

Bridge Culvert Inspection			
Bridge File Number	08013 -1 Bridge Culvert	Form Type	CUL1
Year Built/Lined	1962/1988	Lot No.	3
Bridge or Town Name	SHEERNESS	Inspector Name	Owen Salava
Located Over	TRIBUTARY TO BULLPOUND CREEK, 3.17.2, WATERCRS-ST	Inspector Class	BR CLS A
Located On	36:10 C1 40.011	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	12-Jul-2012
Legal Land Location	SW SEC 16 TWP 29 RGE 13 W4M	Data Entry By	Marcia Chavez
Longitude, Latitude	-111:47:11, 51:28:33	Data Entry Date	02-Aug-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA21	Review Date	31-Jul-2012
Clear Roadway/Skew	9.6 /	Dept. Reviewer Name	Andrew Smikles
AADT/Year	1,110 / 2011 (A)	Dept. Review Date	07-Aug-2012
Road Classification	RAU-211.8-110	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 FULL LINER	-	1800	MP	68	125X26	2.8	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	West fence line.	Gas	
Power		Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Crest curve to the North with limited sight distance, no passing NB. Field access S of pipe.
Vertical Alignment		6	6	
Roadway Width (m)	9.600			
Embankment		5	5	Minor ditch gully at top of bank at NW corner.
Sideslope (:1)	3.0			
(Height of Cover(m) : 8.5)				
Guardrail (Y/N)	No			
Approach Road / Embankment General Rating		6	6	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		E		
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		6	6	Bevel projects from fill 300mm.
Heaving (mm)	50			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		N	6	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	6	
Beavers (Y/N)	No			
Upstream End General Rating		6	6	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): , Rise (mm): 1800, Type: MP)				
Barrel Last Accessible Date	12-Jul-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	6	3 areas in roof & sidewall have bulged when pumping concrete, approx 150mm.
Measured Rise (mm)	1730			
Measured At Ring No.	5			
Sag (mm)	70			
Percent Sag	3			
Sidewall		N	6	
Measured Span (mm)	1860			
Measured At Ring No.	5			
Deflection (mm)	60			
Percent Deflection	3			
Floor		N	6	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	6	
Separation (mm)	0			
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	6	Rusted at welded areas of construction. Corroded on exterior of crowns. Superficial on floor.
Corrosion By Soil (Y/N)	Yes			
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): , Rise (mm): 1800, Type: MP)				
Fish Passage Adequacy		5	5	
Baffle		X	X	
(Type :)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	6	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)		STEEL		
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		6	6	Bevel projects from fill 1.0m.
Heaving (mm)	50			
Invert Above/Below Stream Bed		BELOW		
Above/Below (mm)	150			
Scour Protection		N	4	
(Type : NONE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		N	4	Scour hole 18.0m x 7.0m due to inadequate rock at streambed.
Beavers (Y/N)		No		
Downstream End General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	
Bank Stability		N	6	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)		No		
Channel Bottom Degrading/Aggrading		DEGRADING		
Beavers (Y/N)		No		
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
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	2012	Cover 8.5m - consider guardrail installation.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/66.7	Sufficiency Rating (Last/Now) (%)	57.9/62.9	Est. Repl. Yr	2030	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	Jason Saly		Previous Assistant's Name				
Next Inspection Date	12-Apr-2014		Previous Inspection Date	31-Mar-2011			
Inspection Cycle (Default) (months)	21						
Comment							