

Bridge Culvert Inspection			
Bridge File Number	81833 -1 Bridge Culvert	Form Type	CUL1
Year Built	1996	Lot No.	2
Bridge or Town Name	CONKLIN	Inspector Name	Wade Nanninga
Located Over	TRIBUTARY TO SUNDAY CREEK, 8.11.39.4.11.3.1, WATERCRS-ST	Inspector Class	BR CLS B
Located On	881:21 C1 36.336	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	09-Sep-2010
Legal Land Location	SW SEC 6 TWP 76 RGE 7 W4M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-111:05:32, 55:33:09	Data Entry Date	22-Sep-2010
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA07	Review Date	16-Sep-2010
Clear Roadway/Skew	10.5 / -26 deg. (LHF)	Dept. Reviewer Name	Brent Herrick
AADT/Year	960 / 2009 (A)	Dept. Review Date	05-Oct-2010
Road Classification	RCU-209-110	Follow-Up By	
Detour Length (km)	250		

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2740	SP	101.2	152X51	4.0	ROUND
Special Features	BARREL DEICING PIPE							
Special Features Comment								

**Utilities (Located at)**

Utility Attachments			
Telephone		Gas	
Power		Municipal	
Others	Bell fibre optic East r/w.	Problem (Y/N)	No
Remarks	File tag installed on top of East concrete headwall.		

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Curve to North.
Vertical Alignment		8	8	
Roadway Width (m)	10.500			
Embankment		3	3	Erosion gullies both sides up to 1.2m deep. East side. 4:1 West side. Silt fences undermined - photos.
Sideslope (___:1)	3.0			
(Height of Cover(m) : <b>9.9</b> )				
Guardrail (Y/N)	No			
<b>Approach Road / Embankment General Rating</b>		<b>3</b>	<b>3</b>	

**Upstream End**

Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	8	
Collar		7	7	Few medium transverse cracks.
Wingwalls		X	X	
(Shape : )				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		N	N	
Bevel End		8	8	
Heaving (mm)	200			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	600			
Scour Protection		5	5	Fill & rock settled up to 450mm along sides of collar.
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>7</b>	<b>5</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>2740</b> , Type: <b>SP</b> )				
Barrel Last Accessible Date	13-Jun-2007			Water to fast to enter-viewed from ends, shape appears good.
Special Features				
Special Feature		8	8	
(Type : <b>BARREL DEICING PIPE</b> )				
Special Feature				
(Type : )				
Roof		8	8	
Measured Rise (mm)	2670			At c/l.
Measured At Ring No.				
Sag (mm)	70			
Percent Sag	3			
Sidewall		8	8	
Measured Span (mm)	2800			At c/l.
Measured At Ring No.				
Deflection (mm)	60			
Percent Deflection	2			
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		8	N	
Separation (mm)	0			
Longitudinal Seams		8	N	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				2N
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		8	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2740, Type: SP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		3	N	50% of baffles broken loose.-13-Jun-2007
(Type : )				
Waterway Adequacy		8	8	(1998/12/18)
Icing (Y/N)	Yes			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>8</b>	<b>N</b>	GR "8" carried fwd.
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)	900			
Scour Protection		6	5	Up to 300mm of settlement beside bevel.
(Type : )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		6	5	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>8</b>	<b>5</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		7	5	60 deg. bend to enter pipe.
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
<b>Channel General Rating</b>		<b>7</b>	<b>5</b>	

<b>Structure Usage</b>				
		<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</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	2010	Fill eroded areas an embankments & ditches & install silt fence/re-seed.					
OTHER ACTION	2010	Re-install fish baffles that are loose.-if not done already					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>88.9/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>72.5/49.2</b>	Est. Repl. Yr	2043	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	Dave Lam		Previous Assistant's Name				
Next Inspection Date	09-Dec-2013		Previous Inspection Date	13-Jun-2007			
Inspection Cycle (Default) (months)	39						
Comment							