Bridge Culvert Inspection													
Bridge File Number 02159 -			59 -1 Bridge Culvert				Form Type		CULE				
Year Built 1980							Lot No.		4				
Bridge or Town Name STRATHMORE							Inspector Name		Jon Davies				
Located Over 2ND ORDER TRIE				RIBUTARY TO CROWFOOT			Inspecto	Inspector Class		BR CLS B			
Located On	3.914:1:14 L1	914:1:14 L1 3.914			Assistant Name								
Water Body CI./	'Year							Assistant Class					
Navigabil, CI./Ye	ear							Inspection Date		16-Feb-2012			
Legal Land Location SW SEC			C 18 TWP 24 RGE 23 W4M				Data Entry By			Lauren Korte			
Longitude, Latitude -113:12:1			2:19. 51:02:16				Reviewer Namo			18-Mar-2012			
Road Authority Alberta		a Transportation (AIT)				Review Date			27-Eeb-2012				
Contract Main. Area CMA30			•		Review								
Clear Roadway/Skew 25 / 15 d			deg. (RHF)				Dept. Reviewer Name			1 IIII Davies			
AADT/Year		7,520/	2010 (A)				Eollow I	Dept. Review Date		22-1V1ar-2012			
Road Classificat	tion	RAD-41	2.4-120					Follow-Up By					
Detour Length (km)	1											
Bridge Culvert	Informa	ation											
Number of Culv	erts		1										
Pipe #	Barrel		Span	Rise (or Dia.)		Туре	1	Length		Corr. Profile	PI./Slab Thickness	Shape	
1	U/S		-	2150		SP	4	45.1		152X51	3.5	ROUND	
1	MAIN	- 2134			MP		42.6		125X26 3.0 ROUND				
Special Feature	S		BARREL ELBO	W, CON	C FLC	OR							
Special Feature	s Comm	nent											
					114			- ()					
Litility Attachmo	nte				Ut	linties (L		at)					
Telephone	South	ditab					Gas		50 m	North Crossing	100 m West		
Power	30 m S	South OF C L (7W)						Municipal					
Others Eibre optics North R/W					Problem	n (Y/N)	No						
Remarks							1	(,,,,,,					
				A	pproa	ch Road	d / Embai	nkment					
					Last	Now	Explana	ation of	Condi	tion			
Horizontal Alignment			7	7	Hill to East.								
Vertical Alignment				1									
Roadway Width	(m)		25.000										
Embookmont					5 5		20.0 m Of ditch eroded by ditch water at SW & North Sides Appears						
	•1)		2.0	2.0			stable.			,			
(Hoight of Co)	$\frac{1}{1}$	6 1)	2.0				At North end over pipe. 4:1 at road side slopes.						
Guardrail (Y/N)		0.1)	Yes										
Approach Road	d / Emb	ankme	nt General Rat	ing	7	7							
Upstream End													
Culvert Component Las						Now	Explana	xplanation of Condition					
Direction			S		SPCSP.								
End Treatment (Concrete, Steel, CONCRETE Others, None)					South E	nd.							
Headwall			6	7									
Collar			6	7									
Wingwalls				X	X								
(Shape :)													

Alberta Transportation

			Upstre	eam End				
Culvert Component		Last	Now	Explanation of Condition				
Cutoff Wall		N	N	Submerged.				
Bevel End			7					
Heaving (mm)	Heaving (mm) 0							
Invert Above/Below Stream Bed BELOW								
Above/Below (mm)	300							
Scour Protection		7	7	_				
(Type : RIP RAP)								
(Avg. Rock Size(mm) : 200)								
Scour/Erosion			7					
Beavers (Y/N)	No							
Upstream End General Rating		6	7					
		Brie	dge Cu	Ivert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: U/S, Span	(mm):	, I	Rise (mm): 2150, Type: SP)				
Barrel Last Accessible Date	16-Feb-2012			R1-13 elbow R14 MP starts.				
Special Features								
Special Feature								
(Type:)								
Special Feature								
(Type:)								
Roof		5	5					
Measured Rise (mm)	2005			Estimate Shape is adoquate				
Measured At Ring No.	12			- Estimate. Shape is adequate.				
Sag (mm)	145							
Percent Sag	7							
Sidewall		7	7					
Measured Span (mm)	2230							
Measured At Ring No.	12							
Deflection (mm)	81							
Percent Deflection	3							
Floor		N	N	500mm - Silt and Ice.				
Bulge (mm)			_					
Measured At Ring No.								
Abrasion (Y/N)								
Circumferential Seams		7	7					
Separation (mm)	0			1				
Longitudinal Seams		7	7					
Total No. of Cracked Rings	0			1				
Total No. of Rings with Two Cracked Seams	0							
Min. Remaining Steel Between Cracks (mm)	0							
Proper Lap (Y/N)	No			1				
Longitudinal Stagger (Y/N)	No			1				
Coating		6	6	Superficial on floor & haunches				
Corrosion By Soil (V/N) Voc			0	Some rust @ CIR seams coming through bolt holes.				
Corrosion By Water (V/N)	Yes			-				
	750							
Camper POS/ZERO/NEG	ZERU							

