

Bridge Culvert Inspection			
Bridge File Number	82079 -1 Bridge Culvert	Form Type	CUL1
Year Built	1968	Lot No.	4
Bridge or Town Name	RIMBEY	Inspector Name	Owen Salava
Located Over	TRIBUTARY TO ROSE CREEK, 6.147.4, WATERCRS-ST	Inspector Class	BR CLS A
Located On	53:04 C1 5.314	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	27-Nov-2012
Legal Land Location	NW SEC 10 TWP 43 RGE 6 W5M	Data Entry By	Marcia Chavez
Longitude, Latitude	-114:47:34, 52:41:29	Data Entry Date	06-Dec-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	John O'Brien
Contract Main. Area	CMA18	Review Date	04-Dec-2012
Clear Roadway/Skew	12 / -45 deg. (LHF)	Dept. Reviewer Name	Andrew Smikles
AADT/Year	410 / 2011 (A)	Dept. Review Date	10-Dec-2012
Road Classification	RAU-211.8-110	Follow-Up By	
Detour Length (km)	60		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	-	3050	SP	54.9	152X51	3.0	ROUND
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone	South r/w.	Gas		
Power	3 wire 23m North. 1 O/H power N/S 100m East.	Municipal		
Others	No ID tag.	Problem (Y/N)	No	
Remarks				

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Curve 500m East.
Vertical Alignment		8	8	Gradual grade to the West.
Roadway Width (m)	12.000			
Embankment		N	6	Ditch erosion at the NW - photos.
Sideslope (__:1)	5.0			600mm deep x 1.0m wide x 28m long.
(Height of Cover(m) : 2)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		7	7	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		7	7	Minor cracks.
Collar		7	N	(Cracks. 11Apr2011) - Snow covered.
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	Covered in growth.

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Upstream End General Rating		7	7	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1 , Primary Span, Location Code: MAIN , Span (mm): , Rise (mm): 3050 , Type: SP)				
Barrel Last Accessible Date	29-Nov-2012			
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		7	7	Ice to 1/4 dia.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	100			Est
Percent Sag	3			
Sidewall		7	7	
Measured Span (mm)	3111			
Measured At Ring No.	12			
Deflection (mm)	61			
Percent Deflection	2			
Floor		N	N	Ice.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		6	6	
Separation (mm)	0			
Longitudinal Seams		6	6	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		7	7	
Corrosion By Soil (Y/N)	No			
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): 3050, Type: SP)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	Yes			
Drift (Y/N)	No			
Barrel General Rating		7	6	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
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	Top sides of bevel is deflecting 25mm in on West side.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		7	N	Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		7	N	Snow covered.
Beavers (Y/N)	No			
Downstream End General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	45 degree bend 20m U/S of culvert.
Bank Stability		7	7	(Bank is well riprapped. 03/03/19)
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			Small drift.
Channel Bottom Degrading/Aggrading				Can't determine.
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) (%)	77.8/66.7	Sufficiency Rating (Last/Now) (%)	77.9/72.4	Est. Repl. Yr	2060	Maint. Req. (Y/N)	No
Special Comments for Next Inspection	Condition better than year built suggests; AT to verify "In Service" date. Road widened, may be similar age as 73356 (i.e. 1994, Structure 2).		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	27-Aug-2014	Previous Inspection Date	11-Apr-2011				
Inspection Cycle (Default) (months)	21						
Comment							