

Bridge Culvert Inspection				
Bridge File Number	80821 -1 Bridge Culvert		Form Type	CUL1
Year Built	1988		Lot No.	4
Bridge or Town Name	MEANOOK		Inspector Name	Eric Carcoux
Located Over	MUSKEG CREEK, 8.11.69, WATERCRS-ST		Inspector Class	BR CLS A
Located On	812:02 C1 1.478		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	29-Mar-2010
Legal Land Location	NW SEC 1 TWP 65 RGE 24 W4M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-113:30:36, 54:36:02		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	9.4 / 27 deg. (RHF)		Dept. Reviewer Name	Brent Herrick
AADT/Year	240 / 2009 (A)		Dept. Review Date	03-May-2010
Road Classification	RCU-209-110		Follow-Up By	
Detour Length (km)	3			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2740	SP	43.3	152X51	3.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone			Gas	
Power			Municipal	
Others			Problem (Y/N)	No
Remarks				

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Field entrance North & South.
Vertical Alignment		7	7	
Roadway Width (m)	9.400			
Embankment		N	7	
Sideslope (_ :1)	3.0			
(Height of Cover(m) :)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		7	7	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		W		ICE TO CROWN 1.2M
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	N	No evident problems.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		N	N	Fill settled up to 300mm.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		N	N	(Scour 1m into embankment slope because of poor channel alignment. 09/Oct/2003) Snow nad ice cover.
Beavers (Y/N)	No			
Upstream End General Rating		4	4	G.R. carried forward from 09/Oct/2003.
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2740, Type: SP)				
Barrel Last Accessible Date	27-Nov-2006			Ice to crown 1.2m and ice thin. Ice above springline in mid section. Shape looks good from ends.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		6	N	
Measured Rise (mm)				(4.0%. 09/Oct/2003)
Measured At Ring No.				
Sag (mm)	110			
Percent Sag				
Sidewall		6	N	
Measured Span (mm)	2817			
Measured At Ring No.	6			
Deflection (mm)	117			
Percent Deflection	4			
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	N	
Separation (mm)	0			
Longitudinal Seams		7	N	
Total No. of Cracked Rings	0			Stagger is 2N.-27-Nov-2006
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		6	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			Approx 200 mm negative camber.-27-Nov-2006

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2740, Type: SP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		7	7	(Spring @ U/S end causing ice build up @ invert. 98/01/14)
Icing (Y/N)	Yes			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	N	Gr carried forward from 247-Nov-2006 was (6)
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		Ice to crown 1.2m and ice thin.
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	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	700			
Scour Protection		N	N	Fill settled along bevel up to 300mm.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		N	N	(Erosion adjacent to South side of bevel, approx 0.5m along bevel. 09/Oct/2003)
Beavers (Y/N)	No			
Downstream End General Rating		4	4	(Carry over from 09/Oct/2003, scour governed.)
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		4	N	Main channel not lined up well with inlet.-27-Nov-2006 Snow and ice covered.
Bank Stability		N	5	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	GR carried forward from 27-Nov-2006

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) (%)	65.0/60.0	Est. Repl. Yr	2030	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	27-Nov-2006			
Inspection Cycle (Default) (months)	39						
Comment							