

Bridge Culvert Inspection			
Bridge File Number	09297 -1 Bridge Culvert	Form Type	CUL1
Year Built	1968	Lot No.	2
Bridge or Town Name	PINCHER CREE	Inspector Name	Calvin Roberts
Located Over	CROWLIDGE CREEK, 2.12.28, WATERCRS-ST	Inspector Class	BR CLS B
Located On	507:04 C1 14.279	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	28-Nov-2012
Legal Land Location	SW SEC 18 TWP 6 RGE 28 W4M	Data Entry By	Lauren Korte
Longitude, Latitude	-113:46:07, 49:27:56	Data Entry Date	13-Dec-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	CMA26	Review Date	02-Dec-2012
Clear Roadway/Skew	21 / 45 deg. (RHF)	Dept. Reviewer Name	Tim Davies
AADT/Year	360 / 2011 (A)	Dept. Review Date	27-Dec-2012
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	3		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2320	2560	SPE	43.1	152X51	2.8	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power	North ditch.	Municipal	
Others		Problem (Y/N)	
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Pipe diagonally under intersection. Hill to West.
Vertical Alignment		5	5	
Roadway Width (m)	8.300			
Embankment		7	7	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 1.5)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		5	5	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction				SW invert.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		X	X	
Collar		7	7	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		7	7	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	Some riprap in the bevel.
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2320, Rise (mm): 2560, Type: SPE)				
Barrel Last Accessible Date	28-Nov-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		8	8	
Measured Rise (mm)	2540			
Measured At Ring No.	11			
Sag (mm)	20			
Percent Sag				
Sidewall		7	7	Minor construction damage to R2, R6, R8, R9. East SW.
Measured Span (mm)	2325			
Measured At Ring No.	11			
Deflection (mm)	5			
Percent Deflection				
Floor		6	3	R15- Wide cracking runs length of ring, isolated floor perforations. R16- Isolated perforations.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	6	
Separation (mm)	0			
Longitudinal Seams		6	6	Corrosion and staining present along bolts and seams connecting the floor to the sidewall. 1N stagger
Total No. of Cracked Rings	0			
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		5	3	Moderate corrosion at lower plates. Soil corrosion at upper sidewall seams. Isolated perforations R15, 16. 500mm x 500mm perf. in bevel.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2320, Rise (mm): 2560, Type: SPE)				
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	4	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction				NE.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		6	3	Approximately 500mm x 500mm perforation in floor.
Heaving (mm)	100			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		5	5	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Rating		6	3	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	Curves in and out.
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

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	2013	Install concrete floor.					
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/44.4	Sufficiency Rating (Last/Now) (%)	71.1/58.3	Est. Repl. Yr	2025	Maint. Req. (Y/N)	Yes
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	28-Feb-2016		Previous Inspection Date	10-Sep-2009			
Inspection Cycle (Default) (months)	39						
Comment							