longitudinal Stagger (Y/N) Coating N N Corrosion By Soil (Y/N) Corrosion By Water (Y/N)											
Coating N N Corrosion By Soil (Y/N) Corrosion By Water (Y/N)											
Corrosion By Soil (Y/N) Corrosion By Water (Y/N)			N	N							
Corrosion By Water (Y/N)					1						
					1						
		ZERO									

		Brid	dge Cu	Ivert Barrel					
Culvert Component		1	Now	Explanation of Condition					
(Pipe #: 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 2400, Type: MP)					
Ponding (Y/N)	Yes			Ponding 1.5m16-Sep-2004					
Fish Passage Adequacy		8	8						
Baffle		N	N						
(Type:)									
Waterway Adequacy		4	4	Water 2.3m deep and standing.					
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		N	N						
		D	ownsti	ream End					
Culvert Component			Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	ary Span)								
Direction		Е		North pipe.					
End Treatment (Concrete, Steel, Others, None)	STEEL			Water 2.3m deep.					
Headwall		X	X						
Collar		Х	Х						
Wingwalls		Х	Х						
(Shape:)			_						
Cutoff Wall		Х	X						
Bevel End		N	N	Snow/ice covered.					
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW			Snow/ice covered.					
Above/Below (mm)	800								
Scour Protection		N	N	Snow/ice covered.					
(Type:)									
(Avg. Rock Size(mm):)		1							
Scour/Erosion		N	N						
Beavers (Y/N)	No								
Downstream End General Ratio	ng	8	8	G.R. carried forward but elements not rated 16/Sept/2004 either.					
		S	Structu	re Usage					
			Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		7	7						
Bank Stability		8	8						
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading									
Beavers (Y/N)	Yes								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		7	7						

			Mainten	ance Recommer	ndations						
Inspector Recommendations Year Inspector Comments					Department Com	Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS									J J		
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING	i										
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTO	OFF										
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No. (%)	ow) 55.6/5	55.6/55.6 Sufficiency Rating (Las (%)		g (Last/Now)	56.9/56.0	Est. Repl. Yr 2046		Maint. Re	qd. (Y/N)	No	
Special Comments for Next Inspection	at full capacity	always.			Department Comments						
Maintenance Reviewed By					Date				Estimated Tota	I 0	
Proposed Long-Term Strategy										'	
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Dave Lam			Previou	s Assistant's Name						
Next Inspection Date	24-Apr-2014			s Inspection Date 16-Dec-2007							
Inspection Cycle (Default) (months)	39										
Comment											