Bridge Culvert Inspection

Bridge File Number	72049 -2 Bridge Culvert	Form Type	CUL1
Year Built	2005	Lot No.	4
Bridge or Town Name	PATRICIA	Inspector Name	Tom Carey
Located Over	TRIBUTARY TO ONETREE CREEK, 3.12.2, WATERCRS-ST	Inspector Class	BR CLS A
		Assistant Name	
Located On	544:02 C1 16.869	Assistant Class	
Water Body Cl./Year		Inspection Date	15-Feb-2010
Navigabil. Cl./Year		Data Entry By	Kelsey Roberts
Legal Land Location	SW SEC 15 TWP 20 RGE 13 W4M	Data Entry Date	23-Mar-2010
Longitude, Latitude	-111:43:56, 50:41:19	Reviewer Name	Garry Roberts
Road Authority	Alberta Transportation (AIT)	Review Date	23-Feb-2010
Contract Main. Area	CMA23	Dept. Reviewer Name	Lorenz Bohnert
Clear Roadway/Skew	9 / -45 deg. (LHF)	Dept. Review Date	26-Mar-2010
AADT/Year	1,530 / 2008 (A)	Follow-Up By	
Road Classification	RCU-209-110		
Detour Length (km)	5		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	3300	SP	46	125X26	3.5	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	S ditch & N ditch	Gas	
Power	3 wire OH south	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Int. 30m SE Road Rises to East
Vertical Alignment		7	7	
Roadway Width (m)	8.700			
Embankment		8	N	Snow
Sideslope (__:1)	5.0			
(Height of Cover (m) : **1.2**)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		**8**	**7**	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		8	N	Snow
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	

Upstream End				
Culvert Component		**Last**	**Now**	**Explanation of Condition**
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		8	N	Snow
(Type : **RIP RAP**)				
(Avg. Rock Size (mm) : **300**)				
Scour/Erosion		8	N	
Beavers (Y/N)	No			
Upstream End General Rating		**8**	**N**	

Bridge Culvert Barrel				
Culvert Component		**Last**	**Now**	**Explanation of Condition**
(Pipe # : **1, Primary Span, Location Code: MAIN, Span (mm): - , Rise (mm): 3300, Type: SP**)				
Barrel Last Accessible Date	15-Feb-2010			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		8	8	estimate
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	100			negative
Percent Sag	3			
Sidewall		8	8	inward
Measured Span (mm)	3200			
Measured At Ring No.	3			
Deflection (mm)	100			
Percent Deflection	3			
Floor		N	N	ice covered- avg 1.0m DP ice
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	foam filled
Separation (mm)	70			
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		8	8	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		**Last**	**Now**	**Explanation of Condition**
(Pipe # : **1, Primary Span, Location Code: MAIN, Span (mm): - , Rise (mm): 3300, Type: SP**)				
Fish Passage Adequacy		7	8	
Baffle		X	X	
(Type :)				
Waterway Adequacy		9	9	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		**8**	**8**	

Downstream End				
Culvert Component		**Last**	**Now**	**Explanation of Condition**
Direction		N		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		8	N	Snow
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	
Bevel End		8	N	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		8	N	Snow coverd
(Type : **RIP RAP**)				
(Avg. Rock Size (mm) : **300**)				
Scour/Erosion		8	N	Snow coverd
Beavers (Y/N)	No			
Downstream End General Rating		**8**	**N**	

Structure Usage				
		Last	**Now**	**Explanation of Condition**
Channel (U/S and D/S)				
Alignment		6	6	
Bank Stability		6	N	Snow
HWM (m below Top of Culvert)	0.5			
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			Snow
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : **NONE**)				
(Fish Compensation Measure 2 : **NONE**)				
Channel General Rating		**6**	**6**	G.R. carried

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) (%)	**88.9/88.9**	**Sufficiency Rating (Last/Now) (%)**	**89.5/82.9**	Est. Repl. Yr	2046	Maint. Reqd. (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	Tim Davies	Previous Assistant's Name			
Next Inspection Date	15-May-2013	Previous Inspection Date	21-Feb-2007		
Inspection Cycle (Default) (months)	39				
Comment					