Bridge Culvert Inspection														
Bridge File Num	Bridge File Number 75629 -1 Bridge Culvert						Form Type		CULM					
Year Built 1962						Lot No.		2						
Bridge or Town Name WARBURG						Inspect	or Name		Todd Warshawski					
Located Over TRIBUTARY TO STRAWBERRY				Y CRE	EK,	Inspect	or Class		BR CLS B					
0.112.12, WATERORS-				-51			Assistant Name							
Notor Body CL Moor						Assista	Assistant Class							
Navigabil CL/X							Inspection Date 10-			10-Jan-2013	10-Jan-2013			
					4		Data E	ata Entry By Theresa Lacusta						
Legal Land Location SW SEC 1 TWP 49 RGE SV					1		Data E	ntry Date		05-Feb-2013				
Poad Authority Alberta Transportati			Transportation				Reviewer Name		Eric Carcoux					
Contract Main Area CMA11			Transportation			Review Date			10-Jan-2013					
Clear Roadway/Skew 11.3 /							Dept. Reviewer Name			Brent Herrick				
AADT/Year	2	2 800 / 1	2011 (A)				Dept. Review Date		14-Feb-2013					
Road Classifica	tion R	RAU-21	1.8-110				Follow-	Ор Ву						
Detour Length (km) 3	<u></u>												
Bridge Culvert	Informat	tion					<u> </u>							
Number of Culv	erts		2											
Pipe #	Barrel	Span Rise (or I				Dia.) Type		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		1830	1120		FP		24.4		68X13	2.8	ARCH		
2	MAIN		-	760		MP		24.4		68X13	2.8	ROUND		
Special Feature	s													
Special Feature	s Comme	ent												
	- 4 -				Uti	lities (L	ocated	at)						
Utility Attachme	nts						0							
Telephone		W.					Gas							
Othoro	3 wires 15m from c/i North r/w.						Droblor							
Bomarka	Others						FIUDIEI	II (1/IN) I	NU					
Remarks Tagged on 5 side.					nroad	h Road	l/Fmb	ankment						
					Last	Now	Explan	Explanation of Condition						
Horizontal Align	ment				8	8	Farm entrance to SE.							
Vertical Alignme	ent				8	8								
Roadway Width	(m)		11.300											
Embankment					7	7								
Sideslope (:1)		4.0											
(Height of Cov	/er(m) : 0).6)												
Guardrail (Y/N)			No											
Approach Road	d / Emba	inkmei	nt General Rat	ing	8	8								
						Upstrea	am End							
Culvert Component			Last	Now	Explan	ation of C	ondit	ion						
(Pipe # : 1, Span Type: Primary Span)														
Direction				S		West p	ipe.							
End Treatment (Concrete, Steel, STEEL Others, None)														
Headwall					Х	X								
Collar				Х	X									
Wingwalls					Х	Х								
(Shape :)														

	Upstream End								
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Span Type: Primary	/ Span)								
Cutoff Wall		X	X						
Bevel End		N	5	Bevel projects from fill 300mm on East side27-May-2009					
Heaving (mm)	100								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm) 100									
Scour Protection			N	Snow covered					
(Type : RIP RAP)				_					
(Avg. Rock Size(mm) : 200)									
Scour/Erosion			N						
Beavers (Y/N)	No								
Upstream End General Rating		6	5						
Culvert Commence		Bri	dge Cu	Ivert Barrel					
Dino # 1 Drimon Orem 1	tion Coder MAINL C	Last	NOW	Explanation of Condition					
	tion Code: MAIN, Sp	an (mm	1): 1830	, Rise (mm): 1120, Type: FP)					
Barrel Last Accessible Date	10-Jan-2013			New CSP sections installed at both ends. Roof appears stable-viewed from ends.					
Special Features									
Special Feature									
(Type:)									
Special Feature									
(Type:)									
Roof		N	3	12m from U/S.					
Measured Rise (mm)	805			150mm hulgo in floor					
Measured At Ring No.									
Sag (mm)	165								
Percent Sag	15								
Sidewall		N	5	Measured 12m from U/S.					
Measured Span (mm)	1925								
Measured At Ring No.									
Deflection (mm)	95								
Percent Deflection	5								
Floor		N	3						
Bulge (mm)	150			Bulge along 1/2 of total length.					
Measured At Ring No.									
Abrasion (Y/N)	No								
Circumferential Seams		N	6						
Separation (mm)	25								
Longitudinal Seams		N	N	Riveted seams.					
Total No. of Cracked Rings	0								
Total No. of Rings with Two Cracked Seams									
Min. Remaining Steel Between Cracks (mm)									
Proper Lap (Y/N)									
Longitudinal Stagger (Y/N)									
Coating		N	4	Pitting on floor.					
Corrosion By Soil (Y/N)	No								
Corrosion By Water (Y/N)	Yes								

