Bridge Culvert Inspection													
Bridge File Num	ile Number 72854 -1 Bridge Culvert						Form Type		CULM				
Year Built	it 1962						Lot No.		4				
Bridge or Town	Name Bl	RETO	N				Inspecto	or Name		Wade Nanninga			
Located Over			STRAWBERR	Y CREEK, 6.112.16,			Inspector Class		BR CLS B				
Located On	VV	16:04 (04 C1 5 791					nt Name					
Water Body CL/	Voar	10.04 (/					nt Class					
Navigabil CL/X						on Date		14-Feb-2011					
Logal Land Loga			Data Entry By			Janie Assenheimer							
Longitude Latitude -114:22:4			22:42 53:06:18					ntry Date		25-Feb-2011			
Road Authority Alberta			22:42, 53:06:18					Reviewer Name		Arnold Assenheimer			
Contract Main Area CMA11			Transportation				Review Date		22-Feb-2011				
Clear Roadway/Skew 10/10			dea (RHF)				Dept. R	eviewer N	lame	Brent Herrick			
AADT/Year	76	60 / 20					Dept. R	eview Da	te	02-Mar-2011			
Road Classificat	tion R	CU-20	9-110				Follow-	Јр Ву					
Detour Length (km) 10	n n					-						
Bridge Culvert	Informati	ion											
Number of Culve	erts		2										
Pipe #	Barrel	:	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		2019	2226		SPE		50		152X51	3.0	ELLIPSE	
2	MAIN		-	2000		MP		39		125X26	2.8	ROUND	
Special Feature	s										1		
Special Feature	s Comme	ent											
					Uti	ilities (L	_ocated	at)					
Utility Attachme	nts						0						
Telephone	South r/v	W.	,				Municipal						
Power	3 lines N	North r/	′W.				Municip		Na				
Others													
Remarks				Δr	nroa	ch Roar	d / Emba	nkment					
					Last	Now	Explana	ation of C	Condi	ion			
Horizontal Align	ment				7	7	Entrances 50m both directions.						
Vertical Alignme	ent				7	8							
Roadway Width	(m)		9.500										
					0	0							
	•1)		2.0	8 8									
(Hoight of Cov	$(or(m) \cdot 2)$	5)	3.0	3.0				3.5 over primary span.					
Guardrail (Y/N)	/er(iii) . z.	.3)	No										
Approach Road	d / Embar	nkmer	nt General Rati	ina	7 7								
					-								
						Upstre	am End			-			
Culvert Compo	nent	D			Last	Now	Explana	ation of C	Condi	lion			
(Pipe # : 1, Spa	an Type: I	Prima	ry Span)		-								
Direction	(a)				S		East pip	e.					
End Treatment (Others, None)	(Concrete	e, Steel	I, NONE										
Headwall					Х	X							
Collar					Х	Х							
Wingwalls					Х	Х							
(Shape :)													

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		7	7	
	Na			
	NO			
Upstream End General Rating		7	7	
		Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm	n): 2019	, Rise (mm): 2226, Type: SPE)
Barrel Last Accessible Date	14-Feb-2011			0.6m ice along floor - design 2019 x 2226.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Туре :)				
Roof		7	7	2 - 75 mm dia holes in roof @ 4/5 L.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	70			_ est.
Percent Sag	3			
Sidewall		7	4	
Measured Span (mm)	2075			Missing.
Measured At Ring No.	9			
Deflection (mm)	56			
Percent Deflection	3			
Floor		7	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	5	Loose circumferential bolts rings 12 & 13.
Separation (mm)	0			
Longitudinal Seams		7	4	Missing 15 bolts/nujts in R4/5/13.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				Rings 1, 2, 17 & 18 not staggered. 1N stagger starting 2 rings in from U/S and D/S ends.
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		6	6	Minor superficial rust lower 1/4.
Corrosion By Soil (Y/N)	Yes		-	
Corrosion By Water (Y/N)	Yes			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

	1	Bric	dge Cul	vert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 2019	, Rise (mm): 2226, Type: SPE)
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		4	4	Outlet above S.B.
Baffle		Х	X	
(Туре :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			800mm pile of small sized drift at inlet Fast pipe.
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		7	4	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	v Span)			
Direction		N		East pipe.
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		Х	X	
Collar		Х	X	
Wingwalls		Х	X	
(Shape :)				
Cutoff Wall		Х	Х	
Bevel End		7	7	
Heaving (mm)	150			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	300		1	
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)			1	
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Downstream End General Ratin	ng	7	7	
			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		S		Overflow pipe. West pipe.
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		Х	X	
Collar		Х	X	
Wingwalls		Х	Х	
(Shape :)				
Cutoff Wall		Х	X	

