

Bridge Culvert Inspection			
Bridge File Number	07861 -1 Bridge Culvert	Form Type	CUL1
Year Built/Lined	1958/2006	Lot No.	
Bridge or Town Name	MICHICHI	Inspector Name	Wayne Cappellani
Located Over	2ND ORDER TRIBUTARY TO MICHICHI CREEK, 3.35.5.1, WATERCRS-ST	Inspector Class	BR CLS A
Located On	849:04 C1 8.727	Assistant Name	Chris Black
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	27-Sep-2011
Legal Land Location	SW SEC 7 TWP 30 RGE 18 W4M	Data Entry By	Wayne Cappellani
Longitude, Latitude	-112:32:12, 51:33:10	Data Entry Date	10-Sep-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Wayne Cappellani
Contract Main. Area	CMA21	Review Date	10-Sep-2012
Clear Roadway/Skew	8 / -30 deg. (LHF)	Dept. Reviewer Name	Wayne Cappellani
AADT/Year	100 / 2011 (A)	Dept. Review Date	10-Sep-2012
Road Classification	RLU-208G-90	Follow-Up By	
Detour Length (km)	5		

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
2	MAIN FULL LINER	-	1600	MP	69	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		9	8	Limit sight distance on both sides. Located in sag 400m S of BF map location.
Vertical Alignment		5	5	
Roadway Width (m)	8.000			
Embankment		8	5	Slope failure cracks noted W embankment approx. 1 M from edge of roadway.
Sideslope ( _ :1)	3.0			
(Height of Cover(m) : 6.5)				
Guardrail (Y/N)	No			
<b>Approach Road / Embankment General Rating</b>		<b>5</b>	<b>5</b>	

**Upstream End**

Culvert Component		Last	Now	Explanation of Condition
Direction		E		
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		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		8	8	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>350</b> )				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>8</b>	<b>8</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : <b>2</b> , Secondary Span, Location Code: <b>MAIN</b> , Span (mm): , Rise (mm): <b>1600</b> , Type: <b>MP</b> )				
Barrel Last Accessible Date	27-Sep-2011			
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		5	5	R3 - roof deformed @ grout area, minor. Rise 1340mm Span 1609 mm
Measured Rise (mm)	1590			
Measured At Ring No.	4			@ midspan/R4
Sag (mm)	10			
Percent Sag	1			
Sidewall		8	8	@ midspan/R4
Measured Span (mm)	1612			
Measured At Ring No.	4			
Deflection (mm)	12			
Percent Deflection	1			
Floor		7	7	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	Grouted with foam.
Separation (mm)	0			
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		8	6	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1600, Type: MP)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type : )				
Waterway Adequacy		9	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
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>8</b>	<b>8</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		7	6	Curve D/S end.
Bank Stability		7	7	
HWM (m below Top of Culvert)	550.0			Debris on coupler joint on S. sidewall, 2nd coupler from W. end.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			D/S
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
<b>Channel General Rating</b>		<b>7</b>	<b>6</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	2012	Review warrant for guardrail on approach road					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>76.1/69.2</b>	Est. Repl. Yr	2056	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor isolated deformation in R3		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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	27-Dec-2014		Previous Inspection Date	10-May-2011			
Inspection Cycle (Default) (months)	39						
Comment							