Bridge Inspection & Maintenance System (Web 2005)

75629 -1 Bridge Culvert

	Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	an (mm): 1830	, Rise (mm): 1120, Type: FP)						
Camber POS/ZERO/NEG	NEG									
Ponding (Y/N)	No									
Fish Passage Adequacy		4	4	D/S end above streambed.						
Baffle		Х	Х							
(Type:)			_							
Waterway Adequacy		5	5							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		3	3							
Ordenert Ore		D	ownstr	eam End						
Culvert Component	(Crom)	Last	Now	Explanation of Condition						
(Pipe # : 1, Span Type: Primary	(Span)									
Direction		N		West pipe						
End Treatment (Concrete, Steel, Others, None)	STEEL		1							
Headwall		X	X							
Collar			X							
Wingwalls		X	X							
(Shape :)										
Cutoff Wall		X	X							
Bevel End		N	5							
Heaving (mm)	100									
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm)	450									
Scour Protection		N	N	Snow covered						
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 200)										
Scour/Erosion		N	N							
Beavers (Y/N)	No									
Downstream End General Ratin	ng	6	5							
			Upstre	am End						
Culvert Component			Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	ary Span)									
Direction		S		East pipe.						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	Х							
Collar		X	X							
Wingwalls		X	Х							
(Shape :)										
Cutoff Wall			Х							

	1	1	Upstre	eam End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	ary Span)							
Bevel End		N	N	Perforations in floor. Large perforation covered by water27-May-				
Heaving (mm)	100			2009				
				Snow/ice covered.				
Invert Above/Below Stream Bed	BELOW			_				
Above/Below (mm)	400							
Scour Protection		N	N	now covered				
(Type : RIP RAP)				_				
(Avg. Rock Size(mm) : 200)								
Scour/Erosion			N					
Beavers (Y/N)	No							
Upstream End General Rating	I	3 3		GR carried fwd.				
		Brid	dae Cu	Ivert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2. Secondary Span Lo	cation Code: MAIN	Span (r	nm):	. Rise (mm): 760. Type: MP)				
Barrel Last Accessible Date	15-Aug-2007		<u></u>	Not visible due to snow				
Darrer East Accessible Date	10 / 10 2007							
Special Features								
Special Feature								
(Type:)								
Special Feature								
(Type :)								
Roof		N	N	Crown dented 100mm @ D/S endMay,2009				
Measured Rise (mm)	695		_					
Measured At Ring No.				Infiltration at seam 2m from D/S end. Evident from end of pipe27-				
Sag (mm)	65			May-2009				
Percent Sag	9							
Sidewall		N	N	U/S 750, D/S 750May,2009				
Measured Span (mm)	750							
Measured At Ring No.				Infiltration @ circumferential seam 2m from D/S end. Evident fro				
Deflection (mm) 10				end of pipe27-May-2009				
Percent Deflection	1							
Floor		N	N					
Bulge (mm)	100			1				
Measured At Ring No.				1				
Abrasion (Y/N)	No			1				
Circumferential Seams		N	N	Soil infiltration, damaged seam near D/S end. Evident from end of				
Separation (mm)	150			pipe - photo27-May-2009				
Longitudinal Seams		N	N	Riveted seams.				
Total No. of Cracked Rings	0			1				
Total No. of Rings with Two Cracked Seams								
Min. Remaining Steel								
Proper Lap (Y/N)								
Longitudinal Stagger (Y/N)				1				
Coating		N	N	(Pitting on floor, 15/Aug/2007)				
Corrosion By Soil (V/N)		14	14					
Corrosion By Water (V/N)	Ves							
	NEC							
Camper PUS/ZERU/NEG	INEG							

