

Bridge Culvert Inspection				
Bridge File Number	86166 -1 Bridge Culvert		Form Type	CUL1
Year Built	2010		Lot No.	4
Bridge or Town Name			Inspector Name	Brian Pientsch
Located Over	WATERCOURSE, WATERCRS-NI		Inspector Class	BR CLS A
Located On	43:02 R1 15.191;43:02 L1 15.167		Assistant Name	Brian Cote
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	04-Jul-2011
Legal Land Location	NW SEC 19 TWP 71 RGE 8 W6M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-119:13:47, 55:10:13		Data Entry Date	15-Aug-2011
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Arnold Assenheimer
Contract Main. Area	CMA05		Review Date	13-Jul-2011
Clear Roadway/Skew			Dept. Reviewer Name	Steve Pasquan
AADT/Year	7,010 / 2010 (A)		Dept. Review Date	16-Nov-2011
Road Classification	RAD-412.4-120		Follow-Up By	
Detour Length (km)	1			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	-	2200	MP	124.69	125X26	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone			Gas	
Power	1 W crosses serviced 40 West.		Municipal	
Others			Problem (Y/N)	No
Remarks				

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Intersection 100m West.
Vertical Alignment	7	7	
Roadway Width (m)			
Embankment	9	9	WB 12.40, EB14.16, service road 8.00
Sideslope (:1)	6.0		
(Height of Cover(m) : 3.2)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	7	7	

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		9	9	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		5	7	Drawings call for class 2 riprap.-26-Nov-2010
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		9	9	
Beavers (Y/N)	No			
Upstream End General Rating		5	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 2200, Type: MP)				
Barrel Last Accessible Date	04-Jul-2011			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	6	
Measured Rise (mm)				14m from d/s end. estimated upward deflection, due to 400mm silt.
Measured At Ring No.	9			
Sag (mm)	100			
Percent Sag	5			
Sidewall		7	6	
Measured Span (mm)	2103			inward deflection
Measured At Ring No.	9			
Deflection (mm)	97			
Percent Deflection	5			
Floor		9	N	
Bulge (mm)				19m from d/s end.
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	Seam 8 at 7:00 20mm gap filled with foam. Seam 4 at 4:00 45m gap filled with foam. Seam 1 50m gap at 5:00 filled with foam.
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		9	9	
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): 2200, Type: MP)				
Fish Passage Adequacy		9	9	
Baffle		X	X	
(Type :)				
Waterway Adequacy		9	9	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		7	6	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		West pipe.
End Treatment (Concrete, Steel, Others, None)		STEEL		
Headwall		X	X	
Collar		X	X	
Wingwalls (Shape :)		X	X	
Cutoff Wall		X	X	
Bevel End		9	9	
Heaving (mm)				
Invert Above/Below Stream Bed		BELOW		
Above/Below (mm)		900		
Scour Protection		9	9	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		9	9	
Beavers (Y/N)		No		
Downstream End General Rating		9	9	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	8	
Bank Stability		9	9	
HWM (m below Top of Culvert)				No HWM visible
Drift (Y/N)		No		
Channel Bottom Degrading/Aggrading		DEGRADING		
Beavers (Y/N)		No		
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		8	8	

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							
Structural Condition Rating (Last/Now) (%)	77.8/66.7	Sufficiency Rating (Last/Now) (%)	83.1/79.6	Est. Repl. Yr	2070	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	Russel Vanderschaaf		Previous Assistant's Name				
Next Inspection Date	04-Apr-2013		Previous Inspection Date	26-Nov-2010			
Inspection Cycle (Default) (months)	21						
Comment							