

Bridge Culvert Inspection				
Bridge File Number	78134 -1 Bridge Culvert		Form Type	CULM
Year Built	1977		Lot No.	2
Bridge or Town Name	VALLEYVIEW		Inspector Name	Russel Vanderschaaf
Located Over	2ND ORDER TRIBUTARY TO SWEATHOUSE CREEK, 8.10.58.7.25.2.1, WATERCRS-ST		Inspector Class	BR CLS B
			Assistant Name	
Located On	669:02 C1 19.487		Assistant Class	
Water Body Cl./Year			Inspection Date	24-Aug-2010
Navigabil. Cl./Year			Data Entry By	Theresa Lacusta
Legal Land Location	SW SEC 26 TWP 70 RGE 20 W5M		Data Entry Date	20-Oct-2010
Longitude, Latitude	:, :		Reviewer Name	Arnold Assenheimer
Road Authority	Alberta Transportation (AIT)		Review Date	20-Sep-2010
Contract Main. Area	CMA03		Dept. Reviewer Name	Steve Pasquan
Clear Roadway/Skew	9.8 / 0 deg.		Dept. Review Date	23-Nov-2010
AADT/Year			Follow-Up By	
Road Classification	RLU-209.0-110			
Detour Length (km)	20			

Bridge Culvert Information								
Number of Culverts		2						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	-	1200	MP	21.3			ROUND
2	MAIN	-	1200	MP	21.3			ROUND
Special Features								
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone	North R/W	Gas	
Power	3 wire on N R/W	Municipal	
Others		Problem (Y/N)	No
Remarks	Telephone cable goes through roof of pipe.		

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Intersection 75m east.
Vertical Alignment		8	8	
Roadway Width (m)	9.900			
Embankment		7	4	N ditch 1.2mDx1.5mWx25mL scour.-photo
Sideslope ( _:1)	4.0			
(Height of Cover(m) : 1)				
Guardrail (Y/N)	No			
<b>Approach Road / Embankment General Rating</b>		<b>7</b>	<b>4</b>	

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

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 1, Span Type: Primary Span)</b>				
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		X	5	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		5	4	1.2m
(Type : <b>NONE</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		5	4	
Beavers (Y/N)	Yes			Small dam on inlet.-photo
<b>Upstream End General Rating</b>		<b>5</b>	<b>4</b>	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1200, Type: MP)</b>				
Barrel Last Accessible Date	24-Aug-2010			West pipe.
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		5	4	Cut in roof 4m from d/s end due to cable.
Measured Rise (mm)	1168			
Measured At Ring No.				
Sag (mm)	32			
Percent Sag	3			
Sidewall		5	7	near cl
Measured Span (mm)	1234			
Measured At Ring No.				
Deflection (mm)	34			
Percent Deflection	3			
Floor		N	5	Pitting rust 1/3 down.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	5	
Separation (mm)				
Longitudinal Seams		N	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)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1200, Type: MP)</b>				
Coating		N	5	Pitting rust 1/3 down.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		N	X	
<b>(Type : )</b>				
Waterway Adequacy		7	7	@ u/s end
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	Yes			
<b>Barrel General Rating</b>		<b>5</b>	<b>4</b>	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 1, Span Type: Primary Span)</b>				
Direction		S		West pipe
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
<b>(Shape : )</b>				
Cutoff Wall		X	X	
Bevel End		5	4	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			Bevel hanging for 1.5m
Above/Below (mm)	1200			
Scour Protection		5	4	Scour 15mL x10mW x1.0mD
<b>(Type : NONE)</b>				
<b>(Avg. Rock Size(mm) : )</b>				
Scour/Erosion		5	4	Scour 15mL x10mW x1.0mD
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>5</b>	<b>4</b>	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 2, Span Type: Secondary Span)</b>				
Direction		N		East pipe.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 2, Span Type: Secondary Span)</b>				
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		5	4	Piece breaking off-photo
Heaving (mm)	50			
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		5	5	
(Type : <b>NONE</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>5</b>	<b>4</b>	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1200, Type: MP)</b>				
Barrel Last Accessible Date				
<b>Special Features</b>				
Special Feature				Pipe full of drift-shape looks good from ends.
(Type : )				
Special Feature				
(Type : )				
Roof		5	5	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		5	5	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		N	5	Pitting rust 1/3 down
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)				
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)				

Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1200, Type: MP)					
Coating		N	5	Pitting rust 1/3 down.	
Corrosion By Soil (Y/N)					
Corrosion By Water (Y/N)	Yes				
Camber POS/ZERO/NEG					
Ponding (Y/N)	No				
Fish Passage Adequacy		7	7		
Baffle		N	X		
(Type : )					
Waterway Adequacy		7	7		
Icing (Y/N)	No				
Silting (Y/N)	No				
Drift (Y/N)	No				
<b>Barrel General Rating</b>		<b>5</b>	<b>5</b>		
Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 2, Span Type: Secondary Span)					
Direction		S		East pipe.	
End Treatment (Concrete, Steel, Others, None)	STEEL				
Headwall		X	X		
Collar		X	X		
Wingwalls		X	X		
(Shape : )					
Cutoff Wall		X	X		
Bevel End		5	4	Bevel hanging for 1.5m	
Heaving (mm)					
Invert Above/Below Stream Bed	ABOVE				
Above/Below (mm)	500				
Scour Protection		5	4	Scour 15mL x10mW x1.0mD	
(Type : NONE)					
(Avg. Rock Size(mm) : )					
Scour/Erosion		5	4		
Beavers (Y/N)	No				
<b>Downstream End General Rating</b>		<b>5</b>	<b>4</b>		
Structure Usage					
		Last	Now	Explanation of Condition	
<b>Channel (U/S and D/S)</b>					
Alignment		7	7		
Bank Stability		7	7		
HWM (m below Top of Culvert)				HWM not visible. Small drift in East pipe and inlet of West pipe.	
Drift (Y/N)	Yes				

Structure Usage				
		Last	Now	Explanation of Condition
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	Yes			
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</b>	<b>7</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS							
PLACE ADDITIONAL RIP RAP	2010	Place 195m 3 of Class 1 riprap in N ditch and at d/s end.					
REMOVE DRIFT ACCUMULATION	2010	In East pipe.					
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION	2010	Repair undermined bevel.					
OTHER ACTION	2010	Repair East u/s bevel.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>60.2/44.3</b>	Est. Repl. Yr	2025	Maint. Req. (Y/N)	Yes
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 Caroux		Previous Assistant's Name				
Next Inspection Date	24-May-2015		Previous Inspection Date	28-May-2007			
Inspection Cycle (Default) (months)	57						
Comment							