					Bridg	e Culve	ert Insp	ection					
Bridge File Nur	nber	74367 -	1 Bridge Culve	rt			Form Type		CULM				
Year Built		1955					Lot No	Lot No.		1			
Bridge or Town	Name	ROCKY	RAPIDS				Inspec	Inspector Name		Wade Nanninga			
Located Over		TRIBUT	ARY TO NOR		ATCHI	EWAN	· ·	tor Class		BR CLS A			
			6.137, WATER	CRS-S1			Assistant Name						
Located On	. .	22:30 C	1 23.386				Assistant Class						
Water Body Cl.							Inspection Date		18-Oct-2011				
Navigabil. Cl./Y							Data Entry By		Theresa Lacusta				
Legal Land Loc							Data Entry Date		26-Oct-2011				
							Reviewer Name		Eric Carcoux				
			Transportation	(AIT)			Review Date		25-Oct-2011				
Contract Main.		CMA11					Dept. F	Reviewer	Name	Brent Herrick			
Clear Roadway	//Skew		7 deg. (LHF)				Dept. F	Review Da	ate	14-Nov-2011			
AADT/Year		4,450 / 2	. ,				Follow	-Up By					
Road Classifica		RAU-21	1.8-110										
Detour Length	` '	3											
Bridge Culvert													
Number of Culv			2					1		l			
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape	
1	MAIN	:	2314	2552		SPE		41.5		152X51	3.0	ELLIPSE	
2	MAIN			1200		MP		41.5		68X13	2.8	ROUND	
Special Feature	es												
Special Feature	es Comi	ment											
·													
					Uti	ilities (L	ocated	at)					
Utility Attachments									1				
Telephone	West				Gas		Pipelii	ne crossing 100	Om South.				
Power		es East r/\ South.	w 30m from c/l	& 2 wires	OH cı	rossing	Municipal Problem (Y/N) No						
Others	File ta	ag @ Wes	st end.										
Remarks				Α.		-l- Dage	l / Emb						
				А	Last	Now		ankmeni estion of		tion			
Horizontal Align	nmont				7	7	•						
					6	6	No passing to South li						
Vertical Alignm Roadway Width			11.200		0	0							
Embankment					5	5	Sloughed over U/S end 5:1 at top half of embar			nd of 1200 pipe but stable.			
Sideslope (2.0							inkment.			
(Height of Co		3)											
Guardrail (Y/N)			No										
Approach Roa	id / Eml	bankmen	nt General Rat	General Rating 6		6							
						Upstre	am End						
Culvert Compo	onent				Last			ation of	Condi	tion			
(Pipe # : 1, Sp		e: Primai	ry Span)										
Direction					W		South pipe.						
End Treatment Others, None)	(Concre	ete, Steel	I, STEEL					-					
Headwall					Х	Х							
Collar					Х	X							

			Llmotro	eam End
Culvert Component				Explanation of Condition
•	(Snan)	Last	NOW	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		X	X	
Bevel End		5	5	Pitting rust on floor.
Heaving (mm)	400			_ · · · · · · · · · · · · · · · · · · ·
Invert Above/Below Stream Bed				
Above/Below (mm)	100			
Scour Protection	1.00	5	4	Fill settled next to pipe 500mm.
(Type : RIP RAP)				This could now to pipe coomini.
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		5	4	
Scour Liosion			7	
Beavers (Y/N)	Yes			30m upstream. Old beaver dam in front of inlet.
Upstream End General Rating		5	4	
		D.::	dero Cu	short Parral
Culvert Component			Now	Ilvert Barrel Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN Sr			
Barrel Last Accessible Date	18-Oct-2011	Jan (IIIII	1). 231-	
Dairei Last Accessible Date	10-001-2011			600mm water in pipe
Special Features	•			
Special Feature				
(Type:)			_	
Special Feature				
(Type:)		<u> </u>		
Roof		N	6	Minor dent @ D/S crown.
Measured Rise (mm)	2455			
Measured At Ring No.	11			
Sag (mm)	97			
Percent Sag	4			
Sidewall		3	3	2 rings cracked.
Measured Span (mm)	2430			2 migo ordened.
Measured At Ring No.	11			
Deflection (mm)	116			
Percent Deflection	5			
	J	N.I.		Ditting rust on floor whore visible
Floor	0	N	4	Pitting rust on floor where visible.
Bulge (mm) Maggured At Bing No.	0			
Measured At Ring No.	No			-
Abrasion (Y/N)	No			
Circumferential Seams		N	6	
Separation (mm)	0			
Longitudinal Seams		3	3	R10 at 9:00 and R11 at 3:00 with R11 having 81mm of steel between cracks.
Total No. of Cracked Rings 2				- Ordenes
Total No. of Rings with Two Cracked Seams				1N
Min. Remaining Steel Between Cracks (mm)	81			
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			

