				Bria		ert Inspe	ection						
Bridge File Nu	umber	76423 -	1 Bridge Culve					CUL1					
Year Built		1967				Lot No.			2				
Bridge or Tow	/n Name					Inspector Name			Wade Nanninga				
Located Over GOLD BAR CREEK, 6.80, WAT				.80, WATERCF	RS-ST	· · ·	tor Class		BR CLS A				
			ERWOOD PARK FREEWAY:02 R1				Assistant Name						
0.368;SHERWOOD PARK FRE 0.366				ARK FREEWA	EWAY:02 L1		Assistant Class						
Water Body CI./Year							Inspection Date		14-Jan-2013				
Navigabil. Cl./	/Year					Data Entry By		Lisa Fairhurst					
			C 30 TWP 52 R	30 TWP 52 RGE 23 W4M			Data Entry Date		26-Mar-2013				
			3:18, 53:31:02				Reviewer Name		Eric Carcoux				
			Transportation	Review Date		25-Mar-2013							
Contract Main	n. Area	ANTHO	NY HENDAY D	DRIVE	Dept. Reviewer								
Clear Roadwa	ay/Skew	35.5 / 2	5 deg. (RHF)			Dept. Review Date		;	02-Apr-2013				
AADT/Year		33,860	/ 2011 (A)			Follow-Up By							
Road Classific	cation	RAD-41	2.4-120										
Detour Length	ר (km)	3											
Bridge Culve	ert Inform	nation											
Number of Cu	lverts		1										
Pipe #	Barrel		Span	Rise (or Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		1724	1901	SPE		135.3		152X51	2.8	ELLIPSE		
Special Featur	ires			1						-			
Special Featur	ires Comi	inent		U	ilities (l	_ocated	at)						
Special Featur Utility Attachm Telephone Power Others Remarks	nents	t lights.				Gas Munici Probler	pal m (Y/N) N	0					
Utility Attachm Telephone Power Others	nents			Арргоа	ch Roa	Gas Municij Problei d / Emba	pal m (Y/N) N ankment		ion				
Utility Attachm Telephone Power Others Remarks	nents Street			Approa Last	ch Road Now	Gas Municij Problei d / Emba	pal m (Y/N) N ankment nation of Co	ondit					
Utility Attachm Telephone Power Others Remarks Horizontal Alig	nents Street			Approa Last 7	ch Roat Now 7	Gas Municij Problen d / Embr Explan Site loc On cre	pal m (Y/N) N ankment nation of Co cated just W st curve. Ty	ondit est o	t ion of BF 76093. grade separati	ion. 4 lane free	eway, accel &		
Utility Attachm Telephone Power Others Remarks Horizontal Alig Vertical Alignn	nents Street		25.000	Approa Last	ch Road Now	Gas Municij Problen d / Embr Explan Site loc On cre	pal m (Y/N) N ankment nation of Co cated just W	ondit est o	of BF 76093.	ion. 4 lane free	eway, accel &		
Utility Attachm Telephone Power Others Remarks Horizontal Alig Vertical Alignn Roadway Widt	gnment ment ment th (m)		25.000	Approa Last 7 7	ch Roat Now 7 7	Gas Municij Problen d / Embr Explan Site loc On cre	pal m (Y/N) N ankment nation of Co cated just W st curve. Ty	ondit est o	of BF 76093.	ion. 4 lane free	eway, accel &		
Utility Attachm Telephone Power Others Remarks Horizontal Alig Vertical Alignn Roadway Widt Embankment	street gnment ment Ith (m)			Approa Last 7	ch Roat Now 7	Gas Municij Problen d / Embr Explan Site loc On cre	pal m (Y/N) N ankment nation of Co cated just W st curve. Ty	ondit est o	of BF 76093.	ion. 4 lane free	eway, accel &		
Utility Attachm Telephone Power Others Remarks Horizontal Alig Vertical Alignn Roadway Widt Embankment Sideslope (_	nents Street	t lights.	25.000	Approa Last 7 7	ch Roat Now 7 7	Gas Municij Problen d / Embr Explan Site loc On cre	pal m (Y/N) N ankment nation of Co cated just W st curve. Ty	ondit est o	of BF 76093.	ion. 4 lane free	eway, accel &		
Utility Attachm Telephone Power Others Remarks Horizontal Alig Vertical Alignn Roadway Widt Embankment Sideslope (_ (Height of Co	gnment gnment ment ith (m) :1) cover(m) :	t lights.	3.0	Approa Last 7 7	ch Roat Now 7 7	Gas Municij Problen d / Embr Explan Site loc On cre	pal m (Y/N) N ankment nation of Co cated just W st curve. Ty	ondit est o	of BF 76093.	ion. 4 lane free	eway, accel &		
Utility Attachm Telephone Power Others Remarks Horizontal Alig Vertical Alignn Roadway Widt Embankment Sideslope (_	gnment gnment ment ith (m) :1) cover(m) :	t lights.		Approa Last 7 7	ch Roat Now 7 7	Gas Municij Problen d / Embr Explan Site loc On cre	pal m (Y/N) N ankment nation of Co cated just W st curve. Ty	ondit est o	of BF 76093.	ion. 4 lane free	eway, accel &		
