Bridge Culvert Inspection														
Bridge File Number 75126		75126 -1	5126 -1 Bridge Culvert				Form Type		CUL1					
Year Built 1959							Lot No.			3				
Bridge or Town	Name	WAYNE					Inspector Name		Jon Davies					
Located Over		HOME C	OULEE, 3.33.	1, WATE	RCRS	-ST	Inspector Class		BR CLS B					
Located On		56:08 C1	14.823				Assistant Name							
Water Body Cl./	/Year						Assistant Class							
Navigabil. Cl./Y	ear						Inspection Date		29-Nov-2011					
Legal Land Loc	ation	SW SEC	21 TWP 27 RGE 19 W4M				Data Entry By		Alyssa Boynton					
Longitude, Latitude -112:37:38			38, 51:18:56 I					ntry Date)	04-Jan-2012				
Road Authority Alberta Tr			Transportation (AIT)					Reviewer Name		Garry Roberts				
Contract Main. Area CMA21								Review Date		06-Dec-2011				
Clear Roadway/Skew 10.4 / -20) deg. (LHF)					Dept. Reviewer Name		Tim Davies				
AADT/Year 940 / 201			10 (A)					Dept. Review Date		10-Jan-2012				
Road Classifica	ition	RAU-211	1.8-110				Follow-Up By							
Detour Length ((km)	3												
Bridge Culvert Information														
Number of Culv	rerts	1												
Pipe #	Barrel	S	pan	Rise (or	Dia.)	Туре	Length			Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	1	737	1920		SPE		82.6		152X51	3.5,3.5,3.5	ELLIPSE		
Special Feature	S	B	ARREL ELBO	DW, VERT	ΓΤΙΜΕ	BER STI	RUTS							
Special Features Comment														
Utilities (Located at)														
Utility Attachme	ents													
Telephone	West	Jitch Gas												
Power							Municipal							
Others	Bell fil	bre optic li			Problem (Y/N) No									
Remarks														
				Ap	oproad	ch Road	d / Emba	ankment						
	Last	Now	Explanation of Condition											
Horizontal Alignment					5	5	In center of "S" curve with 3% grades.							
Vertical Alignment				6	6	no puo		libouri						
Roadway Width (m) 10.400														
Embankment	Embankment					3	1m x 2	m x 20m	long er	osion gully at S	SE. At toe of ro	ad side slope.		
Sideslope (:1)		3.0											
(Height of Cov	ver(m) :	: 10)												
Guardrail (Y/N)	Guardrail (Y/N) Yes													
Approach Roa	Approach Road / Embankment General Rating					5								
						Upstrea	am End							
Culvert Compo	onent				Last	Now	Explan	ation of	Condit	tion				
Direction					E									
End Treatment (Concrete, Steel, STEEL Others, None)														
Headwall			Х	X										
Collar			Х	Х										
Wingwalls			Х	Х										
(Shape :)														
Cutoff Wall					Х	X								

Alberta Transportation

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End	1	7	7							
Heaving (mm)	50									
Invert Above/Below Stream Bed				_						
Above/Below (mm)	0		-							
Scour Protection		7	7	Vegitation						
(Type : RIP RAP)				-						
(Avg. Rock Size(mm) : 250)										
Scour/Erosion		7	7							
Beavers (Y/N)	No									
Upstream End General Rating	1	7	7							
Culuert Correction		Brid	ige Cu	Vert Barrel						
Dipo # 1 Primary Oran Laser	tion Code: MAINL Or	Last	NOW							
Parent Locat	Con Code: MAIN, Spa	in (mm): 1737	, Rise (IIII): 1920, Type: SPE)						
Barrel Last Accessible Date	29-Nov-2011			All rings seen up close except for 3 west of elbow due to water depth and thin ice.						
Special Features										
Special Feature		6	6	Sections 1-20 @ u/s strutted.						
(Type : BARREL ELBOW)				Rise measured S side of struts						
Special Feature		7	7							
(Type : VERT TIMBER STRUTS)									
Roof		4	4	Sag measurement appears stable.						
Measured Rise (mm)	1740									
Measured At Ring No.	17									
Sag (mm)	180									
Percent Sag	9									
Sidewall		3	3	Sidewall buckling @ N sidewall @ ring 17						
Measured Span (mm)	1900			Cracks in sidewall @ northside ring # 16 in 4 valleys						
Measured At Ring No.	17									
Deflection (mm)	163									
Percent Deflection	9									
Floor		5	5							
Bulge (mm)	0		-	1						
Measured At Ring No.				1						
Abrasion (Y/N)	No									
Circumferential Seams		4	4	Ring #12 missing 6 bolts @ circ seam						
Separation (mm)	20									
		5	5	cracks are in sidewall not @ seam						
Total No. of Cracked Rings 0										
Total No. of Rings with Two	0			1						
Cracked Seams				-						
Min. Remaining Steel 0 Between Cracks (mm)				-						
Proper Lap (Y/N) No				-						
Longitudinal Stagger (Y/N) No			1							
Coating			5	Alkali staining						
Corrosion By Soil (Y/N)	Yes									
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	NEG									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

75126 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1737	, Rise (mm): 1920, Type: SPE)					
Ponding (Y/N) Yes				D/S elbow below water 800 mm					
Fish Passage Adequacy		4	4	Vertical elbow					
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		4	4	Rating incr 1pt due to presence of					
		ח	ownstr	struts eam End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		W							
End Treatment (Concrete, Steel, Others, None)	STEEL								
Headwall		Х	X						
Collar	Collar								
Wingwalls		Х	X						
(Shape:)		1	_						
Cutoff Wall		Х	X						
Bevel End	1	7	7	Bevel end fenced off					
Heaving (mm)	50								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	500								
Scour Protection		7	7						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 250)									
Scour/Erosion		7	7						
Beavers (Y/N)	No								
Downstream End General Ratio	ng	7	7						
		S	Structur	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		5	5	Creek is @ 80 degrees @ d/s end;					
Bank Stability		7	7						
HWM (m below Top of Culvert)				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			5						

Maintenance Recommendations												
Inspector Recommendations		Year	Inspector Comments		Department Com	Target Year	Est. Cost	Cat #				
SHOTCRETE REPAIRS												
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTC	DFF											
REPAIR SEAMS												
OTHER ACTION		2012	Repair ditch erosion 40m3 pit run or	Cl. 1								
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/Now) (%)		44.4/44.	.4 Sufficiency Rating (Last/N (%)	low) 5	53.9/53.8	Est. Repl. Yr	2020 Maint. Re		qd. (Y/N)	Yes		
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 R	Roberts		Previous A	evious Assistant's Name							
Next Inspection Date 29-Au		29-Aug-2013			nspection Date							
Inspection Cycle (Default) (months) 21												
Comment												