

Bridge Culvert Inspection			
Bridge File Number	78582 -1 Bridge Culvert	Form Type	CULM
Year Built	1986	Lot No.	4
Bridge or Town Name	JEAN COTE	Inspector Name	Brian Pientsch
Located Over	3RD ORDER TRIBUTARY TO SMOKY RIVER, 8.10.58.1.2.1, WATERCRS-ST	Inspector Class	BR CLS A
Located On	744:04 C1 15.615	Assistant Name	Lisbeth Medina
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	02-Feb-2011
Legal Land Location	NW SEC 23 TWP 79 RGE 22 W5M	Data Entry By	Janie Assenheimer
Longitude, Latitude	-117:20:31, 55:51:47	Data Entry Date	25-Feb-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA03	Review Date	22-Feb-2011
Clear Roadway/Skew	9.2 / 0 deg.	Dept. Reviewer Name	Steve Pasquan
AADT/Year	360 / 2010 (A)	Dept. Review Date	16-Nov-2011
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	3		

Bridge Culvert Information

Number of Culverts	3							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	1390	970	FP	23.8	125X26	2.8	ARCH
2	MAIN	1390	970	FP	23.8	125X26	2.8	ARCH
3	MAIN	1390	970	FP	23.8	125X26	2.8	ARCH
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	West & East.	Gas	
Power	East (2W)	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Access 50m South.
Vertical Alignment	9	9	
Roadway Width (m)	9.200		
Embankment	9	9	
Sideslope (__:1)	4.0		
(Height of Cover(m) : 1.5)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	7	7	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)			
Direction	E		South pipe.
End Treatment (Concrete, Steel, Others, None)	NONE		
Headwall	X	X	
Collar	X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)				
Wingwalls		X	N	
(Shape :)				
Cutoff Wall		X	N	
Bevel End		7	N	Bevel under snow.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			Oct. 23, 2007
Above/Below (mm)	300			
Scour Protection		7	N	Under snow.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	N	Under snow.
Beavers (Y/N)	No			
Upstream End General Rating		7	7	GR carried forward.

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1390, Rise (mm): 970, Type: FP)				
Barrel Last Accessible Date	23-Oct-2007			Couldn't be inspected - culvert submerged in snow.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		5	N	
Measured Rise (mm)	915			(At C/L Oct. 23, 2007)
Measured At Ring No.				
Sag (mm)	55			
Percent Sag	6			
Sidewall		5	N	
Measured Span (mm)	1410			(At C/L Oct 23, 2007)
Measured At Ring No.				
Deflection (mm)	20			
Percent Deflection	1			
Floor		6	N	
Bulge (mm)	25			(Est. Oct 23, 2007)
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	N	
Separation (mm)	25			
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)	No			
Longitudinal Stagger (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1390, Rise (mm): 970, Type: FP)				
Coating		6	N	(Minor superficial rust 400mm widestrip of floor. Oct 23, 2007)
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		6	N	
Baffle		X	X	
(Type :)				
Waterway Adequacy		6	N	
Icing (Y/N)				
Silting (Y/N)				
Drift (Y/N)				
Barrel General Rating		5	N	(GR 5 - 23 Oct 2007)
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary Span)				
Direction		W		South pipe. Culvert completely submerged in snow.
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	N	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		7	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	N	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	GR carried forward.
Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Direction		E		Centre pipe. Culvert completely submerged in snow.
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Secondary Span)				
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	N	Bevel under snow.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		7	N	Under snow.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	N	Under snow.
Beavers (Y/N)	No			
Upstream End General Rating		7	7	GR carried forward.

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): 1390, Rise (mm): 970, Type: FP)				
Barrel Last Accessible Date	23-Oct-2007			Culvert couldn't be inspected - completely submerged in snow.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	N	
Measured Rise (mm)	970			
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		7	N	
Measured Span (mm)	1400			
Measured At Ring No.				
Deflection (mm)	10			
Percent Deflection	1			
Floor		6	N	(Est. Oct 23, 2007)
Bulge (mm)	25			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	N	
Separation (mm)	25			
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)	No			
Longitudinal Stagger (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): 1390, Rise (mm): 970, Type: FP)				
Coating		6	N	(Minor superficial rust 400 wide strip of floor. Oct 23, 2007)
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		6	6	
Baffle		X	X	
(Type :)				
Waterway Adequacy		6	N	
Icing (Y/N)				
Silting (Y/N)				
Drift (Y/N)				
Barrel General Rating		7	N	GR 7 - 23 Oct 2007.

Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 2, Span Type: Secondary Span)					
Direction		W		Centre pipe. Culvert submerged in snow.	
End Treatment (Concrete, Steel, Others, None)	NONE				
Headwall		X	X		
Collar		X	X		
Wingwalls		X	X		
(Shape :)					
Cutoff Wall		X	X		
Bevel End		7	N	Bevel under snow.	
Heaving (mm)	0				
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	150				
Scour Protection		7	N	Under snow.	
(Type : RIP RAP)					
(Avg. Rock Size(mm) : 300)					
Scour/Erosion		7	N	Under snow.	
Beavers (Y/N)	No				
Downstream End General Rating		7	7	GR carried forward.	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Secondary Span)				
Direction		E		North pipe. Culvert submerged in snow.
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Span Type: Secondary Span)				
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	N	Bevel under snow.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		7	N	UNder snow.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	N	Under snow.
Beavers (Y/N)	No			
Upstream End General Rating		7	7	GR carried forward.

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 3, Secondary Span, Location Code: MAIN, Span (mm): 1390, Rise (mm): 970, Type: FP)				
Barrel Last Accessible Date	23-Oct-2007			Culvert completely submerged in snow - couldn't be inspected.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		6	N	(At C/L Oct 23, 2007)
Measured Rise (mm)	945			
Measured At Ring No.				
Sag (mm)	25			
Percent Sag	3			
Sidewall		7	N	(Est. Oct 23, 2007)
Measured Span (mm)	1410			
Measured At Ring No.				
Deflection (mm)	20			
Percent Deflection	2			
Floor		6	N	
Bulge (mm)	25			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	N	
Separation (mm)	25			
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)	No			
Longitudinal Stagger (Y/N)	No			

Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 3, Secondary Span, Location Code: MAIN, Span (mm): 1390, Rise (mm): 970, Type: FP)					
Coating		6	N	(Minor superficial rust 400 wide strip of floor. Oct 23, 2007)	
Corrosion By Soil (Y/N)					
Corrosion By Water (Y/N)	Yes				
Camber POS/ZERO/NEG					
Ponding (Y/N)	No				
Fish Passage Adequacy		6	N		
Baffle		X	X		
(Type :)					
Waterway Adequacy		6	N		
Icing (Y/N)					
Silting (Y/N)					
Drift (Y/N)					
Barrel General Rating		6	N	GR6 - 23 Oct 2007.	
Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 3, Span Type: Secondary Span)					
Direction		W		North pipe. Culvert submerged in snow.	
End Treatment (Concrete, Steel, Others, None)	NONE				
Headwall		X	X		
Collar		X	X		
Wingwalls		X	X		
(Shape :)					
Cutoff Wall		X	X		
Bevel End		7	N	Bevel under snow.	
Heaving (mm)					
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	150				
Scour Protection		7	N	Under snow.	
(Type : RIP RAP)					
(Avg. Rock Size(mm) : 300)					
Scour/Erosion		7	N	Under snow.	
Beavers (Y/N)	No				
Downstream End General Rating		7	7	GR carried forward.	
Structure Usage					
		Last	Now	Explanation of Condition	
Channel (U/S and D/S)					
Alignment		5	5	90d turn @ D/S end	
Bank Stability		7	7		
HWM (m below Top of Culvert)				(No HWM visible Oct 23, 2007)	
Drift (Y/N)	No				

Structure Usage				
		Last	Now	Explanation of Condition
Channel Bottom Degrading/Aggrading				Stable.
Beavers (Y/N)	No			
(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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	62.8/72.2	Est. Repl. Yr	2034	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	Eric Carcoux		Previous Assistant's Name				
Next Inspection Date	02-May-2014		Previous Inspection Date	23-Oct-2007			
Inspection Cycle (Default) (months)	39						
Comment							