Bridge Culv Drides File Nurshan Z4000 4 Drides Octuart							Form Type						
Bridge File Number 74660 -1 Bridge			Bridge Culvert			Form Type							
Pridre er Teur	Nome EX						LOLINO.		4 Corry Pohorto				
							Inspector Na						
WATEI			TERCRS-ST				Assistant Na	d55 mo	BR CLS A				
Located On	1:0)2 R1 2	R1 24.792;1:02 L1 24.706										
Water Body CI./	'Year						Inspection F	late	08-Feb-2012				
Navigabil. Cl./Ye	ear		1				Data Entry By Lauren Korte						
Legal Land Loca	ation SV	V SEC	24 TWP 24 R	М		Data Entry D	Entry Date 16-Mar-2012						
Longitude, Latitude -115:08		15:08:2	:08:28, 51:03:24				Reviewer Na	ame	Tom Carev	Tom Carey			
Road Authority Alberta		perta T	erta Transportation (AIT))	22-Feb-2012				
Contract Main. Area CMA		CMA28 [Dept. Reviev	wer Name	Tim Davies				
Clear Roadway/Skew 25.6		25.6 / 20 deg. (RHF)					Dept. Review Date		22-Mar-2012				
AADT/Year	16	,520 / 2	2010 (A)				Follow-Up By						
Road Classifica	tion RA	D-412	.4-120				-						
Detour Length (<u>km) 1</u>												
Bridge Culvert	Informatio	on 4											
Ripo #	Barrol	 	nan	Pico (or			Long	nth	Corr Brofilo	DI /Slab	Shapo		
Fipe #	Darrei	3	pan		Dia.)	туре	Lené	Jui	Con. Fiolile	Thickness	Shape		
1	U/S	1	760	2280		RPP	40.2				PIPE ARCH		
1	MAIN	2	430	2430		BP	26.3				RECTANGLE		
Special Feature	s												
Special Feature	es Commer	nt											
					1 14	ilitios (l	ocated at)						
Utility Attachme	nts				01	inties (L							
Telephone	North and	and South ditch media					Gas	@ S I	₹₩.				
Power	3 West M	st MAIN 100 m SOUTH.					Municipal						
Others Fibre optics cable in median.							Problem (Y/	N) No					
Remarks													
				A	proa	ch Road	d / Embankm	ent					
					Last	Now	Explanation of Condition						
Horizontal Alignment					6	6	On curve good sight distance.						
Vertical Alignme	ent		1		7	7							
Roadway Width	ı (m)		25.600										
Embankment					7	7							
Sideslope (:1)		3.0		<u> </u>								
(Height of Cov	ver(m) : 2.2	2)					-						
Guardrail (Y/N)	- ()	/	Yes				South side only.						
						-							
			Approach Road / Embankment General Rating			6							
Approach Road	d / Emban	kment	General Rati	ing	6	0							
Approach Road	d / Emban	kment	: General Rati	ing	6	0 Upstre	am End						
Approach Road	d / Emban onent	kment	t General Rati	ing	6 Last	0 Upstre Now	am End Explanatior	of Condi	tion				
Approach Road	d / Emban onent	kment	General Rat	ing	6 Last	o Upstre Now	am End Explanatior South end	of Condi	tion				
Approach Road	d / Emban onent (Concrete,	kment Steel,	STEEL	ing	6 Last	0 Upstre Now	am End Explanatior South end	of Condi SP SPAN	tion				
Approach Road	d / Emban onent (Concrete,	kment Steel,	STEEL	ing	6 Last X	Vpstre Now	am End Explanatior South end	of Condi SP SPAN	tion				
Approach Road Culvert Compo Direction End Treatment Others, None) Headwall Collar	d / Emban onent (Concrete,	kment Steel,	STEEL	ing	6 Last X X	Vpstre Now	am End Explanatior South end	of Condi SP SPAN	tion				
Approach Road Culvert Compo Direction End Treatment Others, None) Headwall Collar Wingwalls	d / Emban onent (Concrete,	kment Steel,	STEEL	ing	6 Last X X X	Vpstre Now X	am End Explanatior South end	of Condi SP SPAN	tion				

Alberta Transportation

	1		Upstre	am End				
Culvert Component		Last	Now	Explanation of Condition				
Cutoff Wall		X	X					
David Fad			7					
Bever End	000	1	1					
Heaving (mm)	200							
Invert Above/Below Stream Bed	BELOW			_				
Above/Below (mm)	1000		-					
Scour Protection		7	7					
(Type : NATURAL)				-				
(Avg. Rock Size(mm) :)		1	-					
Scour/Erosion		7	7					
Beavers (Y/N)	Yes			Beaver Dam 8m U/S.				
Upstream End General Rating		7	7					
		Brid	dge Cu	Ivert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1. Primary Span, Locat	tion Code: U/S. Span	(mm):	1760.	Rise (mm): 2280. Type: RPP)				
Barrel Last Accessible Date	08-Eeb-2012	<u>().</u>		SPCSP under EBI				
Darrei Last Accessible Date	00-1 60-2012							
Special Features		1						
Special Feature								
(Type:)								
Special Feature								
(Type :)								
Roof		N	5					
Measured Rise (mm)								
Measured At Ring No.								
Sag (mm)								
Percent Sag								
Sidewall	1	N	4	Poor plate pesting and gaps to 17 mm in sidewall seam				
Measured Span (mm)				Ice to high to measure span.				
Measured At Ring No				-				
Deflection (mm)				-				
Percent Deflection								
		NI	N					
		IN	IN	ice 1.3 deep.				
				-				
Measured At Ring No.				-				
Abrasion (Y/N)	INO							
Circumferential Seams		N	5	Isolated loose bolts.				
Separation (mm)	0							
Longitudinal Seams		N	4	Isolated loose bolts and poor nesting with gaps to 17 mm at R16.				
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		N	5	Moderate to heavy corrosion at longitudinal seams				
Corrosion By Soil (Y/N)	Yes		Ű	Soil corrosion at upper bolts.				
Corrosion By Water (Y/N)	Yes							
	NEC							
Gailber FUS/ZERU/NEG	INEG							

