

Bridge Culvert Inspection				
Bridge File Number	78651 -1 Bridge Culvert		Form Type	CUL1
Year Built	1976		Lot No.	1
Bridge or Town Name	PINE LAKE		Inspector Name	Jason Saly
Located Over	TRIBUTARY TO GHOSTPINE CREEK, 3.50.21, WATERCRS-ST		Inspector Class	BR CLS A
Located On	816:02 C1 9.443		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	14-Feb-2012
Legal Land Location	NW SEC 23 TWP 36 RGE 25 W4M		Data Entry By	Marcia Chavez
Longitude, Latitude	-113:28:48, 52:06:41		Data Entry Date	09-Mar-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	CMA19		Review Date	29-Feb-2012
Clear Roadway/Skew	9.8 / 0 deg.		Dept. Reviewer Name	Andrew Smikles
AADT/Year	500 / 2010 (A)		Dept. Review Date	15-Mar-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	-	2438	SP	46.9		2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone	West	Gas	Crossing 25m North.
Power	3 wires 20 m E of centerline.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	100m south of intersection.
Vertical Alignment		6	6	In sag curve, hill to South, limited sight distance.
Roadway Width (m)	9.800			
Embankment		7	7	
Sideslope (:1)	3.0			West side measured.
(Height of Cover(m) : 2.3)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		6	6	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		5	N	(Combination of heaving / negative camber of 1.0m. 17Sep2005) - Covered by snow & debris.
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		6	N	
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		6	N	
Beavers (Y/N)	Yes			Remnants of beaver dam.
Upstream End General Rating		5	5	G.R. carried forward from 17Sep2005.
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2438, Type: SP)				
Barrel Last Accessible Date				Full of water.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	N	Unable to determine if roof sagging or culvert has neg camber.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		N	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	
Separation (mm)				
Longitudinal Seams		N	N	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		N	N	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	NEG			Combination of 1.0m neg camber & bevel heaving U/S end.
Ponding (Y/N)	Yes			

Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2438, Type: SP)					
Fish Passage Adequacy		5	5		
Baffle		N	N		
(Type :)					
Waterway Adequacy		5	5	Constantly under water.	
Icing (Y/N)	No				
Silting (Y/N)	No				
Drift (Y/N)	No				
Barrel General Rating		5	N	No evidence barrel was ever accessed. Previous GR was 5.	
Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
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		N	N	Water/ice to 300mm from top.	
Heaving (mm)	0				
Invert Above/Below Stream Bed					
Above/Below (mm)	0				
Scour Protection		6	N	Snow covered.	
(Type : NATURAL)					
(Avg. Rock Size(mm) :)					
Scour/Erosion		6	N		
Beavers (Y/N)	No				
Downstream End General Rating		5	5	G.R. carried forward from 17Sep2005.	
Structure Usage					
		Last	Now	Explanation of Condition	
Channel (U/S and D/S)					
Alignment		5	5		
Bank Stability		5	5		
HWM (m below Top of Culvert)				HWM not visible.	
Drift (Y/N)	Yes				
Channel Bottom Degrading/Aggrading				Unknown. Beaver dam removed.	
Beavers (Y/N)	Yes				
(Fish Compensation Measure 1 : NONE)					
(Fish Compensation Measure 2 : NONE)					
Channel General Rating		5	5		

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	2012	Perform Level II barrel inspection.		2013						
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	55.5/55.7	Est. Repl. Yr	2013	Maint. Req. (Y/N)	Yes			
Special Comments for Next Inspection	(Clean out culvert & conduct Lvl 2 profiles; damming of w/c (permit) required; cleanup (out) with vacuum truck/pump...PC: 99/03/12). Should get rid of water in pipe & properly inspect the barrel. Lvl 2 inspection needed to properly assess condition & remaining life.		Department Comments							
Maintenance Reviewed By		Date			Estimated Total	0				
Proposed Long-Term Strategy	2003.08.19 Observe road and water levels, culvert in condition if it can be inspected. Should replace by 2015.									
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Dave Lam	Previous Assistant's Name								
Next Inspection Date	14-May-2015	Previous Inspection Date	17-Sep-2005							
Inspection Cycle (Default) (months)	39									
Comment										

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	2012	Perform Level II barrel inspection.	Defer until condition warrants			
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	55.5/55.7	Est. Repl. Yr	2013	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection	(Clean out culvert & conduct Lvl 2 profiles; damming of w/c (permit) required; cleanup (out) with vacuum truck/pump...PC. 99/03/12). Should get rid of water in pipe & properly inspect the barrel. Lvl 2 inspection needed to properly assess condition & remaining life.		Department Comments	Replacement need year updated to 2021 from 2015. DA		
Maintenance Reviewed By	Darron Ahlstedt		Date	22-Nov-2012	Estimated Total	0
Proposed Long-Term Strategy	2003.08.19 Observe road and water levels, culvert in condition if it can be inspected. Should replace by 2015.					
On 3-Year Program (Y/N)						
Proposed Action						
Previous Inspector's Name	Dave Lam		Previous Assistant's Name			
Next Inspection Date	14-May-2015		Previous Inspection Date	17-Sep-2005		
Inspection Cycle (Default) (months)	39					
Comment						