

Bridge Culvert Inspection			
Bridge File Number	75976 -2 Bridge Culvert	Form Type	CULM
Year Built	2006	Lot No.	4
Bridge or Town Name	FALHER	Inspector Name	Brian Pientsch
Located Over	TRIBUTARY TO HUNTING CREEK, 8.10.58.3.2, WATERCRS-ST	Inspector Class	BR CLS A
Located On	LOCAL ROAD	Assistant Name	Lisbeth Medina
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	25-Feb-2010
Legal Land Location	NW SEC 35 TWP 77 RGE 22 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-117:18:45, 55:43:23	Data Entry Date	22-Mar-2010
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA03	Review Date	08-Mar-2010
Clear Roadway/Skew	8 / 0 deg.	Dept. Reviewer Name	Steve Pasquan
AADT/Year	17 / 2010 (E)	Dept. Review Date	13-Apr-2010
Road Classification	RLU-208G-90	Follow-Up By	
Detour Length (km)	4		

**Bridge Culvert Information**

Number of Culverts	3							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2200	MP	28	125X26	3.5	ROUND
2	MAIN	-	2200	MP	28	125X26	3.5	ROUND
3	MAIN	-	2200	MP	28	125X26	3.5	ROUND
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments			
Telephone		Gas	
Power		Municipal	
Others		Problem (Y/N)	
Remarks			

**Approach Road / Embankment**

	Last	Now	Explanation of Condition
Horizontal Alignment	4	4	Hwy. 49 100m north.
Vertical Alignment	8	8	
Roadway Width (m)	7.000		
Embankment	8	8	
Sideslope (__:1)	3.0		
(Height of Cover (m) : 0.7)			
Guardrail (Y/N)	No		
<b>Approach Road / Embankment General Rating</b>	<b>4</b>	<b>4</b>	

**Upstream End**

Culvert Component	Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: )			
Direction	E		South culvert
End Treatment (Concrete, Steel, Others, None)	STEEL		North culvert tagged on crown.
Headwall	X	X	
Collar	X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: )				
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		9	9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		9	9	
(Type : RIP RAP)				
(Avg. Rock Size (mm) : 300)				
Scour/Erosion		9	9	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>9</b>	<b>9</b>	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Secondary Span, Location Code: MAIN, Span (mm): -, Rise (mm): 2200, Type: MP)				
Barrel Last Accessible Date	25-Feb-2010			South culvert.
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		9	9	
Measured Rise (mm)	2226			Ring measured @ CL-Oct3, 2006
Measured At Ring No.				Floor covered with ice.
Sag (mm)	0			
Percent Sag	0			
Sidewall		9	8	
Measured Span (mm)	2192			Ring measured @ CL
Measured At Ring No.				Deflection inward.
Deflection (mm)	8			
Percent Deflection	0			
Floor		9	N	
Bulge (mm)	0			Covered with ice.
Measured At Ring No.				Ring measured @ CL-Oct 3, 2006
Abrasion (Y/N)	No			
Circumferential Seams		9	8	
Separation (mm)	50			
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
<b>(Pipe # : 1, Secondary Span, Location Code: MAIN, Span (mm): -, Rise (mm): 2200, Type: MP)</b>				
Coating		9	8	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type : )				
Waterway Adequacy		9	9	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>9</b>	<b>8</b>	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 2, Primary Span, Location Code: MAIN, Span (mm): -, Rise (mm): 2200, Type: MP)</b>				
Barrel Last Accessible Date				Centre culvert.
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		9	9	
Measured Rise (mm)	2206			Measured @ CL-Oct 3, 2006
Measured At Ring No.				Floor covered with ice.
Sag (mm)	0			
Percent Sag	0			
Sidewall		9	8	
Measured Span (mm)	2167			Measured @ CL
Measured At Ring No.				Deflection inward.
Deflection (mm)	33			
Percent Deflection	0			
Floor		9	N	
Bulge (mm)	0			Measured @ CL-Oct 3, 2006
Measured At Ring No.				Covered with ice.
Abrasion (Y/N)	No			
Circumferential Seams		9	9	
Separation (mm)	26			
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
<b>(Pipe # : 2, Primary Span, Location Code: MAIN, Span (mm): -, Rise (mm): 2200, Type: MP)</b>				
Coating		9	8	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type : )				
Waterway Adequacy		9	9	
Icing (Y/N)	No			
Siltting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>9</b>	<b>8</b>	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 3, Secondary Span, Location Code: MAIN, Span (mm): -, Rise (mm): 2200, Type: MP)</b>				
Barrel Last Accessible Date	25-Feb-2010			North culvert.
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		9	9	
Measured Rise (mm)	2222			Measured @ CL-Oct 3, 2006
Measured At Ring No.				Floor covered with ice.
Sag (mm)	0			
Percent Sag	0			
Sidewall		9	8	
Measured Span (mm)	2189			Measured @ CL
Measured At Ring No.				Deflection inward.
Deflection (mm)	11			
Percent Deflection	0			
Floor		9	N	
Bulge (mm)	0			Measured @ CL-Oct 3, 2006
Measured At Ring No.				Floor covered with ice.
Abrasion (Y/N)	No			
Circumferential Seams		9	9	
Separation (mm)	30			
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
<b>(Pipe # : 3, Secondary Span, Location Code: MAIN, Span (mm): -, Rise (mm): 2200, Type: MP)</b>				
Coating		9	8	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		7	7	
Baffle		9	X	
<b>(Type : )</b>				
Waterway Adequacy		9	9	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>9</b>	<b>8</b>	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
<b>(Pipe # : 3, Span Type: )</b>				
Direction		W		Centre culvert
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls (Shape : )		X	X	
Cutoff Wall		X	X	
Bevel End		9	9	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			Covered with snow.
Scour Protection (Type : <b>RIP RAP</b> ) (Avg. Rock Size (mm) : <b>300</b> )		9	9	
Scour/Erosion		9	9	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>9</b>	<b>9</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		9	9	
Bank Stability		9	8	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			

Structure Usage				
		Last	Now	Explanation of Condition
Channel Bottom Degrading/Aggrading	NONE			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>9</b>	<b>9</b>	

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>100.0/88.9</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>89.2/85.6</b>	Est. Repl. Yr	2051	Maint. Req'd. (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	Colin Roy		Previous Assistant's Name				
Next Inspection Date	25-Nov-2014		Previous Inspection Date	03-Oct-2006			
Inspection Cycle (Default) (months)	57						
Comment							