Alberta Transportation

Upstream End									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	lary Span)								
Bevel End		8	8	_					
Heaving (mm)	0								
Invert Above/Below Stream Bed	ABOVE			_					
Above/Below (mm)	800								
Scour Protection		8	8						
(Type : RIP RAP)				_					
(Avg. Rock Size(mm) : 400)									
Scour/Erosion			8						
Beavers (Y/N)	No								
Upstream End General Rating		8	8						
		Bri	dge Cu	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (I	mm):	, Rise (mm): 2000, Type: MP)					
Barrel Last Accessible Date	14-Feb-2011			0.5m ice in barrel.					
Special Features									
Special Feature									
(Type:)									
Special Feature									
(Type :)									
Roof		7	7						
Measured Rise (mm)									
Measured At Ring No.									
Sag (mm)	40								
Percent Sag	2			est.					
	<u> </u>	-	-						
Sidewall	0040	8	7	-					
Measured Span (mm)	2040			- c/l					
Measured At Ring No.				-					
Deflection (mm)	40			-					
Percent Deflection	2								
Floor	1	7	N	(Minor corrosion on floor. 21-Nov-2007)					
Bulge (mm)	0			-					
Measured At Ring No.				-					
Abrasion (Y/N)	No								
Circumferential Seams		8	6						
Separation (mm)	50								

