					Bridg	e Culve	ert Inspe		2111						
Bridge File Nur	nber	77633 -1 Bridge Culvert					Form T			CUL1					
Year Built		1964					Lot No.			4					
Bridge or Town Name BONNYVILLE						Inspector Name				Wade Nanninga					
Located Over TRAIL-ANIMAL, OVER SP							Inspector Class		BR CLS A	BR CLS A					
Located On 28:18 C1 12.543					Assistan			nt Name							
Water Body Cl./Year					Assistant Class										
Navigabil. Cl./Year					Inspection Date			09-Apr-201	09-Apr-2012						
Legal Land Location SW SEC 10 TWP 61 RGE 6 W4N					4M Data Entry By			ntry By	Theresa La	Theresa Lacusta					
Longitude, Latitude -110:49:29, 54:15:29						Data Entry Date		08-May-20	08-May-2012						
Road Authority Alberta Trans			Transportati	on (AIT)			Review	er Name	Eric Carco	Eric Carcoux					
Contract Main. Area CMA08							Review Date		25-Apr-201	12					
Clear Roadway	//Skew	11.1 /					Dept. Reviewer Name		me Brent Herri	ick					
AADT/Year		5,240 / 2	2011 (A)				Dept. F	Review Date	12-Jun-201	12					
Road Classifica	ation	RAU-21					Follow-	Up By							
Detour Length	(km)	5													
Bridge Culver															
Number of Culv			 1												
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length	Corr. Profil	e Pl./Slab Thickness	Shape				
1	MAIN		1738	1920		MPE		21.7	68X13	3.5	ELLIPSE				
Special Feature															
Special Feature		ment													
•															
					Ро	sting Ir	nformati	on							
Required Vert.															
Posted Vertical	Cleara	nce (Y/N)	)   N	lo											
Posted: Lane	NB	On E	Bridge (m)	In Adv	ance (	Y/N)	L	ane SB	On Bridge (m	ı) In Adva	nce (Y/N)				
Remarks	Not re	equired.													
Utility Attachme	ents 🗆				Uti	lities (L	ocated.	at)							
Telephone East & West r/w.					Uti	lities (L		,		40					
	East 8				Uti	lities (L	Gas	Pl	owed through ri	iver 40 m west.					
Power	East & 7 wire	s OH We	est r/w.		Uti	lities (L	Gas Municip	pal		iver 40 m west.					
Power Others	East & 7 wire Fibre	s OH We	est r/w. le West r/w.			lities (L	Gas	pal		iver 40 m west.					
Power	East & 7 wire Fibre	s OH We	est r/w.		of.		Gas Municip Probler	pal Plonal No.		iver 40 m west.					
Power Others	East & 7 wire Fibre	s OH We	est r/w. le West r/w.		of.	ch Road	Gas Municip Probler	Plopal m (Y/N) No	)	iver 40 m west.					
Power Others Remarks	Fibre BF tag	s OH We	est r/w. le West r/w.		of. pproac	ch Road Now	Gas Municip Probler	pal m (Y/N) No ankment ation of Co	ndition						
Power Others Remarks Horizontal Align	East & 7 wire Fibre BF tag	s OH We	est r/w. le West r/w.		of.  oproac  Last	Now 7	Gas Municip Probler  I / Emba Explan This sit	pal m (Y/N) No mankment ation of Co e is approx	n <b>dition</b> 20m North of Bl	iver 40 m west. F 08497. Curve &	intersection to				
Power Others Remarks Horizontal Align Vertical Alignm	East 8 7 wire Fibre BF tag	s OH We	est r/w. le West r/w. d on top of V		of. pproac	ch Road Now	Gas Municip Probler  I / Emba Explan This sit	pal m (Y/N) No mankment ation of Co e is approx	ndition		intersection to				
Power Others Remarks Horizontal Align	East 8 7 wire Fibre BF tag	s OH We	est r/w. le West r/w.		of.  oproac  Last	Now 7	Gas Municip Probler  I / Emba Explan This sit	pal m (Y/N) No mankment ation of Co e is approx	n <b>dition</b> 20m North of Bl		intersection to				
Power Others Remarks Horizontal Align Vertical Alignm	East 8 7 wire Fibre BF tag	s OH We	est r/w. le West r/w. d on top of V		of.  oproac  Last	Now 7	Gas Municip Probler  I / Emba Explan This sit	pal m (Y/N) No mankment ation of Co e is approx	n <b>dition</b> 20m North of Bl		intersection to				