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

74660 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: U/S, Span	(mm):	1760, F	Rise (mm): 2280, Type: RPP)					
Ponding (Y/N)	Yes			Pipe acts as equalizer. Ice/water to 1.3 m.					
Fish Passage Adequacy			7						
Baffle		Х	Х						
(Туре :)									
Waterway Adequacy		6	5						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel Extension General Ratin	ıg	N	4						
	5								
		Bric	lge Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 2430	, KISE (MM): 2430, Type: BP)					
Barrel Last Accessible Date	08-Feb-2012			Concrete box under WBL.					
Special Features									
Special Feature									
(Type:)									
Special Feature									
(Type:)									
Roof		N	6	Isolated tranverse cracks.					
Measured Rise (mm)									
Measured At Ring No.									
Sag (mm)									
Percent Sag									
Sidewall		N	6	Isolated vertical cracks.					
Measured Span (mm)			-						
Measured At Ring No.									
Deflection (mm)									
Percent Deflection									
Floor		N	N	1 m of ice.					
Bulae (mm)									
Measured At Ring No.				1					
Abrasion (Y/N)	No			1					
Circumferential Seams		N	6						
Separation (mm)	8			1					
Longitudinal Seams		Х	X						
Total No. of Cracked Rings									
Total No. of Rings with Two				1					
Cracked Seams				-					
Min. Remaining Steel Between Cracks (mm)				-					
Proper Lap (Y/N)				-					
Longitudinal Stagger (Y/N)									
Coating		Х	X						
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N)	No								
Camber POS/ZERO/NEG	ZERO								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

74660 -1 Bridge Culvert

		Brio	dge Cu	livert Barrel			
Culvert Component		Last	Now	Explanation of Condition			
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	i <mark>n (mm</mark>): 2430	, Rise (mm): 2430, Type: BP)			
Ponding (Y/N)	Yes			Pipe acts as equalizer. Ice/water to 1.3 m deep.			
Fish Passage Adequacy		7	7				
Baffle		Х	Х				
(Type:)							
Waterway Adequacy		7	5				
Icing (Y/N)	No						
Silting (Y/N)	No						
Drift (Y/N)	No						
Barrel General Rating		N	6				
			ownetr	com End			
Culvert Component		Last	Now	Explanation of Condition			
Direction		Last	1101	North end			
End Treatment (Concrete, Steel, Others, None)	CONCRETE						
Headwall		7	7				
Collar		Х	Х				
Wingwalls		6	6	Vertical crack both NE&NW-up to 1mm wide.			
(Shape :)							
Cutoff Wall		Х	X				
Bevel End		X	X				
Heaving (mm)	0						
Invert Above/Below Stream Bed	vert Above/Below Stream Bed BELOW						
Above/Below (mm)	Above/Below (mm) 1000		1				
Scour Protection		7	7				
(Type : NATURAL)							
(Avg. Rock Size(mm) :)		1	1				
Scour/Erosion		7	7				
Beavers (Y/N)	Yes			Small dam located 4.0m from D/S end & large dam located 60m east of D/S end.			
Downstream End General Ratin	ng	6	6				
		s	Structur	e Usage			
		Last	Now	Explanation of Condition			
Channel (U/S and D/S)							
Alignment		7	7	Empties into channel of Bow River. U/S is large pond.			
Bank Stability		7	7				
HWM (m below Top of Culvert)	0.5			Waterline in barrels.			
Drift (Y/N)	No						
Channel Bottom Degrading/Aggrading	AGGRADING			Beaver Dam 8m from U/S end.			
Beavers (Y/N)	Yes						
(Fish Compensation Measure 1 :	NONE)						
(Fish Compensation Measure 2 :	NONE)						
Channel General Rating		7	7				

Maintenance Recommendations												
Inspector Recommendations			Year	Inspecto	or Comments		Department Con	nments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS												
PLACE ADDITION												
REMOVE DRIFT	ACCUMULATION											
INSTALL CONCR	ETE/STEEL LINING											
INSTALL STRUTS												_
INSTALL CONCRETE COLLAR/CUTOFF												_
REPAIR SEAMS												_
OTHER ACTION												
OTHER ACTION												_
OTHER ACTION												_
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)			55.6/44.	4	Sufficiency Rating (Last/Now) (%)		60.3/52.1	Est. Repl. Yr	2025	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection	Special Comments for Next Inspection Accessible in winter if adequate ice. Previous last accessible date 1990. G. Rober					990. G. Roberts	Department Comments					
Maintenance Revi	ewed By						Date			Estimated Tota	I 0	
Proposed Long-Term Strategy												
On 3-Year Progra	m (Y/N)											
Proposed Action												
Previous Inspector's Name Garry Roberts				Previous	Assistant's Name							
Next Inspection Date 08-N		08-Nov	08-Nov-2013 Previ				s Inspection Date 27-Sep-2010					
Inspection Cycle (Default) (months)	21										
Comment												