						e Culve	ert Inspection							
Bridge File Num		77106 -1 Bridge Culvert					Form Type		CUL1					
Year Built		1970					Lot No.		3					
Bridge or Town		MORLEY					Inspector Name		Garry Roberts					
Located Over			NIMAL, OVEF	R SP			Inspector Class		BR CLS A					
Located On		1A:04 C1 16.823					Assistant Name							
Water Body Cl.	/Year						Assistant Class							
Navigabil. Cl./Y	ear						Inspec	nspection Date 31-Aug-2012						
Legal Land Loc	ation	NW SEC 27 TWP 25 RGE 7 W5					Data Entry By		Lauren Korte					
Longitude, Latit	ude	-114:54:13, 51:09:51						ntry Date	03-Oct-2012					
Road Authority		Alberta Transportation (AIT)					Reviewer Name		Joel Wozney	Joel Wozney				
Contract Main.	Area	CMA28					Review Date		20-Sep-2012					
Clear Roadway							Dept. Reviewer Name		Tim Davies					
AADT/Year	•				Dept. Review Date			Review Date	11-Oct-2012					
Road Classifica	ition	RAU-209	9-110				Follow-	Up By						
Detour Length ((km)	3												
Bridge Culvert														
Number of Culv		1												
	Barrel			Rise (or D	ia.)	Туре		Length	Corr. Profile	Pl./Slab Thickness	Shape			
1	MAIN	1	760	2280		RPP		20.1	152X51	3.5	PIPE ARCH			
Special Feature	es	С	ONC FLOOR			'			<u>'</u>		<u>'</u>			
Special Feature	s Comn	nent												
					Ро	sting Ir	nformati	on						
Required Vert.	Clearan	ce Postin	g (m)											
Posted Vertical	Clearar	nce (Y/N)												
Posted: Lane	NB	On Br	ridge (m)	In Adva	nce (Y/N)	L	ane SB (On Bridge (m)	In Advance	ce (Y/N)			
Remarks	Not re	quired.			·					·				
					Uti	lities (L	ocated	at)						
Utility Attachme	nts													
Telephone	North	th & South ditch.												
Power		a court ditoll.					Gas							
		J. 000	ditch.				Gas Municij	pal						
Others			ditch.											
Others Remarks	Loose	cable @					Municip							
	Loose			App	oroac	ch Road	Municip Proble							
	Loose				oroac	ch Road	Municip Probles	m (Y/N) Yes	ition					
							Municip Problem I / Emba Explan	ankment ation of Cond ve. Posted spe						
Remarks	nment				_ast	Now	Municip Problem I / Emba Explan	m (Y/N) Yes ankment ation of Cond						
Remarks Horizontal Align	nment ent				ast 5	Now 5	Municip Problem I / Emba Explan	ankment ation of Cond ve. Posted spe						
Remarks Horizontal Align Vertical Alignment	nment ent		D/S end.		ast 5	Now 5	Municip Problem I / Embar Explan	ankment ation of Cond ve. Posted spe						
Horizontal Align Vertical Alignme Roadway Width Embankment	ent (m)		D/S end.		5 6	Now 5 6	Municip Problem I / Embar Explan	ankment ation of Cond ve. Posted spe						
Horizontal Align Vertical Alignme Roadway Width Embankment Sideslope (nment ent n (m)	cable @	D/S end.		5 6	Now 5 6	Municip Problem I / Embar Explan	ankment ation of Cond ve. Posted spe						
Horizontal Align Vertical Alignme Roadway Width Embankment	nment ent n (m)	cable @	D/S end.		5 6	Now 5 6	Municip Probles I / Emba Explan On cur On gra	ankment ation of Cond ve. Posted spe dual grade.		NW turndown ei	nd damaged.			
Horizontal Align Vertical Alignme Roadway Width Embankment Sideslope ((Height of Cor Guardrail (Y/N)	mment ent in (m) :1) ver(m) :	cable @ 0.6)	D/S end. 6.700 3.0 Yes	L	5 6	Now 5 6	Municip Probles I / Emba Explan On cur On gra	ankment ation of Cond ve. Posted spe dual grade.	ed 80 km/hr.	NW turndown ei	nd damaged.			
Horizontal Align Vertical Alignme Roadway Width Embankment Sideslope (mment ent in (m) :1) ver(m) :	cable @ 0.6)	D/S end. 6.700 3.0 Yes	L	5 6 6	Now 5 6 6 6 5	Municip Problem I / Emba Explan On cur On gra	ankment ation of Cond ve. Posted spe dual grade.	ed 80 km/hr.	NW turndown ei	nd damaged.			
Horizontal Align Vertical Align Roadway Width Embankment Sideslope (ent ent (m) :1) ver(m) :	cable @ 0.6)	D/S end. 6.700 3.0 Yes	ing	-ast 5 6 6 6 5	Now 5 6 6 5 Upstre	Municip Problem I / Emba Explan On cur On gra	ankment ation of Cond ve. Posted spe dual grade.	ed 80 km/hr.	NW turndown ei	nd damaged.			
Horizontal Align Vertical Alignme Roadway Width Embankment Sideslope (ent ent (m) :1) ver(m) :	cable @ 0.6)	D/S end. 6.700 3.0 Yes	ing	5 6 6	Now 5 6 6 6 5	Municip Probles I / Emba Explan On cur On gra	ankment ation of Cond ve. Posted spe dual grade. broken posts	ed 80 km/hr.	NW turndown ei	nd damaged.			
Remarks Horizontal Align Vertical Alignme Roadway Width Embankment Sideslope (ment ent (m) :1) ver(m) :	cable @	D/S end. 6.700 3.0 Yes t General Rat	ing	-ast 5 6 6 6 5	Now 5 6 6 5 Upstre	Municip Problem I / Emba Explan On cur On gra	ankment ation of Cond ve. Posted spe dual grade. broken posts	ed 80 km/hr.	NW turndown er	nd damaged.			
Remarks Horizontal Align Vertical Alignme Roadway Width Embankment Sideslope (ment ent (m) :1) ver(m) :	cable @	D/S end. 6.700 3.0 Yes t General Rat	ing	-ast 5 6 6 6 5	Now 5 6 6 5 Upstre	Municip Probles I / Emba Explan On cur On gra	ankment ation of Cond ve. Posted spe dual grade. broken posts	ed 80 km/hr.	NW turndown ei	nd damaged.			

