

Bridge Culvert Inspection			
Bridge File Number	73447 -1 Bridge Culvert	Form Type	CUL1
Year Built	1960	Lot No.	2
Bridge or Town Name	HIGH LEVEL	Inspector Name	Brian Pientsch
Located Over	TRIBUTARY TO MEANDER RIVER, 9.16.8, WATERCRS-ST	Inspector Class	BR CLS A
Located On	35:16 C1 38.802	Assistant Name	Clem Guenette
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	12-Jan-2012
Legal Land Location	SE SEC 14 TWP 113 RGE 21 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:24:50, 58:48:27	Data Entry Date	27-Feb-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA01	Review Date	26-Feb-2012
Clear Roadway/Skew	9.7 / -20 deg. (LHF)	Dept. Reviewer Name	David Morrison
AADT/Year	1,150 / 2011 (A)	Dept. Review Date	30-Mar-2012
Road Classification	RAU-209-110	Follow-Up By	
Detour Length (km)	999		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	3048	SP	58.5	152X51	4.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	W R/W	Gas	
Power	West side - single line	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		9	9	Crest curves each way - no passing - SOUTHBOUND
Vertical Alignment		7	7	
Roadway Width (m)	9.700			
Embankment		7	7	
Sideslope (__:1)	3.5			
(Height of Cover(m) : 6)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		7	7	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		E		
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		N	6	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			Est.
Above/Below (mm)	100			
Scour Protection		3	3	Scour along both sides of bevel.
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		3	3	SCOUR ALONG BOTH SIDES OF BEVEL. Noth side is 2mx1m deep.
Beavers (Y/N)	No			
Upstream End General Rating		3	3	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3048, Type: SP)				
Barrel Last Accessible Date	12-Jan-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		5	5	(4 HOLES IN ROOF AT RING 2)(PHOTO) Measurements not taken-2.596m ice to crown.
Measured Rise (mm)	3080			
Measured At Ring No.	13			
Sag (mm)	32			Deflection upward.
Percent Sag	1			
Sidewall		6	6	
Measured Span (mm)	3040			Deflection inward.
Measured At Ring No.	13			
Deflection (mm)	8			
Percent Deflection	0			
Floor		N	N	Under water/ice.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	5	
Separation (mm)	0			
Longitudinal Seams		5	4	
Total No. of Cracked Rings	0			Ring 15-11 o'clock bolt not torqued, plates are not nested properly.
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				1N stagger.
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		4	4	(Deep pitting rust on floor - 2003/05/20) Alkaling deposits through roof bolts.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
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): 3048, Type: SP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		7	4	D/S bevel above streambed.
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	4	
Downstream 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	
Bevel End		5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	300			
Scour Protection		3	3	(Scour hole - fill sloughing around bevel - bevel projecting 1 1/2 m from fill both corners.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		3	3	Scour hole around bevel. Water running under thin ice - could not get good photo.
Beavers (Y/N)	No			
Downstream End General Rating		3	3	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		7	7	Stable.
HWM (m below Top of Culvert)				HWM NOT VISIBLE. @ u.s bevel.
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				

Structure Usage				
		Last	Now	Explanation of Condition
Channel General Rating		7	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP	2012	II, 200m3					
REMOVE DRIFT ACCUMULATION	2012	AT u/s bevel.					
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) (%)	55.6/44.4	Sufficiency Rating (Last/Now) (%)	55.3/43.5	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor corrosion. Monitor longitudinal seam @ 11:00 Ring 15.		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	Brian Pientsch		Previous Assistant's Name	Lisbeth Medina			
Next Inspection Date	12-Oct-2013		Previous Inspection Date	27-May-2010			
Inspection Cycle (Default) (months)	21						
Comment							