					Brido	e Culve	ert Inspec	ction					
Bridge File Nun					Dirag	CCCIII	Form Type			CULM			
Year Built		1969					Lot No.			2			
Bridge or Town	Name		NCF				Inspecto	r Name		Shane Hall			
Located Over	1101110					Inspector Class			BR CLS A				
2000100 0101			CDS_ST				Assistant Name		Dit GLG /t				
Located On		40:30 C	1 34.066				Assistant Class						
Water Body Cl.	/Year						Inspection Date		17-Oct-2012				
Navigabil. Cl./Y	ear						Data Entry By		Theresa Lacus	sta			
Legal Land Location SE SEC 10 TWP 53 RGE 27 W5					5M			Data Entry Date		26-Nov-2012			
Longitude, Latitude -117:53:29, 53:33:39								Reviewer Name		Eric Carcoux			
Road Authority		Alberta	Transportation	(AIT)				Review Date		19-Nov-2012			
Contract Main.	Area	CMA13					Dept. Reviewer Name						
Clear Roadway	/Skew	8.5 /						eview Dat		06-Dec-2012			
AADT/Year		2,040 /	2011 (A)				Follow-L			00 000 2012			
Road Classifica	ation	RAU-20	9-110				_ Cilow C	, p					
Detour Length (	(km)	420											
Bridge Culvert	Inform	ation											
Number of Culv	/erts		2										
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре	L	_ength		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		2905	3203		SPE	7	78		152X51	4.3	ELLIPSE	
2	MAIN		-	915		MP	7	78		68X13	2.8	ROUND	
Special Feature	es												
Special Feature	es Comi	ment											
					Uti	ilities (L	Located a	it)					
Utility Attachme							_						
Telephone	North	r/w.					Gas						
Power							Municipa						
Others							Problem	(Y/N)   ľ	No				
Remarks	File ta	ng in plac	e.				1/=-1-						
				A	Last	Now Now	d / Embar		ondi	tion			
Horizontal Align	ment				7	7	Explanation of Condition  Bottom long sag curve.						
					6	6	_ Doctorn long day out vo.						
Vertical Alignmo			8.500		0	0							
Roadway Widii	1 (111)		0.500										
Embankment					N	5							
Sideslope (	_:1)		3.0										
(Height of Co	ver(m):	13.4)											
Guardrail (Y/N)			Yes				SE end not bolted to end post. 1 broken post @ NE cornerphoto						
Approach Roa	d / Emi	bankme	nt General Rat	ing	6	6							
						Unstre	am End						
Culvert Compo	onent				Last		Explana	tion of C	ondi	tion			
(Pipe # : 1, Spa		e: Prima	ry Span)							-			
Direction	71				s		West pip	e.					
End Treatment Others, None)	(Concre	ete, Stee	I, STEEL										
Headwall					Х	X							
Collar			Х	X									
	Wingwalls												
					Х	X							

76798 -1 Bridge Culvert

			Unctro	eam End
Culvert Component				Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Snan)	Lasi	INOW	Explanation of Condition
Cutoff Wall	, opun,	X	X	
Odion Wan				
Bevel End		7	7	
Heaving (mm)	100			
Invert Above/Below Stream Bed	ABOVE			(20/Apr/2007)
Above/Below (mm)	600			
Scour Protection		N	6	Partially covered by water/beaverdams, no problems evident.
(Type : RIP RAP)				_
(Avg. Rock Size(mm) : <b>300</b> )			1	
Scour/Erosion		N	N	beaverdam
Beavers (Y/N)	Yes			2m high dam on inlet.
Upstream End General Rating		6	6	
			T -	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca		oan (mm	i): 2905	o, KISE (mm): 3203, Type: SPE)
Barrel Last Accessible Date	17-Oct-2012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	
Measured Rise (mm)	3159			
Measured At Ring No.	14			
Sag (mm)	44			1.3%
Percent Sag	1			
Sidewall		7	7	
Measured Span (mm)	2936			
Measured At Ring No.	14			
Deflection (mm)	31			
Percent Deflection	1			
Floor		N	7	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	
Separation (mm)	0			
Longitudinal Seams		6	6	5% of seams nested poorly.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				1N
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		5	5	Superficial rust on lower 1/4.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

