Bridge Culvert Inspection														
Bridge File Num							Form Type		CUL1					
Bridge File Number 13779 -1 Bridge Culvert Year Built 1999 Bridge or Town Name GRIMSHAW Located Over 2ND ORDER TRIBUTARY TO STRO CREEK, 8.10.59.1.1, WATERCRS-ST Located On 2A:36 C1 8.336 Water Body CI./Year Navigabil. CI./Year Legal Land Location NE SEC 16 TWP 83 RGE 23 W5M Longitude, Latitude -117:33:38, 56:12:06 Road Authority Alberta Transportation (AIT) Contract Main. Area CMA04 Clear Roadway/Skew 7.3 /							Lot No			2				
Pear Built Bridge or Town Name Coated Over CREEK, 8.10.59.1.1, WATERCE Located On Avigabil. Cl./Year Navigabil. Cl./Year Legal Land Location Longitude, Latitude Longitude, Latitude Contract Main. Area CMA04 Clear Roadway/Skew Clear Roadway/Skew T.3 / AADT/Year ADT/Year Bridge Culvert Information Number of Culverts Pipe # Barrel Span Rise (or MAIN AREA Special Features Special Features Cothers Remarks							Inspector Name			Brian Pientsch				
Year Built 1999 Bridge or Town Name GRIMSHA Located Over 2ND ORDI CREEK, 8. Located On 2A:36 C1 8 Water Body CI./Year Navigabil. CI./Year Legal Land Location NE SEC 16 Longitude, Latitude -117:33:38 Road Authority Alberta Tra Contract Main. Area CMA04 Clear Roadway/Skew 7.3 / AADT/Year 1,100 / 200 Road Classification RCU-208-7 Detour Length (km) 3 Bridge Culvert Information Number of Culverts 1 Pipe # Barrel Sp 1 MAIN 48 Special Features BA Special Features Comment Utility Attachments Telephone Power					1G	Inspector Class Assistant Name			BR CLS A					
Located On										Lisbeth Medin	a			
								ant Class						
·								tion Date		08-Feb-2010				
		NE SEC	16 TWP 83 R	GE 23 W	5M			ntry By		Theresa Lacu	sta			
								ntry Date		10-Mar-2010				
				(AIT)				ver Name	!	Arnold Assent	neimer			
				,			Reviev			09-Mar-2010				
										Steve Pasqua	n			
			2008 (A)					Review Da	ate	07-Apr-2010				
Road Classificat							Follow	-Up By						
Detour Length (I	km)	3												
		ation												
Number of Culve	erts		1											
Pipe #	Barrel		Span Rise (or		Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1 1	MAIN		4815	1650		SCA		10.7		380X140	3.4	ARCH		
Special Features	s	BARREL DEICING PIPE			<u> </u>									
Special Features	s Comm	nent												
					Uti	ilities (L	ocated	at)						
Utility Attachmer	nts							,						
							Gas							
·							Munici	pal						
								m (Y/N)	No					
Remarks								,						
Approach Road / Embankment														
					Last	Now	Explanation of Condition							
Horizontal Align	ment				7	6	No pas	ssing wes	tbound	l.(Aug 23, 2006)			
Vertical Alignme	ent				7	7	Sharp	rkings vis curve to E	East an	nd North.				
Roadway Width	(m)		6.600			-								
Embankment					7	7								
Sideslope (:	·1)		4.0			'								
(Height of Cov		0.5)	1.0											
Guardrail (Y/N) Yes			Yes				East hazard markers damaged. 2nd poorly connected to posts.							
(,					2 posts broken and poorly connected on SW guardrail.									
						3 posts broken on NE guardrail.								
Approach Road	d / Emb	ankmer	nt General Rati	ng	7	6	роск		····-	944.4.4.				
						Upstre	am End							
Culvert Compo	nent				Last	Now		nation of	Condi	tion				
Direction			N											
End Treatment (Others, None)	(Concre	te, Stee	I, CONCRETE											
Headwall					5	5	Wide o	racking o	n W ar	nd E end of hea	idwall.			
Collar					X	X								

