Bridge Culvert Inspection													
Bridge File Number 71505 -1 Bridge Culvert						Form Type		CULM					
Year Built 1955						Lot No.		2					
Bridge or Town Name BRETON						Inspector Name		Wade Nanninga					
Located Over 2ND ORDI CREEK. 6			RDER TRIBUTARY TO POPLAR				Inspector Class			BR CLS B			
Located On		616:02	C1 17.890				Assistant Name						
Water Body CI./	Year		/				Assistant Class						
Navigabil. Cl./Ye	ear						Inspection Date		14-Feb-2011	imor			
Legal Land Loca	ation	SE SEG	C 3 TWP 48 RG	E 5 W5M	1		Data Entry Data		25 Ech 2011				
Longitude, Latitude -114:38:1			38:13, 53:06:18					Beviewer Name		25-Feb-2011			
Road Authority Alberta		Transportation		Review Date			22-Eeb-2011						
Contract Main. Area CMA11							Dent Reviewer Name		Brent Herrick				
Clear Roadway/	Skew	9 /					Dept F	eview D	ate				
AADT/Year		860 / 20	009 (A)				Follow-	Up By	ato				
Road Classificat	ion	RCU-2	09-110					0					
Detour Length (k	(m)	20											
Bridge Culvert	Inform	ation											
Number of Culve	erts		1										
Pipe # E	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		3600	1800		BP		47.5				RECTANGLE	
Special Features	5												
Special Features	s Comr	nent											
					114			~ 4)					
Litility Attachmer	ate				Ut	liities (L	ocated	at)					
							Gas						
Power	2 lines	North r	-/\\/				Municipal						
Others	2 11100		,				Problem (Y/N) No						
Remarks													
				A	pproa	ch Road	d / Emba	ankment					
				Last	Now	Explanation of Condition							
Horizontal Alignment			7	7	Range	road inte	rsectio	n to East.					
Vertical Alignment				7	7	Crest c	urve to e	ast with	n limited sight d	istance.			
Roadway Width	(m)		9.000										
Embankment					7 N		(Erosion channels all 4 corners, grassed and appear stable, 21-Nov-					stable 21-Nov-	
Sideslope (:	1)		3.0					())					
(Height of Cov	er(m) :	4.5)	0.0				-						
Guardrail (Y/N)			No										
Annreach Beac	. / Emak		nt Conorol Dot	ina	7	7							
Approach Road		bankme	nt General Rat	ing		1							
Upstream End													
Culvert Component				Last	Now	Explanation of Condition							
Direction				S		East ba	arrel.						
End Treatment (Concrete, Steel, CONCRETE Others, None)				-1									
Headwall			4	4	Severe	scaling.							
Collar			Х	Х									
Wingwalls					4	4	Severe	Severe scaling top, wide vertical cracks. Center wall is heavily				is heavily scaled	
(Shape :)			lioh ede	JC.									

			Upstre	am End				
Culvert Component		Last	Now	Explanation of Condition				
Cutoff Wall		N	N					
Bevel End		X	X					
Heaving (mm)			~					
Invert Above/Below Stream Bed								
Above/Below (mm)	0							
Scour Protection	0	6	6					
		0	0					
(Avg. Rock Size(mm) :)								
Scour/Frasion		6	6					
		0						
Beavers (Y/N)	3eavers (Y/N) No							
Upstream End General Rating		4	4					
		Brid	dge Cu	lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 1800	, Rise (mm): 1800, Type: BP, Cell Sequence: 1)				
Barrel Last Accessible Date	14-Feb-2011			Wide vertical crack with spalling on center wall @ inlet where joins center bevel wall. 0.5m ice along floor.				
Special Features	·							
Special Feature								
(Type :)								
Special Feature								
(Туре :)								
Roof		N	5	5 - 10mm cracks through circum. seams.				
Measured Rise (mm)								
Measured At Ring No.								
Sag (mm)	0							
Percent Sag								
Sidewall		N	5	Horiz. longitudinal cracks with efflorescence.				
Measured Span (mm)	1800							
Measured At Ring No.								
Deflection (mm)	0							
Percent Deflection	0							
Floor		N	N					
Bulge (mm)	0							
Measured At Ring No.				1				
Abrasion (Y/N)	No			1				
Circumferential Seams		N	5	5 - 10 mm cracks at each seam				
Separation (mm)	10		Ŭ					
Longitudinal Seams		X	X					
Total No. of Cracked Pinge		A	Λ					
Total No. of Rings with Two								
Cracked Seams								
Between Cracks (mm)								
Proper Lap (Y/N)				-				
Longitudinal Stagger (Y/N)			_					
Coating		Х	Х					
Corrosion By Soil (Y/N)								
Corrosion By Water (Y/N)								

