

Bridge Culvert Inspection				
Bridge File Number	80823 -1 Bridge Culvert		Form Type	CUL1
Year Built	1986		Lot No.	1
Bridge or Town Name	CALAHOO		Inspector Name	Melanie Johnson
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS B
Located On	37:02 C1 24.189		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	08-Nov-2011
Legal Land Location	SW SEC 2 TWP 55 RGE 27 W4M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-113:54:41, 53:42:59		Data Entry Date	19-Nov-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA09		Review Date	13-Nov-2011
Clear Roadway/Skew	7.9 /		Dept. Reviewer Name	Brent Herrick
AADT/Year	2,580 / 2010 (A)		Dept. Review Date	15-Dec-2011
Road Classification	RAU-209-110		Follow-Up By	
Detour Length (km)	6			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	-	1800	MP	28	68X13	2.8	ROUND
Special Features								
Special Features Comment								

Posting Information

Required Vert. Clearance Posting (m)												
Posted Vertical Clearance (Y/N)	No											
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)	No	Lane	SB	On Bridge (m)		In Advance (Y/N)	No
Remarks	Not required.											

Utilities (Located at)

Utility Attachments												
Telephone	North & South r/w.					Gas						
Power	North row					Municipal						
Others	Tagged on inside sidewall.					Problem (Y/N)		No				
Remarks												

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Farm entrance east & west of structure. Crest curve to East & West, no passing WB.
Vertical Alignment		7	7	
Roadway Width (m)	7.900			
Embankment		3	4	SE of pipe 1 to 1 slope. Slide @ South shoulder leaving 1.2m near vertical. Top of slide is 0.8m from pavement shoulder-grassed and appears stable. - photo 1. 3:1 on North side.
Sideslope (___:1) (Height of Cover(m) : 2.4)	1.0			
Guardrail (Y/N)	Yes			4 broken GR posts on North side.-photo
Approach Road / Embankment General Rating		3	7	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		N		Fill on crown.
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			Some fill retained by planking & fence .
Above/Below (mm)	100			
Scour Protection		X	X	
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		X	X	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1800, Type: MP)				
Barrel Last Accessible Date	08-Nov-2011			
Special Features				
Special Feature				Steel Gates "7"
(Type :)				Gates at both ends of the cattlepass. 2 gates, one at South end, the other 6m from North end.
Special Feature				Timber "4"
(Type :)				Cracked timber retaining wall North end.
Roof		3	3	Failed seam D/S with exposed soil @ roof. - photo.
Measured Rise (mm)				
Measured At Ring No.				Est 9% sag. Dirt on floor.
Sag (mm)				
Percent Sag	9			
Sidewall		3	3	Failed seam exposing soil.-photo
Measured Span (mm)	1962			
Measured At Ring No.				
Deflection (mm)	162			
Percent Deflection	9			
Floor		N	N	Gravel and dirt.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		3	3	Has been extended North approx 15m with CSP. Seam separated from 11:00-2:00. Near midspan) riveted pipe pulled apart 5m from South end.-photo
Separation (mm)	180			
Longitudinal Seams		5	5	Riveted seams, except north extension.
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			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1800, Type: MP)				
Coating		5	5	Superficial rust on lower 1/3 floor. 18/Sept/2006) Covered with silt.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		X	X	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		3	3	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	50			
Scour Protection		X	X	
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		X	X	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		9	9	
Roadway Surface		5	5	
(Type : SOIL)				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type				

Structure Usage				
		Last	Now	Explanation of Condition
Lighting		X	X	
Barrel Leakage (Y/N)	No			
Drainage		5	5	
Structure In Use (Y/N)	Yes			
Grade Separation 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	2011	Replace broken guardrail posts.					
OTHER ACTION	2011	Repair 2 circ. seams-use internal couplers.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	33.3/33.3	Sufficiency Rating (Last/Now) (%)	46.3/57.4	Est. Repl. Yr	2016	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	Shane Hall		Previous Assistant's Name				
Next Inspection Date	08-Aug-2013		Previous Inspection Date	23-Mar-2010			
Inspection Cycle (Default) (months)	21						
Comment							