					Bridg	e Culve	ert Inspe							
Bridge File Nun	nber	76166	-1 Bridge Culve	rt			Form T			CULM				
Year Built		1992					Lot No.		4					
Bridge or Town	Name	TILLEY	′				Inspec	or Name		Tom Carey				
Located Over		EID - IF	RRIGATION C,	WATERC	RS-IC		Inspec	or Class		BR CLS A				
Located On		535:02	C1 16.603				Assistant Name							
Water Body Cl.	/Year						Assistant Class							
Navigabil. Cl./Y	ear						Inspection Date 16-Feb-2010							
Legal Land Loc	ation	SE SE	C 1 TWP 17 RG	E 13 W4I	М		Data E	ntry By		Kelsey Roberts				
Longitude, Latit	ude	-111:39	9:18, 50:23:51				Data Entry Date 03-Mar-2010							
Road Authority		Alberta	Transportation	(AIT)			Reviewer Name Garry Roberts							
Contract Main.	Area	CMA23	3				Review	Review Date 23-Feb-2010						
Clear Roadway	/Skew	10 /					Dept. F	Reviewer	Name	Lorenz Bohne	rt			
AADT/Year 230 / 200		008 (A)				Dept. F	Review Da	ate	08-Mar-2010					
Road Classification RCU-208		08-110				Follow-	Up By							
Detour Length	(km)	3												
Bridge Culvert	Inform	ation												
Number of Culv	erts		2											
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		-	1800		MP		23		75X25	2.8	ROUND		
2	MAIN		-	1800		MP		23		75X25	2.8	ROUND		
2 MAIN - 1800 Special Features Special Features Comment														
Special Feature	es Comi	ment												
					114	litico /I	_ocated	24 \						
Utility Attachme	nte				Οί	ilities (L	-ocateu	ai)						
Telephone	S.side	<u> </u>					Gas							
Power		North c	litch				Municip	nal .						
Others	3 WII C	HOILIIC	illeri						No					
Remarks	ΗΔΖΔ	RDS @	all corners				T TODICI	11 (1/14)	140					
rtomanto	117 (12)		an comore	Aı	oproac	ch Road	d / Emba	ankment						
					Last	Now	Explanation of Condition							
Horizontal Align	nment				7	7	INTERSECTION WITH SH 876 30 m EAST							
Vertical Alignme					9	9								
Roadway Width	n (m)		8.500											
Embankment					8	N	Snow	Snow						
Sideslope (:1)		3.0											
(Height of Co		: 1.4)												
Guardrail (Y/N)			Yes											
Approach Roa	d / Eml	bankme	ent General Rat	ing	7	7								
						Uractus	om For							
Culvert Compo	nont				Last	Now	am End	ation of	Candi	tion				
(Pipe #: 1, Sp		a. Prims	ary Snan)		Lasi	INOW	LAPIAII	ation or	Condi					
Direction	ан тур	G. 1 11111C	агу Орап)		N		Irrigatio	n turnout	20m r	o rth				
End Treatment Others, None)	(Concre	ete, Ste	el, STEEL		IN		NORTI	n turnout HEND ea	st PIP	E				
Headwall					Х	Х								
Collar					Х	Х								
Wingwalls					Х	X								
(Shape:)														

76166 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	/ Span)			
Cutoff Wall		Х	Х	
Bevel End		8	N	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		8	N	
(Type : RIP RAP)				
(Avg. Rock Size (mm) : 150)				
Scour/Erosion		8	N	Snow
Beavers (Y/N)	No			
Upstream End General Rating		8	N	
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): -,R	ise (mm): 1800, Type: MP)
Barrel Last Accessible Date	28-Feb-2007			East PIPE
Special Features				
Special Feature				Snow and ice 800mm from roof
(Type:)				Shape good.
Special Feature				
(Type:)				
Roof		8	N	(Estimate)
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		8	N	(Inward)
Measured Span (mm)	1795			
Measured At Ring No.	1			
Deflection (mm)	5			
Percent Deflection				
Floor	T	N	N	ice covered
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)			_	
Circumferential Seams	1	8	N	
Separation (mm)	60			
Longitudinal Seams	1	X	X	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		4	N	(Corrosion with some pitttin in the lower half)
Corrosion By Soil (Y/N)				
Corrosion By Water (V/N)	1			A .

		Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	ı): -,R	ise (mm): 1800, Type: MP)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	Х	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		5	5	(WATER HAS BEEN OVER TOP OF PIPES)
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	N	
				ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Direction		S		SOUTH END east PIPE
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape:)		1	1	
Cutoff Wall		X	X	
Bevel End	1	8	N	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)	300		1	
Scour Protection		8	N	Snow
(Type : RIP RAP)				
(Avg. Rock Size (mm) : 150)		T -	1	
Scour/Erosion	T	8	N	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	8	N	
			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		N		NORTH END West PIPE
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	X	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		X	X	

76166 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Bevel End		8	N	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		8	N	Snow
(Type : RIP RAP)				
(Avg. Rock Size (mm) : 150)			_	
Scour/Erosion		8	N	
Beavers (Y/N)	No			
Upstream End General Rating		8	N	
		Brid	dae Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN.			
Barrel Last Accessible Date	28-Feb-2007	- J (-	,.	West Pipe
Darrer Zaet / teededisie Date	20 1 05 2001			THOUSE THE
Special Features			_	
Special Feature				Snow and ice 800mm from roof
(Type:)				Shape is good.
Special Feature				
(Type:)				
Roof		8	N	(Estimate)
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		8	N	
Measured Span (mm)	1800			
Measured At Ring No.	2			
Deflection (mm)	0			
Percent Deflection				
Floor		N	N	ice covered
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		8	N	
Separation (mm)	100			
Longitudinal Seams		X	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		4	N	(corrosion with some pitting in the lower half)
Corrosion By Soil (Y/N)				, , , , , , , , , , , , , , , , , , ,
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			

		Brid	dae Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S			•
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	Х	
Baffle		Х	X	
(Type:)				
Waterway Adequacy		5	5	(WATER HAS BEEN OVER TOP OF PIPES)
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	N	
		D	ownst	ream End
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction	,	s		SOUTH END west PIPE
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	X	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		8	N	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		8	N	Snow
(Type : RIP RAP)				
(Avg. Rock Size (mm) : 150)		1		
Scour/Erosion		8	N	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	8	N	
			Structu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		9	9	Irrigation turnout 2m S Control structure 20m S
Bank Stability		7	N	(Water runs over the pipes) Snow
HWM (m bolow Top of Culvert)	0.2			
HWM (m below Top of Culvert)	0.2 No			
Drift (Y/N) Channel Bottom	INU			
Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			

Structure Usage							
Last Now Explanation of Condition							
Channel General Rating		9	G.R. carried forward				

		Maintenance	Recommend	dations					
Inspector Recommendations	Year	Inspector Comments		Department Comm	ents		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) 88.9/5	5.6 Sufficiency Rating (Las (%)	st/Now)	79.3/58.8	Est. Repl. Yr	2043	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		Е	Estimated Tota	1 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Tim Davies		Previous	Assistant's Name					
Next Inspection Date	16-May-2013		Previous	us Inspection Date 28-Feb-2007					
Inspection Cycle (Default) (months)	39								
Comment									