Bridge Inspection & Maintenance System (Web 2005)

71505 -1 Bridge Culvert

		Bric	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loc	ation Code: MAIN,	Span (mm): 1800	, Rise (mm): 1800, Type: BP, Cell Sequence: 1)
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	Yes			About 0.3.
Fish Passage Adequacy		N	6	
Baffle		N	Х	
(Туре:)				
Waterway Adequacy		N	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		N	5	
		Bric	dge Cu	Ivert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loc	ation Code: MAIN,	Span (mm): 1800	, Kise (mm): 1800, Type: BP, Cell Sequence: 2)
Barrel Last Accessible Date	14-Feb-2011			0.5m ice along floor.
Special Features				
Special Feature				
(Type :)				
Special Feature				
(Туре :)				
Roof		N	5	5 - 10mm cracks at circ. seams.
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	0			
Percent Sag				
Sidewall		N	5	Wide vertical crack with spalling. Centre wall at inlet horizontal
Measured Span (mm)	1800			cracks with efflorescence.
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection	0			
Floor		N	N	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		N	5	5 - 10mm cracks at each seam.
Separation (mm)	10		-	
Longitudinal Seams		Х	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)				
Coating		X	X	
Corrosion By Soil (Y/N)			~	-
Corrosion By Water (V/N)				

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel								
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,	Span (mm): 1800	, Rise (mm): 1800, Type: BP, Cell Sequence: 2)				
Camber POS/ZERO/NEG	ZERO							
Ponding (Y/N)	Yes			0.3m				
Fish Passage Adequacy		7	6					
Baffle		N	Х					
(Type :)								
Waterway Adequacy		N	6					
Icing (Y/N)	No							
Silting (Y/N)	No							
Drift (Y/N)	No							
Barrel General Rating		N	5					
			ownst	ream End				
Culvert Component		Last	Now	Explanation of Condition				
Direction		N		East barrel.				
End Treatment (Concrete, Steel, Others, None)	CONCRETE							
Headwall		N	7					
Collar		N	Х					
Wingwalls		N	4	Cracking and small spalls @ joint wingwall to barrel. Wide vertical				
(Shape :)				cracks in wingwall.				
Cutoff Wall	N	N						
Bevel End		X	X					
Heaving (mm)	0							
Invert Above/Below Stream Bed								
Above/Below (mm)	0							
Scour Protection		N	N	Banks are getting undermined D/S, minor. Banks "belled" out with no				
(Туре :)				problems. 01/Sept/2004				
(Avg. Rock Size(mm) :)								
Scour/Erosion		N	N					
Beavers (Y/N)	No							
Downstream End General Rati	ng	5	5	(G.R. carried forward from 01/Sept/2004)				
		s	Structu	re Usage				
		Last	Now	Explanation of Condition				
Channel (U/S and D/S)	1							
Alignment		5	5	Ben				
				ds U/S, enters at a bad angle.				
Bank Stability			5	Minor undermining and slumping.				
HWM (m below Top of Culvert)				HWM not visible				
Drift (Y/N)	Yes			Caught at inlet.				
Channel Bottom Degrading/Aggrading								
Beavers (Y/N)	No							

Structure Usage										
	Last	Now	Explanation of Condition							
(Fish Compensation Measure 1 : NONE)										
(Fish Compensation Measure 2 : NONE)										
Channel General Rating	5									

71505 -1 Bridge Culvert

				Maintenance Reco	ommend	ations					
Inspector Recommendations			Year	Inspector Comments		Department Con	nments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT	ACCUMULATION		2011	At inlet.							
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) (%)			55.6/55.	6 Sufficiency Rating (Last/No (%)	ow) 6	64.3/54.9	Est. Repl. Yr	2024	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection			crete surf	aces and ditch erosion.		Department Comments					
Maintenance Reviewed By						Date		E	Estimated Total	0	
Proposed Long-Term Strategy										·	
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name Jacob			Oresile	P	Assistant's Name						
Next Inspection Date 14-M		14-May-2014 Pre				bus Inspection Date 21-Nov-2007					
Inspection Cycle (Default) (months) 39		39									
Comment											