Bridge File Number77118 -1 Bridge CulvertForm TypeCUL1Year Built1970Lot No.1Bridge or Town NameSTRANGMUIRInspector NameGarry RobertsLocated OverTRIBUTARY TO BOW RIVER, 2.13.21, WATERCRS-STInspector ClassBR CLS ALocated On817:02 C1 7.546Assistant NameWater Body CI./YearInspection Date04-Jan-2012Navigabil. CI./YearSE SEC 28 TWP 22 RGE 25 W4MData Entry ByAnne RobertsLongitude, Latitude-113:23:57, 50:53:42Reviewer NameIoel Worrew									
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Longitude, Latitude -113.23.57, 50.55.42 Reviewer Name Loel Wozney	07-Feb-2012								
Poad Authority Alberta Transportation (AIT)	Joel Wozney								
Contract Main Area CMA30	05-Jan-2012								
Clear Roadway/Skew 91/-20 deg (LHE)	Tim Davies								
AADT/Year 1.060 / 2010 (A)	09-Feb-2012								
Road Classification BLU-209-110									
Detour Length (km) 5									
Bridge Culvert Information									
Number of Culverts 1									
Pipe # Barrel Span Rise (or Dia.) Type Length Corr. Profile PI./Slab Shickness	iape								
1 MAIN - 3000 SP 35.2 152X51 3.5 R(DUND								
Special Features VERT TIMBER STRUTS									
Special Features Comment									
Utilities (Located at)									
Utility Attachments									
Telephone Gas Crosses 30m U/S	Gas Crosses 30m U/S								
Power East Municipal									
Others Problem (Y/N) No	m (Y/N) No								
Approach Boad / Embankment									
Last Now Explanation of Condition									
Horizontal Alignment 5 5 MIDDLE OF CURVE, ADVISORY SIGN FOR									
Vertical Alignment 7 7 55 KPH									
Roadway Width (m) 9.100									
Embankment 7 7									
Sideslope (:1) 25									
(Height of Cover(m): 3.3)	-								
Guardrail (Y/N) Yes 1 split/rotting posts @ W	1 split/rotting posts @ W								
Approach Road / Embankment General Rating 5 5									
Upstream End									
Culvert Component Last Now Explanation of Condition									
Direction West									
End Treatment (Concrete, Steel, STEEL	1								
End Treatment (Concrete, Steel, STEEL STEEL Others, None) X									
End Treatment (Concrete, Steel, STEEL Others, None) Headwall X X Collar X									
End Treatment (Concrete, Steel, STEEL X X Headwall X X Collar X X Wingwalls X X									

Alberta Transportation

	Upstream End									
Culvert Component		Last	Now	Explanation of Condition						
Cutoff Wall		X	Х							
Bevel End		6	7							
Heaving (mm)	200									
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm)	bove/Below (mm) 200									
Scour Protection		7 7								
(Type : NATURAL)										
(Avg. Rock Size(mm) : 300)										
Scour/Erosion		7	7							
Beavers (Y/N)	No									
Upstream End General Rating		6	7							
		Brid	dge Cu	lvert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm):		, Rise (mm): 3000, Type: SP)						
Barrel Last Accessible Date	04-Jan-2012									
Special Features										
Special Feature		5	4	BARREL HAS BEEN STRUTTED 150 x 200 T.T.						
(Type : VERT TIMBER STRUTS)				2 struts leaning at U/S end Ring 1						
Special Feature										
(Type :)										
Roof		5	5	Est.						
Measured Rise (mm)	2800									
Measured At Ring No.	6									
Sag (mm)	200									
Percent Sag	6									
Sidewall		2	2	cracked rings, 2-4,6-10. Least amt of remaining steel @ rings 6&9						
Measured Span (mm)	3200		_							
Measured At Ring No.	6									
Deflection (mm)	200									
Percent Deflection	6									
Floor		N	5							
Bulge (mm)	0									
Measured At Ring No.				1						
Abrasion (Y/N)	Yes			1						
Circumferential Seams		7	6							
Separation (mm)	0			1						
Longitudinal Seams		2	2	Ring 4, Longit sidewall seam cracked both sides. s. wall only cracked						
Total No. of Cracked Rings	8			@ 2 holes, 140mm rem @ s., 95 mm remaining @						
Total No. of Rings with Two Cracked Seams	2			Ring 3 two cracked seams, S. wall 3 holes only, N Seam Ring 6 - 65mm steel rem.						
Min. Remaining Steel Between Cracks (mm)	65			S Seam Ring 9 - 65mm steel rem. Cracks in R 2, 3, 4, 6, 7, 8, 9, 10						
Proper Lap (Y/N)	No									
Longitudinal Stagger (Y/N)	Yes									
Coating		4	4	Pitting at floor plates						
Corrosion By Soil (Y/N)	No		-1							
Corrosion By Water (Y/N)	Yes			1						
Camber POS/ZERO/NEG	NEG									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

