

Bridge Culvert Inspection				
Bridge File Number	70767 -1 Bridge Culvert		Form Type	CUL1
Year Built	1998		Lot No.	2
Bridge or Town Name	STONY PLAIN		Inspector Name	Kris Bosters
Located Over	TRIBUTARY TO ATIM CREEK, 6.65.8.7, WATERCRS-ST		Inspector Class	BR CLS A
Located On	779:02 C1 12.215		Assistant Name	
Water Body Cl./Year			Assistant Class	
Navigabil. Cl./Year			Inspection Date	18-Oct-2012
Legal Land Location	NW SEC 12 TWP 53 RGE 28 W4M		Data Entry By	Theresa Lacusta
Longitude, Latitude	-114:00:07, 53:33:49		Data Entry Date	23-Oct-2012
Road Authority	Alberta Transportation (AIT)		Reviewer Name	Eric Carcoux
Contract Main. Area	CMA11		Review Date	22-Oct-2012
Clear Roadway/Skew	8 /		Dept. Reviewer Name	Brent Herrick
AADT/Year	8,720 / 2011 (A)		Dept. Review Date	13-Nov-2012
Road Classification	RAU-213.4-120		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	2400	2400	PCB	72.7			RECTANGLE
Special Features								
Special Features Comment								

Utilities (Located at)			
Utility Attachments			
Telephone		Gas	
Power	4 wire power W r/w.		Municipal
Others		Problem (Y/N)	No
Remarks			

Approach Road / Embankment				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Curve to North. Crest curve to North (grade separation) Posted 80KPH
Vertical Alignment		8	8	
Roadway Width (m)	12.300			
Embankment		8	7	0.7m dia x 1.5m deep void formed at East embankment toe due to box section seam separation.
Sideslope (___:1)	3.5			
(Height of Cover(m) : 6)				
Guardrail (Y/N)	Yes			Guardrail set off shoulder 6m on 6:1 sideslope then sideslope steepen
Approach Road / Embankment General Rating		7	7	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		X	X	
Collar		X	X	

Upstream End				
Culvert Component		Last	Now	Explanation of Condition
Wingwalls (Shape :)		X	X	
Cutoff Wall		X	X	
Bevel End		7	7	Circ. seam separation - 60mm gap near bottom, tight near top.
Heaving (mm)	100			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection (Type : RIP RAP) (Avg. Rock Size(mm) : 400)		8	8	
Scour/Erosion		8	8	
Beavers (Y/N)	Yes			Beaver dam 20m West of end.
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): 2400, Rise (mm): 2400, Type: PCB)				
Barrel Last Accessible Date	18-Oct-2012			
Special Features				
Special Feature (Type :)				
Special Feature (Type :)				
Roof		8	8	
Measured Rise (mm)	2430			
Measured At Ring No.				
Sag (mm)				
Percent Sag				
Sidewall		8	8	
Measured Span (mm)	2430			
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		7	7	Only u/s half visible.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		4	3	1st circ. seam from W-60mm separation. 2nd circ. seam from W-90mm separation loosing fill from behind seam. 2nd circ. seam from E-150mm separation. - photo - Infiltration all seam, 15-35mm separation.
Separation (mm)	135			
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)				

Bridge Culvert Barrel				
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Location Code: MAIN, Span (mm): 2400, Rise (mm): 2400, Type: PCB)				
Coating		X	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		4	4	one missing, one loose maybe be others loose.
(Type :)				
Waterway Adequacy		7	7	
Icing (Y/N)	No			
Siltting (Y/N)	No			
Drift (Y/N)	Yes			
Barrel General Rating		8	8	
Downstream End				
Culvert Component		Last	Now	Explanation of Condition
Direction		E		
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		X	X	
Collar		X	X	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall		X	X	
Bevel End		7	7	
Heaving (mm)	150			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		7	7	DOWSTREAM BENDS TO THE SOUTH
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	Yes			

Structure Usage				
		Last	Now	Explanation of Condition
Channel Bottom Degrading/Aggrading				
Beavers (Y/N)	Yes			
(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	2013	Patch seams to stop loss of fill from behind pipe, grout voids in embankment.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	88.9/88.9	Sufficiency Rating (Last/Now) (%)	80.5/80.5	Est. Repl. Yr	2058	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor fish baffles.		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	Arnold Assenheimer		Previous Assistant's Name				
Next Inspection Date	18-Jan-2016		Previous Inspection Date	08-Jul-2009			
Inspection Cycle (Default) (months)	39						
Comment							