75333 -1 Bridge Culvert

					Drida	o Culv	art Inan	aatian							
Bridge Eile Nun	umber 75333 -1 Bridge Culvert					e Cuive	ert Insp			CUL1					
Bridge File Number 75333 -1 Bridge Culvert Year Built 1963							Form Type								
Bridge or Town Name RED DEER						Lot No.			4						
							Inspector Name			Owen Salava					
			NASKASOO CREEK, 3.81, WATERCRS-ST 2:24 R1 27.448;2:24 L1 27.377				Inspector Class Assistant Name			BR CLS A					
			,												
Water Body Cl./Year						Assistant Class Inspection Date			18-Mar-2013						
Navigabil. Cl./Year			• E TWD 20 D	20 DOE 27 WAM				ntry By		Marcia Chavez					
										28-Mar-2013					
								ntry Date ver Name		John O'Brien					
			Alberta Transportation (AIT)					Date	•	23-Mar-2013					
Contract Main. Area CMA1 Clear Roadway/Skew 26 /									Nomo						
AADT/Year	// SKEW									Chris Black 09-Apr-2013					
Road Classifica	ntion		36,590 / 2011 (A)					Dept. Review Date		09-Apr-2013					
Detour Length		5	RFD-412.4-130				Follow	Follow-Up By							
Bridge Culvert	` '														
Number of Culv		1													
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape			
1	MAIN	5		3276		AP		79.9			THICKHESS	ARCH			
Special Feature			STORM WATE		J	7.0	10.0					7.1.1011			
	Special Features Comment			ir Dro iii	•										
Openiar r dature	30 001111	····o····													
					Ut	ilities (L	Located	at)							
Utility Attachme	ents														
Telephone	4 wire	east ditcl	h.				Gas								
Power							Munici	pal							
Others							Proble	m (Y/N)	No						
Remarks															
				Α				ankment		_					
						Now	Explar	ation of	Condi	tion					
Horizontal Align					9	9	-								
Vertical Alignment Roadway Width (m) 26.		26.000		9	9										
readinaly vitalin (iii)															
Embankment					9	9	4:1 @	West.							
	Sideslope (:1)														
(Height of Co	ver(m)	: 2.5)													
Guardrail (Y/N)			Yes												
Approach Roa	d / Eml	bankmen	t General Rat	ing	9	9									
						Upstre	am End								
Culvert Component			Last	Now		Explanation of Condition									
Direction				W											
End Treatment (Concrete, Steel, Others, None)		CONCRETE													
Headwall			6	5	Unders	Underside parging deteriorating.									
Collar			X	X											
Wingwalls				5	5	Severa	Several 0.5 to 1.5mm wide vertical cracks. South wing			g is spalled at					
(Shape : FLARE)				J J	top 30	top 300mm. Exposed rebar. Small spall top of North win				wingwall near					
Cutoff Wall			N	N											
							1								

			Hactro	nam End					
Culvert Component				eam End Explanation of Condition					
Culvert Component Bevel End		Last X	Now	Explanation of Condition					
		X	X						
Heaving (mm)									
Invert Above/Below Stream Bed				_					
Above/Below (mm)	300		T						
Scour Protection		5	N	Snow covered.					
(Type : CONCRETE)				_					
(Avg. Rock Size(mm):)			I						
Scour/Erosion		5	N	Snow covered.					
Beavers (Y/N)	No								
Upstream End General Rating		5	5						
		Bri	dgo Cu	llvert Barrel					
Culvert Component				Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN S			<u> </u>					
Barrel Last Accessible Date	18-Mar-2013	pan (min	17. 0000	, rese (min). 9276, Type. At)					
Special Features									
Special Feature		7	7						
(Type : STORM WATER DRA	INI)	1		-					
	iin)		1	_					
Special Feature									
(Type:)			T _						
Roof		5	5	2540 to ice.					
Measured Rise (mm)	3276			_					
Measured At Ring No.	1			_					
Sag (mm)	0			(13Sep2011)					
Percent Sag	0								
Sidewall		5	5	Longit. crack 75% of both sidewalls, 0.3mm wide to 1.0mm wide.					
Measured Span (mm)	5385			Vertical cracks with efflorescence & exudation @ cracks. Widest point below ice.					
Measured At Ring No.	1								
Deflection (mm)	0			(13Sep2011)					
Percent Deflection	0			(1000)					
Floor		N	N	Ice covered.					
Bulge (mm)	0								
Measured At Ring No.									
Abrasion (Y/N)	No								
Circumferential Seams		5	5						
Separation (mm)	10			-					
Longitudinal Seams		X	Х						
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	Х						
Coating Corrosion By Soil (Y/N)	No	^	^	-					
Corrosion By Water (Y/N)	No								
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								

		Brid	dge Cul	lvert Barrel						
Culvert Component	Ilvert Component		Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 5385	, Rise (mm): 3276, Type: AP)						
Fish Passage Adequacy		7	7							
Baffle		N	N	Ice covered.						
(Type:)										
Waterway Adequacy		7	7							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N) No										
Barrel General Rating		5	5							
		D	ownstr	eam End						
Culvert Component		Last	Now	Explanation of Condition						
Direction		E								
End Treatment (Concrete, Steel, Others, None)	CONCRETE									
Headwall		7	7							
Collar		X	X							
Wingwalls		6	6	Several 1mm wide vertical & diagonal cracks.						
(Shape : FLARE)										
Cutoff Wall		N	N							
Bevel End			X							
Heaving (mm)	0									
Invert Above/Below Stream Bed BELOW										
Above/Below (mm) 100										
Scour Protection			N	Snow covered.						
(Type : CONCRETE)										
(Avg. Rock Size(mm):)										
Scour/Erosion		6	N	Snow covered.						
Beavers (Y/N)	No									
Downstream End General Ratin	ng	6	6							
		S	tructur	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment		7	7							
Bank Stability		7	7							
HWM (m below Top of Culvert)				HWM not visible.						
Drift (Y/N) No										
Channel Bottom Degrading/Aggrading										
Beavers (Y/N)	No									
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating		7	7							

				Ma	aintenance R	lecommen	dations						
Inspector Recommendations	Y	'ear	Inspecto	or Comments			Department Co	Target Year	Est. Cos	t Cat			
SHOTCRETE REPAIRS													
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
INSTALL CONCRETE/STEEL LINING	ì												
INSTALL STRUTS													
INSTALL CONCRETE COLLAR/CUT	OFF												
REPAIR SEAMS													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/N (%)	ow) 55	55.6/55.6		Sufficiency Rating (Last/Now) (%)		/Now)	59.1/59.1		t. Repl. Yr	epl. Yr 2033		eqd. (Y/N)	No
Special Comments for Next Inspection							Department Comments						
Maintenance Reviewed By							Date				Estimated Tot	al 0	
Proposed Long-Term Strategy													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name Owe		Owen Salava Previous					Assistant's Name						
Next Inspection Date	18-Dec-2014 Previous					Inspection Date 13-Sep-2011							
Inspection Cycle (Default) (months)	21						•						
Comment													