

Bridge Culvert Inspection								
Bridge File Number	81861 -1 Bridge Culvert				Form Type	CUL1		
Year Built	1994				Lot No.	4		
Bridge or Town Name	GLEICHEN				Inspector Name	Garry Roberts		
Located Over	WID - IRRIGATION C, WATERCRS-IC				Inspector Class	BR CLS A		
Located On	901:48 C1 32.421				Assistant Name			
Water Body Cl./Year					Assistant Class			
Navigabil. Cl./Year					Inspection Date	03-Jan-2012		
Legal Land Location	SE SEC 10 TWP 22 RGE 23 W4M				Data Entry By	Anne Roberts		
Longitude, Latitude	-113:06:12, 50:50:59				Data Entry Date	05-Feb-2012		
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Joel Wozney		
Contract Main. Area	CMA30				Review Date	05-Jan-2012		
Clear Roadway/Skew	12 / 5 deg. (RHF)				Dept. Reviewer Name	Tim Davies		
AADT/Year	2,800 / 2010 (A)				Dept. Review Date	06-Feb-2012		
Road Classification	RAU-213.4-120				Follow-Up By			
Detour Length (km)	3							
Bridge Culvert Information								
Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	-	1800	MP	30	75X25	2.8	ROUND
Special Features								
Special Features Comment								
Utilities (Located at)								
Utility Attachments								
Telephone	South ROW				Gas	50 m south of CL		
Power	1 line 110 m south				Municipal			
Others	3 wire N R/W				Problem (Y/N)	No		
Remarks								
Approach Road / Embankment								
			Last	Now	Explanation of Condition			
Horizontal Alignment			7	7	Gradual curves with good sight distance.			
Vertical Alignment			8	7				
Roadway Width (m)	12.100							
Embankment			7	7				
Sideslope (_ :1)	4.0							
(Height of Cover(m) : 1.5)								
Guardrail (Y/N)	Yes							
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		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1800, Type: MP)				
Barrel Last Accessible Date	03-Jan-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		8	7	Estimate
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag	2			
Sidewall		8	7	
Measured Span (mm)	1750			
Measured At Ring No.	2			
Deflection (mm)	50			
Percent Deflection	2			
Floor		N	N	300mm silt
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	8	
Separation (mm)	40			
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		7	7	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	NEG			
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): 1800, Type: MP)				
Fish Passage Adequacy		X	5	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	7	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	7	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		X	X	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		8	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)				Hwm not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

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) (%)	88.9/77.8	Sufficiency Rating (Last/Now) (%)	84.3/75.2	Est. Repl. Yr	2038	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	Jason Rusu		Previous Assistant's Name				
Next Inspection Date	03-Apr-2015		Previous Inspection Date	15-Oct-2008			
Inspection Cycle (Default) (months)	39						
Comment							