

Bridge Culvert Inspection				
Bridge File Number	80519 -1 Bridge Culvert		Form Type	CUL1
Year Built	1962		Lot No.	4
Bridge or Town Name	STREAMSTOWN		Inspector Name	Jason Saly
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS A
Located On	17:08 C1 19.996		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	27-Jun-2012
Legal Land Location	SE SEC 13 TWP 52 RGE 1 W4M		Data Entry By	Marcia Chavez
Longitude, Latitude	-110:00:28, 53:29:04		Data Entry Date	13-Jul-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	UNDEFINED CMA		Review Date	05-Jul-2012
Clear Roadway/Skew	12.5 /		Dept. Reviewer Name	Andrew Smikles
AADT/Year	3,310 / 2011 (A)		Dept. Review Date	19-Jul-2012
Road Classification	RAU-211.8-110		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	-	1829	MP	24.1	68X13	3.5	ROUND
Special Features								
Special Features Comment								

Posting Information

Required Vert. Clearance Posting (m)											
Posted Vertical Clearance (Y/N)											
Posted:	Lane	NB	On Bridge (m)		In Advance (Y/N)		Lane	SB	On Bridge (m)		In Advance (Y/N)
Remarks	Not required.										

Utilities (Located at)

Utility Attachments											
Telephone	Plowed in W. ditch					Gas					
Power	3 wire OH 25m W. of c.I and					Municipal					
Others	crossing road 30m south.					Problem (Y/N)		No			
Remarks											

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Curves in both directions 300 m & 400 m from site. Long gradual crest curve to N. Intersection 100m S.
Vertical Alignment		7	7	
Roadway Width (m)	12.500			
Embankment		6	6	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 0.5)				
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)	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	Square end.
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		7	7	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1829, Type: MP)				
Barrel Last Accessible Date	27-Jun-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		4	4	First 1.7m section at W dented in badly. Not under load. Midspan.
Measured Rise (mm)	1820			Could not measure rise due to dirt on floor. (01Sep2010)
Measured At Ring No.				
Sag (mm)	9			
Percent Sag	0			
Sidewall		4	4	Pushing in (S. sidewall) near c.l.
Measured Span (mm)	1805			Midspan.
Measured At Ring No.				Span at W end 1808=-21mm=-1.1%
Deflection (mm)	24			Span at Midpipe 1843=14mm=0.8%
Percent Deflection	1			Span at E end 1805=-24mm=-1.3%
Floor		N	N	Dirt covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		4	4	Barrel section V & H alignments are not straight but functional. Last circ seam E end separation with icing. Small tear.
Separation (mm)	160			Minor infiltration is typical at all circumferential seams.
Longitudinal Seams		6	6	Rivetted.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1829, Type: MP)				
Coating		4	4	Perforation in roof 2.7m from E end.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		X	X	
Icing (Y/N)	Yes			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		X	X	
Wingwalls (Shape :)		X	X	
Cutoff Wall		X	X	
Bevel End		X	X	Square end.
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection (Type : NATURAL) (Avg. Rock Size(mm) :)		7	7	
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	Gravel.
Roadway Surface (Type :)		6	6	
Icing (Y/N)		No		
Traffic Safety Features Type		X	X	

Structure Usage				
		Last	Now	Explanation of Condition
Lighting		X	X	
Barrel Leakage (Y/N)	No			
Drainage		7	7	
Structure In Use (Y/N)	No			Gates closed off at W end. No fence E end. Feedlot operation to east.
Grade Separation 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) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	64.1/64.0	Est. Repl. Yr	2025	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Monitor sidewall deflection near c/.		Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	2008.02.28 Have signed Cattlepass Removal Form so may be removed whtn appropriate.Brownlee & Associates						
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Owen Salava	Previous Assistant's Name					
Next Inspection Date	27-Mar-2014	Previous Inspection Date	01-Sep-2010				
Inspection Cycle (Default) (months)	21						
Comment							