				-	\!l	- O. I.							
Duidee File No					Bridge Culve				OLUM				
Bridge File Nu	mber	77366 -1 Bridge Culvert					Form Type		CULM				
Year Built		1993	D.T.I. O.D.				Lot No.		4				
Bridge or Town	n Name		ARTH CR	N. D.IV./ED			Inspector Name			Brian Pientsch			
Located Over		8.10.18.	ARY TO LOO .12.10, WATER	N RIVER, RCRS-ST			Inspector Class Assistant Name		BR CLS A	L_			
Located On			1 11.821						Clem Guenet	.e			
Water Body Cl	l./Year						Assistant Class Inspection Date		11-Jun-2012				
Navigabil. Cl./	Year						Data Entry By			eta			
Legal Land Lo	cation	SW SEC	C 1 TWP 89 R	GE 9 W5M			Data Entry Date		14-Oct-2012	Theresa Lacusta			
Longitude, Lat	itude	-115:18	:14, 56:41:04				Reviewer Name		Eric Carcoux				
Road Authority Alberta Transportation (AIT)			(AIT)			Review Date		08-Oct-2012					
Contract Main. Area CMA02								Steve Pasqua	n				
Clear Roadwa	y/Skew	14.5 /					Dept. Revie		07-Jan-2013				
AADT/Year		370 / 20)11 (A)				Follow-Up E						
Road Classific	ation	RAU-21	0-110					,					
Detour Length		200											
Bridge Culver													
Number of Cul			2	I					I	1	1		
Pipe #	Barrel		Span	Rise (or D	ia.)	Туре	Len	gth	Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN		-	2400		MP	38		125X26	2.8	ROUND		
2	MAIN		-	2400		MP	38		125X26	2.8	ROUND		
Special Featur	es												
Special Featur	es Comi	ment											
•													
					Uti	lities (L	Located at)						
Utility Attachm	ents												
Telephone	- ·	e oh - 25m East from road.					Gas	20m	East from road				
Power Others	3 WIFE	on - 25r	n East from roa	ad.			Municipal Problem (Y/	N) No					
Remarks							FlobleIII (17	IN) INO					
Remarks				Δnr	oroac	ch Road	d / Embankn	ent					
					ast	Now	Explanation		ition				
Horizontal Alig	nment		·		7	7	Land acces						
Vertical Alignm	nent				8	8							
Roadway Widt	th (m)		12.000										
						T _							
Embankment	-4\		F 0		7	7							
Sideslope (_		. 4 7\	5.0										
(Height of Co		1.7)	No										
Guardiali (1711)		INO										
Approach Roa	ad / Eml	bankmer	nt General Ra	ting	7	7							
						11,55							
Culvert Comp	onont					Now	Explanation	of Cond	ition				
(Pipe # : 1, Sp		e: Prima	ry Span)	L	. 431	14044	LAPIGNALIO	. or oona					
Direction	Jan Typ	<u> </u>	ry Opani)		N		South pipe.						
2.1.0000011		ete. Stee	I, STEEL	V	•		Water 700m	ım below o	crown.				
End Treatment Others, None)	t (Concre	,											
End Treatmen Others, None) Headwall	t (Concre				X	X							
Others, None)	t (Concre				X	X							
Others, None) Headwall	t (Concre												

				am End						
Culvert Component	• ,	Last	Now	Explanation of Condition						
(Pipe # : 1, Span Type: Primary	/ Span)		1							
Cutoff Wall		X	X							
Bevel End		5	N	(HEAVING FROM FIRST CIRCUMFERENTIAL SEAM. 05/05/15)						
Heaving (mm)	Heaving (mm) 100			Culvert not accessible.						
Invert Above/Below Stream Bed	BELOW			Water 700mm below crown.						
Above/Below (mm)	600									
Scour Protection		4	4	erosion along sides of bevel.						
(Type : NONE)										
(Avg. Rock Size(mm):)										
Scour/Erosion		4	4	Erosion 1m wide x 0.5m deep x 8m long at each side of bevel.						
Beavers (Y/N)	No									
Upstream End General Rating		4	4							
Culvert Company				Ivert Barrel						
Culvert Component	tion Code, MAIN Cod		Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca		ın (mm	1):	, Rise (mm): 2400, Type: MP) Water 700mm from crown						
Barrel Last Accessible Date	15-Jan-2000			Shape looks good as viewed from the ends.						
Special Features										
Special Feature										
(Type:)										
Special Feature										
(Type:)										
Roof		N	N							
Measured Rise (mm)										
Measured At Ring No.										
Sag (mm)	0									
Percent Sag										
Sidewall		N	N	(0.6% DEFLECTION - 00/01/15).						
Measured Span (mm)				(Span 2384 @ c/l - confirmed-00/01/15)						
Measured At Ring No.										
Deflection (mm)	16									
Percent Deflection										
Floor		N	N							
Bulge (mm)										
Measured At Ring No.										
Abrasion (Y/N)										
Circumferential Seams		N	N							
Separation (mm)	40									
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		N	N							
Corrosion By Soil (Y/N)	No									
Corrosion By Water (Y/N)	Yes		Page							

