Bridge Inspection & Maintenance System (Web 2005)

E						e Culve	ert Inspe	ection		1					
Bridge File Number 74218 -1 Bridge Culvert							Form T	уре							
Year Built	Year Built 1954						Lot No.			1					
Bridge or Town	Bridge or Town Name RIMBEY						Inspect	or Name		Owen Salava					
Located Over	-	TRIBU	TARY TO BLINE	DMAN RI\ ST	/ER,		Inspect	pector Class BR CLS A							
Located On		20·04 (1 18 585	01			Assista	int Name							
Water Body CL	Year	20.04 0	71 10.000				Assista	int Class							
Navigabil CL/Y	ear						Inspect	tion Date		10-Jul-2012					
Legal Land Loc	ation I		C 10 TWP 42 R	GE 2 W5N	Л		Data E	ntry By		Marcia Chavez					
Longitude, Latit	ude -	-114:12	2:09. 52:36:21	022110	•••		Data E	ta Entry Date 01-Aug-2012							
Road Authority		Alberta	Transportation	(AIT)			Review Date 31_Iul-2012								
Contract Main.	Area (CMA18	}	(/ /)			Review	Review Date 31-Jul-2012							
Clear Roadway	/Skew [/]	12.2 /					Dept. F	keviewer	Name	02-Δug-2012					
AADT/Year	2011 (A)				Dept. Review Date			02-Aug-2012							
Road Classification RAU-21			11.8-110				Follow-	ор ву							
Detour Length ((km) ŕ	10					-								
Bridge Culvert	Informa	ation													
Number of Culv	rerts		2												
Pipe #	Barrel		Span	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape				
1	MAIN	J - 181			810 SP		32.9		152X51	2.8	ROUND				
2	MAIN -			1810	1810 \$		32.9			152X51	2.8	ROUND			
Special Features															
Special Features Comment															
					1 14	ilitioo /l		at)							
Utility Attachments					01	indes (L	_ocaleu	al)							
Telephone		o West					Gas								
Power		0 11031	•				Municir	l							
Others						Probler	m (Y/N)	No							
Remarks RR tracks approx 50m East.						1.100101									
A				proa	ch Road	d / Emba	ankment								
					Last	Now	Explan	ation of	Condi	tion					
Horizontal Alignment					8	8									
Vertical Alignment				8	8										
Roadway Width (m)			12.200												
Embankment					7	7	4:1 then 2:1 over pipes.								
Sideslope (:1)		3.0												
(Height of Cov	ver(m) : 2	2.4)													
Guardrail (Y/N)			Yes												
Approach Roa	d / Emba	ankme	nt General Rat	ing	7	7									
						Upstre	am End								
Culvert Compo	onent				Last	Now	Explan	ation of	Condi	tion					
(Pipe # : 1, Spa	an Type:	: Prima	ary Span)												
Direction					E		South p	oipe.							
End Treatment Others, None)	(Concret	te, Stee	el, STEEL												
Headwall					Х	Х									
Collar					Х	Х									
Wingwalls					Х	X									
(Shape :)															

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	y Span)			
Cutoff Wall		X	X	
Bevel End		5	5	
Heaving (mm)	150			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		N	4	Insufficient rock at banks at bevel.
(Type : NONE)		I		Small 100mm rock in SB. Undermining @ bevel. Eroded banks.
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	4	
Beavers (Y/N)	No			
			4	
Upstream End General Rating		3	4	
Culvert Company		Brid	dge Cu	Ivert Barrel
(Dino # 1 1 Drimony Oracle	tion Onder MAINL C		NOW	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S	span (mm	ı):	, KISE (MM): 1810, Type: SP)
Barrel Last Accessible Date	10-Jul-2012			South pipe.
Special Features				
Special Feature				-
(Type:)			_	-
Special Feature				-
(Type:)			_	
Roof	1	N	3	Cracks @ circumferential seams @ roof; worst at R7/8 seam.
Measured Rise (mm)	1750			
Measured At Ring No.	5			3.3%
Sag (mm)	60			-
Percent Sag	3		-	
Sidewall	1	N	5	-
Measured Span (mm)	1860			-
Measured At Ring No.	8			-
Deflection (mm)	50			2.8%
Percent Deflection	3			
Floor		N	N	Water/silt.
Bulge (mm)				-
Measured At Ring No.				-
Abrasion (Y/N)	No		_	
Circumferential Seams	1	N	3	130mm longit. crack at roof bolt at circumferential seam at R7/8
Separation (mm)	0			R3/4,4/5,5/6,7/8 also cracked.
Longitudinal Seams		N	N	(100mm long at R4-7 and 50mm long at R9.
Total No. of Cracked Rings	0			Lower longit. seams under ice. 21Mar2006).
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			1
Longitudinal Stagger (Y/N)	Yes			1
Coating		4	4	Corrosion at bolts.
Corrosion By Soil (Y/N)	Yes			1
Corrosion By Water (Y/N)	Yes			1

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74218 -1 Bridge Culvert

		Bric	dge Cu	vert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 1810, Type: SP)
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	4	Outlet perched 0.3m.
Baffle		Х	Х	
(Туре :)			-	
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No		-	0.4m siit in d/s third.
Barrel General Rating		4	3	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Direction		W		Extension to D/S end installed Oct/88. South pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		Х	X	
Wingwalls		Х	X	
(Shape :)				
Cutoff Wall		Х	X	
Bevel End		5	5	Perched 0.3m.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200		1	
Scour Protection		N	4	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)			1	
Scour/Erosion		N	4	
Beavers (Y/N)	No			
Downstream End General Ration	ng	5	4	
			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		E		North pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL		-	
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape :)				
Cutoff Wall		Х	X	