Power Others Remarks Horizontal Align Vertical Alignm Roadway Width	East & 7 wire Fibre BF tag	s OH We	est r/w. le West r/w. d on top of V		of. oproac Last 7 7	Now 7 6	Gas Municip Probler  I / Emba Explan This sit	pal m (Y/N) No mankment ation of Co e is approx	n <b>dition</b> 20m North of Bl		intersection to				
Power Others Remarks Horizontal Align Vertical Alignm Roadway Width Embankment	Fibre BF tag  mment ent n (m)	es OH We optic cab g installed	est r/w. le West r/w. d on top of V		of. oproac Last 7 7	Now 7 6	Gas Municip Probler  I / Emba Explan This sit	pal m (Y/N) No mankment ation of Co e is approx	n <b>dition</b> 20m North of Bl		intersection to				
Power Others Remarks Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope (	East 8 7 wire Fibre BF tag  mment ent n (m)  _:1)  ver(m):	es OH We optic cab g installed	est r/w. le West r/w. d on top of V		of. oproac Last 7 7	Now 7 6	Gas Municip Probler  I / Emba Explan This sit	pal m (Y/N) No mankment ation of Co e is approx	n <b>dition</b> 20m North of Bl		intersection to				
Power Others Remarks Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope (	East & 7 wire Fibre BF tag	es OH We optic cab g installed	est r/w. ele West r/w. d on top of V  11.000  2.0	A	of. oproac Last 7 7	Now 7 6	Gas Municip Probler  I / Emba Explan This sit	pal m (Y/N) No mankment ation of Co e is approx	n <b>dition</b> 20m North of Bl		intersection to				
Power Others Remarks Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope (	East & 7 wire Fibre BF tag	es OH We optic cab g installed	est r/w. ele West r/w. d on top of V  11.000  2.0	A	Definition of the second secon	Now   7   6   7	Gas Municip Probler  I / Emba Explan This sit South.	ankment ation of Co e is approx 3 Blind crest of	n <b>dition</b> 20m North of Bl		intersection to				
Power Others Remarks Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope (	East & 7 wire Fibre BF tag	es OH We optic cab g installed	est r/w. ele West r/w. d on top of V  11.000  2.0	A	of.  opproace Last 7 7	Now 7 6 7	Gas Municip Probler  I / Emba Explan This sit South.	pal m (Y/N) No ankment ation of Co e is approx 2 Blind crest of	ndition 20m North of Blurve to north.		intersection to				
Power Others Remarks Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope (	East & 7 wire Fibre BF tag	es OH We optic cab g installed	est r/w. ele West r/w. d on top of V  11.000  2.0	A	of.  oproac  Last  7  7  The state of the st	Now   7   6   7	Gas Municip Probler  I / Emba Explan This sit South.	ankment ation of Co e is approx 3 Blind crest of	ndition 20m North of Blurve to north.		intersection to				
Power Others Remarks  Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope (	Fast 8 7 wire Fibre BF tag  mment ent n (m)  :1)  ver(m):	es OH We optic cab g installed	est r/w. ele West r/w. d on top of V  11.000  2.0  Yes  At General F	A	of.  opproace Last 7 7	Now 7 6 7	Gas Municip Probler  I / Emba Explan This sit South.	pal m (Y/N) No ankment ation of Co e is approx 2 Blind crest of	ndition 20m North of Blurve to north.		intersection to				
Power Others Remarks  Horizontal Align Vertical Alignm Roadway Width Embankment Sideslope ( (Height of Co Guardrail (Y/N)  Approach Roa  Culvert Compo	Fast 8 7 wire Fibre BF tag  mment ent n (m)  :1)  ver(m):	es OH We optic cab g installed	est r/w. ele West r/w. d on top of V  11.000  2.0  Yes  At General F	A	of.  oproac  Last  7  7  The state of the st	Now 7 6 7	Gas Municip Probler  I / Emba Explan This sit South.	pal m (Y/N) No ankment ation of Co e is approx 2 Blind crest of	ndition 20m North of Blurve to north.		intersection to				

