					Brida	e Culve	art Insn	ection					
Bridge File Number 81511 S-1 Bridge Culvert				Billag	e Guive	ert Inspection Form Type			CUL1				
Year Built 1991		·				Lot No.		4					
Bridge or Town	Name		NA I AKE				Inspector Name		Wade Nanninga				
Located Over	rivanic	TRIBUTARY TO HOUSE RIVER, 8.11.47.1,						spector Name wade Namininga spector Class BR CLS A					
Locatoa Ovoi		WATER	CRS-ST		., 0.11	,	Assistant Name			DIT OLO /			
Located On		63:08 C1	9.529				Assistant Class						
Water Body Cl.	/Year						Inspection Date		14-Nov-2011				
Navigabil. Cl./Y	'ear				Data Entry By		Theresa Lacusta						
Legal Land Loc	cation	NW SEC	SEC 25 TMD 81 DGE 13 M/4M					Data Entry Date		23-Nov-2011			
Longitude, Lati	tude	-111:54:	11:54:07, 56:03:22					Reviewer Name		Eric Carcoux			
Road Authority		Alberta 7	herta Transportation (AIT)					Review Date		23-Nov-2011			
		CMA07	4007						Name	Brent Herrick			
Clear Roadway/Skew 13.4 /		13.4 /	1					Review Da		15-Dec-2011			
		3,640 / 2	010 (A)				Follow						
Road Classification RA		RAU-213	3.4-120					,					
Detour Length (km) 250													
Bridge Culver		ation											
Number of Culv		1		I				I		I			
Pipe #	Barrel	5	Span	Rise (or	Dia.)	Type		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		- 1800			СР		51.5			THICKIESS	ROUND	
Special Features			1000		Oi		01.0		l		IKOOND		
Special Feature		ment											
opoolar roatan	30 001111	TIOTIC											
					Uti	lities (L	ocated	at)					
Utility Attachme	ents												
Telephone	East r	ast r/w.					Gas						
Power	3 wire	e, 100m E.					Munici	oal					
Others					Proble	m (Y/N)	No						
Remarks													
				A		_	1	ankment					
							Explar	ation of	Condi	tion			
Horizontal Alignment			9	7	Crest vertical curves North & South.								
Vertical Alignment			7			Locate	d @ km 1	55.5					
Roadway Widtl	n (m)		13.400										
Toduway Width (III)		10.400											
Embankment					6	6							
Sideslope (:1)		3.0											
(Height of Co	ver(m)	5.1)											
Guardrail (Y/N)			No										
Approach Road / Embankment		of Conorel Bother		-									
Approach Roa	ia / Emi	oankmen	τ General Rat	ing	7	7							
						- U <u>pstre</u>	am End						
Culvert Component				Last Now		Explanation of Condition							
Direction				E			End piece is a plant fabricated unit connected to the end barrel section. Shape is square with bevelled edges.						
End Treatment Others, None)	(Concre	ete, Steel	CONCRETE				section	. Shape	is squa	are with bevelle	d edges.		
Headwall					Х	Х							
Collar					Х	Х					<u> </u>		

				eam End
Culvert Component		Last	Now	Explanation of Condition
Wingwalls		X	X	
(Shape : FLARE)				
Cutoff Wall		X	X	
Bevel End		7	7	Flared.
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	600			-
Scour Protection	1000	7	6	
(Type : RIP RAP)		'		
(Avg. Rock Size(mm) : 300)				-
Scour/Erosion		7	6	
Beavers (Y/N)	No			
			Ι.	
Upstream End General Rating		7	6	
		Bri	dge Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa			, Rise (mm): 1800, Type: CP)
Barrel Last Accessible Date	14-Nov-2011			Barrel filled 1/4 with ice.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	
Measured Rise (mm)	1800			
Measured At Ring No.				est due to ice
Sag (mm)	0			
Percent Sag				
Sidewall		7	7	
Measured Span (mm)	1840			1
Measured At Ring No.				
Deflection (mm)	40			
Percent Deflection	2			1
Floor		N	N	
Bulge (mm)	0			-
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	30			-
		X	Х	
Longitudinal Seams Total No. of Cracked Pings		٨		
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		X	X	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			e 2 of 5

		Brid	dge Cu	Ivert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	ı):	, Rise (mm): 1800, Type: CP)				
Camber POS/ZERO/NEG	ZERO							
Ponding (Y/N)	No							
Fish Passage Adequacy		6	6					
Baffle		N	N					
(Type:)								
Waterway Adequacy		6	6	(Iced up completely at outlet but not backed up at inlet - photos.				
Icing (Y/N)	No			96/02/08)				
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		7	7					
		D	ownst	ream End				
Culvert Component			Now	Explanation of Condition				
Direction		W						
End Treatment (Concrete, Steel, CONCRETE Others, None)		X						
Headwall			Х					
Collar			X					
Wingwalls		Х	X					
(Shape : FLARE)								
Cutoff Wall			X					
Bevel End		7	7					
Heaving (mm)	0							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	500							
Scour Protection		7	6					
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 300)		7						
Scour/Erosion			6					
Beavers (Y/N) No								
Downstream End General Rating			6					
		5	Structu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment		8	8					
Bank Stability		8	8					
HWM (m below Top of Culvert)				HWM not visible.				
Drift (Y/N)	No							
Channel Bottom Degrading/Aggrading	NONE							
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2								

Structure Usage							
Last Now Explanation of Condition							
Channel General Rating	8	8					

81511 S-1 Bridge Culvert

		Maintenance	Recommendations					
Inspector Recommendations	Year	Inspector Comments		Department Comments				Cat #
SHOTCRETE REPAIRS						Target Year	Est. Cost	
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION								
INSTALL CONCRETE/STEEL LINING								
INSTALL STRUTS								
INSTALL CONCRETE COLLAR/CUTO	OFF							
REPAIR SEAMS								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/No. (%)	ow) 77.8/77	Sufficiency Rating (La (%)	st/Now) 71.5/69.3	Est. Repl. Yr	2042	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection			Department Comments					
Maintenance Reviewed By			Date		E	stimated Tota	1 0	
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								
Proposed Action								
					s Assistant's Name			
Previous Inspector's Name	Wade Nanning	a	Previous Assistant's Name	e				
Previous Inspector's Name Next Inspection Date	_	a	Previous Assistant's Name	10-Mar-20	10			
Next Inspection Date	Wade Nanning 14-Aug-2013 21	a			10			