Bridge Culvert Inspection													
Bridge File Number 71762 -1 B			-1 Bridge Culve			Form Ty	/pe	CULM	CULM				
Year Built		1979					Lot No.		4				
Bridge or Town	Name BRETON				Inspector Name			Wade Nanninga					
Located Over TRIBUTARY TO POPLAR CI				AR CREE	ΞK, 6.′	132.8,	Inspector Class		BR CLS B	BR CLS B			
Located On 616:02 C1 18 465							Assistant Name						
Water Body CL/Year							Assistar	nt Class					
Navigabil, CL/Y	'ear						Inspecti	on Date	14-Feb-2011				
Legal Land Loc	ation	SW SF	C 2 TWP 48 R	GE 5 W5M	1		Data En	Data Entry By Theresa Lacusta					
Longitude, Latit	tude	-114:37	37:42 53:06:18					try Date	22-Feb-2011	22-Feb-2011			
Road Authority		Alberta	Transportation	(AIT)			Reviewe	er Name	Arnold Assen	heimer			
Contract Main.	Area	CMA11		(/ /			Review	Date	22-Feb-2011	22-Feb-2011			
Clear Roadway	/Skew	9/					Dept. Re	eviewer Nam	Brent Herrick				
AADT/Year		860 / 20	009 (A)				Dept. Re	eview Date	02-Mar-2011				
Road Classifica	ation	RCU-2	09-110					Эр Ву					
Detour Length ((km)	6											
Bridge Culvert	Inform	ation											
Number of Culv	/erts		2										
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		2314	2552		SPE	:	39.6	152X51	3.0	ELLIPSE		
2	MAIN		-	2400		MP	:	25	125X26	2.8	ROUND		
Special Feature	es												
Special Feature	es Comr	ment	BF tag installed	d on W pip	be, S s	ide.							
			-										
					Uti	lities (L	_ocated a	at)					
Utility Attachme							0						
Telephone	South	r/w.	-4				Municipal						
Power	2 lines	s North I	/W.				Problem (V/N) No						
Others							Problem	1 (Y/N) NO					
Remarks				٨٣		h Poor	d / Embo	nkmont					
				A	l ast	Now	Explana	ntion of Con	lition				
Horizontal Align	nment				7	7	Field entrances and intersection. Sag curves with limited sight						
Vertical Alignme	ent				7	7	distance. No passing on hills.						
vortiour / ingrini	on				•	l '							
Roadway Width	n (m)		9.000										
Embankment					7	7							
Sideslope (:1)		3.0				West pip	pe 3.5m.					
(Height of Co	ver(m) ·	0.8)	0.0				1						
Guardrail (Y/N)		510)	No										
Approach Roa	d / Emb	bankme	nt General Rat	ing	7	7							
						Upstre	am <u>End</u>						
Culvert Compo	onent				Last	Now	Explana	ation of Cond	lition				
(Pipe # : 1, Sp	an Type	e: Prima	ary Span)										
Direction					S		West ba	arrel.					
End Treatment Others, None)	(Concre	ete, Stee	el, CONCRETE				1						
Headwall					Х	Х							
i icadwaii													

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Collar		4	N	Concrete collar cracked. Void under SW collar.21-Nov-2007
Wingwalls		Х	Х	
(Shape :)		;		
Cutoff Wall		X	X	
Bevel End		6	6	
Heaving (mm)	200			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		4	N	Concrete collar no longer protects erosion/scour.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		4	N	Ice U/S. Void under collar & bevel SW.
Beavers (Y/N)	No			
Upstream End General Rating		4	4	GR carried forward.
Culvert Component		Brit		Ivert Barrel
(Dipo # : 1 Primary Span Loca	tion Codo: MAIN	Last	NOW	
Parrel Lest Assessible Date	14 Esh 2014	Span (min	1). 2314	
Barrei Last Accessible Date	14-Feb-2011			Ice to crown 0.5m.
Special Features			-	
Special Feature				-
(Type :)				-
Special Feature				-
(Type :)				
Roof	1	5	5	(2405 near c/l, 5.7%. 01/Sept/2004)
Measured Rise (mm)	2405			-
Measured At Ring No.				-
Sag (mm)	147			-
Percent Sag	6		-	
Sidewall	1	4	N	(2480 near c/l, 7.2%. 01/Sept/2004)
Measured Span (mm)	2480			-
Measured At Ring No.				-
Deflection (mm)	166			-
Percent Deflection	7			
Floor		7	N	-
Bulge (mm)	0			-
Measured At Ring No.				-
Abrasion (Y/N)	No			
Circumferential Seams	1	7	7	-
Separation (mm)	0			
Longitudinal Seams	1	4	N	Rings 4, 5 & 8 have cracks on East wall with 80 mm of steel left on
Total No. of Cracked Rings	3			ing 6. King 4, 1 i umm leit. King 5, 100mm left.
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