77106 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Wingwalls		Х	X	
(Shape :)				
Cutoff Wall		Х	X	
Bevel End		Х	Х	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		6	6	
(Type : NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
		Brid	dge Cu	Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1760	, Rise (mm): 2280, Type: RPP)
Barrel Last Accessible Date	31-Aug-2012			
Special Features				
Special Feature		7	7	
(Type : CONC FLOOR)				
Special Feature				
(Type:)				
Roof		7	7	
Measured Rise (mm)				
Measured At Ring No.				Estimate.
Sag (mm)	40			
Percent Sag	2			
Sidewall		7	7	Inward.
Measured Span (mm)	1720			
Measured At Ring No.	4			
Deflection (mm)	40			
Percent Deflection	2		_	
Floor		N	N	Covered with concrete.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No		1	
Circumferential Seams	I	7	7	
Separation (mm)	0		1	
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		6	6	Minor superficial rust on sidewall near outlet & @ exterior of roof @
Corrosion By Soil (Y/N)	No			North.
Corrosion By Water (Y/N)	Yes			

		Bri	dge Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1760	, Rise (mm): 2280, Type: RPP)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		Х	X	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		Х	Х	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		7	7	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
Direction				South end.
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		Х	X	
Collar		Х	X	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	X	
Bevel End		Х	X	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		5	5	
(Type : NATURAL)				
(Avg. Rock Size(mm):)				
Scour/Erosion		5	5	2m diameter erosion 300mm deep @ end of pipe - OK for cattle.
Beavers (Y/N)	No			
Downstream End General Ratio	ng	5	5	
				re Usage
		Last	Now	Explanation of Condition
Grade Separation		T	T	
Road Alignment		X	X	
Roadway Surface		6	6	
(Type : CONCRETE)				Concrete floor with 50mm dirt @ D/S 1/4.
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Туре	NONE			
Lighting		Х	X	
Barrel Leakage (Y/N)	No			

Structure Usage								
		Last	Now	Explanation of Condition				
Drainage		6	6					
Structure In Use (Y/N) Yes								
Grade Separation General Rating		6	6					

77106 -1 Bridge Culvert

			Maintenance Re	commend	ations					
Inspector Recommendations	Ye	ear	Inspector Comments		Department Com	nents		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	20	13	Ditch in D/S phone cable.							
OTHER ACTION)13	Replace 4 posts @ North & South, R one turndown end @ NW	teplace						
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N	low) 77) 77.8/77.8 Sufficiency Rating (Last/		Now)	78.8/78.9	Est. Repl. Yr	2028	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		Е	stimated Tota	I 0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Garry Rob	berts		Previous	Assistant's Name					
Next Inspection Date	31-May-20	31-May-2014			Previous Inspection Date 07-Dec-2010					
Inspection Cycle (Default) (months)	21									
Comment										