

Bridge Culvert Inspection				
Bridge File Number	85149 -1 Bridge Culvert		Form Type	CULM
Year Built	2000		Lot No.	1
Bridge or Town Name			Inspector Name	Wade Nanninga
Located Over	WATERCOURSE, WATERCRS-NI		Inspector Class	BR CLS B
Located On	825:02 C1 3.437		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	19-May-2011
Legal Land Location	SE SEC 8 TWP 55 RGE 22 W4M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-113:13:39, 53:44:16		Data Entry Date	08-Jun-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA09		Review Date	30-May-2011
Clear Roadway/Skew	9.8 / 45 deg. (RHF)		Dept. Reviewer Name	Brent Herrick
AADT/Year	3,500 / 2010 (A)		Dept. Review Date	14-Jun-2011
Road Classification	RCU-209-110		Follow-Up By	
Detour Length (km)	3			

Bridge Culvert Information								
Number of Culverts		2						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	900	MP	30	68X13	2.8	ROUND
2	MAIN	-	1200	SPP	15			ROUND
Special Features								
Special Features Comment		1200 SSP overflow pipe installed recently.						

Utilities (Located at)			
Utility Attachments			
Telephone	West r/w.		Gas
Power	7 wires along East r/w.		Municipal
Others			Problem (Y/N) No
Remarks	No BF tag installed.		

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Numerous approaches both ends. No passing both directions.
Vertical Alignment		8	7	
Roadway Width (m)	9.800			
Embankment		2	3	Unstable embankment, sloughing - photo. Larger embankment failure East of pipe affecting roadway shoulder stability - photo.
Sideslope (__:1)	1.0			
(Height of Cover(m) : 4)				West side recently washed out and being repaired.
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		2	3	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type:)				
Direction		N		
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
(Pipe # : 1, Span Type:)				
Cutoff Wall		X	X	
Bevel End		N	N	Silt/water covered.
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		N	3	Sloughing banks
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	3	
Beavers (Y/N)				
Upstream End General Rating		4	3	

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 900, Type: MP)				
Barrel Last Accessible Date				Barrel not accessible, full with silt.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	N	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		N	N	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)				
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		3	N	Pitting/corrosion.-12-Mar-2008
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 900, Type: MP)				
Camber POS/ZERO/NEG				
Ponding (Y/N)				
Fish Passage Adequacy		3	3	
Baffle		N	N	
(Type :)				
Waterway Adequacy		3	3	Carillion advised barrel full of silt.
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	Yes			
Barrel General Rating		3	3	No previous ratings. GR carried fwd.

Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1200, Type: SPP)					
Barrel Last Accessible Date					
Special Features					
Special Feature					
(Type :)					
Special Feature					
(Type :)					
Roof			N		
Measured Rise (mm)					
Measured At Ring No.					
Sag (mm)					
Percent Sag					
Sidewall			N		
Measured Span (mm)					
Measured At Ring No.					
Deflection (mm)					
Percent Deflection					
Floor			N		
Bulge (mm)					
Measured At Ring No.					
Abrasion (Y/N)					
Circumferential Seams			N		
Separation (mm)					
Longitudinal Seams			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			N		
Corrosion By Soil (Y/N)					
Corrosion By Water (Y/N)					

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1200, Type: SPP)				
Camber POS/ZERO/NEG				
Ponding (Y/N)				
Fish Passage Adequacy			3	
Baffle			N	
(Type :)				
Waterway Adequacy			3	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	Yes			
Barrel General Rating			3	GR carried fwd. No previous ratings.

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type:)				
Direction		S		
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall			X	
Collar			X	
Wingwalls			X	
(Shape :)				
Cutoff Wall			X	
Bevel End			X	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection			4	Scouring d/s.
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion			4	
Beavers (Y/N)				
Downstream End General Rating			4	

Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	
Bank Stability		5	4	Sloughing banks.
HWM (m below Top of Culvert)				HWM not visible
Drift (Y/N)	Yes			
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				

Structure Usage				
		Last	Now	Explanation of Condition
Channel General Rating		5	4	

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	2011	Repair W embankment.					
OTHER ACTION	2011	Replace pipe.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	33.3/33.3	Sufficiency Rating (Last/Now) (%)	14.0/14.2	Est. Repl. Yr	2011	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitro embankment sloughing every 3 months plus after heavy rain fall periods. Pipe scheduled to be replaced 2009.-12-Mar-2008 Carrilion on site, dewatering to remove silt.		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	19-Aug-2014		Previous Inspection Date	12-Mar-2008			
Inspection Cycle (Default) (months)	39						
Comment							