		Bric	ge Cul	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	<u>n (mm</u>)): 2314	, Rise (mm): 2552, Type: SPE)
Coating		N	4	Pitting rust lower half.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		4	4	Heaved bevel. Drift caught on bevel and beaver dam blocking inlet.
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		3	3	Error on previous inspection. G.R. corrected.
		D	ownstr	ream End
Culvert Component				Explanation of Condition
	/ Span)			
	•	E		South pipe.
	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		5	5	Pitting rust on lower half.
Heaving (mm)	200			Fill settled along bevel, 500mm.
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	200			
Scour Protection		5	4	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		5	4	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	5	4	
			Upstre:	am End
Culvert Component				Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		W		North pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
(Pipe # : 1, Span Type: Primary Span)		Х	Х	
Collar		Х	Х	

			Upstre	ream End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	ary Span)							
Wingwalls		X	X					
(Shape:)								
Cutoff Wall		X	X					
Bevel End			5	Minor bend on South side.				
Heaving (mm) 100								
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	100							
Scour Protection		5	5					
(Type: RIP RAP)								
(Avg. Rock Size(mm) : 200)								
Scour/Erosion		5	5					
Beavers (Y/N)	Yes			Beaver dam at inlet.				
Upstream End General Rating		5	5					
		Brid	dae Cu	Ilvert Barrel				
Culvert Component		Last	Now	paver dam at inlet. To Barrel Explanation of Condition Paire (mm): 1200, Type: MP) Poe inaccessible, running half full. Viewed from ends, shape looks or shape.				
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (ı	mm):	· · ·				
Barrel Last Accessible Date				Pipe inaccessible, running half full. Viewed from ends, shape looks poor shape.				
Special Features								
Special Feature								
(Type:)								
Special Feature								
(Type:)								
Roof		N	4					
Measured Rise (mm)								
Measured At Ring No.								
Sag (mm)				est				
Percent Sag	8							
Sidewall		N	4					
Measured Span (mm)								
Measured At Ring No.								
Deflection (mm)				est				
Percent Deflection	8							
Floor		N	N					
Bulge (mm)								
Measured At Ring No.								
Abrasion (Y/N)								
Circumferential Seams		N	4					
Separation (mm)	100			est				
Longitudinal Seams		X	X					
Total No. of Cracked Rings								
Total No. of Rings with Two Cracked Seams								
Min. Remaining Steel Between Cracks (mm)								
Proper Lap (Y/N)				1				
Longitudinal Stagger (Y/N)								

		Brio	Ivert Barrel	
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (n	nm):	, Rise (mm): 1200, Type: MP)
Coating		4	4	Pitting rust along floor.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	4	
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		E		North pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		X	X	
Bevel End		5	4	Perforation in sidewall
Heaving (mm)	150			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		5	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	5	4	
		S	tructu	re Usage
		1	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	Bend D/S of the pipes.
Bank Stability		7	7	
HWM (m below Top of Culvert)				No HWM visible.
Drift (Y/N)	Yes			

Structure Usage								
		Last	Now	Explanation of Condition				
Channel Bottom Degrading/Aggrading	AGGRADING							
Beavers (Y/N) Yes								
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		6	6					

			Maintenance	Recommen	dations					
Inspector Recommendations	Year	Inspect	tor Comments		Department Com	nments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION		Assess	for repair or replacement							
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	low) 33.3	/33.3	Sufficiency Rating (Last/N (%)		39.4/37.6	Est. Repl. Yr	st. Repl. Yr 2017		qd. (Y/N)	No
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	Estimated Tota	1 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Kris Bosters	;		Previous	Assistant's Name	Sara Wadlow				
Next Inspection Date	18-Jul-2013			Previous	Inspection Date	05-Nov-2009				
Inspection Cycle (Default) (months)	21									
Comment										