Bridge Culvert Inspection													
Bridge File Number 01483 -1 Bridge Culvert				rt			Form Type			CUL1			
Year Built 1992							Lot No.		2				
Bridge or Town	Name	IRVINE						Inspector Name		Tom Carey			
Located Over			ARY TO MAC	KAY CRE	EK. 28	3.2.		tor Class		BR CLS A			
		WATER					· · ·	ant Name					
Located On		1:22 R1	35.581;1:22 L	1 35.575				ant Class					
Water Body Cl.	/Year						Inspection Date		08-Feb-2012				
Navigabil. Cl./Year							Data Entry By		Lauren Korte				
Legal Land Location SE SEC 26 TWP 11 RGE 2 W4M					М		Data Entry Date		25-Mar-2012				
Longitude, Latitude -110:09:53, 49:56:15							Reviewer Name		Garry Roberts				
Road Authority Alberta Transportation (AIT)							Review Date		26-Feb-2012				
Contract Main. Area CMA23									Tim Davies				
Clear Roadway/Skew 26 / -16 deg. (LHF)								Dept. Review Date		29-Mar-2012			
AADT/Year			2011 (A)				Follow	-Up By					
Road Classifica		RFD-412	2.4-130										
Detour Length (km) 1													
Bridge Culvert													
Number of Culv													
Pipe #	Barrel	Ś	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		4590	2705		RPE		81.7		152X51	4.0,4.0,4.0	ELLIPSE	
Special Feature							01.7						
Special Feature		ment											
	1				Ut	ilities (l	ocated	at)					
Utility Attachme													
Telephone	North	ditch.					Gas						
Power			oad 20m East		Municipal								
Others		•	uth ROW.				Problem (Y/N) No						
Remarks	1 line	- South F	R/W and NE R										
				Α				ankment					
							Explanation of Condition						
Horizontal Alignment				6	6	In curve, superelevated, Local road. 100 m West.							
Vertical Alignment			00.000		7	7							
Roadway Width (m)			26.000										
Embankment					8	8	4:1 RC	4:1 ROADWAY, 5:1 AT PIPE.					
Sideslope (:1)		4.0				4.1 ROADWAT, 5.1 AT PIPE.						
(Height of Co		: 1.1)					1						
Guardrail (Y/N)		,	Yes										
				-									
Approach Roa	d / Emł	bankmen	t General Rat	ing	6	6							
						Upstre	am End						
Culvert Component			Last		Explanation of Condition								
Direction				S		South.							
End Treatment Others, None)	(Concre	ete, Steel	, CONCRETE	E									
Headwall					8	8							
Collar			8	8									
Wingwalls					X	X							
(Shape :)													
Cutoff Wall					N	N							

Alberta Transportation

	Upstream End								
Culvert Component		Last	Now	Explanation of Condition					
Bevel End	I	8	8						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW			_					
Above/Below (mm) 300									
Scour Protection		7	7	-					
(Type : RIP RAP)				_					
(Avg. Rock Size(mm) : 500)		1							
Scour/Erosion		7	7						
Beavers (Y/N)	No								
Upstream End General Rating			7						
		Bric	dge Cu	Ivert Barrel					
Culvert Component		Last		Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm): 4590	, Rise (mm): 2705, Type: RPE)					
Barrel Last Accessible Date	08-Feb-2012								
Special Features	· · · · · · · · · · · · · · · · · · ·								
Special Feature									
(Type :)									
Special Feature									
(Type:)									
Roof		8	8	Measured.					
Measured Rise (mm)	2695								
Measured At Ring No.	6								
Sag (mm)	10								
Percent Sag									
Sidewall		8	8						
Measured Span (mm)	4600								
Measured At Ring No.	6								
Deflection (mm)	10								
Percent Deflection	0								
Floor		N	N	Pit run placed 2m to 3m wide along entire floor.					
Bulge (mm)	0			Average 300mm DP.					
Measured At Ring No.									
Abrasion (Y/N)	No								
Circumferential Seams		8	8						
Separation (mm)	0								
Longitudinal Seams		8	8						
Total No. of Cracked Rings	0			1					
Total No. of Rings with Two Cracked Seams	0			3N stagger at roof only.					
Min. Remaining Steel Between Cracks (mm)									
Proper Lap (Y/N)	Yes								
Longitudinal Stagger (Y/N)	No								
Coating		7	7						
Corrosion By Soil (Y/N)	No		1						
Corrosion By Water (Y/N)	No								
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Brid	dqe Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, S			
Fish Passage Adequacy		5	Х	
Baffle		X	X	
(Type :)			~	
Waterway Adequacy		5	5	
Icing (Y/N)	No		5	
	No			
Silting (Y/N)	No			
Drift (Y/N)	INU	8	0	
Barrel General Rating			8	
		D	ownstr	ream End
Culvert Component			Now	Explanation of Condition
Direction		N		North.
End Treatment (Concrete, Steel, Others, None)	End Treatment (Concrete, Steel, STEEL			
Headwall		Х	X	
Collar			Х	
Wingwalls		X	X	
(Shape :)				
Cutoff Wall			Х	(Asphalt pad at outlet). Covered in pit run.
Bevel End	1	8	8	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm) 300				
Scour Protection		7	7	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 500)				
Scour/Erosion		7	7	
Beavers (Y/N)	No			
Downstream End General Ratin	ng	7	7	
			Now	re Usage Explanation of Condition
Channel (U/S and D/S)		Last	NOW	
Alignment		8	8	Also used as a cattlepass. Guide fencing detached at SW.
Bank Stability			5	
HWM (m below Top of Culvert) -0.5				(From 2010 flood 0.5m above crown)
Drift (Y/N)	Yes			(Approx 1.2m freeboard u/s-940317) Debris on fences both ends.
Channel Bottom AGGRADING Degrading/Aggrading				
Beavers (Y/N) No				
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :				
Channel General Rating			8	
			Ŭ	

Alberta Transportation

			Maintenance Reco	ommenda	ations					
Inspector Recommendations	Ye	ear	Inspector Comments		Department Con	nments	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		13	Repair SW guide fencing when used at pass.	t cattle						
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)		8.9/88.9	9 Sufficiency Rating (Last/Nor (%)	w) 7	5.7/75.7	Est. Repl. Yr	2042	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	Garry Rob	Garry Roberts			revious Assistant's Name					
Next Inspection Date	08-Nov-20	013	P	revious Ir	nspection Date	13-Jul-2010				
Inspection Cycle (Default) (months) 21										
Comment										