Bridge Inspection & Maintenance System (Web 2005)

75629 -1 Bridge Culvert

Channel General Rating		5	5					
(Fish Compensation Measure 2 :	NONE)							
(Fish Compensation Measure 1 :	NONE)			-				
Beavers (Y/N)	NO							
Degrading/Aggrading				-				
Channel Bottom								
Drift (Y/N)	No			1				
HWM (m below Top of Culvert)				HWM not visible.				
Bank Stability		8	8					
		0						
Alignment		5	5					
Channel (U/S and D/S)		Last	NOW					
		S	Structu	re Usage				
		4	4					
Downstream End Coneral Patie		4	Δ	GR carried find				
Beavers (Y/N)	No							
Scour/Erosion		N	N					
(Avg. Rock Size(mm) : 200)								
(Type : RIP RAP)				-				
Scour Protection		Ν	N	Snow covered				
Above/Below (mm) 150								
Invert Above/Below Stream Bed	ABOVE							
Heaving (mm)	100			Covered with snow.				
Bevel End		N	N	Torn & damaged NW & NE side27-May-2009				
Cutoff Wall			X					
(Shape:)								
Wingwalls		X	X					
			X					
Others, None)		X	Y					
Direction End Treatment (Concrete, Steel,	STEEL	N		_ East pipe				
(Pipe # : 2, Span Type: Second	lary Span)							
Culvert Component		Last	Now	Explanation of Condition				
		D	ownst	ream End				
		3	3					
Barrel General Pating		2	2	G. P. carried forward				
Silling (1/N)	No			-				
Silting (Y/N)	No			-				
Vvaterway Adequacy	No	4	N	Burried with snow.				
(Type:)								
Baffle		X	X					
		5						
Fish Passage Adequacy		5	N					
Ponding (Y/N)	No							
(Pipe # : 2. Secondary Span. Lo	cation Code: MAIN. S	Span (r	nm):	. Rise (mm): 760. Type: MP)				
Culvert Component		Last	Now	Explanation of Condition				
				Nort Dorrol				

Maintenance Recommendations											
Inspector Recommendations		Year	Inspecto	or Comments		Department Com	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LIN	IING										
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/C	UTOFF										
REPAIR SEAMS											
OTHER ACTION		2013	Repair d	lent D/S bevel end, pipe 2, if	not done.						
OTHER ACTION		2013	Remove with new	D/S section of pipe #2 and v coupler, if not done.	reinstall						
OTHER ACTION				·							
OTHER ACTION											
Structural Condition Rating (La (%)	33.3/33.	3	Sufficiency Rating (Last/ (%)	y Rating (Last/Now)		Est. Repl. Yr	2020 Maint. Re		qd. (Y/N)	Yes	
Special Comments for Next Inspection Monitor rise, no in place. Asse pipe #2(grout).	e #1. Eva pleted by	luate need MPA 200	d for pipe #2 and consider a)1 with recommendation to a	bandoning bandon	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 Wade		Wade Nanninga				Previous Assistant's Name					
Next Inspection Date 10-Oc		10-Oct-2014				Previous Inspection Date 26-Jan-2011					
Inspection Cycle (Default) (month	s) 21										
Comment											