Bridge Culvert Inspection													
Bridge File Number		76799 -1 Bridge Culvert					Form Type		CUL1				
Year Built 1957			1957					Lot No.		1			
Bridge or Town Name DUCHESS							Inspector Name		Tom Carey				
Located Over EID - IRRIGATION C, WATERC				CRS-IC		Inspector Class		BR CLS A					
Located On 544:02 C1 12.887							Assistant Name						
Water Body Cl./Year							Assistant Class						
Navigabil. Cl./Year								Inspection Date		15-Feb-2010			
Legal Land Location SE SEC			EC 18 TWP 20 RGE 13 W4M					ntry By		Kelsey Roberts			
Longitude, Latitude -111:4			1:47:18, 50:41:18					Data Entry Date		03-Mar-2010			
Road Authority Alber			Iberta Transportation (AIT)					Reviewer Name		Garry Roberts			
Contract Main. Area CMA							Review Date		23-Feb-2010				
Clear Roadway/Skew 8.6 /							Dept. Reviewer Name		Lorenz Bohnert				
AADT/Year		1,530 / 2	2008 (A)				Dept. Review Date		08-Mar-2010				
Road Classifica	ation	RCU-21	0-110				Follow-Up By						
Detour Length	(km)	5											
Bridge Culvert	Inform	nation											
Number of Culv	/erts		1			1							
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		2100	2100		BP		15.2				RECTANGLE	
Special Feature	es												
Special Feature	es Comi	ment											
					1 14	litico /l	o o o t o d	<b>at</b> )					
Litility Attachme	onto				Οt	inties (L		at)					
Power	3 W S						Munici	Municipal			0111 10201		
Others	Water	arline 20m west					Problem (Y/N) No						
Pemarke													
rtomanto				A	oproa	ch Road	l / Emb	ankment					
					Last	Now	Explan	ation of	Condit	ion			
Horizontal Alignment			7	7	int 400m east								
Vertical Alignment				8	8								
, i i i i i i i i i i i i i i i i i i i													
			0.000				(Guard						
Roadway Width	ר (m)		8.600										
Embankment					N	N	Snow						
Sideslope (	:1)		3.0				(CUT @ 90 DEG. @ SIDES OF BOX @ SOUTH.						
(Height of Co	ver (m)	: 0.4)											
Guardrail (Y/N)			No				Transverse cracks up to 30m wide in A.C.P @ either side of box.						
Approach Roa	d / Eml	bankmer	nt General Rat	ing	3	3	genera	general rating carried forward					
Linstream End													
Culvert Component Last Now Explanation of Condition													
Direction			s		SOUTH								
End Treatment (Concrete, Steel, CONCRETE Others, None)													
Headwall			6	6									
Collar			Х	Х									
Wingwalls			X	X	_								
(Shape : )													

Alberta Transportation

Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Cutoff Wall			Х							
Bevel End		X	X	_						
Heaving (mm)										
Invert Above/Below Stream Bed	BELOW			(981103)						
Above/Below (mm)	300									
Scour Protection		N	N	(Scour @ SE) Snow covered						
(Type:)										
(Avg. Rock Size (mm) : )										
Scour/Erosion			N	(Sloughing @ SE to road ACP broken) Snow covered						
Beavers (Y/N)	No									
Upstream End General Rating		3	3	general rating carried forward						
		Brid	dge Cu	Ivert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	): <u>2100</u>	), Rise (mm): 2100, Type: BP)						
Barrel Last Accessible Date	15-Feb-2010									
Special Features										
Special Feature										
(Type:)										
Special Feature										
(Type:)		1								
Roof		7	7							
Measured Rise (mm)										
Measured At Ring No				-						
Sag (mm)										
Percent Sag										
Sidewall		7	7	d/s end of east sidewall has lots of						
Measured Span (mm)	2100		,	honey comb and is (scaling with 25 mm loss of concrete 300 mm						
Measured At Ring No	1			from bottom.) No problems						
Deflection (mm)	0									
Percent Deflection	0									
Floor	~	N	N	Ice covered						
Bulge (mm)	0	ÍN.	IN							
	0			-						
Abrasion (V/N)				-						
Circumferential Seams		7	7							
Separation (mm)	0	1	1							
	V	v	V							
Total No. of Crocked Pinge		^	~							
Total No. of Pipes with Two				-						
Cracked Seams				-						
Between Cracks (mm)				-						
Proper Lap (Y/N)				-						
Longitudinal Stagger (Y/N)			_							
Coating		Х	X	-						
Corrosion By Soil (Y/N)										
Corrosion By Water (Y/N)										
Camber POS/ZERO/NEG	ZERO									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Bric	dge Cul	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	in (mm	): 2100	, Rise (mm): 2100, Type: BP)					
Ponding (Y/N)	No								
Fish Passage Adequacy		X	X						
Baffle		Х	X						
(Type:)									
Waterway Adequacy		7	7						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		7	7						
		D	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		N		NORTH					
End Treatment (Concrete, Steel, Others, None)	CONCRETE								
Headwall		5	5	steel posts broken out of corners					
Collar		X	X						
Wingwalls		X	X						
(Shape : )									
Cutoff Wall		X	X						
Bevel End		Х	X						
Heaving (mm)									
Invert Above/Below Stream Bed	BELOW			(981103)					
Above/Below (mm)	200								
Scour Protection		N	N	(riprap protecting west bank)					
(Туре:)				snow covered					
(Avg. Rock Size (mm) : )			1						
Scour/Erosion		N	N	snow covered					
Beavers (Y/N)	No		1						
Downstream End General Rati	ng	5	N						
		S	tructur	a lleane					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)		1-000							
Alignment			5	45 DEG BEND U/S & 90 DEG. D/S COVERED IN PITRUN (920113)					
Bank Stability			N	Snow					
HWM (m below Top of Culvert)									
Drift (Y/N)									
Channel Bottom DEGRADING									
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2	NONE)								

Structure Usage									
	Last Now Explanation of Condition								
Channel General Rating	:	5	5						

Maintenance Recommendations											
Inspector Recommendations		Year	Inspecto	or Comments		Department Com	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTC	DFF										
REPAIR SEAMS											
OTHER ACTION		2010	Conside past con	r INSTALLING GUARDRAIL	based on kment						
OTHER ACTION		2010	CLASS done	1 & REWORK SLOPE If it h	as been						
OTHER ACTION		2010	REPAIR 5m3 - if	EROSION @ SE EMBANK not done	MENT -						
OTHER ACTION		2010	Fill crack	s in A.C.P @ roadway							
OTHER ACTION											
Structural Condition Rating (Last/Now) (%)		77.8/77.	.8 Sufficiency Rating (Last/ (%)		Now) 5	57.1/57.0	Est. Repl. Yr	2020	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection						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	Tim Da	avies			Previous A	Assistant's Name					
Next Inspection Date	15-May	y-2013			Previous I	nspection Date	21-Feb-2007				
Inspection Cycle (Default) (months) 39											
Comment											