

Bridge Culvert Inspection				
Bridge File Number	06784 -1 Bridge Culvert		Form Type	CUL1
Year Built	1992		Lot No.	3
Bridge or Town Name	TRAVERS		Inspector Name	Jason Rusu
Located Over	LITTLE BOW RIVER, 2.12.12, WATERCRS-ST		Inspector Class	BR CLS B
Located On	522:02 C1 9.562		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	27-Feb-2010
Legal Land Location	NE SEC 33 TWP 13 RGE 20 W4M		Data Entry By	Kelsey Roberts
Longitude, Latitude	-112:40:13, 50:07:59		Data Entry Date	24-Mar-2010
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Garry Roberts
Contract Main. Area	CMA25		Review Date	11-Mar-2010
Clear Roadway/Skew	10 / 5 deg. (RHF)		Dept. Reviewer Name	Lorenz Bohnert
AADT/Year	70 / 2008 (A)		Dept. Review Date	26-Mar-2010
Road Classification	RLU-209G-90		Follow-Up By	
Detour Length (km)	10			

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	3670	SP	43.3	152X51	3.0	ROUND
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments							
Telephone	south side 100m west			Gas	25m north of pipe- unable to confirm		
Power	200m North of pipe.			Municipal			
Others				Problem (Y/N)	No		
Remarks							

**Approach Road / Embankment**

		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	curve 150m west
Vertical Alignment		6	6	On incline only
Roadway Width (m)	9.700			
Embankment		8	8	
Sideslope (__:1)	3.0			
(Height of Cover (m) : 5)				
Guardrail (Y/N)	Yes			1 post N side and from turndown destroyed- photo 1. Recommend repair.
<b>Approach Road / Embankment General Rating</b>		<b>5</b>	<b>5</b>	

**Upstream End**

Culvert Component		Last	Now	Explanation of Condition
Direction		N		NORTH
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	7	
Collar		8	7	
Wingwalls		X	X	
(Shape : )				

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		X	N	Deep water
Bevel End		N	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		N	5	
(Type : <b>RIP RAP</b> )				
(Avg. Rock Size (mm) : <b>300</b> )				
Scour/Erosion		N	5	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>8</b>	<b>5</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): -, Rise (mm): 3670, Type: SP)				
Barrel Last Accessible Date	28-Feb-2007			Viewed from ends, shape is good.
<b>Special Features</b>				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		8	N	ESTIMATE 1% est sag.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag	1			
Sidewall		8	N	est The pipe is over half fill with water unable to get measurements
Measured Span (mm)	3642			
Measured At Ring No.	5			From previous inspection 1% deflection est.
Deflection (mm)	28			
Percent Deflection	1			
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	N	
Separation (mm)				
Longitudinal Seams		8	N	
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)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		N	N	ice covered
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): -, Rise (mm): 3670, Type: SP)				
Ponding (Y/N)	No			
Fish Passage Adequacy		8	8	
Baffle		X	X	
(Type : )				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>8</b>	<b>N</b>	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		SOUTH END
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape : )				
Cutoff Wall		X	X	
Bevel End		N	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		N	5	
(Type : RIP RAP)				
(Avg. Rock Size (mm) : 400)				
Scour/Erosion		N	5	
Beavers (Y/N)	No			
<b>Downstream End General Rating</b>		<b>N</b>	<b>5</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel (U/S and D/S)</b>				
Alignment		4	5	Curve 90 deg d/s 40m
Bank Stability		N	4	(Erosion & scour happening d/s @ the turn)
HWM (m below Top of Culvert)				No HWM visible
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Unable to determine.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
<b>Channel General Rating</b>		<b>4</b>	<b>4</b>	

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	2010	Repair guardrail post @ north side 4 posts from turn down- photo.					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>88.9/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>83.4/65.6</b>	Est. Repl. Yr	2043	Maint. Req'd. (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	28-Feb-2007			
Inspection Cycle (Default) (months)	39						
Comment							