

Bridge Culvert Inspection			
Bridge File Number	70525 -2 Bridge Culvert	Form Type	CUL1
Year Built	1999	Lot No.	2
Bridge or Town Name	DONNELLY	Inspector Name	Brian Pientsch
Located Over	TRIBUTARY TO PEAVINE CREEK, 8.10.58.7.4.3, WATERCRS-ST	Inspector Class	BR CLS A
Located On	2:56 C1 24.736	Assistant Name	Clem Guenette
Water Body Cl./Year		Assistant Class	BR CLS B
Navigabil. Cl./Year		Inspection Date	14-Dec-2012
Legal Land Location	SW SEC 5 TWP 78 RGE 20 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:04:23, 55:43:24	Data Entry Date	12-Jan-2013
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Eric Carcoux
Contract Main. Area	CMA03	Review Date	09-Jan-2013
Clear Roadway/Skew	12.1 / -28 deg. (LHF)	Dept. Reviewer Name	David Morrison
AADT/Year	1,800 / 2011 (A)	Dept. Review Date	18-Mar-2013
Road Classification	RAU-211.8-110	Follow-Up By	
Detour Length (km)	80		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2000	MP	34	125X26	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power	3 wires o/h along South ditch	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Farm accesses on both sides.
Vertical Alignment		8	8	Small bump, much worse in summer.
Roadway Width (m)	12.100			
Embankment		7	7	
Sideslope (__:1)	6.0			
(Height of Cover(m) : 1.6)				
Guardrail (Y/N)	Yes			Accident damage w/1 bent flexbeam, 2 broken posts @ NE corner. 2 broken posts middle of South rail.-05-May-2009 Under snow
Approach Road / Embankment General Rating		7	7	

Upstream 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 :)				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	X	
Bevel End		6	6	Large slice on roof from mower probably. Not affecting functionality.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		N	N	Covered with snow.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		N	N	Snow covered.
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 2000 , Type: MP)				
Barrel Last Accessible Date	14-Dec-2012			1475mm ice to roof.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		8	8	Estimated - ice on floor
Measured Rise (mm)	1995			At c.l.
Measured At Ring No.				
Sag (mm)	5			
Percent Sag	1			
Sidewall		8	8	At c.l.
Measured Span (mm)	2015			
Measured At Ring No.				
Deflection (mm)	15			
Percent Deflection	1			
Floor		8	N	Ice on floor
Bulge (mm)	0			c/l
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	40mm separated seam 3 @ 7 o'clock position viewing d/s.
Separation (mm)	40			
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	Minor superficial corrosion lower 1/3.
Corrosion By Soil (Y/N)	No			
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): 2000, Type: MP)				
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)	No			
Barrel General Rating		8	8	
Downstream 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 :)				
Cutoff Wall		X	X	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		N	N	Under snow
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		N	N	Under snow
Beavers (Y/N)	No			
Downstream End General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	90deg - BEND DOWNSTREAM
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visibile.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				STABLE
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		6	6	

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	Repair guardrail.-05-May-2009					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	88.9/88.9	Sufficiency Rating (Last/Now) (%)	83.5/83.5	Est. Repl. Yr	2049	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Couldn't confirm if above maintenance item was completed due to snow cover.		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	14-Sep-2014		Previous Inspection Date	25-Jan-2011			
Inspection Cycle (Default) (months)	21						
Comment							