71762 -1 Bridge Culvert

Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm): 2314	, Rise (mm): 2552, Type: SPE)						
Coating		6	N	Minor superficial on floor. Corrosion @ bolt holes where water is						
Corrosion By Soil (Y/N)	Yes			leaching into pipe21-Nov-2007						
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG NEG										
Ponding (Y/N)	No									
Fish Passage Adequacy		4	5							
Baffle		X	X							
(Туре :)										
Waterway Adequacy		7	7							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		4	4	GR carried forward.						
g										
		D	ownstr	eam End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Span Type: Primary	(Span)									
Direction		N		West barrel.						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		X	X							
Collar		Х	Х							
Wingwalls		Х	Х							
(Shape:)										
Cutoff Wall		X	X							
Bevel End		6	6							
Heaving (mm)	100									
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm)	400									
Scour Protection	·	4	N	Streambed is degraded resulting in a dropoff and the bevel						
(Type : RIP RAP)				Streambed is degraded resulting in a dropoff and the bevel unsupported for 1.0m length.21-Nov-2007						
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		4	N	5 x 10 x 1m ice.						
Beavers (Y/N)	No									
Downstream End General Ratin	ng	4	4	GR carried forward.						
			Upstre	am End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	ary Span)									
Direction		S		East barrel.						
End Treatment (Concrete, Steel, STEEL Others, None)				Overflow pipe.						
Headwall		Х	Х							
Collar		Х	Х							

			Upstre	eam End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	lary Span)									
Wingwalls		Х	X							
(Shape :)										
Cutoff Wall		Х	X							
Bevel End		8	8							
Heaving (mm)	0									
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm)	2200									
Scour Protection		8	8							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 400)										
Scour/Erosion		8	8							
Beavers (Y/N)	No									
Upstream End General Rating	1	8	8							
		Brid	lge Cu	lvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 2400, Type: MP)						
Barrel Last Accessible Date	14-Feb-2011									
Special Features										
Special Feature										
(Type:)										
Special Feature										
(Type :)										
Roof		7	7							
Measured Rise (mm)	2420			CL						
Measured At Ring No.										
Sag (mm)	20									
Percent Sag	0									
Sidewall		7	7							
Measured Span (mm)	2405			CL						
Measured At Ring No.										
Deflection (mm)	5									
Percent Deflection	0									
Floor		8	8							
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		8	8							
Separation (mm)	0	-	-							
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)										

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (n	nm):	, Rise (mm): 2400, Type: MP)						
Coating		7	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		8	4	2m above S.B.						
Baffle		Х	Х							
(Туре :)										
Waterway Adequacy		8	5	Overflow 2m above S.B.						
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		7	7							
		D	ownstr	ream End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	lary Span)									
Direction		N		East barrel.						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	Х							
Collar			Х							
Wingwalls		Х	Х							
(Shape :)										
Cutoff Wall		Х	X							
Bevel End		8	8							
Heaving (mm)	0									
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm)	2500		1							
Scour Protection		7	7							
(Type : RIP RAP)				-						
(Avg. Rock Size(mm) : 300)			1							
Scour/Erosion		7	7							
Beavers (Y/N)	No									
Downstream End General Ration	ng	8	7							
		S	Structu	a lisana						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)	1									
Alignment			8							
Bank Stability	1	7	7							
HWM (m below Top of Culvert)				HWM not visible.						
Drift (Y/N)	Yes									

Structure Usage										
		Last	Explanation of Condition							
Channel Bottom Degrading/Aggrading	DEGRADING									
Beavers (Y/N)	No									
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		7	7							

					Mainter	nance Recommen	dations						
Inspector Recomm	nendations		Year	Inspector	Comments		Department Co	ommen	its		Target Year	Est. Cost	Cat #
SHOTCRETE RE													
PLACE ADDITION	IAL RIP RAP												
REMOVE DRIFT	ACCUMULATION												
INSTALL CONCR	ETE/STEEL LINING												
INSTALL STRUTS	6												
INSTALL CONCR	ETE COLLAR/CUTC	DFF											
REPAIR SEAMS													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/Now) (%)			44.4/44.4	4	Sufficiency Rating (Last/Now) (%)		49.1/42.9 Es		t. Repl. Yr	2020	Maint. Reqd. (Y/N)		No
Special Comments for Next Inspection						Department Comments							
Maintenance Revi	ewed By							Date Estimated Total 0					
Proposed Long-Te													
On 3-Year Progra	m (Y/N)												
Proposed Action													
Previous Inspector's Name Jacob			Jacob Oresile Previous A					Assistant's Name					
Next Inspection Date 14-M			14-May-2014 Previous					Inspection Date 21-Nov-2007					
Inspection Cycle (Default) (months)	39											
Comment													