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Bevel End		5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		N	5	
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	5	
Beavers (Y/N)	No			
Unstream End General Rating		3	5	
		Bri	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN,	Span (ı	mm):	, Rise (mm): 1810, Type: SP)
Barrel Last Accessible Date	10-Jul-2012			North pipe.
Special Features				
				-
				-
(Type:)			1	
Roof	1	N	4	Cracks @ circumferential seams @ roof, 140mm long at R5/6 seam.
Measured Rise (mm)	1700			-
Measured At Ring No.	6			6.1%
Sag (mm)	110			-
Percent Sag	6			
Sidewall		N	5	-
Measured Span (mm)	1898			-
Measured At Ring No.	6			-
Deflection (mm)	88			4.8%
Percent Deflection	5			
Floor		N	N	Water.
Bulge (mm)	0			_
Measured At Ring No.				-
Abrasion (Y/N)	No			
Circumferential Seams		N	4	140mm longit.l crack at roof bolt at circumferential seam at R5/6
Separation (mm)	0			Cracks at R3/4,4/5,5/6,6/7,7/8.
Longitudinal Seams		N	N	(100mm long at R4-7 and 50mm long at R9.1 ower long, seams
Total No. of Cracked Rings	0			under ice. 21-Mar-2006).
Total No. of Rings with Two	-			1
Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		4	4	Corrosion at bolts.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

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		Brid	Bridge Culvert Barrel						
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1810, Type: SP)					
Ponding (Y/N)	No								
Fish Passage Adequacy		7	5						
Baffle		X	Х						
(Туре :)									
Waterway Adequacy		5	5						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		4	4						
		D	ownsti	ream End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	lary Span)								
Direction		W		North pipe.					
End Treatment (Concrete, Steel, Others, None)	STEEL		_						
Headwall		Х	X						
Collar		X	X						
Wingwalls	Wingwalls								
(Shape :)									
Cutoff Wall		Х	X						
Bevel End		5	5						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW			_					
Above/Below (mm)	200								
Scour Protection		N	4	-					
(Type : NATURAL)				-					
(Avg. Rock Size(mm) :)									
Scour/Erosion		N	4	Minor erosion at SW shoulder.					
Beavers (Y/N)	No								
Downstream End General Ration	ng	5	4						
		S	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)			-						
Alignment		5	5	Curve on West side.					
Bank Stability		5	5	Steep banks u/s & d/s.					
HWM (m below Top of Culvert)				HWM not visible.					
Drift (Y/N)	Yes								
Channel Bottom Degrading/Aggrading	AGGRADING			-					
Beavers (Y/N)	Yes								
(Fish Compensation Measure 1 :	NONE)			-					
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		5	5						

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Bridge Inspection & Maintenance System (Web 2005)

Inspector Recommendations	Vear	Inspecto	Walintenance Necolili r Comments	nengations Denartment Com	ments		ardet Vear	Fet Cost	Cat #
SHOTCRETE REPAIRS	5						200		50
PLACE ADDITIONAL RIP RAP	2012	CL1, 20r	n3 aroudn inlets & outlets.						
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING									
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTOFF									
REPAIR SEAMS									
OTHER ACTION	2012	Drill ends	s of circ. seam cracks.						
OTHER ACTION									
OTHER ACTION									
OTHER ACTION	_								
Structural Condition Rating (Last/Now) (%)	44.4/33	1.3	Sufficiency Rating (Last/Now) (%)	42.6/31.2	Est. Repl. Yr	2019	Maint. Rec	, (N/Л) .bp	Yes
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		Est	imated Total	0	
Proposed Long-Term Strategy 20 ne	04.05.30 Mo cessary.	onitor small	roof cracks on normal bim. Culve	rt should be okay until 2	2014. Consider weld	ling small c	racks at bolt	holes in roof	if
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	ven Salava		Prev	ious Assistant's Name					
Next Inspection Date 10	-Apr-2014		Prev	ious Inspection Date	08-Dec-2010				
Inspection Cycle (Default) (months) 21									
Comment									

			Maintenance Re	commen	dations						
Inspector Recommendations	<u> </u>	Year	Inspector Comments		Department C	Commer		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP	2	2012	CL1, 20m3 aroudn inlets & outlets.		Defer until rep	laceme		2019			
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING	G										
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUT	OFF										
REPAIR SEAMS											
OTHER ACTION	2	2012	Drill ends of circ. seam cracks.		Programmed						
OTHER ACTION											
OTHER ACTION											_
OTHER ACTION											
Structural Condition Rating (Last/N (%)	low)	44.4/33.3 Sufficiency Rating (Las (%)		Now)	42.6/31.2 Est.		t. Repl. Yr	2019	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments	Replac	cement progra	immed foi	r 2019		
Maintenance Reviewed By	Andrew	/ Smikles	es		Date	30-No\	/-2012	E	Estimated Tota	ıl 0	
Proposed Long-Term Strategy 2004 nece		5.30 Moi ary.	onitor small roof cracks on normal bim	. Culvert s	should be okay	until 20 [.]	14. Consider v	welding si	mall cracks at	bolt holes in	roof if
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Owen S	Salava		Previous	Previous Assistant's Name						
Next Inspection Date	10-Apr-:	2014		Previous	s Inspection Date 08-Dec-2010						
Inspection Cycle (Default) (months)	21										
Comment											