

Bridge Culvert Inspection				
Bridge File Number	06820 -2 Bridge Culvert		Form Type	CULM
Year Built	2008		Lot No.	4
Bridge or Town Name	PONOKA		Inspector Name	Jason Saly
Located Over	TRIBUTARY TO BATTLE RIVER, 5.54, WATERCRS-ST		Inspector Class	BR CLS A
Located On	2A:22 C1 9.715		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	23-Nov-2011
Legal Land Location	NW SEC 19 TWP 42 RGE 25 W4M		Data Entry By	Marcia Chavez
Longitude, Latitude	-113:36:11, 52:37:53		Data Entry Date	21-Dec-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	CMA17		Review Date	15-Dec-2011
Clear Roadway/Skew	12.5 /		Dept. Reviewer Name	Andrew Smikles
AADT/Year	4,840 / 2010 (A)		Dept. Review Date	09-Jan-2012
Road Classification	RAU-211.8-110		Follow-Up By	
Detour Length (km)	3			

Bridge Culvert Information

Number of Culverts	2							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2000	MP	32.97	125X26	2.8	ROUND
2	MAIN	-	2000	MP	32.97	125X26	2.8	ROUND
Special Features								
Special Features Comment	Concrete fill rigid structure.							

Utilities (Located at)

Utility Attachments			
Telephone	West & East r/w.	Gas	
Power	3 wire 20m East of c/l.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Approach 60m SW. Curve to South. Posted 75 kph curve ahead. Hill to North. No passing in both directions.
Vertical Alignment	7	7	
Roadway Width (m)	12.500		
Embankment	7	N	Snow covered.
Sideslope (__:1)	5.0		
(Height of Cover(m) : 1.5)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	7	7	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
(Pipe # : 1, Span Type:)			
Direction	W		
End Treatment (Concrete, Steel, Others, None)	STEEL		
Headwall	X	X	
Collar	X	X	
Wingwalls	X	X	
(Shape :)			

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type:)				
Cutoff Wall		X	X	
Bevel End		9	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		9	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		9	N	
Beavers (Y/N)	No			
Upstream End General Rating		9	8	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2000, Type: MP)				
Barrel Last Accessible Date	23-Nov-2011			S pipe.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		9	8	Grout ports in roof. Could not measure rise due to ice.
Measured Rise (mm)	2000			
Measured At Ring No.	2			
Sag (mm)	0			(02Mar2010).
Percent Sag	0			
Sidewall		9	8	At midpipe.
Measured Span (mm)	2010			
Measured At Ring No.				
Deflection (mm)	10			0.5%
Percent Deflection	1			
Floor		9	N	Ice covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		9	9	Interior couplers.
Separation (mm)	0			
Longitudinal Seams		X	X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		9	7	Minor.
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): 2000, Type: MP)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		9	8	
Icing (Y/N)	No			
Siltng (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		9	8	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2000, Type: MP)				
Barrel Last Accessible Date	23-Nov-2011			N pipe.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		9	8	Grout ports in roof. Could not measure due to ice. (02Mar2010)
Measured Rise (mm)	2000			
Measured At Ring No.	2			
Sag (mm)	0			
Percent Sag	0			
Sidewall		9	8	At midpipe. 0.5%
Measured Span (mm)	2010			
Measured At Ring No.				
Deflection (mm)	10			
Percent Deflection	1			
Floor		9	N	Covered by ice.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		9	9	Interior couplers.
Separation (mm)	0			
Longitudinal Seams		X	X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		9	7	Minor.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2000, Type: MP)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		9	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		9	8	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type:)				
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		9	8	Not visible.
Heaving (mm)	0			
Invert Above/Below Stream Bed				Not visible.
Above/Below (mm)	0			
Scour Protection		N	N	Snow covered.
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Downstream End General Rating		9	8	

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)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Unknown.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				

Structure Usage				
		Last	Now	Explanation of Condition
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) (%)	100.0/88.9	Sufficiency Rating (Last/Now) (%)	98.5/86.5	Est. Repl. Yr	2060	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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	23-Aug-2013		Previous Inspection Date	02-Mar-2010			
Inspection Cycle (Default) (months)	21						
Comment							