

Bridge Culvert Inspection				
Bridge File Number	80518 -1 Bridge Culvert		Form Type	CUL1
Year Built	1962		Lot No.	1
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 15.039		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	27-Jun-2012
Legal Land Location	NOT AVAILABLE		Data Entry By	Marcia Chavez
Longitude, Latitude	-110:00:11, 53:26:31		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	11 /		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)	1			

Bridge Culvert Information								
Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	-	1676	MP	21.7	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 west ditch		Gas	
Power	3 wire OH 300 m west of c.I.		Municipal	
Others			Problem (Y/N)	No
Remarks				

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Curve at top of S. grade. Curve far to N. also. Site located in 5% grade to S. Limited sight distance to S.
Vertical Alignment		5	5	
Roadway Width (m)	11.000			
Embankment		5	5	Embankment is steep and drops sharply from shoulder - E side. 1:1
Sideslope (__:1)	2.5			
(Height of Cover(m) : 1.6)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		5	5	

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)	300			
Scour Protection		6	6	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		6	6	
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): 1676, Type: MP)				
Barrel Last Accessible Date	27-Jun-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		2	2	2nd section from W has reverse curvature approx. 25mm; remains stable since previous access. Could not measure rise due to dirt on the floor.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	125			
Percent Sag				
Sidewall		4	4	Dents in S sidewall.
Measured Span (mm)	1808			Midspan.
Measured At Ring No.				
Deflection (mm)	132			7.9%
Percent Deflection	8			
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	5	
Separation (mm)	73			
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): 1676, Type: MP)				
Coating		6	6	
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		X	X	(Water from E. ditch enters pipe from south - 950509).
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		2	2	
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		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		X	X	Square end.
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		6	6	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Downstream End General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		3	3	The road alignment is too high leaving insufficient clearance. (Silt deposited inside pipe up to 0.57 m deep leaves 1.1 m min clearance - 950509).
Roadway Surface		N	N	
(Type :)				
Icing (Y/N)				
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)	No			
Grade Separation General Rating		3	3	

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	Remove culvert or strut section with reverse curvature.		2020		
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
Structural Condition Rating (Last/Now)	22.2/22.2	Sufficiency Rating (Last/Now)	52.2/52.0			
(%)		(%)				Yes
Special Comments for Next Inspection	Structure no longer serves as cattlepass as there is insufficient clearance. The fence has been removed. Monitor roof reverse curvature at W end. LRA sent to AT 05Jul2012. No action on high walkig surface through culvert.		Department Comments			
Maintenance Reviewed By			Date	Estimated Total	0	
Proposed Long-Term Strategy						
On 3-Year Program (Y/N)	Y					
Proposed Action	2008.01.03 Records should be checked to confirm that structure is still there. Brownlee & Associates					
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						

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	Remove culvert or strut section with reverse curvature.	Defer until replacement			
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
Structural Condition Rating (Last/Now) (%)	22.2/22.2	Sufficiency Rating (Last/Now) (%)	52.2/52.0	Est. Repl. Yr	2020	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection	Structure no longer serves as cattlepass as there is insufficient clearance. The fence has been removed. Monitor roof reverse curvature at W end. LRA sent to AT 05Jul2012. No action on high walkig surface through culvert.		Department Comments	Replacement programmed 2019		
Maintenance Reviewed By	Andrew Smikles		Date	20-Nov-2012	Estimated Total	0
Proposed Long-Term Strategy						
On 3-Year Program (Y/N)	Y					
Proposed Action	2008.01.03 Records should be checked to confirm that structure is still there. Brownlee & Associates					
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						