77633 -1 Bridge Culvert

			Lingtro	om End
Culvert Component		Last	Now	am End Explanation of Condition
Wingwalls		X	X	Explanation of Condition
(Shape: )				
Cutoff Wall		Х	Х	
Cuton wan		_ ^	_ ^	
Bevel End		Х	Х	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		4	5	
(Type: NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		4	5	
	I			
Beavers (Y/N)	No			
Upstream End General Rating	1	4	5	
opstream End General Rating		_		
				vert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca		n (mm	ı): 1738	, Rise (mm): 1920, Type: MPE)
Barrel Last Accessible Date	09-Apr-2012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		5	5	Crown at outlet torn by mower.
Measured Rise (mm)	1790	J		Clown at outlet tom by mower.
Measured At Ring No.	1790			
Sag (mm)	130			
Percent Sag	7			
Sidewall	<i>'</i>	5	5	Near c/l.
Measured Span (mm)	1830	3	3	Ineal Cit.
	1630			
Measured At Ring No.  Deflection (mm)	92			
Percent Deflection	5			
	J	NI	N.I	Dirt covered
Floor		N	N	Dirt covered.
Bulge (mm)  Measured At Ring No.				
·				
Abrasion (Y/N)				
Circumferential Seams	110	5	5	
Separation (mm)	110	_	T -	
Longitudinal Seams		5	5	Riveted.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		6	7	Active at soil interface on outside at ends. Rust spots on roof.
Corrosion By Soil (Y/N)	Yes			Lower 1/4 pitting rust.
Corrosion By Water (Y/N)	No		Page	

		Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm	n): 1738	s, Rise (mm): 1920, Type: MPE)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	Х	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		X	X	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	5	
	1			ream End
Culvert Component			Now	Explanation of Condition
Direction	I	W		
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape: )				
Cutoff Wall		X	X	
Bevel End		Х	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		X	4	Scour from embankment flow at outlet.
(Type: <b>NATURAL</b> )				
(Avg. Rock Size(mm):)			_	
Scour/Erosion		Х	4	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	7	4	
			Structu	re Usage
			Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	
Roadway Surface		8	8	
				Quad tracks in barrel. Not used for animal trail.
(Type : SOIL)				
Icing (Y/N)	No			

		S	tructu	re Usage
		Last	Now	Explanation of Condition
Traffic Safety Features		Х	X	
Туре				
Lighting		X	X	
Barrel Leakage (Y/N)	Barrel Leakage (Y/N) No			
Drainage		5	5	
Structure In Use (Y/N) Yes				
Grade Separation General Rating		5	5	

				Mai	intenance R	ecommen	dations							
Inspector Recommendations	Y	ear	Inspecto	r Comments			Department Cor	mmen	its		Targ	et 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 (%)	low) 55	5.6/55.6	3	Sufficiency F	Rating (Last	Now)	65.1/62.9	Es	t. Repl. Yr	2018	N	/laint. Re	eqd. (Y/N)	No
Special Comments for Next Inspection							Department Comments							
Maintenance Reviewed By							Date			E	Estima	ited Tota	ı O	
Proposed Long-Term Strategy														
On 3-Year Program (Y/N)														
Proposed Action														
Previous Inspector's Name	Shane Ha	all				Previous	Assistant's Name							
Next Inspection Date	09-Jan-20	014				Previous	Inspection Date		15-Jul-2010					
Inspection Cycle (Default) (months)	21													
Comment														