

Bridge Culvert Inspection			
Bridge File Number	73421 -1 Bridge Culvert	Form Type	CUL1
Year Built	1985	Lot No.	4
Bridge or Town Name	STAND OFF	Inspector Name	Jason Rusu
Located Over	TRIBUTARY TO BELLY RIVER, 2.12.22.9, WATERCRS-ST	Inspector Class	BR CLS A
Located On	2:06 C1 1.423	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	16-Oct-2011
Legal Land Location	NW SEC 21 TWP 6 RGE 25 W4M	Data Entry By	Erin Roberts
Longitude, Latitude	-113:18:45, 49:29:21	Data Entry Date	19-Nov-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	CMA26	Review Date	09-Nov-2011
Clear Roadway/Skew	11 /	Dept. Reviewer Name	Tim Davies
AADT/Year	1,520 / 2010 (A)	Dept. Review Date	21-Nov-2011
Road Classification	RAU-211.8-110	Follow-Up By	
Detour Length (km)	15		

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2130	1410	FP	26	68X13	3.5	ARCH
Special Features								
Special Features Comment								

**Utilities (Located at)**

Utility Attachments			
Telephone	West ditch	Gas	
Power		Municipal	
Others	Fiber Optics line West ditch	Problem (Y/N)	No
Remarks			

**Approach Road / Embankment**

	Last	Now	Explanation of Condition
Horizontal Alignment	8	8	Farm access North side
Vertical Alignment	9	9	
Roadway Width (m)	11.000		
Embankment	8	8	
Sideslope ( __:1)	4.5		
(Height of Cover(m) : <b>0.9</b> )			
Guardrail (Y/N)	No		
<b>Approach Road / Embankment General Rating</b>	<b>8</b>	<b>9</b>	

**Upstream End**

Culvert Component	Last	Now	Explanation of Condition
Direction	W		West
End Treatment (Concrete, Steel, Others, None)	STEEL		
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	4	Damaged at top and South side from mower.	
Heaving (mm)	0				
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	400				
Scour Protection		N	7	Ingrown	
(Type : <b>RIP RAP</b> )					
(Avg. Rock Size(mm) : <b>200</b> )					
Scour/Erosion		N	7		
Beavers (Y/N)	No				
<b>Upstream End General Rating</b>		<b>7</b>	<b>4</b>		
Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2130, Rise (mm): 1410, Type: FP)					
Barrel Last Accessible Date	19-Oct-2000			Unable to enter due to 700mm of water and silt	
<b>Special Features</b>					
Special Feature				Viewed from both ends Shape appears the same as @ the last insp. (2180 span @ mid)	
(Type : )					
Special Feature					
(Type : )					
Roof		N	N	(Isolated sag in roof at d/s circ seam - done when constructed. Est sag.) 200/10/19)	
Measured Rise (mm)	1310				
Measured At Ring No.	2				
Sag (mm)	100				Est
Percent Sag	7				
Sidewall		N	N	est	
Measured Span (mm)	2180				
Measured At Ring No.	2				
Deflection (mm)	50				
Percent Deflection	2				
Floor		N	N	400 TO 600 mm SILT ON FLOOR with 300mm water.	
Bulge (mm)					
Measured At Ring No.					
Abrasion (Y/N)					
Circumferential Seams		N	N	(ALL SEAMS GROUTED) 200/10/19	
Separation (mm)	80				
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	(MINOR SUPERF'L CORROSION @ SIDEWALL) 19-Oct-2000	
Corrosion By Soil (Y/N)					
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): 2130, Rise (mm): 1410, Type: FP)				
Fish Passage Adequacy		5	5	
Baffle		X	X	
(Type : )				
Waterway Adequacy		5	5	(GRAVEL & DIRT - SHOULD FLUSH)
Icing (Y/N)	No			Silt is half of rise
Silting (Y/N)	Yes			
Drift (Y/N)	No			
<b>Barrel General Rating</b>		<b>4</b>	<b>4</b>	GR carried forward
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		N	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed		BELOW		
Above/Below (mm)	500			
Scour Protection		N	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 150)				
Scour/Erosion		N	7	
Beavers (Y/N)		No		
<b>Downstream End General Rating</b>		<b>7</b>	<b>7</b>	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		6	6	
HWM (m below Top of Culvert)				No visible HWM
Drift (Y/N)				
Channel Bottom Degrading/Aggrading		AGGRADING		
Beavers (Y/N)		No		
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
<b>Channel General Rating</b>		<b>7</b>	<b>7</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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>44.4/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>51.7/48.6</b>	Est. Repl. Yr	2025	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	16-Jul-2013		Previous Inspection Date	21-Jan-2010			
Inspection Cycle (Default) (months)	21						
Comment							