

Bridge Culvert Inspection				
Bridge File Number	77176 -2 Bridge Culvert		Form Type	CULM
Year Built	2008		Lot No.	4
Bridge or Town Name	ENCHANT		Inspector Name	Jason Rusu
Located Over	PFR - IRRIGATION C, WATERCRS-IC		Inspector Class	BR CLS B
Located On	526:02 C1 27.299		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	27-Feb-2010
Legal Land Location	SE SEC 16 TWP 14 RGE 17 W4M		Data Entry By	Kelsey Roberts
Longitude, Latitude	-112:15:41, 50:09:52		Data Entry Date	23-Mar-2010
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Garry Roberts
Contract Main. Area	CMA24		Review Date	11-Mar-2010
Clear Roadway/Skew	11 / 30 deg. (RHF)		Dept. Reviewer Name	Lorenz Bohnert
AADT/Year	900 / 2008 (A)		Dept. Review Date	26-Mar-2010
Road Classification	RCU-210-110		Follow-Up By	
Detour Length (km)	3			

Bridge Culvert Information								
Number of Culverts		2						
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	2400	MP	43	125X26	3.5	ROUND
2	MAIN	-	2400	MP	43	125X26	3.5	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	North Ditch	Gas	Crosses Canal 20m North
Power	15m South 3 lines	Municipal	
Others		Problem (Y/N)	No
Remarks	Water regulating structure 25m D/S		

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Road Allowance 25m West
Vertical Alignment		8	7	
Roadway Width (m)	11.000			
Embankment		9	8	
Sideslope (__:1)	4.0			
(Height of Cover (m) : 0.8)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		7	7	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type:)				
Direction		S		West pipe, S end
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type:)				
Cutoff Wall		X	X	
Bevel End		9	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	640			
Scour Protection		9	8	
(Type : RIP RAP)				
(Avg. Rock Size (mm) : 250)				
Scour/Erosion		9	8	
Beavers (Y/N)	No			
Upstream End General Rating		9	8	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): -, Rise (mm): 2400, Type: MP)				
Barrel Last Accessible Date	26-Feb-2010			West Pipe
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		9	7	Unable to measure due to ice cover. Est. 4% sag.
Measured Rise (mm)	2405			
Measured At Ring No.	3			
Sag (mm)				
Percent Sag				
Sidewall		9	7	23m from U/S
Measured Span (mm)	2490			
Measured At Ring No.	2			
Deflection (mm)	9			
Percent Deflection	4			
Floor		9	N	Ice covered
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		9	8	
Separation (mm)	20			
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		9	8	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): -, Rise (mm): 2400, Type: MP)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	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	7	4% deflection in barrel.

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): -, Rise (mm): 2400, Type: MP)				
Barrel Last Accessible Date	27-Feb-2010			east pipe
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		9	7	Unable to measure 2% est. sag.
Measured Rise (mm)	2406			
Measured At Ring No.	4			
Sag (mm)				
Percent Sag	2			
Sidewall		9	7	55mm deflection. 16m from U/S
Measured Span (mm)	2455			
Measured At Ring No.	1			
Deflection (mm)	55			
Percent Deflection	2			
Floor		9	N	Ice covered Unable to confirm
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		9	8	
Separation (mm)	20			
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		9	8	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Location Code: MAIN, Span (mm): -, Rise (mm): 2400, Type: MP)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		X	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	7	

Downstream End				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type:)				
Direction		N		West pipe N end- concrete turnout structure @ NE
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		9	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	460			
Scour Protection		9	8	
(Type : RIP RAP)				
(Avg. Rock Size (mm) : 250)				
Scour/Erosion		9	8	
Beavers (Y/N)	No			
Downstream End General Rating		9	8	

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 visible HWM
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	AGGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				

Structure Usage				
		Last	Now	Explanation of Condition
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) (%)	100.0/77.8	Sufficiency Rating (Last/Now) (%)	94.8/81.7	Est. Repl. Yr	2068	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	27-May-2013		Previous Inspection Date	07-Aug-2008			
Inspection Cycle (Default) (months)	39						
Comment							