

Bridge Culvert Inspection			
Bridge File Number	81676 -1 Bridge Culvert	Form Type	CUL1
Year Built	1989	Lot No.	4
Bridge or Town Name	PINCHER CREE	Inspector Name	Calvin Roberts
Located Over	2ND ORDER TRIBUTARY TO OLDMAN RIVER, 2.12.33.1, WATERCRS-ST	Inspector Class	BR CLS B
Located On	510:02 C1 19.957	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	11-Nov-2012
Legal Land Location	SE SEC 32 TWP 7 RGE 29 W4M	Data Entry By	Lauren Korte
Longitude, Latitude	-113:53:33, 49:36:10	Data Entry Date	13-Dec-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	CMA26	Review Date	14-Nov-2012
Clear Roadway/Skew	12 / -11 deg. (LHF)	Dept. Reviewer Name	Tim Davies
AADT/Year	270 / 2011 (A)	Dept. Review Date	27-Dec-2012
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	8		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2743	SP	147	152X51		ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	Sputh ditch.	Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	In a curve. EAST OF LEWIS HWY 510.
Vertical Alignment		7	6	
Roadway Width (m)	9.000			
Embankment		6	6	
Sideslope (___:1)	3.0			
(Height of Cover(m) : 17.5)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		6	6	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction				North.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls (Shape :)		X	X	
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 300)		7	5	Minor scour, some water going under bevel.
Scour/Erosion		7	5	
Beavers (Y/N)	No			
Upstream End General Rating		7	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2743, Type: SP)				
Barrel Last Accessible Date	11-Nov-2012			
Special Features				
Special Feature (Type :)				
Special Feature (Type :)				
Roof		8	7	
Measured Rise (mm)	2673			
Measured At Ring No.	16			
Sag (mm)	70			
Percent Sag	3			
Sidewall		7	7	
Measured Span (mm)	2789			
Measured At Ring No.	23			
Deflection (mm)	46			
Percent Deflection	2			
Floor		6	6	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	7	
Separation (mm)	0			
Longitudinal Seams		7	7	
Total No. of Cracked Rings	0			All seams lapped wrong in R25 and 26. 1N stagger.
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		6	6	Minor superficial rust on the floor.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2743, Type: SP)					
Camber POS/ZERO/NEG	ZERO				
Ponding (Y/N)	No				
Fish Passage Adequacy		7	7		
Baffle		X	X		
(Type :)					
Waterway Adequacy		7	7	Minor silting at D/S.	
Icing (Y/N)	No				
Silting (Y/N)	Yes				
Drift (Y/N)	No				
Barrel General Rating		8	7		
Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
Direction				South.	
End Treatment (Concrete, Steel, Others, None)	STEEL				
Headwall		X	X		
Collar		X	X		
Wingwalls		X	X		
(Shape :)					
Cutoff Wall		X	X		
Bevel End		7	7		
Heaving (mm)	150				
Invert Above/Below Stream Bed	ABOVE				
Above/Below (mm)	400				
Scour Protection		6	6	Bank eroded on West side 2m from culvert- minor.	
(Type : RIP RAP)					
(Avg. Rock Size(mm) : 400)					
Scour/Erosion		6	6		
Beavers (Y/N)	No				
Downstream End General Rating		7	6		
Structure Usage					
		Last	Now	Explanation of Condition	
Channel (U/S and D/S)					
Alignment		7	7	Slight curve into the pipe.	
Bank Stability		7	7		
HWM (m below Top of Culvert)				HWM not visible.	
Drift (Y/N)	No				
Channel Bottom Degrading/Aggrading	NONE				
Beavers (Y/N)	No				
(Fish Compensation Measure 1 : NONE)					
(Fish Compensation Measure 2 : NONE)					
Channel General Rating		7	7		

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	88.9/77.8	Sufficiency Rating (Last/Now) (%)	82.2/74.4	Est. Repl. Yr	2030	Maint. Req. (Y/N)	No
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	11-Feb-2016		Previous Inspection Date	07-Sep-2009			
Inspection Cycle (Default) (months)	39						
Comment							