Bridge Culvert Inspection													
Bridge File Nun	nber					Form Type			CULM				
Year Built		1980	<u> </u>				71		2				
Bridge or Town	Name		R				Inspecto	r Name		Todd Warshawski			
Located Over							Inspector Class			BR CLS B			
6.87.2, V							Assistant Name			BITOLOB			
Located On		39:10 C	1 5.481				Assistan						
Water Body Cl.					Inspectio			07-Jan-2013					
Navigabil. Cl./Y	'ear					Data En			Theresa Lacu	sta			
Legal Land Loc	C 29 TWP 49 R	RGE 27 W	4M		Data En			22-Jan-2013					
Longitude, Latit	:11, 53:15:54				Reviewe			Eric Carcoux					
Road Authority Alberta Transportation (A										16-Jan-2013			
Contract Main.	Contract Main. Area CMA11						Review		Namo	Brent Herrick			
Clear Roadway	Clear Roadway/Skew 13.5 /						Dept. Re			23-Jan-2013			
AADT/Year 4,570 / 2011 (A)							Follow-L			23-Jan-2013			
Road Classifica	ation	RAU-21	3.4-120					р Бу					
Detour Length ((km)	3					1						
Bridge Culvert		ation								1			
Number of Culv			3										
Pipe #	Barrel		Span	Rise (or [Dia.)	Туре	l	_ength		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN	/AIN 1651 1016 FP		FP	:	30		68X13	2.8	ARCH			
2	MAIN		1651	1016		FP	3	30		68X13	2.8	ARCH	
3	MAIN		-	600		MP	2	26		68X13	2.0	ROUND	
Special Feature							I			1			
Special Feature		ment	No BF tag foun	nd.									
			-										
					Uti	lities (L	_ocated a	it)					
Utility Attachme													
Telephone		& North					Gas						
Power	2 wire	s North	r/w.				Municipa						
Others							Problem (Y/N) No						
Remarks													
					-		d / Embar		0				
Harizantal Aliar	mont				Last 9	Now	Explana	tion of	Conai	tion			
Horizontal Align						9	-						
Vertical Alignme	ent				8	8							
Roadway Width	Roadway Width (m)		13.500										
Embankment													
Sideslope (8	8							
· · · · · · · · · · · · · · · · · · ·			6.0		8	8	-						
		: 1.1)			8	8							
(Height of Co Guardrail (Y/N)	ver(m)	: 1.1)			8	8	-						
(Height of Co Guardrail (Y/N)	ver(m) :		6.0 No		8	8							
(Height of Co	ver(m) :		6.0 No	ing	8	8							
(Height of Co Guardrail (Y/N) Approach Roa	ver(m) : nd / Eml		6.0 No		8	8 Upstre	am End						
(Height of Co Guardrail (Y/N) Approach Roa Culvert Compo	ver(m) : nd / Eml onent	bankme	6.0 No nt General Rat		8	8	am End Explana	tion of (Condi	tion			
(Height of Co Guardrail (Y/N) Approach Roa Culvert Compo (Pipe # : 1, Spa	ver(m) : nd / Eml onent	bankme	6.0 No nt General Rat		8 Last	8 Upstre	Explana		Condi	tion			
(Height of Co Guardrail (Y/N) Approach Roa Culvert Compo	ver(m) : nd / Eml onent	bankme	6.0 No nt General Rat		8	8 Upstre			Condi	tion			
(Height of Co Guardrail (Y/N) Approach Roa Culvert Compo (Pipe # : 1, Spa	ver(m) : nd / Eml onent an Type	oankmei e: Prima	6.0 No nt General Rat		8 Last	8 Upstre	Explana		Condi	tion			