Utility Attachm Telephone Power Others Remarks Horizontal Alig Vertical Alignn Roadway Widt Embankment Sideslope (nents Street	t lights.	3.0	Approa Last 7 7 5 5	ch Roat Now 7 7	Gas Municij Problen d / Embr Explan Site loc On cre	pal m (Y/N) N ankment nation of Co cated just W st curve. Ty	ondit est o	of BF 76093.	ion. 4 lane free	eway, accel &		
Utility Attachm Telephone Power Others Remarks Horizontal Alig Vertical Alignn Roadway Widt Embankment Sideslope (_ (Height of Co Guardrail (Y/N Approach Ro	nents	t lights.	3.0 Yes	Approa Last 7 7 5 5	ch Roat Now 7 7 5 5	Gas Municip Problem Explan Site loc On cre decel la	pal m (Y/N) N ankment nation of Co cated just W st curve. Ty ane over pip	ondit l'est o pical be.	of BF 76093. grade separati	ion. 4 lane free	eway, accel &		
Utility Attachm Telephone Power Others Remarks Horizontal Alig Vertical Alignn Roadway Widt Embankment Sideslope (nents	t lights.	3.0 Yes	Approa Last 7 7 5 5 ing 7	ch Roat Now 7 7 5 5	Gas Municip Problem Explan Site loc On cre decel la	pal m (Y/N) N ankment nation of Co cated just W st curve. Ty ane over pip	ondit l'est o pical be.	of BF 76093. grade separati	ion. 4 lane free	eway, accel &		
Utility Attachm Telephone Power Others Remarks Horizontal Alig Vertical Alignn Roadway Widt Embankment Sideslope (nents Street	t lights.	3.0 Yes nt General Rat	Approa Last 7 7 5 5	ch Roat Now 7 7 5 5	Gas Municip Problem Explan Site loc On cre decel la	pal m (Y/N) N ankment nation of Co cated just W st curve. Ty ane over pip	ondit l'est o pical be.	of BF 76093. grade separati	ion. 4 lane free	eway, accel &		
Utility Attachm Telephone Power Others Remarks Horizontal Alig Vertical Alignn Roadway Widt Embankment Sideslope (gnments gnment ment ith (m) :1) cover(m) : v) ponent	t lights.	3.0 Yes nt General Rat	Approa Last 7 7 5 5 ing 7	ch Roat Now 7 7 5 5	Gas Municip Problem Explan Site loc On cre decel la	pal m (Y/N) N ankment nation of Co cated just W st curve. Ty ane over pip	ondit l'est o pical be.	of BF 76093. grade separati	ion. 4 lane free	eway, accel &		
Utility Attachm Telephone Power Others Remarks Horizontal Alig Vertical Alignn Roadway Widt Embankment Sideslope (_ (Height of Co Guardrail (Y/N Approach Ro Direction End Treatmen Others, None)	gnments gnment ment ith (m) :1) cover(m) : v) ponent	t lights.	3.0 Yes nt General Rat	Approa Last 7 7 5 5 ing 7	ch Roat Now 7 7 5 5	Gas Municip Problem Explan Site loc On cre decel la	pal m (Y/N) N ankment nation of Co cated just W st curve. Ty ane over pip	ondit l'est o pical be.	of BF 76093. grade separati	ion. 4 lane free	eway, accel &		
Utility Attachm Telephone Power Others Remarks Horizontal Alig Vertical Alignn Roadway Widt Embankment Sideslope (gnments gnment ment ith (m) :1) cover(m) : v) ponent	t lights.	3.0 Yes nt General Rat	Approa Last 7 7 7 5 5 5 1 1 7 5 1 1 1 1 1 1 1 1 1 1	ch Road Now 7 7 5 5	Gas Municip Problem Explan Site loc On cre decel la	pal m (Y/N) N ankment nation of Co cated just W st curve. Ty ane over pip	ondit l'est o pical be.	of BF 76093. grade separati	ion. 4 lane free	eway, accel &		
Utility Attachm Telephone Power Others Remarks Horizontal Alig Vertical Alignn Roadway Widt Embankment Sideslope (_ (Height of Co Guardrail (Y/N Approach Ro Culvert Comp Direction End Treatmen Others, None) Headwall	gnments gnment ment ith (m) :1) cover(m) : v) ponent	t lights.	3.0 Yes nt General Rat	Approa Last 7 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ch Road Now 7 7 5 5 5 Vostre Now	Gas Municip Problem Explan Site loc On cre decel la	pal m (Y/N) N ankment nation of Co cated just W st curve. Ty ane over pip	ondit l'est o pical be.	of BF 76093. grade separati	ion. 4 lane free	eway, accel &		

