

Bridge Culvert Inspection			
Bridge File Number	77518 -1 Bridge Culvert	Form Type	CUL1
Year Built	1973	Lot No.	
Bridge or Town Name	ISLAND LAKE	Inspector Name	Todd Warshawski
Located Over	TRIBUTARY TO ATHABASCA RIVER, 8.11.75, WATERCRS-ST	Inspector Class	BR CLS B
Located On	2:42 C1 33.917	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	29-Mar-2013
Legal Land Location	SW SEC 22 TWP 68 RGE 24 W4M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-113:34:60, 54:53:56	Data Entry Date	17-Apr-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	
Contract Main. Area	CMA10	Review Date	
Clear Roadway/Skew	9.6 /	Dept. Reviewer Name	Brent Herrick
AADT/Year	1,510 / 2012 (A)	Dept. Review Date	23-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	4400	2900	RPP	61.6	152X51	4.0	PIPE ARCH
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	West r/w.	Gas	
Power	2 wire crosses south 100 m.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	6	6	Pipe is on superelevated curve at the bottom of a sag curve. Limited sight distance both directions. 40m south of BF 01212.
Vertical Alignment	6	6	
Roadway Width (m)	9.600		
Embankment	8	8	
Sideslope (__:1)	3.0		
(Height of Cover(m) : 5.5)			
Guardrail (Y/N)	Yes		East side only.
Approach Road / Embankment General Rating	6	6	

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		7	N	Under water/ice/snow
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	700			
Scour Protection		7	N	Snow covered
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	N	
Beavers (Y/N)	Yes			Bever dam @ inlet, partially breached.
Upstream End General Rating		7	7	GR carried fwd from July,2011.
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 4400, Rise (mm): 2900, Type: RPP)				
Barrel Last Accessible Date	24-Nov-2000			Ice 0.4m from crown, no access.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		N	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	
Separation (mm)	0			
Longitudinal Seams		N	N	
Total No. of Cracked Rings				
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		N	N	(Pitting rust floor & lower sidewall. 08/Jun/04)
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	Yes			(1.5m ice. 15/Nov/2007)

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 4400, Rise (mm): 2900, Type: RPP)				
Fish Passage Adequacy		7	7	
Baffle (Type :)		N	N	
Waterway Adequacy		4	4	Ice 0.4m from crown Mar/2013
Icing (Y/N)	Yes			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	(G.R. was "7" but no access since 24/Nov/2000.)
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 (Shape :)		X	X	
Cutoff Wall		X	X	
Bevel End		7	N	Buried in snow
Heaving (mm)	0			
Invert Above/Below Stream Bed		BELOW		
Above/Below (mm)		1500		
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 300)		7	N	Snow covered
Scour/Erosion		7	N	
Beavers (Y/N)		No		
Downstream End General Rating		7	7	GR carried fwd from July, 2011
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	Sharp entry angle.
Bank Stability		6	N	
HWM (m below Top of Culvert)				HWM not visible. U/S end only.
Drift (Y/N)		Yes		
Channel Bottom Degrading/Aggrading				stable
Beavers (Y/N)		Yes		
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel 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	2013	Remove dam debris at inlet.					
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) (%)	51.6/51.6	Est. Repl. Yr	2024	Maint. Reqd. (Y/N)	Yes
Special Comments for Next Inspection	As this structure has not be accessed for 2 or more cycles, a Level 2 inspection is required as per BIM manual section 13.9.1.5. Based on observed site evaluations we are recommending that this be deferred to a later date.		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							