Upstream End											
Culvert Component		Last		Explanation of Condition							
(Pipe # : 1, Span Type: Primary	/ Span)										
Collar		Х	X								
Wingwalls		X	X								
(Shape:)											
Cutoff Wall		X	X								
Bevel End		5	5	Mower damage, 150 x 150mm tear.							
Heaving (mm)	0			Floor not rated.							
Invert Above/Below Stream Bed	BELOW										
Above/Below (mm)	200			-							
Scour Protection	1	7	N	Snow cover							
(Type : RIP RAP)											
(Avg. Rock Size(mm) : 250)											
Scour/Erosion		7	N								
Beavers (Y/N)	No										
Upstream End General Rating		5	5								
		_									
				Ivert Barrel							
Culvert Component		Last		Explanation of Condition							
(Pipe # : 1, Primary Span, Loca		oan (mm): 1651								
Barrel Last Accessible Date	07-Jan-2013			West barrel.							
Special Features			1								
Special Feature											
(Type:)				_							
Special Feature				_							
(Type:)											
Roof		N	5								
Measured Rise (mm)	980			Rise not measured due to ice.							
Measured At Ring No.				Sag est @ less than 5%.							
Sag (mm)	36			_							
Percent Sag	4										
Sidewall		N	4	Pitting rust on lower portions.							
Measured Span (mm)	1720										
Measured At Ring No.											
Deflection (mm)	69										
Percent Deflection	4										
Floor		N	N	Covered with ice.							
Bulge (mm)	0										
Measured At Ring No.											
Abrasion (Y/N)											
Circumferential Seams		N	5	Ring 1							
Separation (mm)	120										
Longitudinal Seams		Х	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)				-							

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
	Last	Now	Explanation of Condition						
tion Code: MAIN, Spa	ın (mm								
	N	4	Pitting rust on floor and lower sidewall.						
No									
Yes									
NEG									
Yes			Due to debris at outlet.						
	5	4	Outlet blocked with debris.						
	X	Х							
	5	4							
No									
Yes									
	4	4							
		ownet	soom End						
			Explanation of Condition						
(Span)	Last								
opuny	N		West pipe.						
STEEL			west pipe.						
SILL									
	X	Х							
	X	Х							
	X	Х							
	1	-							
	X	X							
	N	N	Covered with silt/snow.						
0									
BELOW									
500									
	N	N	Snow covered						
	N	N							
No									
ng	7	7	GR carried fwd.						
		Upstre	am End						
			Explanation of Condition						
lary Span)									
	S		Centre pipe.						
STEEL									
	Х	X							
		<u> </u>							
	No Yes NEG Yes Yes No Yes No Yes No Yes No Yes No Yes No STEEL 0 BELOW 500	LastINCOCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	LastNowNoNNoNNoNYesIYesIYesXXXYesSNoSYesSNoSYesSNoSYesSNoSYesANoSYesAYesSNoSYesAYesNoYesNYesXXXYesXXXYesX <t< td=""></t<>						

			Upstre	am End
Culvert Component		Last		Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Wingwalls		Х	Х	
(Shape :)				
Cutoff Wall		Х	Х	
Bevel End	1	6	5	
Heaving (mm)	100			
Invert Above/Below Stream Bed				-
Above/Below (mm)	0		1	
Scour Protection		7	N	Snow covered.
(Type : RIP RAP)				-
(Avg. Rock Size(mm) : 250)			1	
Scour/Erosion		7	N	
Beavers (Y/N)	No			
Upstream End General Rating	1	6	5	
		Brid	dae Cu	lvert Barrel
Culvert Component		Last		Explanation of Condition
	cation Code: MAIN. S			651, Rise (mm): 1016, Type: FP)
Barrel Last Accessible Date	07-Jan-2013	opun (i	<u>,</u>	
Special Features				
Special Feature				
(Type :)			1	
Special Feature				
(Туре :)				
Roof		N	6	
Measured Rise (mm)	900			75mm floor bulge
Measured At Ring No.	2			
Sag (mm)	40			
Percent Sag	4			
Sidewall		N	4	
Measured Span (mm)	1760			Pitting rust on lower sidewall.
Measured At Ring No.	3			· ····································
Deflection (mm)	109			
Percent Deflection	7			
Floor		N	4	
Bulge (mm)	75			
Measured At Ring No.	2			
Abrasion (Y/N)	No			
Circumferential Seams		N	4	Minor infiltration
Separation (mm)	150			
Longitudinal Seams		X	Х	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				1
Longitudinal Stagger (Y/N)				1

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dge Cu	Ivert Barrel
Culvert Component				Explanation of Condition
	cation Code: MAIN, §			651, Rise (mm): 1016, Type: FP)
Coating		N	4	Pitting rust on floor and lower sidewall.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	Yes			
Fish Passage Adequacy		5	X	
Baffle		Х	Х	
(Type :)				
Waterway Adequacy		4	4	Silt and weed blocking waterway.
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		3	4	
			1	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		N		Center pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape :)				
Cutoff Wall		X	Х	
Bevel End		N	5	Floor not rated
Heaving (mm)	50			
Invert Above/Below Stream Bed				-
Above/Below (mm)	100		1	
Scour Protection		N	N	Snow covered.
(Type : RIP RAP)				-
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Downstream End General Ratin	ng	7	5	
			Instre	am End
Culvert Component		1		Explanation of Condition
(Pipe # : 3, Span Type: Second	arv Span)			
Direction		S		East barrel.
End Treatment (Concrete, Steel,	NONE	5		
Others, None) Headwall		Х	X	
Collar		X	X	

