

Bridge Culvert Inspection				
Bridge File Number	81679 -1 Bridge Culvert		Form Type	CUL1
Year Built	1995		Lot No.	4
Bridge or Town Name	LETHBRIDGE		Inspector Name	Jason Rusu
Located Over	PFR - IRRIGATION C, WATERCRS-IC		Inspector Class	BR CLS A
Located On	509:02 C1 25.992		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	17-Nov-2012
Legal Land Location	SW SEC 28 TWP 7 RGE 23 W4M		Data Entry By	Kelsey Roberts
Longitude, Latitude	-113:04:21, 49:34:56		Data Entry Date	14-Dec-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Garry Roberts
Contract Main. Area	CMA25		Review Date	01-Dec-2012
Clear Roadway/Skew	10 / 45 deg. (RHF)		Dept. Reviewer Name	Tim Davies
AADT/Year	1,400 / 2011 (A)		Dept. Review Date	27-Dec-2012
Road Classification	RCU-209-110		Follow-Up By	
Detour Length (km)	15			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	-	3000	MP	79.3		3.5	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	WEST R/W	Gas	
Power	3wire E R/W;3wire cross road	Municipal	
Others	50 m SOUTH	Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	8	8	Field and cannel acess
Vertical Alignment	8	8	
Roadway Width (m)	10.000		
Embankment	8	8	
Sideslope (___:1)	4.0		
(Height of Cover(m) :)			
Guardrail (Y/N)	Yes		6 m FROM SHOULDER
Approach Road / Embankment General Rating	8	8	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	W		WEST
End Treatment (Concrete, Steel, Others, None)	NONE		
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		N	5	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		N	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		N	7	
Beavers (Y/N)	No			
Upstream End General Rating		5	5	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 3000, Type: MP)				
Barrel Last Accessible Date	18-Feb-2003			Unable to measure due to thin ice & deep water.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	N	Viewed from ends- shape appears good.
Measured Rise (mm)				
Measured At Ring No.				(ESTIMATE)
Sag (mm)	70			
Percent Sag	2			
Sidewall		N	N	
Measured Span (mm)	3070			
Measured At Ring No.				
Deflection (mm)	70			
Percent Deflection	2			
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)	25			
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		N	N	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
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): 3000, Type: MP)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		4	4	The canal runs 500mm over the top of the pipe- confirmed from water line & drift accumulation.
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	N	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		EAST
End Treatment (Concrete, Steel, Others, None)		NONE		
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		N	5	under 0.5m water
Heaving (mm)				
Invert Above/Below Stream Bed		BELOW		
Above/Below (mm)		200		
Scour Protection		N	6	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		N	6	
Beavers (Y/N)		No		
Downstream End General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	CURVES @ BOTH ENDS - Turnout STRUCTURE 25 m TO SE.
Bank Stability		7	7	
HWM (m below Top of Culvert)		-0.4		
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		6	6	

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) (%)	49.6/49.2	Est. Repl. Yr	2045	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	17-Feb-2016		Previous Inspection Date	06-Sep-2009			
Inspection Cycle (Default) (months)	39						
Comment							