

Bridge Culvert Inspection			
Bridge File Number	01256 -1 Bridge Culvert	Form Type	CUL1
Year Built	1984	Lot No.	2
Bridge or Town Name	LAMONT	Inspector Name	Owen Salava
Located Over	BEAVERHILL CREEK, 6.62, WATERCRS-ST	Inspector Class	BR CLS A
Located On	29:02 C1 6.701	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	08-Nov-2012
Legal Land Location	SE SEC 27 TWP 55 RGE 19 W4M	Data Entry By	Marcia Chavez
Longitude, Latitude	-112:43:42, 53:46:27	Data Entry Date	16-Nov-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA14	Review Date	14-Nov-2012
Clear Roadway/Skew	13 / 40 deg. (RHF)	Dept. Reviewer Name	Andrew Smikles
AADT/Year	1,000 / 2011 (A)	Dept. Review Date	19-Nov-2012
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	5		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	5850	SP	85.3	152X51	5.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	South ditch.	Gas	
Power	2 wires 32m north of c/l. N/S power crosses SE end.	Municipal	
Others	Fibre optic buried in South r/w.	Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	6	6	Crosses RR192 from NW to SE.
Vertical Alignment	6	6	Crest curve to East, limited sight distance. No passing EB.
Roadway Width (m)	13.000		
Embankment	6	6	North end measured.
Sideslope (__:1)	3.0		
(Height of Cover(m) : 3.8)			
Guardrail (Y/N)	Yes		Accident damage to 3 sections @ SE radius - photo. 2 sections, 1 post and 1 section, 1 post @ SE. Torn sections at SE.
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	8	8	
Collar	8	N	Snow covered.
Wingwalls	X	X	
(Shape :)			
Cutoff Wall	N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		8	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	0			
Scour Protection		7	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		7	N	
Beavers (Y/N)	Yes			Drift/logs @ opening - photo. Beaver dam 20m u/s.
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): 5850, Type: SP)
Barrel Last Accessible Date	08-Jan-2004			1.3m deep water/ice, not accessible. Viewed from both ends, good shape. Ice not thick enough for access.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		8	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		N	N	(Local damage & corrosion to 2 corrugations in ring 4 West side, 10:00 o'clock - photo. 800mm. 08/Jan/2004)
Measured Span (mm)				(Too wide to measure. 08Jan2004).
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		N	N	(Water and plants. 00/10/24) 1.3m ice.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)	0			
Longitudinal Seams		N	N	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				(No stagger in 2 sidewall seams, both sides. 08/Jan/2004).
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		5	5	(Medium corrosion. 08/Jan/2004) Superficial corrosion above water, rated what's visible.
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 5850, Type: SP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		4	4	G. R. carried foward since 08Jan2004.
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		8	N	Snow covered.
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	
Bevel End		8	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	0			
Scour Protection		7	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		7	N	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	
Bank Stability		5	5	Local cutbank at SW 100m U/S sloughing, no problem yet.
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			Drift caught at U/S bevel.
Channel Bottom Degrading/Aggrading				Unknown. Beaver dam 20m U/S - photo.
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		8	8	

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 U/S beaver dam & drift.					
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION	2013	Repair damaged guardrail (SE), 5 sections & 3 timber posts.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	64.7/64.7	Est. Repl. Yr	2042	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	No action needed for corrosion.		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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	08-Aug-2014		Previous Inspection Date	07-Dec-2010			
Inspection Cycle (Default) (months)	21						
Comment							