

Bridge Culvert Inspection			
Bridge File Number	74956 -1 Bridge Culvert	Form Type	CUL1
Year Built	1975	Lot No.	4
Bridge or Town Name	EASYFORD	Inspector Name	Wade Nanninga
Located Over	TRIBUTARY TO PEMBINA RIVER, 8.11.84.58, WATERCRS-ST	Inspector Class	BR CLS B
Located On	621:02 C1 21.397	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	24-Jan-2011
Legal Land Location	SE SEC 4 TWP 50 RGE 8 W5M	Data Entry By	Theresa Lacusta
Longitude, Latitude	-115:05:58, 53:16:47	Data Entry Date	16-Feb-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA11	Review Date	14-Feb-2011
Clear Roadway/Skew	8.9 /	Dept. Reviewer Name	Brent Herrick
AADT/Year	1,120 / 2009 (A)	Dept. Review Date	22-Feb-2011
Road Classification	RCU-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	20.1	68X13	2.8	ROUND
Special Features	BEAVR CTRL DEV							
Special Features Comment								

**Utilities (Located at)**

Utility Attachments			
Telephone	South r/w.	Gas	
Power	3 wires North r/w.	Municipal	
Others		Problem (Y/N)	No
Remarks	No BF tag installed at U/S bevel.		

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Intersection to east.  (The ditch at the SE is eroded down to match the creek streambed elevation. 16/Sept/2004) Snow covered.
Vertical Alignment		8	8	
Roadway Width (m)	8.900			
Embankment		N	N	
Sideslope ( _:1)	3.0			
(Height of Cover(m) : 1.2)				
Guardrail (Y/N)	No			Inlet & outlet 5m from edge of pavement.
<b>Approach Road / Embankment General Rating</b>		<b>7</b>	<b>7</b>	

**Upstream End**

Culvert Component		Last	Now	Explanation of Condition
Direction		S		Beaver stop has been installed.
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape : )				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			Iced over.
Above/Below (mm)	200			
Scour Protection		N	N	Snow covered.
(Type : <b>NONE</b> )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		N	N	(Scoured along side of extension 300 wide, 1.5m deep, 1.0 long. 16/Sept/2004) Snow covered but embankment eroding around bevel due to beaver control backing up flow - photo.-16-Dec-2007
Beavers (Y/N)	Yes			
<b>Upstream End General Rating</b>		<b>4</b>	<b>4</b>	G.R. carried forward from 16/Sept/2004.
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	03-Oct-1994			Both ends covered by beaver protection, not accessible. Shape appears adequate. Viewed from D/S end.
<b>Special Features</b>				
Special Feature		6	6	
(Type : <b>BEAVR CTRL DEV</b> )				
Special Feature				
(Type : )				
Roof		5	5	(1560 x 1430, 4.7%. 94/10/03)
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	70			
Percent Sag				
Sidewall		5	N	(4%. 94/10/03)
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	60			
Percent Deflection				
Floor		N	N	Covered with ice.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	N	
Separation (mm)	120			
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		4	N	Pitting rust lower 1/2.-16-Dec-2007
Corrosion By Soil (Y/N)				
Corrosion By Water (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)					
Camber POS/ZERO/NEG	ZERO				
Ponding (Y/N)	Yes				0.5 m
Fish Passage Adequacy			4	4	Blocked by beaver stop at U/S end.
Baffle			X	X	
(Type : )					
Waterway Adequacy			5	5	
Icing (Y/N)	No				
Silting (Y/N)	No				
Drift (Y/N)	No				
Barrel General Rating			4	4	(General rating carried over since 03/Oct/1994.)
Downstream 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	
Bevel End			7	7	
Heaving (mm)	0				
Invert Above/Below Stream Bed	ABOVE				
Above/Below (mm)	200				
Scour Protection			N	N	Snow covered.
(Type : )					
(Avg. Rock Size(mm) : )					
Scour/Erosion			N	N	(Scour 400m wide, 300mm deep, 1m long on bevel sides & bevel undermined. 16/Sept/2004) Iced over but erosion evident due to beaver control - photo.-16-Dec-2007
Beavers (Y/N)	Yes				
Downstream End General Rating			4	4	G.R. carried forward from 16/Sept/2004.
Structure Usage					
			Last	Now	Explanation of Condition
Channel (U/S and D/S)					
Alignment			6	6	
Bank Stability			7	7	
HWM (m below Top of Culvert)					HWM not visible
Drift (Y/N)	Yes				
Channel Bottom Degrading/Aggrading					
Beavers (Y/N)	Yes				
(Fish Compensation Measure 1 : NONE)					
(Fish Compensation Measure 2 : NONE)					

Structure Usage				
		Last	Now	Explanation of Condition
Channel General Rating		6	6	

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>44.4/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>41.9/42.0</b>	Est. Repl. Yr	2021	Maint. Reqd. (Y/N)	No
Special Comments for Next Inspection	(Monitor ditch erosion, scour and erosion.16-Sep-2004)		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	24-Apr-2014		Previous Inspection Date	16-Dec-2007			
Inspection Cycle (Default) (months)	39						
Comment							