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

02159 -1 Bridge Culvert

	Bridge Culvert Barrel								
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: U/S, Span	(mm):	, F	Rise (mm): 2150, Type: SP)					
Ponding (Y/N)	No								
Fish Passage Adequacy		7	7						
Baffle		Х	Х						
(Туре :)									
Waterway Adequacy		6	6						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel Extension General Ratin	g	5	5						
Culvort Component		Brid	ige Cu	Explanation of Condition					
(Pipe # · 1 Primary Span Locat	tion Code: MAIN Spa	Lasi n (mm).	Rise (mm): 2134 Type: MP)					
Barrel Last Accossible Date	16-Eeb-2012	in (inin		Start at Ding 14					
	10-Feb-2012								
Special Features									
Special Feature		5	5	Separation at joint with MP 75mm.					
(Type : BARREL ELBOW)				400mm of silt and ice.					
Special Feature		N	N						
(Type : CONC FLOOR)									
Roof		5	5	Measured with concrete floor.					
Measured Rise (mm)	2085								
Measured At Ring No.	17			Estimate shape is adequate.					
Sag (mm)	125								
Percent Sag 6									
Sidewall		5	5						
Measured Span (mm)	2260								
Measured At Ring No.	17								
Deflection (mm)	126								
Percent Deflection	6								
Floor		N	N	Concrete Floor.					
Bulge (mm)									
Measured At Ring No.				-					
Abrasion (Y/N)			1						
Circumferential Seams		Х	X						
Separation (mm)	0								
Longitudinal Seams		Х	X						
Total No. of Cracked Rings 0				-					
Total No. of Rings with Two Cracked Seams	0								
Min. Remaining Steel 0 Between Cracks (mm)									
Proper Lap (Y/N) No									
Longitudinal Stagger (Y/N) No									
Coating			6	Superficial on floor & haunches.					
Corrosion By Soil (Y/N)									
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

02159 -1 Bridge Culvert

Bridge Culvert Barrel								
Culvert Component		Last Now		Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm):		, Rise (mm): 2134, Type: MP)				
Ponding (Y/N)	No							
Fish Passage Adequacy		7	7					
Baffle		Х	Х					
(Type :)								
Waterway Adequacy		6	6					
Icing (Y/N)	No			-				
Silting (Y/N)	No			_				
Drift (Y/N)	No							
Barrel General Rating		5	5					
		D	ownsti	ream End				
Culvert Component		Last	Now	Explanation of Condition				
Direction	1	N		MP. & Timber.				
End Treatment (Concrete, Steel, Others, None)	CONCRETE							
Headwall	1	5	5	Cracks and spall East.				
Collar		Х	Х					
Wingwalls		4	4	Pushing in @ West Planks rotted.				
(Shape :)			_	Old wings are left in & protect slope.				
Cutoff Wall			X					
Bevel End		Х	Х					
Heaving (mm)	0							
Invert Above/Below Stream Bed BELOW				-				
Above/Below (mm) 550								
Scour Protection		6	6	-				
(Type : NATURAL)				-				
(Avg. Rock Size(mm) :)		1	1					
Scour/Erosion		6	5					
Beavers (Y/N)	No							
Downstream End General Ratin	ng	4	4					
		Structur		re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)		1						
Alignment			7					
Bank Stability			7					
HWM (m below Top of Culvert) 1.4				(23-May-2008). No HWM visible.				
Drift (Y/N) No								
Channel Bottom AGGRADING Degrading/Aggrading								
Beavers (Y/N) No								
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating			7					

Maintenance Recommendations												
Inspector Recommendations		Year	Inspector Comments		Department Comr	ments	Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC)FF											
REPAIR SEAMS												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No (%)	ow)	55.6/55.	6 Sufficiency Rating (Last/No (%)	w) 5	58.7/59.6 Est. Repl. Yr		2029	Maint. Re	qd. (Y/N)	No		
Special Comments for Next Inspection					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	Garry Roberts F				Previous Assistant's Name							
Next Inspection Date 16		16-Nov-2013 F			revious Inspection Date 17-Aug-2010							
Inspection Cycle (Default) (months) 2												
Comment												