

Bridge Culvert Inspection			
Bridge File Number	74774 -1 Bridge Culvert	Form Type	CUL1
Year Built	1957	Lot No.	4
Bridge or Town Name	CARBON	Inspector Name	Owen Salava
Located Over	TRIBUTARY TO KNEEHILLS CREEK, 3.46.3, WATERCRS-ST	Inspector Class	BR CLS A
Located On	575:04 C1 13.903	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	26-Jan-2011
Legal Land Location	SW SEC 28 TWP 29 RGE 22 W4M	Data Entry By	Marcia Chavez
Longitude, Latitude	-113:02:34, 51:30:12	Data Entry Date	04-Mar-2011
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA21	Review Date	03-Feb-2011
Clear Roadway/Skew	8.5 / 40 deg. (RHF)	Dept. Reviewer Name	Chris Black
AADT/Year	1,020 / 2009 (A)	Dept. Review Date	06-Mar-2011
Road Classification	RCU-208-110	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	-	1100	MP	124.9	75X25	3.5	ROUND
Special Features								
Special Features Comment	1100mm CSP liner.							

Utilities (Located at)

Utility Attachments			
Telephone	South side.	Gas	
Power	North side 5 wire O/H.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Sag curve, poor sight distance to West. T intersection 100m W.
Vertical Alignment		5	5	
Roadway Width (m)	8.500			
Embankment		7	7	
Sideslope (__:1)	3.0			
(Height of Cover(m) : 14)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		5	5	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		N		End snow drifted over.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	N	
Collar		8	N	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	N	(Extended with CSP liner. 22Feb2008).
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		8	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 450)				
Scour/Erosion		8	N	Snow covered.
Beavers (Y/N)	No			
Upstream End General Rating		7	7	GR carried forward from 22Feb2008.
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 1100 , Type: MP)				
Barrel Last Accessible Date	22-Feb-2008			Ends drifted over with snow.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		8	N	(#16 plate bolt holes breaking. 22Feb2008).
Measured Rise (mm)	1100			
Measured At Ring No.				
Sag (mm)	0			
Percent Sag	0			
Sidewall		8	N	
Measured Span (mm)	1100			
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection	0			
Floor		8	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	N	
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		7	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	NEG			
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): 1100, Type: MP)				
Fish Passage Adequacy		X	X	
Baffle		X	X	
(Type :)				
Waterway Adequacy		6	N	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	N	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		End snow drift covered.
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		8	N	
Collar		8	N	
Wingwalls		8	N	
(Shape :)				
Cutoff Wall		8	N	
Bevel End		7	N	Snow covered.
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		7	N	Snow covered.
(Type :)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		7	N	Snow covered.
Beavers (Y/N)	No			
Downstream End General Rating		7	7	GR carried forward from 22Feb2008.
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	
Bank Stability		6	6	
HWM (m below Top of Culvert)	0.5			
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		6	6	

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) (%)	88.9/55.6	Sufficiency Rating (Last/Now) (%)	77.1/71.3	Est. Repl. Yr	2045	Maint. Req'd. (Y/N)	No
Special Comments for Next Inspection	Not bridge-sized, consider removing from active inspection list.		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	Bryan Wai		Previous Assistant's Name				
Next Inspection Date	26-Apr-2014		Previous Inspection Date	22-Feb-2008			
Inspection Cycle (Default) (months)	39						
Comment							