					Brida	e Culve	ert Insp	ection					
Bridge File Nur	nber	07410 -	1 Bridge Culve		J		Form			CULM			
Year Built		1949	<u> </u>				Lot No			1			
Bridge or Town	Name	COUTT	S				Inspec	tor Name		Jason Rusu			
Located Over		TRIBUT	ARY TO MILK	RIVER, 1	.11,		Inspector Class		BR CLS A				
			CRS-ST				Assista	Assistant Name					
Located On		500:02	C1 18.654				Assistant Class						
							Inspec	tion Date		08-Jun-2012			
							Data E	ntry By		Kelsey Robert	 S		
		SE SEC	2 18 TWP 1 RG	E 13 W4N	<b>VI</b>			ntry Date		16-Jul-2012			
								ver Name		Garry Roberts			
Road Authority	pocated On fater Body CI./Year avigabil. CI./Year avigabil. CI./Year agal Land Location SE SEC 18 TWP 1 RGE 13 Wight and Authority Alberta Transportation (AIT) and Authority Alberta Transportation (AIT) and Authority Alberta Transportation (AIT) and Carlo (AIT) and Carlo (AIT) and Classification are tour Length (km) and Classification are tour Length (km) and Carlo (AIT) and Carl		(AIT)			Review Date			10-Jun-2012				
Contract Main.	Area	CMA24					Dept. I	Reviewer Na	me	Tim Davies			
Clear Roadway	//Skew	7.3 /					•	Review Date		17-Jul-2012			
AADT/Year		110 / 20	)11 (A)					-Up By					
Road Classifica	ation							. ,					
	` '												
								1.			I		
Pipe #	Barrel		Span	Rise (or I	Dia.)	Type		Length		Corr. Profile	Pl./Slab Thickness	Shape	
1	MAIN		_	1200		MP		14.6			THIORICSS	ROUND	
2			_			MP		14.6				ROUND	
3			_			MP		14.6				ROUND	
_				1200		1411		14.0		l		ROOND	
Special Feature	es Comi	ment			Uti	lities (L	ocated	at)					
Utility Attachme	ents					,							
Telephone		Row	 Row				Gas						
Power	North	row						Municipal					
Others							Problem (Y/N) No						
Remarks													
				Aŗ	proac	ch Road	l / Emb	ankment					
					Last	Now	Explai	nation of Co	ndi	tion			
Horizontal Align	nment				8	8	Residential access east side						
Vertical Alignm	ent				8	8							
Roadway Width	n (m)		8.000										
Embankment					7	7	height	of cover 3.6					
Sideslope (	_:1)		2.0				]						
(Height of Co	ver(m)	3.6)											
Guardrail (Y/N)			No										
Approach Roa	d / Eml	bankmer	nt General Rat	ing	8	8							
						Upstre	am Enc						
<b>Culvert Compo</b>	onent				Last			nation of Co	ndi	tion			
(Pipe # : <b>1, Sp</b>	an Typ	e: Prima	ry Span)										
Direction					N		North	st west pipe	e				
End Treatment Others, None)	(Concre	ete, Stee	I, STEEL										
Headwall					Х	Х							
Collar					Х	Х							

	Upstream End									
<b>Culvert Component</b>		Last	Now	Explanation of Condition						
(Pipe #: 1, Span Type: Primary	/ Span)									
Wingwalls		Х	X							
(Shape: )										
Cutoff Wall		Х	Х							
Bevel End		6	6							
Heaving (mm)	0									
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm)	50									
Scour Protection		5	5							
(Type: RIP RAP)										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		5	5							
Beavers (Y/N)	No									
Upstream End General Rating	I.	5	5							
		Dei	dae Cr	lvert Barrel						
Culvert Component		1	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN Sna			, Rise (mm): 1200, Type: MP)						
Barrel Last Accessible Date	lion code. MAIN, opa	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u>,.                                    </u>	Both west pipes are 1/2 full						
				Both west pipes are 1/2 full						
Special Features		1	1							
Special Feature										
(Type:)										
Special Feature										
(Type:)										
Roof		N	N	Viewed from ends West pipe appears as negative sag at Mid-span.						
Measured Rise (mm)				- vvest pipe appears as negative sag at iviid-span.						
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										
Total No. of Rings with Two Cracked Seams										
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)										
Longitudinal Stagger (Y/N)										
Longitudina olaggor (1/14)	4									

		Bric	lge Cul	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	):	, Rise (mm): 1200, Type: MP)
Coating		N	N	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Span Type: Primary	Span)			
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		Х	X	
(Shape: )				
Cutoff Wall		Х	Х	
Bevel End		5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		5	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm): 300)				
Scour/Erosion		5	5	
Beavers (Y/N)	No		'	
Downstream End General Ratio	ng	5	5	
			Upstre	am End
Culvert Component				Explanation of Condition
(Pipe #: 2, Span Type: Second	ary Span)			
Direction		N		2nd pipe from west
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	Х	
Collar		Х	Х	

