

Bridge Culvert Inspection				
Bridge File Number	07430 -1 Bridge Culvert		Form Type	CUL1
Year Built	1969		Lot No.	4
Bridge or Town Name	RIBSTONE		Inspector Name	Owen Salava
Located Over	RIBSTONE CREEK, 5.2, WATERCRS-ST		Inspector Class	BR CLS A
Located On	14:16 C1 47.980		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	10-Jan-2012
Legal Land Location	NW SEC 5 TWP 45 RGE 1 W4M		Data Entry By	Marcia Chavez
Longitude, Latitude	-110:06:53, 52:51:01		Data Entry Date	14-Feb-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Jason Saly
Contract Main. Area	CMA15		Review Date	27-Jan-2012
Clear Roadway/Skew	11.1 / -24 deg. (LHF)		Dept. Reviewer Name	Andrew Smikles
AADT/Year	730 / 2010 (A)		Dept. Review Date	23-Feb-2012
Road Classification	RAU-211.8-110		Follow-Up By	
Detour Length (km)	17			

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	PI./Slab Thickness	Shape
1	MAIN	5751	6357	SPE	93.9	152X51		ELLIPSE
Special Features								
Special Features Comment								

Utilities (Located at)

Utility Attachments				
Telephone			Gas	
Power			Municipal	
Others			Problem (Y/N)	No
Remarks				

Approach Road / Embankment

		Last	Now	Explanation of Condition
Horizontal Alignment		4	4	Horizontal curve over pipe. Superelevation 0.85 m. At bottom of long sag curve with 7% grades in both directions.
Vertical Alignment		4	4	
Roadway Width (m)	11.100			
Embankment		7	7	6m berm about 2m above culvert crown.
Sideslope (:1)	3.0			
(Height of Cover(m) : 6)				
Guardrail (Y/N)	Yes			
Approach Road / Embankment General Rating		4	4	

Upstream End

Culvert Component		Last	Now	Explanation of Condition
Direction		S		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		X	X	
Collar		5	5	2 slabs settled about 100mm.
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		N	N	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		4	4	(Riprap grassed in. Small voids under concrete collar. 14Jun2007). Rating maintain due to previous comments.
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		4	4	(Some erosion under concrete collar. 14Jun2007).
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 5751, Rise (mm): 6357, Type: SPE)				
Barrel Last Accessible Date	10-Jan-2012			Unable to measure due to ice & height to widest span.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Type :)				
Roof		N	6	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		N	6	
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	6	
Separation (mm)	0			
Longitudinal Seams		N	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)	No			
Longitudinal Stagger (Y/N)	Yes			1N
Coating		N	5	
Corrosion By Soil (Y/N)	Yes			A few lower plates stained white at seams. Moderate rusting @ normal water level - no problem yet. Lower seams have soil side staining.
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): 5751, Rise (mm): 6357, Type: SPE)				
Fish Passage Adequacy		7	7	
Baffle		N	N	
(Type :)				
Waterway Adequacy		7	7	
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		N		
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	
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1000			
Scour Protection		5	5	Some rocks - grassed in.
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Downstream End General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		6	6	Pipe in gentle meander.
Bank Stability		7	7	
HWM (m below Top of Culvert)	4.1			
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Unknown
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) (%)	55.6/66.7	Sufficiency Rating (Last/Now) (%)	50.3/58.3	Est. Repl. Yr	2022	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	10-Oct-2013		Previous Inspection Date	23-Jun-2010			
Inspection Cycle (Default) (months)	21						
Comment							