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Culvert Component			Now	Explanation of Condition				
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (I	mm):	, Rise (mm): 2000, Type: MP)				
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		6	6	Minor superficial rust but no pitting.				
Corrosion By Soil (Y/N)	No							
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG	ZERO							
Ponding (Y/N)	No							
Fish Passage Adequacy		4	4	Outlet above streambed. 2m deep scour hole, 6m wide and 6m long.				
Baffle		X	Х					
(Туре :)								
Waterway Adequacy		8	8					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		7	7					
Downstream End								
		D	ownstr	eam End				
Culvert Component		Last	ownstr Now	eam End Explanation of Condition				
Culvert Component (Pipe # : 2, Span Type: Second	lary Span)	Last	Now	eam End Explanation of Condition				
Culvert Component (Pipe # : 2, Span Type: Second Direction	lary Span)	Last	Now	eam End Explanation of Condition West pipe.				
Culvert Component (Pipe # : 2, Span Type: Second Direction End Treatment (Concrete, Steel, Others, None)	lary Span) STEEL	Last	Now	eam End Explanation of Condition West pipe.				
Culvert Component (Pipe # : 2, Span Type: Second Direction End Treatment (Concrete, Steel, Others, None) Headwall	ary Span) STEEL	Last N X	Now X	eam End Explanation of Condition West pipe.				
Culvert Component (Pipe # : 2, Span Type: Second Direction End Treatment (Concrete, Steel, Others, None) Headwall Collar	ary Span) STEEL	Last N X X	Now X	eam End Explanation of Condition West pipe.				
Culvert Component (Pipe # : 2, Span Type: Second Direction End Treatment (Concrete, Steel, Others, None) Headwall Collar Wingwalls	STEEL	Last N X X X X	Nownstr Now	eam End Explanation of Condition West pipe.				
Culvert Component (Pipe # : 2, Span Type: Second Direction End Treatment (Concrete, Steel, Others, None) Headwall Collar Wingwalls (Shape :)	lary Span) STEEL	Last N X X X X	Nownstr Now	eam End Explanation of Condition West pipe.				
Culvert Component (Pipe # : 2, Span Type: Second Direction End Treatment (Concrete, Steel, Others, None) Headwall Collar Wingwalls (Shape :) Cutoff Wall	STEEL	Last N X X X X X	Nownstr Now X X X X	eam End Explanation of Condition West pipe.				
Culvert Component (Pipe # : 2, Span Type: Second Direction End Treatment (Concrete, Steel, Others, None) Headwall Collar Wingwalls (Shape :) Cutoff Wall Bevel End	STEEL	Last N X X X X X X X	Nownstr Now X X X X X X	eam End Explanation of Condition West pipe.				
Culvert Component (Pipe # : 2, Span Type: Second Direction End Treatment (Concrete, Steel, Others, None) Headwall Collar Wingwalls (Shape :) Cutoff Wall Bevel End Heaving (mm)	STEEL	Last N X X X X X X A A A A A A A A A A A A A	Nownstr Now X X X X X X X X X	eam End Explanation of Condition West pipe.				
Culvert Component (Pipe # : 2, Span Type: Second Direction End Treatment (Concrete, Steel, Others, None) Headwall Collar Wingwalls (Shape :) Cutoff Wall Bevel End Heaving (mm) Invert Above/Below Stream Bed	STEEL	Last N X X X X X A B B C C C C C C C C C C C C C C C C C	Now X X X X X X X	eam End Explanation of Condition West pipe.				
Culvert Component (Pipe # : 2, Span Type: Second Direction End Treatment (Concrete, Steel, Others, None) Headwall Collar Wingwalls (Shape :) Cutoff Wall Bevel End Heaving (mm) Invert Above/Below Stream Bed Above/Below (mm)	STEEL 50 ABOVE 2000	D Last N X X X X X X X X X X X	Nownstr Now	eam End Explanation of Condition West pipe.				
Culvert Component (Pipe # : 2, Span Type: Second Direction End Treatment (Concrete, Steel, Others, None) Headwall Collar Wingwalls (Shape :) Cutoff Wall Bevel End Heaving (mm) Invert Above/Below Stream Bed Above/Below (mm) Scour Protection	STEEL 50 ABOVE 2000	D Last N X X X X X 3	Nownstr Now X X X X X X X X X X X X	eam End Explanation of Condition West pipe.				
Culvert Component (Pipe # : 2, Span Type: Second Direction End Treatment (Concrete, Steel, Others, None) Headwall Collar Wingwalls (Shape :) Cutoff Wall Bevel End Heaving (mm) Invert Above/Below Stream Bed Above/Below (mm) Scour Protection (Type : RIP RAP)	STEEL 50 ABOVE 2000	Last N X X X X X A A A A A A A A A A A A A A	Now Now X X X X X X 4	eam End Explanation of Condition West pipe.				
Culvert Component (Pipe # : 2, Span Type: Second Direction End Treatment (Concrete, Steel, Others, None) Headwall Collar Wingwalls (Shape :) Cutoff Wall Bevel End Heaving (mm) Invert Above/Below Stream Bed Above/Below (mm) Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 400)	STEEL 50 ABOVE 2000	Last N X X X X 3	Nownstr Now X X X X X X X X X 4	eam End Explanation of Condition West pipe.				
Culvert Component (Pipe # : 2, Span Type: Second Direction End Treatment (Concrete, Steel, Others, None) Headwall Collar Wingwalls (Shape :) Cutoff Wall Bevel End Heaving (mm) Invert Above/Below Stream Bed Above/Below (mm) Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 400) Scour/Erosion	STEEL 50 ABOVE 2000	Last N X X X X 3	Iownstri Now	eam End Explanation of Condition West pipe. Use the second				
Culvert Component (Pipe # : 2, Span Type: Second Direction End Treatment (Concrete, Steel, Others, None) Headwall Collar Wingwalls (Shape :) Cutoff Wall Bevel End Heaving (mm) Invert Above/Below Stream Bed Above/Below (mm) Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 400) Scour/Erosion Beavers (Y/N)	STEEL 50 ABOVE 2000	Last N X X X X 3	Image: wide wide wide wide wide wide wide wide	eam End Explanation of Condition West pipe. Use the several of the bevel end - photo 4.				

Structure Usage								
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)								
Alignment		7	7					
Bank Stability		7	4	Sloughing banks d/s.				
	1							
HWM (m below Top of Culvert)				HWM not visible. Small sized drift.				
Drift (Y/N)	Yes							
Channel Bottom	DEGRADING							
Degrading/Aggrading				_				
Beavers (Y/N)	Beavers (Y/N) No							
(Fish Compensation Measure 1 : NONE)								
(Fish Compensation Measure 2 : NONE)								
Channel General Rating			4					

			Maintenance Rec	commend	ations					
Inspector Recommendations	<u> </u>	Year	Inspector Comments		Department Comm		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTC)FF									
REPAIR SEAMS										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/No (%)	ow) 7	77.8/44.4	4 Sufficiency Rating (Last/N (%)	ow) 6	68.7/52.9 Est. Repl. Yr 2042		2042	Maint. Red	qd. (Y/N)	No
Special Monitor scour & ero Comments for Next Inspection	sion at d/	/s end o	of overflow pipe.		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	Jacob Oresile F			Previous Assistant's Name						
Next Inspection Date	14-May-2014 Pre				vious Inspection Date 21-Nov-2007					
Inspection Cycle (Default) (months)	39									
Comment										