

Bridge Culvert Inspection				
Bridge File Number	81288 -1 Bridge Culvert		Form Type	CUL1
Year Built	1988		Lot No.	1
Bridge or Town Name			Inspector Name	Brian Pientsch
Located Over	TRIBUTARY TO CARMON CREEK, 8.10.49.1, WATERCRS-ST		Inspector Class	BR CLS A
Located On	986:02 C1 0.521		Assistant Name	Clem Guenette
Water Body Cl./Year			Assistant Class	BR CLS B
Navigabil. Cl./Year			Inspection Date	22-Mar-2013
Legal Land Location	NW SEC 10 TWP 85 RGE 20 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:04:48, 56:21:45		Data Entry Date	08-Apr-2013
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA04		Review Date	08-Apr-2013
Clear Roadway/Skew	9.9 / 0 deg.		Dept. Reviewer Name	
AADT/Year	1,120 / 2012 (A)		Dept. Review Date	
Road Classification	RCU-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	-	1219	MP	106	125X26	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone	Buried cable along N row.		Gas	
Power	3 wire O/H 100m North		Municipal	
Others			Problem (Y/N)	No
Remarks				

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	x-ing in on a horz curve.
Vertical Alignment		7	7	
Roadway Width (m)	9.900			
Embankment		3	N	SE & SW erosion is causing roadway embankment to slough. photo-04-Apr-2011
Sideslope (__:1)	4.0			
(Height of Cover(m) : 10)				30x5x1m (lwd) erosion gullies SE & SW ditch.-photos-04-Apr-2011
				Snow covered
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		3	3	GR carried fwd.

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	X	
Bevel End		3	3	Bevel looks detached from barrel.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		3	N	Completely eroded around bevel & 1m back along barrel. -photo-04-Spr-2011
(Type :)				
(Avg. Rock Size(mm) :)				Snow covered
Scour/Erosion		3	N	Due to culvert alignment erosion is present - photo-04-Apr-2011
				Snow covered
Beavers (Y/N)	Yes			Cuttings present
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): 1219, Type: MP)				
Barrel Last Accessible Date				707mm ice to culvert crown-culvert couldn't be inspected.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		3	3	Sag est to be similar to deflection.-09-Oct-2009
Measured Rise (mm)				Culvert couldn't be insepcted.
Measured At Ring No.				Appears to have approx. 200mm sag, 20m from u/s.
Sag (mm)				
Percent Sag				
Sidewall		3	3	Measured 6m into barrel.-09-Oct-2009
Measured Span (mm)	1320			Defl. looks consistent farther into barrel.
Measured At Ring No.				
Deflection (mm)	101			
Percent Deflection	8			
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		3	3	200mm separation at 1st lock seam u/s end.
Separation (mm)	200			
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		4	4	Pitting rust 360 deg.
Corrosion By Soil (Y/N)	No			Viewed from u/s end.
Corrosion By Water (Y/N)	Yes			Scaling rust @ waterline.

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1219, Type: MP)				
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		X	X	
(Type :)				
Waterway Adequacy		4	4	Scour hole d/s-04-Apr-2011
Icing (Y/N)	No			Cuttings visible in barrel.
Silting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		3	3	
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		N	N	Under ice/snow.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			Couldn't tell due to snow.
Above/Below (mm)	300			
Scour Protection		4	N	8mx4mx1.0m (lwd) scour hole d/s.-04-Apr-2011
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		4	4	Scour d/s.
Beavers (Y/N)	No			
Downstream End General Rating		4	4	GR carried fwd.
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	
Bank Stability		5	5	
HWM (m below Top of Culvert)	-0.1			100mm on top of culvert-drift accumulation.-04-Apr-2011
Drift (Y/N)	Yes			10-20 x 100mm sized logs u/s and d/s.
Channel Bottom Degrading/Aggrading				Couldn't tell due to snow.
Beavers (Y/N)	Yes			Cuttings present
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

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	Replace culvert					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	33.3/33.3	Sufficiency Rating (Last/Now) (%)	23.3/23.2	Est. Repl. Yr	2013	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor embankment sloughing.		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	22-Jun-2016		Previous Inspection Date	04-Apr-2011			
Inspection Cycle (Default) (months)	39						
Comment							