Bridge Culvert Inspection													
Bridge File Number 73207 -1 E			1 Bridge Culvert				Form Type		CUL1				
Year Built 1953							Lot No.			4			
Bridge or Town	Name	ROSED	DALE				Inspector Name		Owen Salava				
Located Over		Tributar	y to RED DEEF CRS-ST	R RIVER,	3.31,	Inspector		tor Class		BR CLS A			
Located On		10:08 C	1 9.108				Assista	ant Name					
Water Body Cl./	/Year							Assistant Class		04 NL 0044			
Navigabil, Cl./Y	ear						Inspection Date		01-Nov-2011				
Legal Land Location SW SE(C 22 TWP 28 R	GE 19 W	/4M		Data Entry By		Marcia Chavez					
Longitude, Latitude -112:36:		:18. 51:24:15					Data Entry Date		29-Nov-2011				
Road Authority Albe		Alberta	berta Transportation (AIT)					Review Data		John O'Brien			
Contract Main. Area CMA		CMA21			Review Date		14-Nov-2011						
Clear Roadway/Skew 9.3		9.3 / 20	9.3 / 20 deg. (RHF)					Reviewer	Name	Andrew Smikles			
AADT/Year		1.020 / 2010 (A)					Dept. Review Date		02-Dec-2011				
Road Classifica	ition	RAU-20	U-209-110					Follow-Up By					
Detour Length ((km)	10											
Bridge Culvert Information													
Number of Culverts 1													
Pipe #	Barrel		Span	Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		1448	1600		SPE		63.7		152X51	2.8	ELLIPSE	
Special Feature	es												
Special Feature	es Comn	nent											
					Uti	ilities (L	ocated	at)					
Utility Attachments													
Telephone	South					Gas		Cross					
Power	North	เ รเนษ.											
Others													
Remarks	Kemarks												
						Now	Explanation of Condition						
Horizontal Alignment					7	7	Curve @ both ends.						
Vertical Alignment				8	8	Residence to NE.							
Roadway Width (m)		9.300											
Embankment						7							
Sideslope (:1)		3.0										
(Height of Cov	ver(m) :	8)	1										
Guardrail (Y/N)			No										
Approach Roa	d / Emb	ankmer	nt General Rating		7	7							
Culvert Compo	nont				Lact	Now	Explor	ation of	Condi	tion			
Direction	леп				S	INOW	Елріаі		Conun				
End Treatment (Concrete, Steel, STEEL													
Headwall				X	X								
Collar					X	Х							
Wingwalls				X	X								
(Shape :)													
Cutoff Wall					X	Х							

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Upstream End										
Culvert Component		Last	Now	Explanation of Condition						
Bevel End		4	4	Rust pitting & 12mm dia perforations in floor.						
Heaving (mm)	100									
Invert Above/Below Stream Bed	BELOW			_						
Above/Below (mm) 300			-							
Scour Protection		6	6	Some sparce rock.						
(Type : NATURAL)										
(Avg. Rock Size(mm) : 200)										
Scour/Erosion		6	6							
Beavers (Y/N)	No									
Upstream End General Rating		4	4							
		Bric	dae Cu	Ivert Barrel						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	in (mm): 1448	B, Rise (mm): 1600, Type: SPE)						
Barrel Last Accessible Date	01-Nov-2011		,	Span 1525 x rise 1465 @ midspan						
Special Features										
Special Feature										
(Туре :)		1	1	_						
Special Feature										
(Type :)										
Roof		4	4	Stable at this time.						
Measured Rise (mm)										
Measured At Ring No. 12										
Sag (mm)	135			8.4%						
Percent Sag 8										
Sidewall		7	7							
Measured Span (mm)	1525									
Measured At Ring No.	12									
Deflection (mm)	77			5.3%						
Percent Deflection	5									
Floor		N	6	12mm perforation at floor of inlet bevel.						
Bulge (mm)	0									
Measured At Ring No.										
Abrasion (Y/N)	No									
Circumferential Seams		6	6							
Separation (mm)	0									
Longitudinal Seams			5	Extension at D/S has missing bolts & nuts with poor nesting.						
Total No. of Cracked Rings	0									
Total No. of Rings with Two Cracked Seams	0									
Min. Remaining Steel Between Cracks (mm)				_						
Proper Lap (Y/N) No										
Longitudinal Stagger (Y/N) Yes										
Coating			4	Stains at seams. Superficial rust on barrel floor. Corrosion pitting &						
Corrosion By Soil (Y/N)	Yes			small perforations @ bevels only. Alkali corrosion at roof and sidewall seams at extensions.						
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	NEG									
Ponding (Y/N)	No									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	an (mm): 1448	, Rise (mm): 1600, Type: SPE)					
Fish Passage Adequacy		5	5						
Baffle		Х	Х						
(Туре :)									
Waterway Adequacy			6	At D/S end.					
Icing (Y/N)	No								
Silting (Y/N)	Yes								
Drift (Y/N)	No								
Barrel General Rating		4	4						
		D	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Direction	1	N							
End Treatment (Concrete, Steel, Others, None)	STEEL		-						
Headwall		X	X						
Collar		X	X						
Wingwalls		X	X						
(Shape :)									
Cutoff Wall		X	X						
Bevel End		5	5						
Heaving (mm)	0								
Invert Above/Below Stream Bed	ABOVE								
Above/Below (mm)	800								
Scour Protection		6	6	Class 2 rock lined ditch @ NW.					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 300)			1						
Scour/Erosion			6						
Beavers (Y/N)	ivers (Y/N) No								
Downstream End General Ratin	ng	5	5						
		S	structur	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)			1						
Alignment		7	7						
Bank Stability			5	Banks cut @ 90 degree.					
HWM (m below Top of Culvert)				No visible HWM.					
Drift (Y/N) No									
Channel Bottom DEGRADING Degrading/Aggrading									
Beavers (Y/N) No									
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		7	7						

Maintenance Recommendations												
Inspector Recommendations		Year	Inspector Comm	nents		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/No (%)	ow)	44.4/44.4	4 Suffici (%)	Sufficiency Rating (Last/Now) (%)		52.1/52.2	2.2 Est. Repl. Yr 2020		Maint. Reqd. (Y/N)		No	
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 Ov		Owen Salava				Previous Assistant's Name						
Next Inspection Date		01-Aug-2013			Previous	Inspection Date						
Inspection Cycle (Default) (months) 2												
Comment												