Alberta Transportation

			Upstre	am End						
Culvert Component		Last	Now	Explanation of Condition						
Cutoff Wall		X	X							
Bevel End			3	Rotated 1/8 of turn.						
Heaving (mm)	2000			Perforations in floor 100mm x 100mm - photo.						
Invert Above/Below Stream Bed										
Above/Below (mm)	2000									
Scour Protection	1	N	3	Scour around pipe.						
(Type : NONE)										
(Avg. Rock Size(mm) :)										
Scour/Erosion			3	Scoured 5m on East side and 3m on West side, 0.5m to 1m wide and up to 1.4m deep - photo. Scour hole in West ditch 5m x 3m x 1m deep.						
Beavers (Y/N)	No									
Upstream End General Rating		3	3							
		Bri	dge Cu	lvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm	ı): 1724	, Rise (mm): 1901, Type: SPE)						
Barrel Last Accessible Date	14-Jan-2013			Barrel 1/3 full of ice.						
Special Features	·		-							
Special Feature				_						
(Type:)				-						
Special Feature				_						
(Туре:)										
Roof		7	4	Holes in roof at c/l, 150 x 150 ring #16						
Measured Rise (mm)	1800			estimated						
Measured At Ring No.				R1 dented/twisted						
Sag (mm)	101			_						
Percent Sag	4									
Sidewall		7	3	_						
Measured Span (mm)	1950			_						
Measured At Ring No.	1			_						
Deflection (mm)	226			_						
Percent Deflection	13									
Floor	1	N	3	Extensive perforation and piping ring #1 and U/S bevel - photos.						
Bulge (mm)	0									
Measured At Ring No.				-						
Abrasion (Y/N)	No									
Circumferential Seams		8	7							
Separation (mm)	0									
Longitudinal Seams	1	7	7	Over torqued bolt ring #16.						
Total No. of Cracked Rings	0			- 1N.						
Total No. of Rings with Two Cracked Seams	0									
Min. Remaining Steel Between Cracks (mm)										
Proper Lap (Y/N)	No									
Longitudinal Stagger (Y/N)	Yes									
Coating		N	3	Pitting rust on floor, 0.8m wide perforations on floor of ring 1 and U/S						
Corrosion By Soil (Y/N)	No			bevel - photos.						
Corrosion By Water (Y/N)	Yes									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

76423 -1 Bridge Culvert

		Brid	dge Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm): 1724	, Rise (mm): 1901, Type: SPE)
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	4	Heaving bevels
Baffle		X	X	
(Type:)				
Waterway Adequacy		6	4	(Iced to 50% of opening @ outlet. 96/02/26)
Icing (Y/N)	No			Entering pipe through perforations
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating	1	2	3	
Culvert Component			Now	eam End Explanation of Condition
Direction	<u> </u>	N	NOW	
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		Х	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		6	6	
Heaving (mm)	100			
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		N	4	
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	4	10m long, 2m wide scour hole. Est 1.2 m deep.
Beavers (Y/N)	No			
Downstream End General Rati	ng	4	4	
				re Usage
0h ann al (11/0		Last	Now	Explanation of Condition
Channel (U/S and D/S)		-	-	
Alignment		5	5	
Bank Stability		5	5	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	· · · · · · · · · · · · · · · · · · ·			-
(Fish Compensation Measure 2 :	NONE)	-	-	
Channel General Rating		5	5	

Alberta Transportation

76423 -1 Bridge Culvert

Maintenance Recommendations										
Inspector Recommendations		Year	Inspector Comments		Department Comments				Est. Cost	Cat #
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP		2013	Riprap U/S scour, 20m3 approx.							
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUTOFF										
REPAIR SEAMS	2	2013	Replace ring 1 & 2 U/S and bevel end	۱.						
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)		22.2/33.	.3 Sufficiency Rating (Last/N (%)	ow) 3	8 3.4/25.8 E	8 Est. Repl. Yr 2020		Maint. Rec	qd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	stimated Total	0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name Wade		Vade Nanninga Previo			s Assistant's Name					
Next Inspection Date 14-00		14-Oct-2017 P			nspection Date					
Inspection Cycle (Default) (months)	57									
Comment										