

Bridge Culvert Inspection			
Bridge File Number	79862 -1 Bridge Culvert	Form Type	CUL1
Year Built	1980	Lot No.	4
Bridge or Town Name	PICTURE BUTT	Inspector Name	Garry Roberts
Located Over	LNI - IRRIGATION C, WATERCRS-IC	Inspector Class	BR CLS A
Located On	519:06 C1 9.370	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	20-May-2010
Legal Land Location	SW SEC 3 TWP 11 RGE 20 W4M	Data Entry By	Kelsey Roberts
Longitude, Latitude	-112:39:38, 49:52:23	Data Entry Date	17-Aug-2010
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Ash Morjaria
Contract Main. Area	CMA25	Review Date	29-May-2010
Clear Roadway/Skew	21 / -35 deg. (LHF)	Dept. Reviewer Name	Lorenz Bohnert
AADT/Year	1,550 / 2009 (A)	Dept. Review Date	18-Aug-2010
Road Classification	RCU-208-110	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	1829	1118	FP	49.5	68X13		ARCH
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	S. ALONG FENCE	Gas	
Power	3 LINE 20 M N & OVER PIPE	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	9	9	SUBGRADE WIDENS IN VICINITY OF PIPE
Vertical Alignment	9	9	
Roadway Width (m)	8.400		
Embankment	8	8	
Sideslope (_ :1)	4.0		
(Height of Cover(m) :)			
Guardrail (Y/N)	No		
Approach Road / Embankment General Rating	8	9	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	S		SOUTH
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	N	7	
Collar	N	7	
Wingwalls	X	7	Concrete canal banks form wingwalls
(Shape :)			
Cutoff Wall	X	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	750			
Scour Protection		N	7	
(Type : CONCRETE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	N	Under water
Beavers (Y/N)	No			
Upstream End General Rating		8	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1829, Rise (mm): 1118, Type: FP)				
Barrel Last Accessible Date				D/S end submerged
Special Features				
Special Feature				(SIZE U/S IS APPROX 1900X1180)
(Type :)				2003/09/18
Special Feature				
(Type :)				
Roof		N	N	(2ND CIRC SEAM FROM U/S LOOKS LIKE PIPE KINKS TO EAST) 2003/07/18
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		N	N	(PITTED RUST STARTING) 2003/07/18
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG				
Ponding (Y/N)	Yes			(850 MM D/S) 2003/07/18

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 1829, Rise (mm): 1118, Type: FP)				
Fish Passage Adequacy		X	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		N	4	FLOWS FULL U/S & .3 M ABOVE ROOF D/S
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	GEN RATING CARRIED FORWARD
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		NORTH
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		N	7	
Collar		N	7	
Wingwalls		X	7	Canal banks
(Shape :)				
Cutoff Wall		X	N	
Bevel End		X	X	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	850			
Scour Protection		N	7	
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Downstream End General Rating		8	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	7	CONCRETE-lined canal
Bank Stability		N	3	
HWM (m below Top of Culvert)				(.3 M ABOVE D/S ROOF OF PIPE)
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	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) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	68.6/52.2	Est. Repl. Yr	2015	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Inspect when water is not running. Should schedule for winter inspection- 2 inspections without entering pipe.		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	20-Aug-2013		Previous Inspection Date	27-Feb-2007			
Inspection Cycle (Default) (months)	39						
Comment							