Bridge Culvert Inspection												
Bridge File Number 75069 -	1 Bridge Culve	rt			Form Type			CUL1				
Year Built 1993					Lot No.			4				
Bridge or Town Name RANIER	?				Inspec	or Name		Jon Davies				
	RIGATION C,	WATERC	RS-IC			or Class		BR CLS B				
	1 18.792				Assistant Name							
Water Body Cl./Year					Assistant Class							
Navigabil. Cl./Year					Inspection Date			11-Jan-2012				
	C 33 TWP 16 F	RGE 15 W	/4M		Data Entry By			Anne Roberts				
Longitude, Latitude -112:01	:04, 50:23:26				Data Entry Date			25-Feb-2012				
Road Authority Alberta	Transportation	(AIT)				Reviewer Name Garry Roberts						
Contract Main. Area CMA23					Review Date 2			20-Jan-2012				
Clear Roadway/Skew 11.3 / 2	0 deg. (RHF)				Dept. Reviewer Name			Tim Davies				
AADT/Year 1,780 /	2010 (A)				Dept. Review Date			11-Mar-2012				
Road Classification RAU-21	1.8-110				Follow-Up By							
Detour Length (km) 3												
Bridge Culvert Information												
Number of Culverts	1											
Pipe # Barrel	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1 MAIN	6287	3888		RPE		40.8		152X51	4.0	ELLIPSE		
Special Features												
Special Features Comment												
LICTO A CO. L			Uti	ilities (L	ocated	at)						
Utility Attachments					0							
Telephone W R/W					Gas							
Power						Municipal Problem (Y/N) No						
Others Fibre entire we	-4 -1:41-			Problei	n (Y/N)	No						
Remarks Fibre optic we	st alteri	Λ.	nnroo	oh Boo	d / Emb	ankment						
		A	Last	Now		ation of		ion				
Horizontal Alignment			9	9	LAPIGI	ation or	Oonan					
Vertical Alignment			9	9	-							
Roadway Width (m)												
Embankment			8	6	4:1 @ '	W						
Sideslope (:1)	3.0				0	•						
(Height of Cover(m) : <b>1.4</b> )	0.0				1							
Guardrail (Y/N)	Yes				2 LAYE	RS						
Approach Road / Embankmen	nt General Rat	ing	9	9								
				Upstre	am End							
Culvert Component			Last	Now	1	ation of	Condi	ion				
			W									
Direction												
Direction End Treatment (Concrete, Stee	I, CONCRETE											
Direction	I, CONCRETE		8	6								
Direction End Treatment (Concrete, Stee Others, None)	I, CONCRETE		8 9	6 7								
Direction  End Treatment (Concrete, Stee Others, None)  Headwall  Collar	I, CONCRETE		9	7								
Direction  End Treatment (Concrete, Stee Others, None)  Headwall	I, CONCRETE											

			Upstre	am End					
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		6	6						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	1000								
Scour Protection		6	6						
(Type : RIP RAP)									
(Avg. Rock Size(mm) : <b>450</b> )									
Scour/Erosion		6	5	Minor slope instability at SW					
Beavers (Y/N)	No								
Upstream End General Rating	L	6	6						
opstream End Ocheral Rating									
				Ivert Barrel					
Culvert Component				Explanation of Condition					
(Pipe # : 1, Primary Span, Loca		Span (mm	): 6287	7, Rise (mm): 3888, Type: RPE)					
Barrel Last Accessible Date	11-Jan-2012								
Special Features									
Special Feature									
(Type:)				-					
Special Feature									
(Type:)									
Roof		N	7						
Measured Rise (mm)	3183	IN							
				Estimate					
Measured At Ring No.	5			Estillate					
Sag (mm)	2								
Percent Sag									
Sidewall		N	7						
Measured Span (mm)	6393								
Measured At Ring No.	6			_					
Deflection (mm)	106			_					
Percent Deflection	2		1						
Floor	1-	N	N	Ice covered					
Bulge (mm)	0			-					
Measured At Ring No.				-					
Abrasion (Y/N)	No								
Circumferential Seams		N	6						
Separation (mm)	0								
Longitudinal Seams		N	7						
Total No. of Cracked Rings	0								
Total No. of Rings with Two Cracked Seams				2N eta man et mat					
Min. Remaining Steel Between Cracks (mm)				3N stagger at roof					
Proper Lap (Y/N)	Yes								
Longitudinal Stagger (Y/N)	No								
Coating		N	N	(Corrosion with some pitting on the floor 2002/10/06) Efflorescence visible at 25% of roof					
Corrosion By Soil (Y/N)	Yes			Efflorescence visible at 25% of roof					
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								

Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe #: 1, Primary Span, Locat	tion Code: MAIN, Sp	an (mm	): 6287	, Rise (mm): 3888, Type: RPE)						
Fish Passage Adequacy			7							
Baffle			Х							
(Type:)										
Waterway Adequacy		9	7							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		N	7							
_										
				eam End						
Culvert Component		Last	Now	Explanation of Condition						
Direction End Treatment (Concrete, Steel, Others, None)	CONCRETE	E								
Headwall		8	7							
Ticaawaii			_ ′							
Collar			5	2.0 to 10.0 mm wide cracks- 3 at North and 1 at South						
Wingwalls		X	X							
(Shape: )										
Cutoff Wall		N	N							
Bevel End			6							
Heaving (mm)	0									
Invert Above/Below Stream Bed	nvert Above/Below Stream Bed BELOW									
Above/Below (mm)	Above/Below (mm) 1000									
Scour Protection		8	7							
(Type : <b>RIP RAP</b> )										
(Avg. Rock Size(mm) : 350)										
Scour/Erosion		8	7							
Beavers (Y/N)	No									
Downstream End General Ratio	ng	8	5							
		S	Structu	re Usage						
			Now	Explanation of Condition						
Channel (U/S and D/S)		1 - 0.0 1	111011							
Alignment			7	Rocks placed across channel 10 m u/s of bevel.						
Bank Stability			5	Starting to scour at 8m long section at SE						
HWM (m below Top of Culvert) 2.6				Drop structure 100m U/S						
Drift (Y/N)	No			No visible HWM						
Channel Bottom Degrading/Aggrading	DEGRADING									
Beavers (Y/N)	No									
(Fish Compensation Measure 1 :	NONE)									
(Fish Compensation Measure 2 :	NONE)									
Channel General Rating			7							
			_							

Maintenance Recommendations											
Inspector Recommendations Year Inspector Comments			r Comments		Department Com	ments		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING											
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTC	)FF										
REPAIR SEAMS											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now) (%)		55.6/77.8 Suffic (%)		Sufficiency Rating (I	_ast/Now)	72.4/72.7	Est. Repl. Yr 2042		Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection						Department Comments					
Maintenance Reviewed By						Date		E	Estimated Tota	I 0	
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name Tom Carey Pre			Previous	ous Assistant's Name							
Next Inspection Date 11-Oct-2013		Previous	vious Inspection Date 22-Jun-2010								
Inspection Cycle (Default) (months)	21										
Comment											