

Bridge Culvert Inspection				
Bridge File Number	09159 -1 Bridge Culvert		Form Type	CUL1
Year Built	1982		Lot No.	4
Bridge or Town Name	FAWCETT		Inspector Name	Eric Carcoux
Located Over	FRENCH CREEK, 8.11.84.4, WATERCRS-ST		Inspector Class	BR CLS A
Located On	663:02 C1 1.462		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	29-Mar-2010
Legal Land Location	SE SEC 28 TWP 64 RGE 1 W5M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-114:04:49, 54:33:35		Data Entry Date	27-Apr-2010
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA10		Review Date	15-Apr-2010
Clear Roadway/Skew	9.2 / -20 deg. (LHF)		Dept. Reviewer Name	Brent Herrick
AADT/Year	170 / 2009 (A)		Dept. Review Date	03-May-2010
Road Classification	RLU-209-110		Follow-Up By	
Detour Length (km)	5			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	6100	SP	74.4	152X51	5.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone	South r/w.		Gas	
Power	North r/w.- 1 wire OH		Municipal	
Others			Problem (Y/N)	No
Remarks				

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Residential access East.
Vertical Alignment		6	6	No passing both directions. Slight sag curve.
Roadway Width (m)	9.200			
Embankment		N	5	Erosion channel NW ditch - fixed with rock.
Sideslope (__:1)	3.0			
(Height of Cover(m) : 5)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		6	6	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		N		Ice to crown 400mm.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			No evident problems
Headwall		X	X	
Collar		N	4	Concrete slab adjacent to shoulder void under slab approx. 400mm, slab cracked and settled.
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	
Heaving (mm)	600			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		N	4	(Concrete slab adjacent to shoulder void under slab approx 400mm, slab cracked & settled. 09/10/03)
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		N	4	
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 6100 , Type: SP)				
Barrel Last Accessible Date	28-Nov-2006			Viewed from ends-shape looks good. Ice thin and deep water.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		8	8	4424mm @ R3 from top of ice.-28-Nov-2006
Measured Rise (mm)				
Measured At Ring No.				Estimate 1% sag.-28-Nov-2006
Sag (mm)				
Percent Sag				
Sidewall		8	8	
Measured Span (mm)	5981			
Measured At Ring No.	3			Inward deflection.-28-Nov-2006
Deflection (mm)	119			
Percent Deflection	2			
Floor		N	N	Covered by ice.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	N	
Separation (mm)	0			
Longitudinal Seams		6	N	5 of 6 longitudinal seams are improperly lapped.-28-Nov-2006
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		6	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	Yes			(1.0m. 09/10/03)

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 6100, Type: SP)				
Fish Passage Adequacy		8	8	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	(400mm. 2000/06/22)
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		6	N	Gr carried forward from 28-Nov-2006 was (6)

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		Ice to crown 400mm. No evident problems
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	5	
Heaving (mm)	300			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	500			
Scour Protection		N	5	(Smaller rocks pushed D/S. 09/10/03)
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		N	5	
Beavers (Y/N)	No			
Downstream End General Rating		5	5	

Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		N	7	
HWM (m below Top of Culvert)				
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
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							
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) (%)	66.7/55.6	Sufficiency Rating (Last/Now) (%)	71.1/66.1	Est. Repl. Yr	2033	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	Jason Saly		Previous Assistant's Name				
Next Inspection Date	29-Jun-2013		Previous Inspection Date	28-Nov-2006			
Inspection Cycle (Default) (months)	39						
Comment							