

Bridge Culvert Inspection			
Bridge File Number	74691 -1 Bridge Culvert	Form Type	CUL1
Year Built	1979	Lot No.	1
Bridge or Town Name	ROSEMARY	Inspector Name	Tom Carey
Located Over	TRIBUTARY TO MATZHIWIN CREEK, 3.15.6, WATERCRS-ST	Inspector Class	BR CLS A
Located On	862:02 C1 1.527	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	10-Feb-2010
Legal Land Location	NW SEC 13 TWP 21 RGE 17 W4M	Data Entry By	Erin Roberts
Longitude, Latitude	-112:14:37, 50:47:25	Data Entry Date	08-Mar-2010
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	CMA23	Review Date	24-Feb-2010
Clear Roadway/Skew	8.5 /	Dept. Reviewer Name	Lorenz Bohnert
AADT/Year	240 / 2008 (A)	Dept. Review Date	09-Mar-2010
Road Classification	RCU-208-110	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	-	2200	MP	26	68X13	4.2,4.2,4.2	ROUND
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments			
Telephone	west ditch	Gas	
Power	3 wire E ditch 15 m FROM C.L.	Municipal	
Others		Problem (Y/N)	No
Remarks			

**Approach Road / Embankment**

	Last	Now	Explanation of Condition
Horizontal Alignment	8	8	3:1 @ EAST
Vertical Alignment	8	8	
Roadway Width (m)	8.500		
Embankment	7	N	Snow
Sideslope ( __:1)	2.0		
(Height of Cover (m) : 2)			
Guardrail (Y/N)	No		
<b>Approach Road / Embankment General Rating</b>	<b>8</b>	<b>8</b>	

**Upstream End**

Culvert Component	Last	Now	Explanation of Condition
Direction	W		
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		5	N	(Extensive surface rust) Ice and snow cover
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		6	N	Ice and snow cover
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size (mm) : <b>150</b> )				
Scour/Erosion		6	N	Ice and snow cover
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>5</b>	<b>N</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): -, Rise (mm): 2200, Type: MP)</b>				
Barrel Last Accessible Date	10-Feb-2010			
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		3	3	ESTIMATE ROOF Ice 700mm from roof at midpoint
Measured Rise (mm)				
Measured At Ring No.				GR carried
Sag (mm)	250			
Percent Sag	11			
Sidewall		3	3	Unable to get measurement of span @ widest point due to ice depth GR carried- sag appears as last inspec.
Measured Span (mm)	2450			
Measured At Ring No.	2			
Deflection (mm)	250			
Percent Deflection	11			
Floor		N	N	Ice Covered
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		4	4	250mm horiz separation d/s seam (small void behind n.side)
Separation (mm)	250			MID SEAM 130 mm SEPARATION.
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		5	N	(SURFACE RUST @ SIDEWALL @ WATERLINE) ice
Corrosion By Soil (Y/N)				
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): 2200, Type: MP)					
Ponding (Y/N)	No				
Fish Passage Adequacy		X	X		
Baffle		X	X		
(Type : )					
Waterway Adequacy		7	7	(600 mm OF SILT ACCUMULATED ON FLOOR SHOULD FLUSH IN FLOOD.) 24/06/03	
Icing (Y/N)	No				
Silting (Y/N)	No				
Drift (Y/N)	No				
<b>Barrel General Rating</b>		<b>3</b>	<b>3</b>	GR carried forward	
Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
Direction		E		e.end	
End Treatment (Concrete, Steel, Others, None)	STEEL				
Headwall		X	X		
Collar		X	X		
Wingwalls		X	X		
(Shape : )					
Cutoff Wall		X	X		
Bevel End		5	N	Ice and snow cover	
Heaving (mm)					
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	250				
Scour Protection		6	N	Ice and snow cover	
(Type : RIP RAP)					
(Avg. Rock Size (mm) : 150)					
Scour/Erosion		6	N	Ice and snow cover	
Beavers (Y/N)	No				
<b>Downstream End General Rating</b>		<b>6</b>	<b>N</b>	Ice and snow cover	
Structure Usage					
		Last	Now	Explanation of Condition	
<b>Channel (U/S and D/S)</b>					
Alignment		5	5	45 degree angle u/s	
Bank Stability		7	N	Snow	
HWM (m below Top of Culvert)					
Drift (Y/N)	No				
Channel Bottom Degrading/Aggrading	DEGRADING			Snow	
Beavers (Y/N)	No				
(Fish Compensation Measure 1 : NONE)					
(Fish Compensation Measure 2 : NONE)					
<b>Channel General Rating</b>		<b>5</b>	<b>5</b>	GR carried forward	

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							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>33.3/33.3</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>53.4/52.5</b>	Est. Repl. Yr	2020	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Unable to measure barrel due to ice depths. Appears about same deflection as last inspec.		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	Tim Davies		Previous Assistant's Name				
Next Inspection Date	10-May-2013		Previous Inspection Date	02-Feb-2007			
Inspection Cycle (Default) (months)	39						
Comment							