13779 -1 Bridge Culvert

			Umates	on End					
Cultivant Campanana				eam End					
Culvert Component		Last 4	Now 4	Explanation of Condition Top plant 8 top of wingpile NE garner broken off					
Wingwalls		4	4	Top plank & top of wingpile NE corner broken off.					
(Shape:)		V	V						
Cutoff Wall		X	X						
Bevel End		X	Х						
Heaving (mm)	0								
Invert Above/Below Stream Bed									
Above/Below (mm)									
Scour Protection		6	6	Scour protection visible through snow.					
(Type : RIP RAP)		<u> </u>							
(Avg. Rock Size (mm) : 500)									
Scour/Erosion		6	6						
Beavers (Y/N)	No								
Upstream End General Rating		5	4						
			dae G	Nort Powel					
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN S			· · ·					
Barrel Last Accessible Date		pan (IIIII	1). 4013	, Rise (IIIII). 1030, Type. 3CA)					
Barrei Last Accessible Date	08-Feb-2010								
Special Features									
Special Feature		8	7						
(Type: BARREL DEICING PIF	PE)								
Special Feature									
(Type:)									
Roof		N	7	Floor covered with ice.					
Measured Rise (mm)				Corrosion though bolts.					
Measured At Ring No.									
Sag (mm)	0								
Percent Sag									
Sidewall		N	6	at c/l.					
Measured Span (mm)	4708								
Measured At Ring No.									
Deflection (mm)	107								
Percent Deflection	2			deflection inward.					
Floor		N	N	Covered with ice.					
Bulge (mm)									
Measured At Ring No.									
Abrasion (Y/N)	No								
Circumferential Seams		N	5	Superficial rust through bolts.					
Separation (mm)	0								
Longitudinal Seams		N	6	Superficial corrosion through bolts.					
Total No. of Cracked Rings	0								
Total No. of Rings with Two Cracked Seams									
Min. Remaining Steel Between Cracks (mm)									
Proper Lap (Y/N)	Yes								
Longitudinal Stagger (Y/N)	Yes								
Coating		N	6	Superficial corrosion through bolts.					
Corrosion By Soil (Y/N)	Yes	14		Alkaling deposits through roof bolts.					
Corrosion By Water (Y/N)	Yes			1					
Corrosion by water (1/N)	1 62			2 2 of 4					

Bridge Culvert Barrel										
Culvert Component		Last	T -	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm): 4815	, Rise (mm): 1650, Type: SCA)						
Camber POS/ZERO/NEG	ZERO									
Ponding (Y/N)	No									
Fish Passage Adequacy		9	9							
Baffle		Х	Х							
(Type:)										
Waterway Adequacy		7	7							
Icing (Y/N)	Yes									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating			6							
		D	ownstr	eam End						
Culvert Component		Last	Now	Explanation of Condition						
Direction		S								
End Treatment (Concrete, Steel, Others, None)	CONCRETE		1							
Headwall	deadwall			Minor spalling in connection with culvert barrel.						
Collar		X	X							
Wingwalls		4	4	SE wing pile torn tin.						
(Shape:)										
Cutoff Wall			N							
Bevel End		X	X							
Heaving (mm)	0									
Invert Above/Below Stream Bed										
Above/Below (mm)		7	Ι.							
Scour Protection			6	Visible through snow.						
(Type : RIP RAP)										
(Avg. Rock Size (mm) : 400) Scour/Erosion		7	6							
	No	,	0							
Beavers (Y/N) No			_							
Downstream End General Ratio	ng	4	4							
				re Usage						
Channel (II/C and D/C)		Last	Now	Explanation of Condition						
Channel (U/S and D/S) Alignment			8							
Bank Stability			7							
Darik Stability		8								
HWM (m below Top of Culvert)	0.1			Debris over deicing pipe inside culvert barrel.						
Orift (Y/N) No				Nick district and a side						
Channel Bottom Degrading/Aggrading NONE				Not visible-covered with snow.						
Beavers (Y/N) No										
(Fish Compensation Measure 1 :	·									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		8	8							

			Maintenand	e Recommen	dations					
Inspector Recommendations	Year	Inspecto	r Comments		Department Cor	nments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING	3									
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION		Repair C	Guardrail Posts							
OTHER ACTION	2010	Repair F	lazard Markers.							
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	ow) 55.6	66.7	Sufficiency Rating (L	.ast/Now)	61.9/66.1	Est. Repl. Yr	2044	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date			Estimated Tota	I 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Brian Pients	ch		Previous	evious Assistant's Name Jordan Evans					
Next Inspection Date	08-Nov-2011 Pre				Inspection Date					
Inspection Cycle (Default) (months)	21				•	15-May-20				
Comment										