					Brida	e Culve	ert Insn	ection							
Bridge File Nun	nber	83012 -1	Bridge Culve	rt	Dirag	o ourre	Form 7			CUL1					
Year Built 2003						Lot No.			4						
Bridge or Town Name TWO HILLS							Inspector Name			Jason Saly					
Located Over TRIE		TRIBUTA	FRIBUTARY TO VERMILION RIVER, 6				· ·			BR CLS A					
WAT			VATERCRS-ST					ant Name							
Located On 36:20 C1 29.82			29.825).825				ant Class							
Water Body Cl./Year							Inspection Date			10-Jan-2013					
Navigabil. Cl./Year								ntry By		Marcia Chavez					
			30 TWP 54 RGE 12 W4M					ntry Date	!	22-Jan-2013					
							ver Name	!	John O'Brien						
-		Fransportation (AIT)					v Date		19-Jan-2013						
Contract Main.		CMA14	. (5.15)				Dept. Reviewer Name			Andrew Smikl	es				
Clear Roadway	/Skew		deg. (RHF)				Dept. I	Review Da	ate	24-Jan-2013					
AADT/Year		1,290 / 2	· ,				Follow	-Up By							
Road Classifica		RAU-211	.8-110												
Detour Length (` '	14													
Number of Culv		1													
Pipe #	Barrel		Span Rise (or		Dia)	Туре		Length		Corr. Profile	Pl./Slab	Shape			
т тре #	Danci		pan Rise (or		Dia.) Type		Lengui			Con. I Tome	Thickness	Onape			
1 MAIN -			2740		SP		93.27		152X51	3.0	ROUND				
Special Feature	es														
Special Feature	es Comi	ment													
					114	::::::/I		~4 \							
Utility Attachme	nto				Oti	ilities (L	<u>locatieu</u>	at)							
Telephone	West	r/w					Gas								
Power			ast ditch				Municipal								
Others	Z WIIC	ires OH @ East ditch.						Problem (Y/N) No							
Remarks							1 10010	(1 / 1 4 /	110						
				Aı	pproac	ch Road	l / Emb	ankment							
					Last	Now	Explanation of Condition								
Horizontal Align	nment				6	6	Gradual horizontal curve starts @ 50m North. Blind crest curve 200n								
Vertical Alignme	ent				6	6	South. No passing SB.								
Roadway Width (m) 11.800															
				NI.	l NI	\\/all \\		C							
Embankment			4.0	N	N	Well vegetated. Snow covered but no evidence of problem.									
Sideslope ((Height of Co		. 6.9\	4.0				_								
Guardrail (Y/N)		. 0.0)	No												
Guardian (1/14)			INO												
Approach Roa	d / Eml	bankmen	t General Rat	ing	6	6									
							om En								
Culvert Compo	nent				Last	Upstre Now		nation of	Condi	tion					
Direction	Jiieiit				E	INOW	LAPIAI	iation or	Condi	LIOII					
End Treatment	(Concre	ete, Steel	STEEL		_		-								
Others, None)	, , , , , , , , , , , , , , , , , , , ,														
Headwall			X	X											
Collar			Х	X											
Miscovollo			V												
Wingwalls (Shape:)				X	X	-									
(Shape :) Cutoff Wall				Х	X										
Guton vvan					^										

83012 -1 Bridge Culvert

			Upstre	eam End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		6	6	(A bolt bent @ North side of bottom plate - photo. 23May2006).
Heaving (mm)	150			Bevel end plates were out through the holes leaving top holes not connected. Under water, can't confirm. Otherwise bevel in good shape.
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	450			
Scour Protection		9	N	Snow covered but no sign of problem.
(Type : RIP RAP)				
(Avg. Rock Size(mm): 300)				
Scour/Erosion		9	N	
Beavers (Y/N)	No			
Upstream End General Rating	·	6	6	
		Brid	dge Cu	ilvert Barrel
Culvert Component		Last	Now	Explanation of Condition
Pipe # : 1, Primary Span, Loca	tion Code: MAIN,	Span (mm	n):	, Rise (mm): 2740, Type: SP)
Barrel Last Accessible Date	10-Jan-2013			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type:)		·		
Roof		8	8	Could not measure rise due to ice.
Measured Rise (mm)	2792			
Measured At Ring No.	10			
Sag (mm) 52				(08Dec2010)
Percent Sag	1			(000002010)
Sidewall		8	8	Span at R2=2711=29mm=1%
Measured Span (mm)	2711			Span at R10=2730=10mm Span at R13=2729=11mm
Measured At Ring No.	2			Span at R18=2735=5mm
Deflection (mm)	29			Inwards
Percent Deflection	1			
Floor		N	N	(Water 0.9m.). Iced over.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		5	5	Roof seams missing 2 bolts at East end and 1 bolt at West end - ok
Total No. of Cracked Rings	0			no problem.
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		7	7	2nd circumferential seam has a rust spot at roof, minor.
•	No			Minor.
Corrosion By Soil (Y/N)	INU			
Corrosion By Soil (Y/N) Corrosion By Water (Y/N)	Yes			_

83012 -1 Bridge Culvert

Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm):	, Rise (mm): 2740, Type: SP)						
Ponding (Y/N)	No									
Fish Passage Adequacy		8	8							
Baffle		Х	Х							
(Type:)										
Waterway Adequacy		9	8							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		5	5							
		D	ownstr	ream End						
Culvert Component		Last		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	Х							
Bevel End		6	6	Bevel end plates were cut through the holes leaving top holes not						
Heaving (mm)	0			connected.						
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	600									
Scour Protection		8	N							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		8	N	(Gullies developing around end pipe and on D/S berms. 23/May/2006). Snow covered but no sign of problem.						
Beavers (Y/N)	No									
Downstream End General Ratio	ng	6	6							
		S	tructu	re Usage						
		Last		Explanation of Condition						
Channel (U/S and D/S)			1							
Alignment		9	9	Wide flood plain.						
Bank Stability		9	9							
HWM (m below Top of Culvert)				HWM not visible.						
Drift (Y/N)	No									
Channel Bottom Degrading/Aggrading				Unknown.						
Beavers (Y/N) No										
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		9	9							

				Main	tenance Re	commen	dations							
Inspector Recommendations	Ye	Year Inspector Comments				Department Comments						Est. Cost	Cat #	
SHOTCRETE REPAIRS														
PLACE ADDITIONAL RIP RAP														
REMOVE DRIFT ACCUMULATION														
INSTALL CONCRETE/STEEL LINING	3													
INSTALL STRUTS														
INSTALL CONCRETE COLLAR/CUTOFF														
REPAIR SEAMS														
OTHER ACTION														
OTHER ACTION														
OTHER ACTION														
OTHER ACTION														
Structural Condition Rating (Last/N (%)	low) 55	w) 55.6/55.6		Sufficiency Rating (Last/Now) (%)		low)	69.6/66.2		st. Repl. Yr 2055		N	laint. Re	qd. (Y/N)	No
Special Comments for Next Inspection							Department Comments							
Maintenance Reviewed By							Date			E	Estima	ted Tota	1 0	
Proposed Long-Term Strategy														
On 3-Year Program (Y/N)														
Proposed Action														
Previous Inspector's Name Day		n				Previous	Assistant's Name							
Next Inspection Date	10-Oct-20	014				Previous	Inspection Date		08-Dec-2010					
Inspection Cycle (Default) (months) 21							•							
Comment														