Bridge Culvert Inspection															
Bridge File Number 71347 -1 Bridge Culvert Year Built 1951 Bridge or Town Name OHATON Located Over TRIBUTARY TO DRIEDMEAT CR 5.40.2, WATERCRS-ST Located On 13:12 C1 11.009 Water Body Cl./Year Navigabil. Cl./Year Legal Land Location NW SEC 7 TWP 46 RGE 18 W4M Longitude, Latitude -112:36:56, 52:57:20 Road Authority Alberta Transportation (AIT) Contract Main. Area CMA16 Clear Roadway/Skew 9.5 / AADT/Year 3,270 / 2009 (A) Road Classification RAU-209-110 Detour Length (km) 6 Bridge Culvert Information Number of Culverts 1 Pipe # Barrel Span Rise (or Di 1 MAIN 1900 1500 Special Features Comment Utility Attachments				Form T	Гуре		CUL1								
							Lot No			1					
Bridge or Town	Name	OHATO	NC				Inspec	tor Name		Owen Salava					
Located Over		TRIBU 5.40.2.	TARY TO DRIE WATERCRS-S	ARY TO DRIEDMEAT CREEK, WATERCRS-ST				Inspector Class BR CLS A							
Located On							Assistant Name								
Water Body Cl./	Year						Assistant Class Inspection Date 30-Aug-2010								
·							· ·								
					IM			ntry By		Marcia Chavez					
										05-Oct-2010					
Bridge or Town Name Located Over TRIBUTAR 5.40.2, WA Located On 13:12 C1 1 Water Body Cl./Year Navigabil. Cl./Year Legal Land Location NW SEC 7 Longitude, Latitude -112:36:56, Road Authority Alberta Tra Contract Main. Area CMA16 Clear Roadway/Skew 9.5 / AADT/Year 3,270 / 200 Road Classification RAU-209-1 Detour Length (km) 6 Bridge Culvert Information Number of Culverts 1 Pipe # Barrel Spa 1 MAIN 190 Special Features CO Special Features Comment Utility Attachments Telephone North r/w. Power Others Remarks Horizontal Alignment Vertical Alignment			(AIT)						John O'Brien						
		,			Review Date 10-Sep-2010 Dept. Reviewer Name Chris Black										
							Chris Black								
AADT/Year 3,270 / 200 Road Classification RAU-209-1 Detour Length (km) 6 Bridge Culvert Information Number of Culverts 1 Pipe # Barrel Spa		2009 (A)				_ ·	Review Da	ate	12-Oct-2010						
Road Classification RAU-209-						Follow-Up By									
				110											
		ation													
			1												
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape			
1 1	MAIN		1900	1500		RPP		20.1		152X51	2.8	PIPE ARCH			
			CONC FLOOR			1		1		1					
·															
					Uti	lities (L	ocated	at)							
	T .	,													
	North	r/w.					Gas								
Telephone North r/w. Power Others				Munici		 									
Road Authority Alberta Transportation (Al Contract Main. Area CMA16 Clear Roadway/Skew 9.5 / AADT/Year 3,270 / 2009 (A) Road Classification RAU-209-110 Detour Length (km) 6 Bridge Culvert Information Number of Culverts 1 Pipe # Barrel Span Ri 1 MAIN 1900 15 Special Features CONC FLOOR Special Features Comment Utility Attachments Telephone North r/w. Power Others Remarks Horizontal Alignment Vertical Alignment Vertical Alignment Sideslope (:1) 2.0 (Height of Cover(m): 0.5) Guardrail (Y/N) No Approach Road / Embankment General Rating Culvert Component Direction End Treatment (Concrete, Steel, STEEL					Proble	m (Y/N)	No								
Remarks				Δ.	0 W W O O O	h Door	l / Emb	ankmant							
Approach Road / Embankment Last Now Explanation of Condition															
Horizontal Align	ment				7	7		ction 60m							
					7	7				•					
Vertical Alignment		9.500	9.500												
					7 7										
	.4\		2.0		7 7		North end measured. South is 1.0m								
Sideslope (:1)		2.0	2.0												
	er(m):	0.5)	No												
, ,															
Approach Road / Embankment General Rating			ing	7	7										
						Upstre	am End								
_	nent				Last	Now	Explar	nation of	Condi	tion					
Direction		N													
End Treatment (Others, None)	(Concre	ete, Ste	el, STEEL												
Headwall					Х	X									
Collar			Х	Х											
Wingwalls		Х	Х												
(Shape:)															
Cutoff Wall					X	X									

			Upstre	am End				
Culvert Component		Last	Now	Explanation of Condition				
Bevel End		5	5					
Heaving (mm)	0							
Invert Above/Below Stream Bed	ABOVE							
Above/Below (mm)	100							
Scour Protection			5	Sparce but well grassed.				
