

Bridge Culvert Inspection				
Bridge File Number	07932 -2 Bridge Culvert		Form Type	CULE
Year Built	2005		Lot No.	4
Bridge or Town Name			Inspector Name	Todd Warshawski
Located Over	TRIBUTARY TO ATHABASCA RIVER, 8.11.70, WATERCRS-ST		Inspector Class	BR CLS B
Located On	2:42 C1 1.885		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	29-Mar-2013
Legal Land Location	SE SEC 19 TWP 66 RGE 22 W4M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-113:18:45, 54:43:35		Data Entry Date	24-Apr-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA10		Review Date	03-Apr-2013
Clear Roadway/Skew	10.3 / 3 deg. (RHF)		Dept. Reviewer Name	Brent Herrick
AADT/Year	2,050 / 2012 (A)		Dept. Review Date	01-May-2013
Road Classification	RAU-211.8-110		Follow-Up By	
Detour Length (km)	30			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	U/S	-	2550	MP	19.7	125X26	3.5	ROUND
1	MAIN	-	2381	SSP	62		15.9	ROUND
1	D/S	-	2550	MP	23.7	125X26	3.5	ROUND
Special Features								
Special Features Comment	No elbow, d/s extension was installed at skew.							

Utilities (Located at)

Utility Attachments			
Telephone	South r/w.	Gas	
Power	North r/w.	Municipal	
Others		Problem (Y/N)	No
Remarks	BF plaque on West headwall.		

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Slight sag curve. Limited visibility E and W due to horiz. curve, no passing to West.
Vertical Alignment	6	6	
Roadway Width (m)	10.300		
Embankment	7	7	
Sideslope (__:1)	3.0		
(Height of Cover(m) : 9)			
Guardrail (Y/N)	Yes		
Approach Road / Embankment General Rating	6	6	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	7	7	
Collar	5	5	Medium cracks at 400mm o/c.
Wingwalls	X	X	
(Shape :)			

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		N	N	Lower 1/2 not rated.
Bevel End		7	7	Snow covered
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		7	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 350)				
Scour/Erosion		7	N	
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: U/S , Span (mm): , Rise (mm): 2550 , Type: MP)				
Barrel Last Accessible Date	29-Mar-2013			
Special Features				
Special Feature				15 degree bend at connection of SSP & MP @ D/S end.
(Type :)				Grout missing on bottom 1/2 of u/s CSP/SSP connection.
Special Feature				
(Type :)				
Roof		8	8	10m from D/S. -July, 2011
Measured Rise (mm)	2555			Not measured due to ice.
Measured At Ring No.				
Sag (mm)	0			Upwards.
Percent Sag	0			
Sidewall		8	8	U/S extension 8m from inlet.
Measured Span (mm)	2552			
Measured At Ring No.				
Deflection (mm)	38			
Percent Deflection	0			
Floor		7	N	Debris and dirt trapped at weir locations.-Jul-2011
Bulge (mm)				Water/ice covered
Measured At Ring No.				
Abrasion (Y/N)	Yes			
Circumferential Seams		8	8	
Separation (mm)	60			
Longitudinal Seams		X	X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		7	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: U/S, Span (mm): , Rise (mm): 2550, Type: MP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		8	N	
(Type : WEIR)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Rating		8	8	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2381, Type: SSP)				
Barrel Last Accessible Date	29-May-2011			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		8	8	Rise not measured due to ice. At U/S.
Measured Rise (mm)	2292			
Measured At Ring No.				
Sag (mm)	89			3.7%
Percent Sag	4			
Sidewall		8	8	At U/S connection
Measured Span (mm)	2423			
Measured At Ring No.				
Deflection (mm)	42			
Percent Deflection	2			
Floor		8	N	Debris & dirt trapped in wier.-Jul-2011
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	Welded seams rated.
Separation (mm)	0			
Longitudinal Seams		X	X	
Total No. of Cracked Rings				
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		7	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2381, Type: SSP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		7	N	
(Type : WEIR)				
Waterway Adequacy		8	6	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		8	8	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		8	8	Lower 1/2 not rated.
Heaving (mm)	50			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		8	N	Snow covered
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		8	N	
Beavers (Y/N)	No			
Downstream End General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	
Bank Stability		7	7	Sloughing bank 25m D/S NW corner.-Jul-2011
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	8	

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	2013	Patch gravel connection at u/s.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	88.9/88.9	Sufficiency Rating (Last/Now) (%)	85.4/78.6	Est. Repl. Yr	2055	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	Kris Bosters		Previous Assistant's Name				
Next Inspection Date	29-Dec-2014		Previous Inspection Date	07-Jul-2011			
Inspection Cycle (Default) (months)	21						
Comment							