77118 -1 Bridge Culvert

Bridge Culvert Barrel								
Culvert Component	ulvert Component Last Now Explanation of Condition							
(Pipe # : 1, Primary Span, Location Code: MAIN, Spa):	, Rise (mm): 3000, Type: SP)				
Ponding (Y/N)	No							
Fish Passage Adequacy		4	5					
Baffle		Х	Х					
(Type :)		1	1					
Waterway Adequacy	1	5	5	-				
Icing (Y/N)	No			_				
Silting (Y/N)	No			-				
Drift (Y/N)	No							
Barrel General Rating		3 3		1 point increase for struts. Leaning struts not in ring with cracks.				
		D	ownstr	ream End				
Culvert Component		Last	Now	Explanation of Condition				
Direction				West end				
End Treatment (Concrete, Steel, Others, None)	STEEL							
Headwall	1	Х	X					
Collar		Х	Х					
Wingwalls		X	X					
(Shape:)								
Cutoff Wall		X	X					
Bevel End		6	6					
Heaving (mm)	200							
Invert Above/Below Stream Bed	ABOVE							
Above/Below (mm)	300							
Scour Protection		5	5					
(Type : NATURAL)								
(Avg. Rock Size(mm) : 350)								
Scour/Erosion		5	5					
Beavers (Y/N) No				Scour hole ripraped to 2m from bevel				
Downstream End General Ratin	ng	7	5					
		s	structu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)		1	1					
Alignment		8	7					
Bank Stability		6	6					
HWM (m below Top of Culvert)				No visible HWM				
Drift (Y/N)	No							
Channel Bottom	NONE							
Beavers (Y/N)	No							
(Fish Compensation Measure 1 :	NONE)							
(Fish Compensation Measure 2 :	NONE)							
Channel General Rating		8	7					

Alberta Transportation

77118 -1 Bridge Culvert

Maintenance Recommendations											
Inspector Recommendations	mendations Year Inspector Comm		tor Comments		Department Comments			Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS 2012 Repair 2 struts in R1											
INSTALL CONCRETE COLLAR/CUTOFF											
REPAIR SEAMS											
OTHER ACTION	2012	2 Assess	Assess for liner or replacement								
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/No (%)	tructural Condition Rating (Last/Now) 33.3/33. %)		.3 Sufficiency Rating (Last/Now (%)		43.2/47.7 Est. Repl. Yr 2018		2018	Maint. Reqd. (Y/N) Yes		Yes	
Special Comments for Next Inspection					Department Comments						
Maintenance Reviewed By					Date		I	Estimated Total	0		
Proposed Long-Term Strategy							, i				
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name William Reardon Previ			Previous	bus Assistant's Name							
Next Inspection Date 04-Apr-2015 P			Previous	vious Inspection Date 28-Nov-2008							
Inspection Cycle (Default) (months) 39											
Comment											