

Bridge Culvert Inspection			
Bridge File Number	00939 -1 Bridge Culvert	Form Type	CUL1
Year Built	1960	Lot No.	3
Bridge or Town Name	OLDS	Inspector Name	Owen Salava
Located Over	TRIBUTARY TO LONEPINE CREEK, 3.46.21.4, WATERCRS-ST	Inspector Class	BR CLS A
Located On	27:08 C1 10.210	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	24-Oct-2012
Legal Land Location	SW SEC 2 TWP 33 RGE 28 W4M	Data Entry By	Marcia Chavez
Longitude, Latitude	-113:52:39, 51:47:40	Data Entry Date	08-Nov-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA29	Review Date	29-Oct-2012
Clear Roadway/Skew	11.4 /	Dept. Reviewer Name	Andrew Smikles
AADT/Year	2,550 / 2011 (A)	Dept. Review Date	13-Nov-2012
Road Classification	RAU-211.8-110	Follow-Up By	
Detour Length (km)	6		

**Bridge Culvert Information**

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	2905	3203	SPE	54.3	152X51	3.0	ELLIPSE
Special Features	BEAVR CTRL DEV							
Special Features Comment								

**Utilities (Located at)**

Utility Attachments			
Telephone	North r/w.	Gas	
Power	North of north end 200m. On old service road.	Municipal	
Others		Problem (Y/N)	No
Remarks			

**Approach Road / Embankment**

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	Steep grade (3% +). LR intersection 200m east. No passing EB.
Vertical Alignment	6	6	
Roadway Width (m)	11.400		
Embankment	7	7	
Sideslope ( __:1)	3.0		
(Height of Cover(m) : 5.8)			
Guardrail (Y/N)	Yes		
<b>Approach Road / Embankment General Rating</b>	<b>6</b>	<b>6</b>	

**Upstream End**

Culvert Component	Last	Now	Explanation of Condition
Direction	N		
End Treatment (Concrete, Steel, Others, None)	STEEL		
Headwall	X	X	
Collar	X	X	
Wingwalls (Shape : )	X	X	
Cutoff Wall	X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		6	5	Minor damage to NE.
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	200			
Scour Protection		N	5	Covered by drift.
(Type : <b>CONCRETE</b> )				
(Avg. Rock Size(mm) : <b>300</b> )				
Scour/Erosion		N	5	
Beavers (Y/N)	No			
<b>Upstream End General Rating</b>		<b>6</b>	<b>5</b>	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2905, Rise (mm): 3203, Type: SPE)				
Barrel Last Accessible Date	20-Feb-2008			Not accessible. Viewed from ends, shape looks OK. 3 ends blocked with page wire. Thin ice.
<b>Special Features</b>				
Special Feature		N	7	"7" Perforated Pipe. Long perforated pipe extending U/S to accommodate water through beaver screen/drift @ U/S bevel - photo.
(Type : <b>BEAVR CTRL DEV</b> )				
Special Feature				
(Type : )				
Roof		5	N	(20/Feb/2008)
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	115			
Percent Sag				
Sidewall		N	N	(Avg 350mm deep silt on floor. 03/11/17). (Two 80mm dia holes on R8 E sidewall. Possibly caused by construction equipment - photo. 20/Feb/2008).
Measured Span (mm)	3020			
Measured At Ring No.	5			
Deflection (mm)	115			
Percent Deflection	4			
Floor		N	N	Ice covered.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)	0			
Longitudinal Seams		N	N	(Some missing bolts. Minor and no problem. 20/Feb/2008).
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		4	4	Evidence of alkali in all bolted seams - monitor.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			

Bridge Culvert Barrel					
Culvert Component		Last	Now	Explanation of Condition	
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2905, Rise (mm): 3203, Type: SPE)					
Ponding (Y/N)	No				
Fish Passage Adequacy		7	7		
Baffle		X	X		
(Type : )					
Waterway Adequacy		6	6		
Icing (Y/N)	No			500mm drift @ U/S end.	
Silting (Y/N)	No				
Drift (Y/N)	Yes				
<b>Barrel General Rating</b>		<b>N</b>	<b>N</b>	GR was 5 from 20Feb2008.	
Downstream End					
Culvert Component		Last	Now	Explanation of Condition	
Direction		S		Page wire beaver stop @ bevel.	
End Treatment (Concrete, Steel, Others, None)	STEEL				
Headwall		X	X		
Collar		X	X		
Wingwalls		X	X		
(Shape : )					
Cutoff Wall		X	X		
Bevel End		7	7		
Heaving (mm)	0				
Invert Above/Below Stream Bed	BELOW				
Above/Below (mm)	300				
Scour Protection		N	5	Bevel projects from fill 300mm D/S. Scour @ SW is rock filled. Prone to scour.	
(Type : <b>NATURAL</b> )					
(Avg. Rock Size(mm) : <b>300</b> )					
Scour/Erosion		N	5		
Beavers (Y/N)	No				
<b>Downstream End General Rating</b>		<b>5</b>	<b>5</b>		
Structure Usage					
		Last	Now	Explanation of Condition	
<b>Channel (U/S and D/S)</b>					
Alignment		7	7		
Bank Stability		7	7		
HWM (m below Top of Culvert)				No HWM visible. Pile of former dam debris @ SE & @ streambed.	
Drift (Y/N)	Yes				
Channel Bottom Degrading/Aggrading					
Beavers (Y/N)	No				
(Fish Compensation Measure 1 : <b>NONE</b> )					
(Fish Compensation Measure 2 : <b>NONE</b> )					
<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	2013	Remove page wire if no beavers.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>55.6/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>57.4/56.5</b>	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
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	Owen Salava		Previous Assistant's Name				
Next Inspection Date	24-Jul-2014		Previous Inspection Date	08-Feb-2011			
Inspection Cycle (Default) (months)	21						
Comment							