

Bridge Culvert Inspection				
Bridge File Number	02420 -2 Bridge Culvert		Form Type	CUL1
Year Built	1996		Lot No.	4
Bridge or Town Name	MA-ME-O BCH		Inspector Name	Owen Salava
Located Over	PIGEON LAKE CREEK, 5.62, WATERCRS-ST		Inspector Class	BR CLS A
Located On	13A:06 C1 0.586		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	26-Jun-2012
Legal Land Location	SE SEC 15 TWP 46 RGE 28 W4M		Data Entry By	Marcia Chavez
Longitude, Latitude	-113:58:46, 52:57:49		Data Entry Date	15-Jul-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	John O'Brien
Contract Main. Area	CMA17		Review Date	05-Jul-2012
Clear Roadway/Skew	10.5 / 13 deg. (RHF)		Dept. Reviewer Name	Andrew Smikles
AADT/Year	630 / 2011 (A)		Dept. Review Date	19-Jul-2012
Road Classification	RAU-211.8-110		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
1	MAIN	-	3000	MP	30	125X26	2.8	ROUND
Special Features								
Special Features Comment		"Pigeon Lake Creek" ID signs at NW & SE.						

**Utilities (Located at)**

Utility Attachments				
Telephone	East r/w 15 m from c/l.		Gas	13m West of c/l.
Power	3 wires 16 m West of c/l.		Municipal	
Others			Problem (Y/N)	Yes
Remarks	Gas line runs under U/S bevel end.			

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Curve 200m South.
Vertical Alignment		9	9	
Roadway Width (m)	10.500			
Embankment		7	7	Top at S 5:1.
Sideslope ( :1)	3.0			
(Height of Cover(m) : 0.4)				
Guardrail (Y/N)	Yes			
<b>Approach Road / Embankment General Rating</b>		<b>7</b>	<b>7</b>	

**Upstream End**

Culvert Component		Last	Now	Explanation of Condition
Direction		W		NW
End Treatment (Concrete, Steel, Others, None)		CONCRETE		
Headwall		8	8	Minor cracking.
Collar		8	8	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		N	N	Buried

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)	750			
Scour Protection		7	7	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>7</b>	<b>7</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : <b>1</b> , Primary Span, Location Code: <b>MAIN</b> , Span (mm): , Rise (mm): <b>3000</b> , Type: <b>MP</b> )				
Barrel Last Accessible Date	26-Feb-2009			Viewed from ends, water 2.0m deep - shape looks good.
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		N	N	(Midspan. 26Feb2009).
Measured Rise (mm)	2985			
Measured At Ring No.	3			
Sag (mm)	15			
Percent Sag	1			
Sidewall		N	N	
Measured Span (mm)	3005			
Measured At Ring No.	3			
Deflection (mm)	5			
Percent Deflection	0			
Floor		N	N	(0.6m silt. 26Feb2009).
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
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)				
Coating		7	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3000, Type: MP)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type : )				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>N</b>	<b>N</b>	GR was 8 from 26Feb2009.
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		SE
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	Minor scrapes to top.
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	700			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>7</b>	<b>7</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Culvert)				No visible HWM.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Unknown.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
<b>Channel General Rating</b>		<b>8</b>	<b>8</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>55.6/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>67.1/67.2</b>	Est. Repl. Yr	2040	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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	26-Mar-2014		Previous Inspection Date	23-Aug-2010			
Inspection Cycle (Default) (months)	21						
Comment							