Upstream End									
<b>Culvert Component</b>		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	lary Span)								
Wingwalls		Х	Х						
(Shape: )									
Cutoff Wall		Х	Х						
Bevel End	I	5	3	Bevel end is completely detached					
Heaving (mm)	0								
Invert Above/Below Stream Bed									
Above/Below (mm)	0								
Scour Protection		5	5						
(Type : <b>RIP RAP</b> )									
(Avg. Rock Size(mm) : <b>300</b> )									
Scour/Erosion		5	5						
Beavers (Y/N)	No								
Deavers (1/N)	INO								
<b>Upstream End General Rating</b>		5	3						
		1	T	Ivert Barrel					
Culvert Component			Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, 8	pan (r	nm):	, Rise (mm): 1200, Type: MP)					
Barrel Last Accessible Date				Not bridge sized - water too high					
Special Features									
Special Feature									
(Type:)									
Special Feature									
(Type:)									
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		N	N						
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 Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition							
(Pipe #: 2, Secondary Span, Lo	cation Code: MAIN, S	Span (n	nm):	, Rise (mm): 1200, Type: MP)							
Coating		Х	N								
Corrosion By Soil (Y/N)											
Corrosion By Water (Y/N)											
Camber POS/ZERO/NEG	ZERO										
Ponding (Y/N)	No										
Fish Passage Adequacy		Х	Х								
Baffle		5	N								
(Type:)											
Waterway Adequacy		Х	5								
Icing (Y/N)	No										
Silting (Y/N)	No										
Drift (Y/N)	No										
Barrel General Rating		5	N								
		D	ownstr	eam End							
Culvert Component		Last	Now	Explanation of Condition							
(Pipe # : 2, Span Type: Second	ary Span)										
Direction		S									
End Treatment (Concrete, Steel, Others, None)	STEEL										
Headwall		X	X								
Collar		Х	Х								
Wingwalls		Х	Х								
(Shape: )											
Cutoff Wall		Х	Х								
Bevel End		5	5								
Heaving (mm)	0										
Invert Above/Below Stream Bed											
Above/Below (mm)	0										
Scour Protection	-	5	5								
(Type : RIP RAP)											
(Avg. Rock Size(mm) : <b>300</b> )											
Scour/Erosion		5	5								
Beavers (Y/N)	No										
Downstream End General Ratir	ng	5	5								
			Unstre	am End							
Culvert Component				Explanation of Condition							
(Pipe # : 3, Span Type: Second	arv Span)										
Direction	<i>y</i> = [,	N		3rd pipe from west							
End Treatment (Concrete, Steel, Others, None)	STEEL	.,		ora pipo nom moot							
Headwall	<u> </u>	Х	Х								
Collar		Х	X								

			linetre	am End
Culvert Component				Explanation of Condition
(Pipe # : 3, Span Type: Second	lary Span)	Lust	11011	Explanation of condition
Wingwalls	iary opani,	Х	Х	
(Shape: )		<u> </u>		
Cutoff Wall		Х	Х	
Odion Wan				
Bevel End		5	4	Uncoupled from barrel
Heaving (mm)	50			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		5	5	
(Type: RIP RAP)				
(Avg. Rock Size(mm): 300)				
Scour/Erosion		5	5	
	I			
Beavers (Y/N)	No			
Upstream End General Rating		5	4	
			_	
				Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Lo		Span (r	nm):	, Rise (mm): 1200, Type: MP)
Barrel Last Accessible Date	08-Jun-2012			Nor bridge sized
Special Features				
Special Feature				3rd pipe 75mm East of West pipes 1&2.
(Type:)				31d pipe 7311111 Last of West pipes 1&2.
Special Feature				
(Type:)				
Roof		N	3	
Measured Rise (mm)	1068	IN	3	
Measured At Ring No.	1000			at D/S 1/3 with negative sag and 200mm diameter hole in roof.
Sag (mm)	132			
Percent Sag	11			
Sidewall		NI	1	
	4225	N	4	
Measured At Ring No.	1325			at D/S 1/3
Measured At Ring No.	125			
Deflection (mm)	10			
Percent Deflection	10	N.I.		
Floor		N	5	
Bulge (mm)	0			
Measured At Ring No.	No			
Abrasion (Y/N)	No			
Circumferential Seams		N	N	
Separation (mm)				
Longitudinal Seams	I	X	5	Riveted Pipe
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)				

		Bric	lge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 3, Secondary Span, Lo	cation Code: MAIN, S	Span (n	nm):	, Rise (mm): 1200, Type: MP)
Coating		N	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	3	
		D	ownstr	ream End
Culvert Component				Explanation of Condition
(Pipe # : 3, Span Type: Second	lary Span)			
Direction		s		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall			Х	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape: )				
Cutoff Wall		Х	Х	
Bevel End		5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		5	5	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Rating			5	
			tructu	re Usage
			Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	Bend u/s
Bank Stability		5	5	
HWM (m below Top of Culvert)				No visible HWM
Drift (Y/N)	No			

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

07410 -1 Bridge Culvert

				Maintenance F	Recommend	lations						
Inspector Recommendations		Year	Inspecto	r Comments		Department Com	ments		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTO	)FF											
REPAIR SEAMS		2012	Re-faste	n bevel ends to barrel								
OTHER ACTION		2012	Schedule	e replacement.								
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)		55.6/33.	Sufficiency Rating (Last (%)		t/Now)	56.5/44.8	Est. Repl. Yr 2020		Maint. Re	qd. (Y/N)	Yes	
Special Comments for Next Inspection						Department Comments						
Maintenance Reviewed By						Date		E	Stimated Tota	1 0		
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name	Garry F	Roberts			Previous	Previous Assistant's Name						
Next Inspection Date	08-Sep	-2015			Previous	vious Inspection Date 17-Jun-2009						
·	39											
Comment												