		Bri	dge Cu	Ivert Barrel
Culvert Component		Last Now		Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	1):	, Rise (mm): 2400, Type: MP)
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	Yes			Approx 1.7m ponding
Fish Passage Adequacy		7	7	
Baffle		Х	X	
(Type:)			_	
Waterway Adequacy		7	7	(1994/02/16)
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No		_	
Barrel General Rating		N	N	GR 8-15-Jan-2000
	1			ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			
Direction	I	E		South pipe
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		X	X	
Wingwalls		X	X	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		5	N	Water 700mm from crown
Heaving (mm)	75			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600		1	
Scour Protection		4	4	Sloughing banks around side of bevel. Erosion at each side of bevel.
(Type : NONE)				Liosion at each side of bevel.
(Avg. Rock Size(mm) :)				
Scour/Erosion		4	4	Erosion 1m deep x 0.5m wide x 1m long at each side of bevel.
Beavers (Y/N)	No			
Downstream End General Ratio	ng	4	4	
			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		W		NORTH PIPE
End Treatment (Concrete, Steel, Others, None)	STEEL			Water to 650mm below crown.
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		X	X	

77366 -1 Bridge Culvert

			Unetro	eam End
Culvert Component				Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)	Last	14044	Explanation of Condition
Bevel End	ary opan)	5	N	Water 650mm below crown.
Heaving (mm)	100	J	IN	water osofiini below crown.
Invert Above/Below Stream Bed	 			
Above/Below (mm)	600			
Scour Protection	000	4	4	Erosion along sides of bevel.
(Type : NONE)		4	4	Elosion along sides of bevel.
(Avg. Rock Size(mm):)				-
Scour/Erosion		4	4	Erosion 1.5m wide x 0.8m deep x 1.8m long along sides of bevel.
Scoul/E103i0i1		7		Liosion 1.5m wide x 0.6m deep x 1.6m long along sides of bevel.
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
		Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 2, Secondary Span, Lo	cation Code: MAIN,	Span (ı	nm):	, Rise (mm): 2400, Type: MP)
Barrel Last Accessible Date	15-Jan-2000			Water 650mm from crown. Shape looks good as viewed from the ends.
Special Features				ondo.
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		NI.	N	
		N	IN	
Measured At Bing No.				
Measured At Ring No.	0			-
Sag (mm)	0			
Percent Sag		N.	l NI	(00, 00/04/45)
Sidewall Street (1999)	0004	N	N	(20- 00/01/15)
Measured Span (mm)	2384			@ c/l
Measured At Ring No.	10			Inward-Jan-15, 2000
Deflection (mm)	16			_
Percent Deflection	1			
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)	40			
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		N	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

		Brio	lge Cu	ulvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (n	nm):	, Rise (mm): 2400, Type: MP)				
Ponding (Y/N)	Yes			Approx 1.750m				
Fish Passage Adequacy		7	7					
Baffle		Х	Х					
(Type:)								
Waterway Adequacy		7	7	(1994/02/16)				
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		N	N	GR 8-15-Jan-2000				
		D	ownstr	ream End				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 2, Span Type: Second	ary Span)							
Direction		Е		North pipe				
End Treatment (Concrete, Steel, Others, None)	STEEL			Water 650mm from crown.				
Headwall		Х	Х					
Collar		Х	Х					
Wingwalls		Х	Х					
(Shape:)								
Cutoff Wall		Х	Х					
Bevel End		5	N					
Heaving (mm)	75							
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	600							
Scour Protection		4	4	Sloughing banks around bevel.				
(Type : NONE)				Erosion at each side of bevel.				
(Avg. Rock Size(mm):)								
Scour/Erosion		4	4	Erosion 1m deep x 0.5m wide x 1m long at each side of bevel.				
Beavers (Y/N)	No							
Downstream End General Ratio	ng	4	4					
		S	tructu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)		1	1					
Alignment		7	7					
Bank Stability		7	7					
HWM (m below Top of Culvert)				HWM not visble.				
Drift (Y/N)	No							
Channel Bottom Degrading/Aggrading				Stable				
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	I.							
(Fish Compensation Measure 2 :								

Structure Usage								
Last Now Explanation of Condition								
Channel General Rating		7						

Bridge Inspection & Maintenance System (Web 2005)

77366 -1 Bridge Culvert

		Maintenan	ce Recommend	ations					
Inspector Recommendations	Department Com	nments	Target Year	Est. Cost	Cat #				
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	3								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 55.6/55	.6/55.6 Sufficiency Rating (Last/N		58.1/58.1	Est. Repl. Yr	2048	Maint. Re	qd. (Y/N)	No
Special Monitor erosion ald Comments for Next Inspection	ng sides of u/s a	and d/s bevel ends.		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	Brian Pientsch		Previous	Assistant's Name Lisbeth Medina					
Next Inspection Date	11-Mar-2014		Previous	Inspection Date	04-Aug-2010				
Inspection Cycle (Default) (months)	21								
Comment									