79444 -1 Bridge Culvert

					Brida	je Culve	ert Insn	ection				
Bridge File Number 79444 -1 Bridge Cu							Form Type		CUL1			
Year Built 1988			Drago Garrent			Lot No.		4				
Bridge or Town Name FORT MA			ACKAY			Inspector Name		Wade Nanninga				
Located Over TRIBUTAR							Inspector Class		BR CLS A			
		8.11.24,	VATERCRS-ST				Assistant Name		BIX 3237X			
Located On	12.266				Assistant Class							
Water Body Cl.					Inspection Date		15-Nov-2011					
Navigabil. Cl./Year							Data Entry By		Theresa Lacusta			
			17 TMD 05 DCE 10 M/M				Data Entry Date		23-Nov-2011			
Longitude, Latitude -111:35:54		54, 57:14:40				Reviewer Name		Eric Carcoux				
Road Authority Alberta Tra		ransportation (AIT)				Review Date		23-Nov-2011				
Contract Main. Area CMA07		-				Dept. Reviewer Name						
Clear Roadway	//Skew	18.2 / 29	dog (DUE)				Dept. Review Date		15-Dec-2011			
AADT/Year		6,370 / 2	010 (A)	• •				Follow-Up By				
Road Classifica	ation	RAU-211	.8-110	` ,				I dilow-op by				
Detour Length	· /	999										
Bridge Culver		nation										
Number of Cul	verts	1										
Pipe #	Barrel	S	Span	Rise (or Dia.)		Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	- 2120			SP		54.9		152X51	3.0	ROUND
1	D/S	-		2120		SP		18.9		152X51	3.0	ROUND
Special Feature	es											
Special Feature	es Comi	ment										
					Uti	ilities (L	ocated	at)				
Utility Attachme						_						
Telephone	West r/w.						Gas		East r	/W		
Power 3 wires OH East r/w.							Municipal Problem (Y/N) No					
Others					Problem (Y/N) No							
Remarks				۸۰	oproo	oh Boo	d / Emb	ankment				
A						Now			Condi	tion		
Horizontal Alignment					Last 7	7	Explanation of Condition Curve to east & crest to west limiting sight distances.					
Vertical Alignment				7	7							
Roadway Width (m)		13.200										
Embankment					7	7						
Sideslope (3.0									
(Height of Co		2.8)										
Guardrail (Y/N)	Guardrail (Y/N)		No									
Approach Roa	ad / Eml	bankmen	General Rat	ing	7	7						
						Upstre	am End					
Culvert Component			Last	Now	Explar	ation of	Condi	tion				
Direction				E								
End Treatment (Concrete, Steel, Others, None)			STEEL									
Headwall				Х	X							
Collar			Х	X								
Wingwalls				Х	X							
(Shape :)												

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			Unetro	am End				
Culvert Component		Last	Now	Explanation of Condition				
Cutoff Wall	<u>I</u>	X	X	Explanation of condition				
Bevel End		7	7	Steel control gate 16m u/s.				
Heaving (mm)	300							
Invert Above/Below Stream Bed	ABOVE							
Above/Below (mm)	100							
Scour Protection		7	4	Possible piping under bevel-not much rock visible.				
(Type: RIP RAP, GEOTEXTIL	E)							
(Avg. Rock Size(mm) : 250)			_					
Scour/Erosion		7	4					
Beavers (Y/N)	No							
Upstream End General Rating		7	4					
		Brid	dae Cu	lvert Barrel				
Culvert Component			Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,			, Rise (mm): 2120, Type: SP)				
Barrel Last Accessible Date	08-Mar-2010			Only accessible to R8 due to depth of water.				
Special Features								
Special Feature								
(Type:)								
Special Feature								
(Type:)		'						
Roof		5	4	2 holes (100 x 100, 100 x 300) .				
Measured Rise (mm)	1940			From construction damage near U/S end. No sign of loss of backfill.				
Measured At Ring No.	2							
Sag (mm)	180							
Percent Sag	9							
Sidewall		7	6	Extensive staining and leakage through bolt holes in first 7 rings.				
Measured Span (mm)	2220							
Measured At Ring No.	2							
Deflection (mm)	100							
Percent Deflection	5							
Floor	<u> </u>	N	N					
Bulge (mm)	0	IV	1.4	1.0m drop in first 2 rings.				
Measured At Ring No.				Gravel and dirt on floor.				
Abrasion (Y/N)	Yes							
Circumferential Seams	. 00	7	7					
Separation (mm)	0		'	-				
Longitudinal Seams	U	7	7					
Total No. of Cracked Rings	0	,						
Total No. of Rings with Two	U							
Cracked Seams				1N stagger				
Min. Remaining Steel Between Cracks (mm)								
Proper Lap (Y/N)	Yes							
Longitudinal Stagger (Y/N)	Yes							
Coating		5	5	Extensive rust along lower sidewall.				
Corrosion By Soil (Y/N)	Yes			No pitting noticed.				
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG	NEG							

		Bric	ige Cu	lvert Barrel				
Culvert Component L			Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 2120, Type: SP)				
Ponding (Y/N)	No							
Fish Passage Adequacy		4	4	D/S end above streambed.				
Baffle		Х	Х					
(Type:)								
Waterway Adequacy		6	6					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		5	4					
		D	ownstr	ream End				
Culvert Component		Last	Now	Explanation of Condition				
Direction		W						
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall		Х	Х					
Collar		Х	Х					
Wingwalls		Х	Х					
(Shape :)								
Cutoff Wall		Х	X					
Bevel End		7	7					
Heaving (mm)	0							
Invert Above/Below Stream Bed	ABOVE							
Above/Below (mm)	750							
Scour Protection		6	6					
(Type : RIP RAP, GEOTEXTIL	E)							
(Avg. Rock Size(mm) : 450)		1	1					
Scour/Erosion		6	6					
Beavers (Y/N) No								
Downstream End General Ratio	ng	6	6					
		S	tructu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment		7	7					
Bank Stability		7	7					
HWM (m below Top of Culvert)				HWM not visible.				
Drift (Y/N)	No							
Channel Bottom Degrading/Aggrading								
Beavers (Y/N) No								
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating			7					

				Mainten	ance Recomme	ndations					
Inspector Recomm	Year	Year Inspector Comments			Department Con	Target Year	Est. Cost	Cat #			
SHOTCRETE REP											
PLACE ADDITION											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING		i									
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTOFF		OFF									
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Conditi (%)	ow) 55.6/4	1.4	Sufficiency Rating (%)	g (Last/Now)	52.4/43.3	Est. Repl. Yr	2035	Maint. Re	qd. (Y/N)	No	
Special I Comments for Next Inspection	Monitor heaving at	R1,2 and u/s , s	cour under	bevel.		Department Comments					
Maintenance Revie	ewed By				Date			Estimated Tota	1 0		
Proposed Long-Te	rm Strategy										
On 3-Year Program	n (Y/N)										
Proposed Action											
Previous Inspector's Name		Wade Nanninga P				vious Assistant's Name					
Next Inspection Da	te	15-Aug-2013			Previou	vious Inspection Date 08-Mar-2010					
Inspection Cycle (D	Default) (months)	21				·					
Comment											