

Bridge Culvert Inspection			
Bridge File Number	01421 -1 Bridge Culvert	Form Type	CUL1
Year Built	1984	Lot No.	4
Bridge or Town Name	GLEICHEN	Inspector Name	Jon Davies
Located Over	TRIBUTARY TO CROWFOOT CREEK, 2.13.14.8, WATERCRS-ST	Inspector Class	BR CLS B
Located On	1:14 R1 23.190;1:14 L1 23.227	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	16-Feb-2012
Legal Land Location	NW SEC 7 TWP 23 RGE 22 W4M	Data Entry By	Lauren Korte
Longitude, Latitude	-113:04:29, 50:56:36	Data Entry Date	18-Mar-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	CMA30	Review Date	27-Feb-2012
Clear Roadway/Skew	26 / -20 deg. (LHF)	Dept. Reviewer Name	Tim Davies
AADT/Year	5,940 / 2010 (A)	Dept. Review Date	22-Mar-2012
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	Pl./Slab Thickness	Shape
1	MAIN	-	1828	SP	61.6	152X51	3.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	East & West R/W.	Gas	
Power	2 line East R/W, 35 m FROM C.L.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Intersection 500m North.
Vertical Alignment	7	7	
Roadway Width (m)	26.000		
Embankment	7	7	5:1 @ West.
Sideslope (__:1)	4.0		
(Height of Cover(m) : 1.5)			
Guardrail (Y/N)	Yes		On West side - EBL only.
Approach Road / Embankment General Rating	7	7	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	W		West.
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	X	X	
Collar	X	X	
Wingwalls	X	X	
(Shape :)			
Cutoff Wall	X	6	

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		6	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		6	6	
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): , Rise (mm): 1828, Type: SP)				
Barrel Last Accessible Date	16-Feb-2012			
Special Features				
Special Feature				Concrete liner - 1360mm DIA pre-cast concrete pipe.
(Type :)				
Special Feature				
(Type :)				
Roof		9	9	Ratings for liner.
Measured Rise (mm)	1360			
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		9	9	
Measured Span (mm)	1360			
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		9	9	Concrete.
Bulge (mm)	0			
Measured At Ring No.	1			
Abrasion (Y/N)				
Circumferential Seams		7	7	Bevel ends.
Separation (mm)	5			
Longitudinal Seams		7	7	Bevel ends ratings.
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	No			
Coating		5	6	Alkali stains @ Seams & Side wall @ both steel bevel ends.
Corrosion By Soil (Y/N)	Yes			Minor corrosion at floor.
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): , Rise (mm): 1828, Type: SP)				
Fish Passage Adequacy		5	5	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		9	9	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		East.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		5	5	Ingrown.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		8	8	
HWM (m below Top of Culvert)				No HWM 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) (%)	100.0/100.0	Sufficiency Rating (Last/Now) (%)	87.7/87.6	Est. Repl. Yr	2029	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	16-Nov-2013		Previous Inspection Date	08-Aug-2010			
Inspection Cycle (Default) (months)	21						
Comment							