

Bridge Culvert Inspection			
Bridge File Number	75068 -2 Bridge Culvert	Form Type	CULE
Year Built/Lined	1959/2004	Lot No.	4
Bridge or Town Name	LOOMA	Inspector Name	Todd Warshawski
Located Over	IRVINE CREEK, 6.95.2.4, WATERCRS-ST	Inspector Class	BR CLS B
Located On	21:26 C1 17.265	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	07-Jan-2013
Legal Land Location	NW SEC 6 TWP 51 RGE 22 W4M	Data Entry By	Lisa Fairhurst
Longitude, Latitude	-113:14:45, 53:22:47	Data Entry Date	22-Jan-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA09	Review Date	17-Jan-2013
Clear Roadway/Skew	11.8 / 3 deg. (RHF)	Dept. Reviewer Name	Brent Herrick
AADT/Year	7,780 / 2011 (A)	Dept. Review Date	23-Jan-2013
Road Classification	RAU-211.8-110	Follow-Up By	
Detour Length (km)	3		

Bridge Culvert Information

Number of Culverts	2							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
2	U/S FULL LINER	-	1400	MP	11.3	125X26	2.8	ROUND
2	MAIN FULL LINER	-	1200	SSP	28			ROUND
2	D/S FULL LINER	-	1400	MP	11.3	125X26	2.8	ROUND
3	U/S	-	2000	MP	11.3	125X26	2.8	ROUND
3	MAIN	-	1829	SSP	28			ROUND
3	D/S	-	2000	MP	11.3	125X26	2.8	ROUND
Special Features								
Special Features Comment	BF tags not found							

Utilities (Located at)

Utility Attachments			
Telephone	West r/w	Gas	
Power	2 wire OHP E r/w	Municipal	
Others		Problem (Y/N)	
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Intersection to service station 25m north. Crest curve to south.
Vertical Alignment	7	7	
Roadway Width (m)	11.000		
Embankment	8	8	
Sideslope (__:1)	4.0		
(Height of Cover(m) : 3.8)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	7	7	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)			
Direction	E		South pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL		

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Headwall		X	X	
Collar		X	X	
Wingwalls (Shape :)		X	X	
Cutoff Wall		X	X	
Bevel End		8	8	Upper 1/2 rated
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	75			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 300)		N	N	Snow covered
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Upstream End General Rating		8	8	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: U/S, Span (mm): , Rise (mm): 1400, Type: MP)				
Barrel Last Accessible Date	07-Feb-2013			South pipe. Extensions u/s and d/s
Special Features				
Special Feature (Type :)				
Special Feature (Type :)				
Roof		8	8	Rise not measured due to ice
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag	0			
Sidewall		8	8	5m from inlet.
Measured Span (mm)	1408			
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection	0			
Floor		N	N	600m water/ice. Deepens from mid pipe to downstream.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	Rating CSP/WSP connection.
Separation (mm)	0			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: U/S, Span (mm): , Rise (mm): 1400, Type: MP)				
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		6	6	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
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 # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1200, Type: SSP)				
Barrel Last Accessible Date	07-Jan-2013			South pipe. Centre section
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		8	8	Rise not measured due to ice
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag	0			
Sidewall		8	8	c/l
Measured Span (mm)	1185			
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection	0			
Floor		N	N	300m water/ice. Deepens from mid pipe to downstream.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	Welded seams.
Separation (mm)	0			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1200, Type: SSP)				
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		6	6	Superficial rust in liner.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	8	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Direction		W		South pipe.
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	Upper 1/2 rated
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		N	N	Snow covered
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Downstream End General Rating		8	8	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Primary Span)				
Direction		E		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall			X	
Collar			X	
Wingwalls (Shape :)			X	
Cutoff Wall			X	
Bevel End			7	Upper 1/2 rated
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 300)			N	Under snow
Scour/Erosion			N	Under snow
Beavers (Y/N)				
Upstream End General Rating			7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Primary Span, Location Code: U/S, Span (mm): , Rise (mm): 2000, Type: MP)				
Barrel Last Accessible Date	07-Jan-2013			North pipe. Extensions. u/s and d/s
Special Features				
Special Feature (Type :)				
Special Feature (Type :)				
Roof			7	(5m from inlet - Feb/04)
Measured Rise (mm)	1980			
Measured At Ring No.				
Sag (mm)	20			
Percent Sag	1			
Sidewall			7	5m from inlet
Measured Span (mm)	2004			
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection	0			
Floor			N	Covered with water/ice
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams			8	
Separation (mm)	0			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Primary Span, Location Code: U/S, Span (mm): , Rise (mm): 2000, Type: MP)				
Longitudinal Seams			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			6	Rating CSP extensions. Minor superficial rust
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy			8	
Baffle			X	
(Type :)				
Waterway Adequacy			8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Rating			7	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1829, Type: SSP)				
Barrel Last Accessible Date	07-Jan-2013			North pipe. Centre section
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof			7	Rise not measured due to ice
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag	1			
Sidewall			7	
Measured Span (mm)	1820			c/l
Measured At Ring No.				
Deflection (mm)	10			
Percent Deflection	0			
Floor			N	Covered with ice/water
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams			8	Welded seams
Separation (mm)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1829, Type: SSP)				
Longitudinal Seams			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			6	Superficial rust
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy			8	
Baffle			X	
(Type :)				
Waterway Adequacy			8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating			7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Primary Span)				
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	Upper 1/2 rated
Bevel End			8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			Snow covered
Scour Protection			N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				N
Scour/Erosion				
Beavers (Y/N)	No			
Downstream End General Rating			8	

Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)			(Fish pool-May 2, 2009)	
(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							
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) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	80.1/80.1	Est. Repl. Yr	2060	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	Todd Warshawski		Previous Assistant's Name				
Next Inspection Date	07-Oct-2014		Previous Inspection Date	09-Feb-2011			
Inspection Cycle (Default) (months)	21						
Comment							