

Bridge Culvert Inspection				
Bridge File Number	71401 -1 Bridge Culvert		Form Type	CUL1
Year Built	1974		Lot No.	4
Bridge or Town Name	COUNTESS		Inspector Name	Jason Rusu
Located Over	EID - IRRIGATION C, WATERCRS-IC		Inspector Class	BR CLS B
Located On	550:02 C1 11.977		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	24-Oct-2010
Legal Land Location	SW SEC 13 TWP 21 RGE 17 W4M		Data Entry By	Alyssa Boynton
Longitude, Latitude	-112:14:21, 50:46:34		Data Entry Date	10-Dec-2010
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Garry Roberts
Contract Main. Area	CMA23		Review Date	07-Nov-2010
Clear Roadway/Skew	9.8 /		Dept. Reviewer Name	Lorenz Bohnert
AADT/Year	760 / 2009 (A)		Dept. Review Date	13-Dec-2010
Road Classification	RCU-210-110		Follow-Up By	
Detour Length (km)	5			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	1830	1120	FP	19.5	68X13	4.2	ARCH
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone	N R/W		Gas	
Power	3-WIRE S 15 m FROM C.L.		Municipal	
Others			Problem (Y/N)	No
Remarks				

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	6	6	CURVE TO EAST. INT to west 250m
Vertical Alignment	8	8	
Roadway Width (m)	9.200		
Embankment	7	7	
Sideslope (_ :1)	3.0		
(Height of Cover(m) : 1.6)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	6	6	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	S		SOUTH
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		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1830, Rise (mm): 1120, Type: FP)				
Barrel Last Accessible Date	29-Jan-2007			Water too high with minimal rise to allow inspection
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		5	N	CSP sagging first section u/s ends. Estimate 5%
Measured Rise (mm)	1060			
Measured At Ring No.	1			
Sag (mm)	60			
Percent Sag	5			
Sidewall		6	N	Estimate 5%. deflection at U/S end
Measured Span (mm)	1910			
Measured At Ring No.	1			
Deflection (mm)	80			
Percent Deflection	4			
Floor		6	N	
Bulge (mm)				
Measured At Ring No.	1			
Abrasion (Y/N)	No			
Circumferential Seams		6	N	(u/s coupler - dirt infiltration 50 mm VERTICAL - minor) 29-jan-2007
Separation (mm)	30			
Longitudinal Seams		X	X	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		4	N	(PITTED RUST @ SIDEWALL & FLOOR) 29-jan-2007
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
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): 1830, Rise (mm): 1120, Type: FP)					
Fish Passage Adequacy		X	X		
Baffle		X	X		
(Type :)					
Waterway Adequacy		4	4	Water runs over the pipe	
Icing (Y/N)	No				
Silting (Y/N)	No				
Drift (Y/N)	No				
Barrel General Rating		5	N		
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 (Shape :)		X	X		
Cutoff Wall		X	X		
Bevel End		6	5		
Heaving (mm)	0				
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	200				
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 200)		7	7		
Scour/Erosion		7	7		
Beavers (Y/N)	No				
Downstream End General Rating		6	5		
Structure Usage					
		Last	Now	Explanation of Condition	
Channel (U/S and D/S)					
Alignment		8	8	drop structure 23 M d/s, turnouts N&S 19 M d/s.	
Bank Stability		8	8		
HWM (m below Top of Culvert)	0.0			Flow over pipe - 50mm	
Drift (Y/N)	No				
Channel Bottom Degradation/Aggrading	AGGRADING				
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) (%)	55.6/55.6	Sufficiency Rating (Last/Now) (%)	55.5/54.7	Est. Repl. Yr	2015	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	Tim Davies		Previous Assistant's Name				
Next Inspection Date	24-Jan-2014		Previous Inspection Date	29-Jan-2007			
Inspection Cycle (Default) (months)	39						
Comment							