(Type : RIP RAP)				3				
(Avg. Rock Size(mm) : 200)								
Scour/Erosion		5	5					
Beavers (Y/N)	No							
Un attacked for a Common Detination								
Upstream End General Rating		5	5					
		Brid	dge Cu	Ivert Barrel				
Culvert Component		Last		Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,	Span (mm): 1900	, Rise (mm): 1500, Type: RPP)				
Barrel Last Accessible Date	30-Aug-2010							
Special Features								
Special Feature		5	5					
(Type : CONC FLOOR)								
Special Feature								
(Type:)								
Roof	I	4	3	50 x 25 mm rust perforation at R7 roof - photo.				
Measured Rise (mm)				R1 & R2 also have perforations. 1295 rise roof to concrete floor.				
Measured At Ring No.				Estimate roof 1430mm, 4.7% roof. Roof cusping R4 (photo).				
Sag (mm)	70			Roof cusping R4 (photo).				
Percent Sag								
Sidewall		6	6					
Measured Span (mm)	1960							
Measured At Ring No.	4							
Deflection (mm)	80							
Percent Deflection	3							
Floor		N	N	Concrete Floor				
Bulge (mm)	0							
Measured At Ring No.								
Abrasion (Y/N)	No							
Circumferential Seams		5	5	A few missing bolts, isolated.				
Separation (mm)	0			1				
Longitudinal Seams		5	3	R4 11o'clock seam cusping (photo).				
Total No. of Cracked Rings	0			(Lineary)				
Total No. of Rings with Two Cracked Seams	0							
Min. Remaining Steel Between Cracks (mm)				1N				
Proper Lap (Y/N)	No							
Longitudinal Stagger (Y/N)	Yes							
Coating		3	3	Perforation @ roof: R1, R2 & R7 - photo.				
Corrosion By Soil (Y/N)	Yes			Soil corrosion at perforation. Scaling rust along waterline & below				
Corrosion By Water (Y/N)	Yes			- Scaling rust along waterline & Delow				
Camber POS/ZERO/NEG	NEG							
Ponding (Y/N)	No							

(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1900, Rise (mm): 1500, Type: RPP) Fish Passage Adequacy 5 5 Baffle x x (Type :) Valenty Adequacy 5 5 Icinig (Y/N) No Image: Color of the primary of the pr			Brid		Ivert Barrel
Fish Passage Adequacy	<u> </u>				•
Materiary Adequacy	(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1900	, Rise (mm): 1500, Type: RPP)
Type : Waterway Adequacy So So So So So So So S	Fish Passage Adequacy		5	5	
Waterway Adequacy 5 6 cling (YN) No No Drift (YN) No No Description Seminor (Yn) Culvert Component Last Now End Treatment (Concrete, Steel, Others, None) STEEL Ymax Collar X X Collar X X Collar X X Wingwalls X X Kishape:) X X Culoff Wall Bevel End S Heaving (mm) 0 S Invert Above/Below (mm) 800 S Above/Below (mm) 800 S Above/Below (mm) 800 S Your Froetetion 4 4 Cype: RRAP) S Sour Froetetion Cype: RIP RAP Sour Froetetion S Cype: RIP RAP Sour Froetetion S Cype: Rip RAP Sour Froetetion S Scour Froetetion S Le	Baffle		Х	Х	
Coling (Y/N) No	(Type:)				
Coling (Y/N) No	Waterway Adequacy		5	5	
Silting (Y/N) No		No			
Drift (Y/N)		No			
Barrel General Rating					
Culvert Component			4	3	
Culvert Component Last Now Explanation of Condition Direction STEEL	3				
Direction			D		
End Treatment (Concrete, Steel, More) Others, None) STEEL				Now	Explanation of Condition
Others, None) Headwall Collar X			S		
Collar	End Treatment (Concrete, Steel, Others, None)	STEEL			
No	Headwall		Х	X	
Cutoff Wall	Collar		Х	X	
Cutoff Wall X X X Bevel End 5 5 5 Heaving (mm) 0 ————————————————————————————————————	Wingwalls		X	X	
Bevel End	(Shape:)				
Heaving (mm)	Cutoff Wall		Х	X	
Invert Above/Below Stream Bed Above	Bevel End		5	5	
Above/Below (mm) 600 Scour Protection 4 4 5 Scour hole south end - photo 6 Sx3v.0.5 - stable (Type : RIP RAP) (Avg. Rock Size(mm) : 200) Scour/Erosion 4 4 4 Beavers (Y/N) No ***********************************	Heaving (mm)	0			
