					Brida	e Culve	ert Inspe	ction						
Bridge File Nur	mber	82091 -	Dirag	o ourve	·		CUL1							
Year Built 2002							Lot No.	7		4				
Bridge or Town	Name	TWO H	ILLS					or Name		Jason Saly				
Located Over			ARY TO VERM	MILION RI	IVER.	6.5.28.	<del>' '</del>	or Class		BR CLS A				
		WATER	CRS-ST					nt Name						
Located On		36:20 C	1 23 205				Assistant Class							
Water Body CI	./Year						Inspection Date		09-Jan-2013					
Navigabil. Cl./Year							Data Entry By		Marcia Chavez					
		C TMD 54 DCE 42 M/4M				Data Entry Date		12-Feb-2013						
		:16, 53:38:03				Reviewer Name		John O'Brien						
Road Authority Alberta T Contract Main. Area CMA14		Transportation (AIT)				Review Date		19-Jan-2013						
Contract Main. Area CMA14				Dept. Reviewer Name										
		eg. (RHF)		Dept. Review Date		13-Feb-2013								
AADT/Year		1,290 / 2	2011 (A)				Follow-							
Road Classifica	ation	RAU-21	-211.8-110				- Ollow-Op By							
Detour Length	(km)	3												
Bridge Culver		nation												
Number of Cul	verts		1			1				I				
Pipe #	Barrel		Span	Rise (or	Dia.)	Type	Length		Corr. Profile	PI./Slab Thickness	Shape			
1	MAIN			3050		SP	70.54			152X51	3.0	ROUND		
Special Feature				3030		OI .	72.54		102/01	3.0	ROOND			
Special Feature		ment												
Opeoidi i catai	03 00111	mont												
					Uti	ilities (L	ocated	at)						
Utility Attachme	ents													
Telephone West r/w.						Gas								
Power	Power 1 wire 30m East of r/w.						Municipal							
Others						Problen	n (Y/N)	No						
Remarks														
				Ap			d / Emba							
							Explanation of Condition							
Horizontal Alignment			8	8	On grade, long crest curve to the South.									
Vertical Alignment			7	7										
Roadway Width (m) 12.000		12.000												
Embankment					7	N	Snow c	overed. b	out no	signs of proble	ms.			
	Sideslope (:1) 4.0						Steepen to 3:1. West side measured.							
(Height of Co		6.5)					vvest si	ue meas	urea.					
Guardrail (Y/N)			No											
Approach Roa	ad / Eml	bankmer	nt General Rat	ing	7	7								
						Unstre	am End							
Culvert Component					Last									
Direction		W												
End Treatment	(Concre	ete, Stee	I, CONCRETE				1							
Others, None)														
Headwall					9	8								
Collar			9	N	Snow	overed								
COlidi				14	Snow covered.									
Wingwalls			Х	Х										
(Shape: )														
Cutoff Wall			N	N	Buried.									

			Umates							
Upstream End  Culvert Component										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End	000	N	N	Under ice.						
Heaving (mm)	300									
Invert Above/Below Stream Bed	-									
Above/Below (mm)	600		I							
Scour Protection		N	N	Snow covered but no sign of problem.						
(Type : RIP RAP)				_						
(Avg. Rock Size(mm) : 350)			1							
Scour/Erosion		N	N							
Beavers (Y/N)	No									
Upstream End General Rating		7	N	GR was 7 from 11Aug2009.						
		Bri	dge Cu	lvert Barrel						
Culvert Component			Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S <sub>I</sub>	pan (mm	1):	, Rise (mm): 3050, Type: SP)						
Barrel Last Accessible Date	09-Jan-2013									
Special Features										
Special Feature										
(Type:)										
Special Feature										
(Type:)										
Roof		N	6	Roof deformed on SW u/s end, but functional; estimated 30mm.						
Measured Rise (mm)		- 11		11001 deletified off evv d/3 effat, but full clientali, estimated soffini.						
Measured At Ring No.										
				Estimated.						
Sag (mm) Percent Sag	2									
				0 (00 0404 54						
Sidewall		N	7	Span at R2=3101=51mm Span at R9=3111=61mm=2%						
Measured Span (mm)	3111			Span at R16=3056=6mm						
Measured At Ring No.	9									
Deflection (mm)	61									
Percent Deflection	2									
Floor	I	N	N	Ice						
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		N	8							
Separation (mm)	0									
Longitudinal Seams		N	8							
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			2N						
		N.I.	7	ZIV						
Coating  Correction By Sail (V/N)	No	N	7	-						
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	Yes			<u> </u>						
Camber POS/ZERO/NEG	NEG									
Ponding (Y/N)	No			Typical standing water.						

		Ivert Barrel										
Culvert Component			Now	Explanation of Condition								
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	an (mm):		, Rise (mm): 3050, Type: SP)								
Fish Passage Adequacy		7	7									
Baffle		Х	X									
(Type:)												
Waterway Adequacy		9	8	(Ice 1.64m from roof near c/l. 02/12/10)								
Icing (Y/N)	No			(10Dec2002).								
Silting (Y/N) No				- (10Dec2002).								
Drift (Y/N) No												
Barrel General Rating			6									
Downstream End												
Culvert Component		Last	Now	Explanation of Condition								
Direction		E										
End Treatment (Concrete, Steel, Others, None)	STEEL											
Headwall		Х	Х									
Collar		X	X									
Wingwalls		Х	Х									
(Shape: )												
Cutoff Wall		Х	X									
Bevel End		N	N	Missing last bolt @ 10:00 along seam, minor. Iced over.								
Heaving (mm) 150												
Invert Above/Below Stream Bed   BELOW												
Above/Below (mm) 600												
Scour Protection			N	Snow covered but no sign of problem.								
(Type : RIP RAP)												
(Avg. Rock Size(mm) : 400)												
Scour/Erosion			N									
Beavers (Y/N)	No											
Downstream End General Ratio	ng	7	N	GR was 7 from 11Aug2009.								
		S	tructu	re Usage								
		Last	Now	Explanation of Condition								
Channel (U/S and D/S)												
Alignment			7	Meandering stream.								
Bank Stability			7	Low marshy area.								
HWM (m below Top of Culvert)				HWM not visible.								
Drift (Y/N) No												
Channel Bottom Degrading/Aggrading  NONE				(10Dec2002).								
Beavers (Y/N) No												
(Fish Compensation Measure 1 :												
(Fish Compensation Measure 2 :	NONE)											
Channel General Rating		7	7									

			Maintena	nce Recommer	dations					
Inspector Recommendations	Year	Inspecto	or Comments		Department Com	ments		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										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	ow) 55.6/	66.7	Sufficiency Rating (Last/Now) (%)		72.1/70.3	Est. Repl. Yr	2054 Maint. Re		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	Dave Lam			Previous	Assistant's Name					
Next Inspection Date	09-Oct-2014			Previous	Inspection Date	08-Dec-2010				
Inspection Cycle (Default) (months)	21									
Comment										