

Bridge Culvert Inspection				
Bridge File Number	77342 -1 Bridge Culvert		Form Type	CUL1
Year Built	1971		Lot No.	4
Bridge or Town Name	ATHABASCA		Inspector Name	Todd Warshawski
Located Over	TRAIL-ANIMAL, OVER SP		Inspector Class	BR CLS B
Located On	2:42 C1 18.805		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	29-Mar-2013
Legal Land Location	NE SEC 1 TWP 67 RGE 24 W4M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-113:31:08, 54:46:27		Data Entry Date	03-Apr-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA10		Review Date	03-Apr-2013
Clear Roadway/Skew	10 /		Dept. Reviewer Name	Brent Herrick
AADT/Year	1,530 / 2011 (A)		Dept. Review Date	08-Apr-2013
Road Classification	RAU-210-110		Follow-Up By	
Detour Length (km)	50			

Bridge Culvert Information								
Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	1676	1981	RPP	35.4	152X51	3.0,4.0	PEAR
Special Features								
Special Features Comment	Tagged on d/s end.							

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	Telus E R/W		Gas
Power	3 wire E R/W		Municipal
Others			Problem (Y/N)
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Approach to North. Vertical grade to the North, limited sight distance. No passing.
Vertical Alignment		6	6	
Roadway Width (m)	10.000			
Embankment		8	8	
Sideslope (___:1)	3.0			
(Height of Cover(m) : 1.6)				
Guardrail (Y/N)	Yes			plastic posts
Approach Road / Embankment General Rating		7	7	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		Reused to match flow direction
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls (Shape :)		X	X	
Cutoff Wall		X	X	
Bevel End		7	N	Not std bevel cut - low. -July, 2011 Under snow
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection (Type : NATURAL) (Avg. Rock Size(mm) :)		7	N	Snow covered
Scour/Erosion		8	N	Snow covered
Beavers (Y/N)	No			
Upstream End General Rating		7	7	GR carried forward from Jul, 2011.
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1676, Rise (mm): 1981, Type: RPP)				
Barrel Last Accessible Date	29-Mar-2013			
Special Features				
Special Feature (Type :)				
Special Feature (Type :)				
Roof		6	6	3 small holes and dents in roof at west end. Could not measure rise due to concrete floor. Est. sag is similar to deflection.
Measured Rise (mm)				
Measured At Ring No.				Power line conduit bolted to roof.
Sag (mm)	0			
Percent Sag				
Sidewall		7	7	Near c/l. Water/ice level to high to measure span.
Measured Span (mm)	1690			
Measured At Ring No.	4			
Deflection (mm)	40			
Percent Deflection	2			
Floor		N	N	(Concrete floor- some cracks in concrete; not serious. Water flowing in pipe. 99/03/03). Covered with animal waste.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		6	N	Bolts tipping slightly on bottom seams. Poor nesting of plates.
Total No. of Cracked Rings	0			
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		6	6	Minor superficial rust lower 1/3.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1676, Rise (mm): 1981, Type: RPP)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	Cattlepass is set in a small draw and serves as a culvert as well.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	6	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		N	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	N	No std bevel cut - low. -Jul, 2011
Heaving (mm)	0			Under snow/ice.
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		7	N	Snow covered
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	N	Snow covered
Beavers (Y/N)	No			
Downstream End General Rating		7	7	GR carried forward from July 2011.

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		9	X	(Cracking in concrete floor every 1 m. 99/03/03) Covered with mud/animal waste.
Roadway Surface		N	N	
(Type : CONCRETE)				
Icing (Y/N)	No			
Traffic Safety Features		X	X	
Type				
Lighting		X	X	

Structure Usage				
		Last	Now	Explanation of Condition
Barrel Leakage (Y/N)	No			
Drainage		7	7	
Structure In Use (Y/N)	Yes			
Grade Separation General Rating		9	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) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	70.2/68.8	Est. Repl. Yr	2024	Maint. Req. (Y/N)	No
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	Kris Bosters		Previous Assistant's Name				
Next Inspection Date	29-Dec-2014		Previous Inspection Date	07-Jul-2011			
Inspection Cycle (Default) (months)	21						
Comment							