Scour Protection 4 4 4 (Avg. Rock Size(mm): 200) Scour hole south end - photo 6x3x0.5 - stable Scour/Erosion 4 4 4 Beavers (Y/N) No Structure Usage Downstream End General Rating 4 4 4 Structure Usage Last Now Explanation of Condition Channel (U/S and D/S) T 7 7 7 7 HWM not visible. Channel Measure 1 to None Unknown. Gright (Avggrading) Last None HWM not visible. Fish Compensation Measure 1 : None Unknown. Unknown.	Invert Above/Below Stream Bed	ABOVE			
(Type : RIP RAP) (Avg. Rock Size(mm) : 200) 4 4 Scour/Erosion No	Above/Below (mm)	600			
(Ayg. Rock Size(mm) : 200) Scour/Erosion 4 4 Beavers (Y/N) No Structure Usage Last Now Explanation of Condition Channel (U/S and D/S) Alignment 7 7 Bank Stability 7 7 HWM (m below Top of Culvert) 1 HWM not visible. Drift (Y/N) No 1 Channel Bottom Degrading/Aggrading 1 Unknown. Beavers (Y/N) No 1 (Fish Compensation Measure 1 : NONE) 1 1 (Fish Compensation Measure 2 : NONE) 1 1	Scour Protection		4	4	Scour hole south end - photo
Scour/Erosion	(Type: RIP RAP)				6x3x0.5 - stable
Beavers (Y/N)	(Avg. Rock Size(mm) : 200)				
Downstream End General Rating 4 4 Structure Usage Last Now Explanation of Condition Channel (U/S and D/S) Alignment 7 7 Bank Stability 7 7 HWM (m below Top of Culvert) No Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 2 : NONE) Structure Usage Explanation of Condition Hwm to visible. Unknown. Unknown.	Scour/Erosion		4	4	
Structure Usage Last Now Explanation of Condition	Beavers (Y/N)	No			
Channel (U/S and D/S) 7 7 Alignment 7 7 Bank Stability 7 7 HWM (m below Top of Culvert) 7 7 Drift (Y/N) No No Channel Bottom Degrading/Aggrading No Unknown. Beavers (Y/N) No Unknown. (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)	Downstream End General Ratio	ng	4	4	
Channel (U/S and D/S) Alignment 7 7 Bank Stability 7 7 HWM (m below Top of Culvert) No Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)			S	tructur	re Usage
Alignment 7 7 Bank Stability 7 7 HWM (m below Top of Culvert)			Last	Now	Explanation of Condition
Bank Stability 7 7 HWM (m below Top of Culvert) Drift (Y/N) No Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)	Channel (U/S and D/S)				
HWM (m below Top of Culvert) Drift (Y/N) No Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)			7	7	
Drift (Y/N) No Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)	Bank Stability		7	7	
Channel Bottom Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)	HWM (m below Top of Culvert)				HWM not visible.
Degrading/Aggrading Beavers (Y/N) No (Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)	Drift (Y/N)	No			
(Fish Compensation Measure 1 : NONE) (Fish Compensation Measure 2 : NONE)					Unknown.
(Fish Compensation Measure 2 : NONE)	Beavers (Y/N)	No			
	(Fish Compensation Measure 1 :	NONE)			
Channel General Rating 7 7	(Fish Compensation Measure 2 :	NONE)			
	Channel General Rating		7	7	

		Maintenance	Recommen	dations							
Inspector Recommendations	Year	Inspector Comments		Department Comm	ents	Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING	3										
INSTALL STRUTS	2010	Add struts where roof is cusping.									
INSTALL CONCRETE COLLAR/CUT	OFF										
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/N (%)	ow) 44.4/3	44.4/33.3 Sufficiency Rating (Last/N		46.7/41.5	Est. Repl. Yr	2018	Maint. Re	qd. (Y/N)	Yes		
Special No action on perfor Next Inspection	ations with R=3	, continue to monitor at each regular	inspection.	Department Comments							
Maintenance Reviewed By				Date		E	Estimated Tota	I 0			
Proposed Long-Term Strategy								'			
On 3-Year Program (Y/N)	Υ										
Proposed Action	2003.07.02 Re	2003.07.02 Replace with road construction by 2008.									
Previous Inspector's Name	Garry Roberts	Garry Roberts Previous A									
Next Inspection Date	30-May-2012 Pi			ious Inspection Date 12-Feb-2009							
Inspection Cycle (Default) (months)	21				,						
Comment											