

Bridge Culvert Inspection			
Bridge File Number	75493 -1 Bridge Culvert	Form Type	CUL1
Year Built	1964	Lot No.	2
Bridge or Town Name	ROCKYFORD	Inspector Name	Jason Rusu
Located Over	TRIBUTARY TO SERVICEBERRY CREEK, 3.33.9.7, WATERCRS-ST	Inspector Class	BR CLS A
Located On	21:12 C1 13.765	Assistant Name	
Water Body Cl./Year		Assistant Class	
Navigabil. Cl./Year		Inspection Date	09-Aug-2012
Legal Land Location	SE SEC 27 TWP 25 RGE 24 W4M	Data Entry By	Lauren Korte
Longitude, Latitude	-113:15:40, 51:09:40	Data Entry Date	05-Sep-2012
Road Authority	Alberta Transportation (AIT)	Reviewer Name	Garry Roberts
Contract Main. Area	CMA30	Review Date	19-Aug-2012
Clear Roadway/Skew	11.3 / -45 deg. (LHF)	Dept. Reviewer Name	Tim Davies
AADT/Year	2,360 / 2011 (A)	Dept. Review Date	06-Sep-2012
Road Classification	RAU-211.8-110	Follow-Up By	
Detour Length (km)	3		

Bridge Culvert Information

Number of Culverts	1							
Pipe #	Barrel	Span	Rise (or Dia.)	Type	Length	Corr. Profile	Pl./Slab Thickness	Shape
1	MAIN	1429	1575	SP	59.1	152X51	3.0	ROUND
Special Features	CONC FLOOR							
Special Features Comment								

Utilities (Located at)

Utility Attachments			
Telephone	West ditch.	Gas	
Power	West ditch 1 wire.	Municipal	
Others	1 wire x-ing 60 m South.	Problem (Y/N)	No
Remarks			

Approach Road / Embankment

	Last	Now	Explanation of Condition
Horizontal Alignment	7	7	SH564 road intersection 30 m South.
Vertical Alignment	7	7	
Roadway Width (m)	11.300		
Embankment	6	6	
Sideslope (__:1)	3.5		
(Height of Cover(m) : 3.5)			
Guardrail (Y/N)	Yes		
Approach Road / Embankment General Rating	7	7	

Upstream End

Culvert Component	Last	Now	Explanation of Condition
Direction	E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE		
Headwall	X	X	
Collar	4	4	Wide cracks, not anchored to bevel. South side is 90% gone.
Wingwalls	X	X	
(Shape :)			
Cutoff Wall	5	5	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Bevel End		6	6	
Heaving (mm)	200			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	100			
Scour Protection		5	5	Concrete bags.
(Type : CONCRETE)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		5	5	
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): 1429, Rise (mm): 1575, Type: SP)				
Barrel Last Accessible Date	09-Aug-2012			
Special Features				
Special Feature		6	6	(Water flows year round & causes icing) 11-Nov-2010.
(Type : CONC FLOOR)				
Special Feature				
(Type :)				
Roof		6	6	
Measured Rise (mm)	1425			
Measured At Ring No.	11			
Sag (mm)	25			
Percent Sag	2			
Sidewall		4	4	Water is dripping at both sidewalls causing rust build up at bolt holes. Isolated perfs in sidewall.
Measured Span (mm)	1460			
Measured At Ring No.	11			
Deflection (mm)	31			
Percent Deflection	2			
Floor		N	N	125mm of concrete on floor.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	5	
Separation (mm)	0			
Longitudinal Seams		5	5	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes			
Coating		3	3	Concrete floor covers perforations in haunch - Ring 5 from U/S has 1 - 50 mm perf. in haunch 100 mm above conc. - 15 mm dia perf @ 3 o'clock in side wall on South sidewall. 80mm dia. perf in R2 @ South. Staining through bolts through out pipes.
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): 1429, Rise (mm): 1575, Type: SP)				
Fish Passage Adequacy		7	7	
Baffle		X	X	
(Type :)				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		S		West.
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		5	5	North side only 10mm wide crack, not attached to bevel.
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		6	6	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	150			
Scour Protection		5	5	
(Type : CONCRETE)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Downstream End General Rating		5	5	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	
Bank Stability		6	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		5	5	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS	2015	Repair sidewall perforations- shotcrete or liner.					
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) (%)	44.4/44.4	Sufficiency Rating (Last/Now) (%)	47.4/47.7	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	Jason Rusu		Previous Assistant's Name				
Next Inspection Date	09-May-2014		Previous Inspection Date	11-Nov-2010			
Inspection Cycle (Default) (months)	21						
Comment							