	Upstream End								
Culvert Component		Last		Explanation of Condition					
(Pipe # : 3, Span Type: Second	lary Span)								
Wingwalls		Х	Х						
(Shape :)									
Cutoff Wall		Х	Х						
Bevel End		Х	X						
Heaving (mm)									
	BELOW			-					
Above/Below (mm)	100								
Scour Protection		Ν	N	Snow covered					
(Type : RIP RAP)				-					
(Avg. Rock Size(mm) : 250)									
Scour/Erosion		N	N						
Beavers (Y/N)	No								
Upstream End General Rating		7	7	GR carried fwd.					
		Brid	dae Cu	Ivert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 3, Secondary Span, Lo	cation Code: MAIN, S	pan (r	nm):	, Rise (mm): 600, Type: MP)					
Barrel Last Accessible Date				East barrel. Not accessible. Buried in snow.					
Special Features									
Special Feature									
(Type:)	I								
Special Feature									
(Туре :)	,								
Roof		N	N						
Measured Rise (mm)									
Measured At Ring No.									
Sag (mm)									
Percent Sag									
Sidewall		N	N						
Measured Span (mm)									
Measured At Ring No.									
Deflection (mm)									
Percent Deflection									
Floor		N	N						
Bulge (mm)									
Measured At Ring No.									
Abrasion (Y/N)									
Circumferential Seams		N	N						
Separation (mm)									
Longitudinal Seams		Х	Х						
Total No. of Cracked Rings				1					
Total No. of Rings with Two Cracked Seams									
Min. Remaining Steel Between Cracks (mm)									
Proper Lap (Y/N)									
Longitudinal Stagger (Y/N)									

Bridge Inspection & Maintenance System (Web 2005)

07991 -1 Bridge Culvert

		Brid	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Lo	cation Code: MAIN, S	Span (r	nm):	, Rise (mm): 600, Type: MP)
Coating		N	N	Pitting & scaling (1-11 o'clock) evident from end of pipeJune-2009
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	Х	
Baffle		Х	Х	
(Type :)				
Waterway Adequacy		N	N	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	
		D		ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Second	ary Span)			
Direction		N		East pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		Х	X	
Wingwalls		Х	Х	
(Shape :)				
Cutoff Wall		Х	Х	
Bevel End		Х	Х	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		N	N	Snow covered
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		N	N	
Beavers (Y/N)	No		1	
Downstream End General Ratir	ng	7	7	GR carried fwd.
		s	Structu	re Usage
		Last		Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	No defined channel. Appears to be a drain ditch. Enters at 90 deg.
Bank Stability		7	N	Snow covered
HWM (m below Top of Culvert)	0.0			Water to abutJan-200-

Structure Usage									
		Last	Now	Explanation of Condition					
Channel Bottom Degrading/Aggrading									
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating 5									

Maintenance Recommendations												
Inspector Recommendations Y			'ear	Inspector Comments		Department Com		Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS												
PLACE ADDITIONAL	. RIP RAP											
REMOVE DRIFT ACC	CUMULATION	20	013	Remove silt from outlets.								
INSTALL CONCRETE	E/STEEL LINING											
INSTALL STRUTS												
INSTALL CONCRETE	E COLLAR/CUTO	FF										
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition (%)	Structural Condition Rating (Last/Now) (%)			4 Sufficiency Rating (Last/N (%)	low) 4	10.8/37.5	Est. Repl. Yr	2020	Maint. Red	qd. (Y/N)	Yes	
Special Mo Comments for Next Inspection	comments for					Department Comments						
Maintenance Reviewe	ed By					Date		E	stimated Total	0		
Proposed Long-Term	Strategy											
On 3-Year Program ()	Y/N)											
Proposed Action												
Previous Inspector's N	Name	Todd Wa	arshaws	ski	Previous A	Assistant's Name						
Next Inspection Date		07-Oct-20	014		Previous I	Inspection Date 13-Apr-2011						
Inspection Cycle (Defa	fault) (months)	21										
Comment												