

Bridge Culvert Inspection			
Bridge File Number	00553 -2 Bridge Culvert	Form Type	CUL1
Year Built	2004	Lot No.	4
Bridge or Town Name	LAMONT	Inspector Name	Jason Saly
Located Over	LAMONT CREEK, 6.62.4, WATERCRS-ST	Inspector Class	BR CLS A
Located On	831:04 C1 1.447	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	02-Jun-2010
Legal Land Location	SW SEC 21 TWP 55 RGE 19 W4M	Data Entry By	Jill Potts
Longitude, Latitude	-112:46:39, 53:45:60	Data Entry Date	01-Jul-2010
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA14	Review Date	24-Jun-2010
Clear Roadway/Skew	11 / -8 deg. (LHF)	Dept. Reviewer Name	Chris Black
AADT/Year	1,580 / 2009 (A)	Dept. Review Date	06-Jul-2010
Road Classification	RAU-210-110	Follow-Up By	
Detour Length (km)	3		

Bridge Culvert Information								
Number of Culverts		1						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	3991	3020	RPE	29.3	152X51	4.0	ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone	10 & 25m West of c/l.	Gas	
Power	3 wire OH 15m East of c/l.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Intersections 100m North & South. North of Municipal limit. Slight kink to horizontal alignment at culvert.
Vertical Alignment		9	8	
Roadway Width (m)	11.000			
Embankment		9	8	9:1 slope at culvert.
Sideslope ( _ :1)	6.0			
(Height of Cover(m) : <b>0.9</b> )				
Guardrail (Y/N)	No			Chainlink fence above the ends of the pipe.
<b>Approach Road / Embankment General Rating</b>		<b>7</b>	<b>7</b>	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		5	6	(50% stud bolts are too short. 21/Mar/2007)
Collar		8	7	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		N	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		N	7	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>5</b>	<b>6</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 3991, Rise (mm): 3020, Type: RPE)</b>				
Barrel Last Accessible Date	21-Mar-2007			Water too deep, approx 1.8m. Viewed from ends, shape appears good.
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		8	N	
Measured Rise (mm)	2995			Estimate.
Measured At Ring No.	4			0.8%
Sag (mm)				
Percent Sag	1			
Sidewall		8	N	(Minor leakage through bolts holes. 21/Mar/2007)
Measured Span (mm)	4006			
Measured At Ring No.	4			0.4%
Deflection (mm)	15			
Percent Deflection	0			
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		8	N	
Separation (mm)	0			
Longitudinal Seams		7	N	(R1 longitudinal seam separated 10mm @ 3 o'clock. 21/Mar/2007)
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		8	7	(Minor leakage through bolt holes. 21/Mar/2007)
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): 3991, Rise (mm): 3020, Type: RPE)				
Ponding (Y/N)	Yes			
Fish Passage Adequacy		9	8	
Baffle		N	N	
(Type : <b>WEIR</b> )				
Waterway Adequacy		9	8	Not visible.
Icing (Y/N)	No			
Silting (Y/N)				
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>7</b>	<b>N</b>	G.R. was "7" from 21/Mar/2007.
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		5	6	(50% of stud bolts are too short. 21/Mar/2007)
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		N	N	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	900			
Scour Protection		N	7	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>5</b>	<b>6</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		7	6	Sharp bend at U/S.
Bank Stability		N	6	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Unknown.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</b>	<b>6</b>	

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							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>77.8/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>78.7/66.2</b>	Est. Repl. Yr	2055	Maint. Reqd. (Y/N)	No
Special Comments for Next Inspection	(50% stud bolts of both headwalls do not have enough threads. Based on size of headwall & bolt location, inspector anticipates no problem. 21/Mar/2007)		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	Tim Davies		Previous Assistant's Name				
Next Inspection Date	02-Sep-2013		Previous Inspection Date	21-Mar-2007			
Inspection Cycle (Default) (months)	39						
Comment							