Bridge Culvert Inspection													
Bridge File Number 01510 -1 Bridge Culvert			rt			Form Type		CUL1					
Year Built/Lined 1965/199			990				Lot No.			2			
Bridge or Town Name MARWA		AYNE				Inspector Name			Jason Saly				
Located Over STRETTO		TON CREEK, 6.5.6, WATERCRS-				Inspector Class			BR CLS A				
Located On 897:04 C		C1 12.210				Assistant Name							
Water Body CI./	Year						Assistant Class						
Navigabil. CI./Ye	ear						Inspection Date			29-Nov-2012			
Legal Land Loca	ation	SW SEC	36 TWP 51 RGE 3 W4M				Data Entry By			Marcia Chavez			
Longitude Latitude -110:19:3		31. 53:26:33		Data Entry Date			01-Mar-2013						
Road Authority Alberta Tr			Transportation		Reviewer	Name		John O'Brien					
Contract Main. Area CMA15			<b>·</b>		Review Date			25-Feb-2013					
Clear Roadway/Skew 10.3 / -45			5 dea. (LHF)		Dept. Reviewer Name			Chris Black					
AADT/Year 2.570 / 20			2011 (A)				Dept. Review Date			14-Mar-2013			
Road Classificat	tion I	RCU-20	9-110				Follow-Up By						
Detour Length (	km) ;	3											
Bridge Culvert Information													
Number of Culverts 1													
Pipe #	Barrel	5	Span	Rise (or Dia.)		Туре	Le	Length		Corr. Profile	PI./Slab Thickness	Shape	
2	MAIN FU	ULL -	-	2700	2700		49.4			125X26	2.8,2.8,2.8	ROUND	
Special Feature	<u>e</u>												
Special Feature	s Comm	nent											
opecial i catalo	0 001111												
	Utilities (Located at)												
Utility Attachme	nts												
Telephone	Along \	West dite	ch.				Gas						
Power	3 wires road ar	s OH 25.0m East of c/l. 2 wire cro				c/l of	Municipal Problem ()	Y/N)	No				
Others WSC gauge 12.0m West of West end.													
Remarks													
	oproac	h Road	d / Embank	kment									
					Last	Now	Explanation of Condition						
Horizontal Alignment				8	8	distance to North.							
Roadway Width	ent (m)		10.300		6	6							
Embankment					7	N	Show coverea, but no signs of problems.						
Sideslope (	:1)		3.0				-						
(Height of Cov	/er(m) : 2	2.5)											
Guardrail (Y/N)			No										
Approach Road	d / Emb	ankmen	nt General Rat	ing	6	6							
						Upstre	am End						
Culvert Component				Last	Now	Explanation	on of (	Condit	ion				
Direction			E		-								
End Treatment (Concrete, Steel, CONCRETE Others, None)													
Headwall				3	Concrete on top of pipe is broken & slid off pipe.								
Collar				3	Concrete not attached to bevel.								
Wingwalls					Х								
(Shape : )													
Cutoff Wall						N							

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Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End			4	Accident damage to S side of bevel; ~300mm deflection inwards.						
Heaving (mm)	200			Dislodged concrete from bevel.						
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm)	100									
Scour Protection		N		Snow covered.						
(Туре : )										
(Avg. Rock Size(mm) : )										
Scour/Erosion			N	Snow covered.						
Beavers (Y/N)	No		<u> </u>							
Upstream End General Rating	I		3							
		Brie	lae Cu	Ivert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Primary Span. Locat	tion Code: MAIN. Spa	n (mm)	):	, Rise (mm): 2700, Type: MP)						
Barrel Last Accessible Date	29-Nov-2012									
Special Features										
Special Feature										
(Type:)			1							
Special Feature										
(Туре : )										
Roof			8	Could not measure rise due to ice.						
Measured Rise (mm)				Grout btwn original pipe & liner; grout ports in roof.						
Measured At Ring No.										
Sag (mm)				=======================================						
Percent Sag 1										
Sidewall			8	Span at E end=2714=14mm						
Measured Span (mm) 2715				Span at Midpipe=2715=15mm=0.5% Span at W end=2686=14mm						
Measured At Ring No.				0.5%						
Deflection (mm)	15									
Percent Deflection	1									
Floor			7	(Excess concrete level out over floor, R3. 26Jan2010) - Partially						
Bulge (mm)				covered by ice.						
Measured At Ring No.										
Abrasion (Y/N)										
Circumferential Seams			8	Seams welded.						
Separation (mm)										
Longitudinal Seams			X							
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			5	Numerous welds left uncoated.						
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N)	No									

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Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel										
Culvert Component		Last Now		Explanation of Condition						
(Pipe # : 2, Primary Span, Loca	tion Code: MAIN, Spa	an (mm):		, Rise (mm): 2700, Type: MP)						
Fish Passage Adequacy			4	(D/S en perched; no flow. 26Jan2010). Rating maintained due to previous comments.						
Baffle			Х							
(Туре : )										
Waterway Adequacy		4		(Due to d/s scour. 26Jan2010).						
Icing (Y/N)	Icing (Y/N)									
Silting (Y/N)										
Drift (Y/N)										
Barrel General Rating			8							
		D	ownstr	ream End						
Culvert Component		Last Now		Explanation of Condition						
Direction	I	W		1						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall			X							
Collar			X							
Wingwalls			X							
(Shape : )										
Cutoff Wall			X							
Bevel End			5							
Heaving (mm)										
Invert Above/Below Stream Bed				_						
Above/Below (mm)										
Scour Protection			N	(Some large rock, 1.0m. 07Sep2006).						
(Type : <b>RIP RAP</b> )				-						
(Avg. Rock Size(mm) : <b>400</b> )		1								
Scour/Erosion			3	Material around bevel has eroded away.						
Beavers (Y/N)										
Downstream End General Ratin	ng		3							
		S	Structu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment		7	7							
Bank Stability			7							
HWM (m below Top of Culvert)				HWM not visible.						
Drift (Y/N)	No									
Channel Bottom DEGRADING Degrading/Aggrading										
Beavers (Y/N) No										
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		7	7							

Maintenance Recommendations												
Inspector Recommendations		Y	'ear	Inspector Comments			Department Comments			Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP			013	10m3 Cla	ass II @ D/S.							
REMOVE DRIFT	ACCUMULATION											
INSTALL CONCR	ETE/STEEL LINING											
INSTALL STRUTS	INSTALL STRUTS											
INSTALL CONCR	INSTALL CONCRETE COLLAR/CUTOFF											
REPAIR SEAMS	REPAIR SEAMS											
OTHER ACTION		20	013	Jack out the dent on the inlet. Restore caround bevel.								
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)			8.9/88.9	88.9 Sufficiency Rating (Last/ (%)		Now) 5	56.9/56.6	Est. Repl. Yr	2040	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection (Monitor d/s erosion. 26Jan2010).							Department Comments					
Maintenance Reviewed By							Date		E	Estimated Total	0	
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name Owe		Owen Salava F				Previous /	ous Assistant's Name					
Next Inspection Date 29		29-Feb-2016			Previous I	ious Inspection Date 26-Jan-2010						
Inspection Cycle (Default) (months) 39		39										
Comment												