

Bridge Culvert Inspection			
Bridge File Number	71346 -1 Bridge Culvert	Form Type	CUL1
Year Built	1951	Lot No.	1
Bridge or Town Name	OHATON	Inspector Name	Owen Salava
Located Over	TRIBUTARY TO BATTLE RIVER, 5.42, WATERCRS-ST	Inspector Class	BR CLS A
Located On	13:12 C1 7.079	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	30-Aug-2010
Legal Land Location	NE SEC 15 TWP 46 RGE 19 W4M	Data Entry By	Marcia Chavez
Longitude, Latitude	-112:40:10, 52:58:10	Data Entry Date	04-Oct-2010
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA16	Review Date	10-Sep-2010
Clear Roadway/Skew	9.5 /	Dept. Reviewer Name	Chris Black
AADT/Year	3,270 / 2009 (A)	Dept. Review Date	12-Oct-2010
Road Classification	RAU-209-110	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	-	1500	MP	17.7	68X13		ROUND
Special Features		CONC FLOOR						
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone	North r/w.	Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Curve @ East side with limited sight distance. Grade @ East side. Superelevated over pipe.
Vertical Alignment		6	6	
Roadway Width (m)	9.500			
Embankment		5	5	South end measured.
Sideslope ( __:1)	2.0			
(Height of Cover(m) : 1)				
Guardrail (Y/N)	No			
<b>Approach Road / Embankment General Rating</b>		<b>6</b>	<b>6</b>	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
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	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed				At streambed
Above/Below (mm)	0			
Scour Protection		5	5	Some rock.
(Type : <b>NATURAL</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>5</b>	<b>5</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1500, Type: MP)				
Barrel Last Accessible Date	12-Feb-2009			Viewed from ends, ponding at pipe 1m deep, shape OK.
<b>Special Features</b>				
Special Feature		5	N	
(Type : <b>CONC FLOOR</b> )				
Special Feature				
(Type : )				
Roof		3	N	(Roof 6.7% - 95/05/08.) (Flattened seam @ roof @ 2/3 & 3/4 L - photo. 12Feb2009).
Measured Rise (mm)				
Measured At Ring No.				(1270 Concrete floor to roof - R2. 12Feb2009).
Sag (mm)	100			
Percent Sag				
Sidewall		3	N	Sidewall has perforations
Measured Span (mm)	1620			
Measured At Ring No.	2			
Deflection (mm)	120			
Percent Deflection	8			
Floor		N	N	150 mm overlay placed 94.01
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		4	N	(Fill visible but not infiltrating. 2nd seam from south end. 12Feb2009).
Separation (mm)	150			
Longitudinal Seams		5	N	Riveted seams.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)	Yes			
Coating		3	N	(Numerous perforations on sidewall & roof, especially South 1/2 . 12Feb2009).
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	Yes			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1500, Type: MP)				
Fish Passage Adequacy		5	5	
Baffle		X	X	
(Type : )				
Waterway Adequacy		5	5	
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 from 12Feb2009.
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		3	N	(Bevel is perforated - photo. 12Feb2009). SW bevel deformed (photo).
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		5	5	Well grassed.
(Type : <b>CONCRETE</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		5	5	Minor scour hole
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>3</b>	<b>N</b>	GR was from 12Feb2009.
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.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Unknown.
Beavers (Y/N)	No			
(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							
REMOVE DRIFT ACCUMULATION							
INSTALL CONCRETE/STEEL LINING							
INSTALL STRUTS							
INSTALL CONCRETE COLLAR/CUTOFF							
REPAIR SEAMS							
OTHER ACTION							
OTHER ACTION	2012	Replace pipe.					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>33.3/33.3</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>41.3/43.0</b>	Est. Repl. Yr	2015	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	DH to review PD report and check scheduling of road work. RS						
On 3-Year Program (Y/N)	Y						
Proposed Action	2003.07.02 Replace with road construction by 2008						
Previous Inspector's Name	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	30-May-2012		Previous Inspection Date	12-Feb-2009			
Inspection Cycle (Default) (months)	21						
Comment							