

Bridge Culvert Inspection			
Bridge File Number	81222 -1 Bridge Culvert	Form Type	CUL1
Year Built	1988	Lot No.	4
Bridge or Town Name	CALLING LAKE	Inspector Name	Wade Nanninga
Located Over	3RD ORDER TRIBUTARY TO CALLING RIVER, 8.11.53.8.3.3, WATERCRS-ST	Inspector Class	BR CLS B
Located On	813:08 C1 3.362	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	06-Jan-2011
Legal Land Location	NE SEC 11 TWP 76 RGE 23 W4M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-113:27:17, 55:34:37	Data Entry Date	02-Feb-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA06	Review Date	12-Jan-2011
Clear Roadway/Skew	11 / -21 deg. (LHF)	Dept. Reviewer Name	Brent Herrick
AADT/Year	520 / 2009 (A)	Dept. Review Date	02-Feb-2011
Road Classification	RCU-210-110	Follow-Up By	
Detour Length (km)	250		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	1810	SP	53	152X51	3.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks	BF installed on top of West bevel.		

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Curve north, hill south.
Vertical Alignment	7	7	Near km 95.
Roadway Width (m)	11.000		
Embankment	7	7	
Sideslope (__:1)	3.0		
(Height of Cover(m) : 3.9)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	7	7	

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		6	N	ice over
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			Fill settled up to 0.75m along side of bevel.-08-Aug-2007
Above/Below (mm)	300			
Scour Protection		6	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		6	N	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	GR carried fwd
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 1810 , Type: SP)				
Barrel Last Accessible Date	08-Aug-2007			300mm crown to ice-viewed from ends, shape look ok.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		5	5	At c/l.
Measured Rise (mm)	1715			
Measured At Ring No.				
Sag (mm)	97			5.4%.
Percent Sag	5			
Sidewall		6	N	At c/l.
Measured Span (mm)	1895			
Measured At Ring No.				
Deflection (mm)	85			4.7%.
Percent Deflection	5			
Floor		6	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	N	
Separation (mm)	0			
Longitudinal Seams		7	N	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		6	N	Minor superficial rust on lower sidewalls & floor.-08-Aug-2007
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
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): 1810, Type: SP)					
Fish Passage Adequacy		4	4	Slightly perched at outlet.	
Baffle		X	X		
(Type :)					
Waterway Adequacy		6	6	(Completely filled with ice. 2001/03/22)	
Icing (Y/N)	Yes				
Silting (Y/N)	No				
Drift (Y/N)	No				
Barrel General Rating		5	N	Previous rating 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		6	6		
Heaving (mm)	0				
Invert Above/Below Stream Bed	ABOVE				
Above/Below (mm)	100				
Scour Protection		4	4	Insufficient rock.	
(Type : RIP RAP)					
(Avg. Rock Size(mm) : 200)					
Scour/Erosion		4	4	8 x 6 x 1m deep scour pool. Perched bevel.	
Beavers (Y/N)	No				
Downstream End General Rating		4	4		
Structure Usage					
		Last	Now	Explanation of Condition	
Channel (U/S and D/S)					
Alignment		6	6		
Bank Stability		6	6		
HWM (m below Top of Culvert)	0.1			08-Aug-2007	
Drift (Y/N)	No				
Channel Bottom Degrading/Aggrading	DEGRADING				
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							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	50.0/49.6	Est. Repl. Yr	2024	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Monitor scour @ outlet, deflections.		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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	06-Apr-2014		Previous Inspection Date	08-Aug-2007			
Inspection Cycle (Default) (months)	39						
Comment							