		Bric	lge Cul	vert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	): 2905	, Rise (mm): 3203, Type: SPE)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		3	3	Outlet above streambed.
Baffle		Х	Х	
(Type:)		1		
Waterway Adequacy	T	8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No		1	
Barrel General Rating		6	6	
				eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)	1		
Direction		N		West pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		Х	X	
Wingwalls		X	X	
(Shape: )				
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	200			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	1000			
Scour Protection		N	4	
(Type: RIP RAP)				
(Avg. Rock Size(mm) : 300)			1	
Scour/Erosion		N	4	15m x 10m x 1m scour hole.
Beavers (Y/N)	No			
Downstream End General Ratio	ng	4	4	
			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		S		East pipe.
End Treatment (Concrete, Steel, Others, None)	NONE		_	Not found. Likely submerged.
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape: )				
Cutoff Wall		X	X	

76798 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Bevel End		N	N	Under water.
Heaving (mm)	300			
Invert Above/Below Stream Bed BELOW				
Above/Below (mm)	300			
Scour Protection		N	N	
(Type: RIP RAP)				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		N	N	
Beavers (Y/N)	Yes			
Upstream End General Rating		6	6	G.R. carried forward since 16/Aug/2005 but element not rated in 2005 either.
				Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (ı	mm):	, Rise (mm): 915, Type: MP)
Barrel Last Accessible Date				Not possible to access 915 pipe. 300mm deep flow @ outlet. Viewed from d/s end, shape appears good.
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		4	4	Scaling rust lower 3/4.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

		Brio	dge Cu	Ivert Barrel
<b>Culvert Component</b>			Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN	l, Span (r	nm):	, Rise (mm): 915, Type: MP)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		4	4	Outlet above streambed.
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	
			ownet	ream End
Culvert Component				Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)	Last	11011	Explanation of condition
Direction	ury opanij	N		
End Treatment (Concrete, Steel,	STEEL	14		
Others, None)	01222			
Headwall		X	X	
Collar		Х	Х	
Wingwalls		X	Х	
(Shape: )				
Cutoff Wall		X	Х	
Bevel End		5	5	
Heaving (mm)	0			
	ABOVE			
Above/Below (mm)	900			
Scour Protection		5	5	Rock filled to invert, water tumbles down riprap to the streambed.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		5	5	Scour hole 500mm deep.
Beavers (Y/N)	No			
Downstream End General Ratio	ng	5	5	
		S	tructu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		N	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	DEGRADING			Downstream only. Large beaverdam @ u/s end.
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			

Structure Usage									
Last Now Explanation of Condition									
Channel General Rating	7	7							

			Maintananaa Da	~~~~							
Inspector Recommendations	Year	Inspector Con	Maintenance Re	commend	Department Con	mmonto			Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS	i eai	inspector Con	IIIIeiiis		Department Con	mmems	· · · · · · · · · · · · · · · · · · ·		Target Tear	ESI. COSI	Cat #
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											_
INSTALL CONCRETE/STEEL LINING	<u> </u>										
INSTALL STRUTS	,										
INSTALL CONCRETE COLLAR/CUTO	OFF										
REPAIR SEAMS											+
OTHER ACTION	2013	Repair guardra	ail posts.								
OTHER ACTION	2013		erdam from u/s end.								
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/N (%)	ow) 66.7/66	66.7/66.7 Sufficiency Rating (Laste		/Now) 50.1/50.0		Est. Repl. Yr 2047		2047	Maint. Re	eqd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments						
Maintenance Reviewed By					Date				Estimated Tota	ıl O	
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Shane Hall			Previous	Assistant's Name						
Next Inspection Date	17-Jul-2014			Previous	Inspection Date	2	24-Nov-2010				
Inspection Cycle (Default) (months)	21				,						
Comment											