					Brido	e Culve	ert Inspe	ection				
Bridge File Number 80748 -1 Bridge Culvert				Dirag	,o oanv	Form T		CUL1				
Year Built		1984						Lot No. 1				
Bridge or Towr	n Name		N					tor Name	Owen Salava			
Located Over			RD CREEK,	6.48.4, W	ATER	CRS-	1	Inspector Class BR CLS A				
		ST	ST					Assistant Name				
Located On		29:02 C1	1 19.174					int Class				
Water Body CI	./Year							Inspection Date 08-Nov-2012				
Navigabil. Cl./\	ear_						Data E		Marcia Chave	ez		
Legal Land Loc	cation	SE SEC	25 TWP 55 R	GE 18 W	4M			ntry Date	21-Nov-2012	· -		
Longitude, Lati	tude	-112:32:	21, 53:46:27					er Name	John O'Brien			
Road Authority	'	Alberta 7	Fransportation	(AIT)			Review		15-Nov-2012			
Contract Main.	Area	CMA14					Dept. F	Reviewer Nam	Andrew Smikles			
Clear Roadway	//Skew	12.5 /						Review Date	26-Nov-2012			
AADT/Year		1,000 / 2	2011 (A)				Follow-		20-1407-2012			
Road Classifica	ation	RCU-209	9-110				. Show op by					
Detour Length	(km)	5										
Bridge Culver												
Number of Cul	1	1										
Pipe #	Barrel	5	Span	Rise (or	Dia.)	Туре		Length	Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN 1		1880	1260		FP		23	68X13	3.5	ARCH	
Special Features VERT STEEL STRUTS												
Special Features Comment												
Ороска: г сала:												
					Ut	ilities (L	ocated	at)				
Utility Attachme	ents											
Telephone	South	ditch.					Gas					
Power	2 wire	s 19m No			Munici	oal						
Others							Problei	m (Y/N) No				
Remarks												
				A				ankment				
							Explan	ation of Con	dition			
Horizontal Alig					9	9	-					
Vertical Alignment			8	8								
Roadway Width (m)		12.500										
Embankment					5	5	Wide tr	ansverse crac	k in roadway AC	CP over, and ea	ach side, of pipe.	
Embankment Sideslope (:1) 3.0				5 5 Wide transverse crack in roadway ACP over, and each side previously sealed.						acir ciac, ci pipo,		
(Height of Co		: 1)										
Guardrail (Y/N)		,	No									
Approach Roa	ad / Eml	bankmen	t General Ra	tina	8	8						
				J								
Culvert Com	oner t				Loca		am End		dition			
Culvert Comp Direction	onent				Last	INOW	⊏xpian	ation of Con	aitlOH			
End Treatment	(Concre	ete Steel	STEFL		3							
Others, None)	. (Concr		, OTELL									
Headwall					Х	X						
Collar					X	X						
Wingwalls					Х	Х						
(Shape:)												
Cutoff Wall					X	X						

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End	'	5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed				
Above/Below (mm)	0			
Scour Protection		4	N	Well vegetated.
(Type : RIP RAP)				(Gap under pipe. Evidence of piping (photo). 07Dec2010).
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		4	N	
Beavers (Y/N)	No			
				00 : 1/ 070 0040
Upstream End General Rating		4	4	GR carried forward from 07Dec2010.
		Brid	dae Cu	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, S			
Barrel Last Accessible Date	08-Nov-2012			
Special Features				
Special Feature		X	6	
(Type : VERT STEEL STRUTS)				
Special Feature				
(Type :)				
Roof		3	3	Strutted - no action.
Measured Rise (mm)	1020			
Measured At Ring No.	2			
Sag (mm)	140			
Percent Sag	11			
Sidewall		3	3	Sidewall buckled, hence strutted - photo - no action.
Measured Span (mm)	2000			F
Measured At Ring No.	2			
Deflection (mm)	120			
Percent Deflection	6			
Floor	0	4	4	Floor appears to have bulged prior to strut being installed. Strut
Bulge (mm)	100	4	4	installed on top of floor bulge, length of pipe.
Measured At Ring No.	2			
Abrasion (Y/N)	No			
	INO	7	7	
Circumferential Seams	20	7	7	-
Separation (mm)	30	.,		
Longitudinal Seams		X	X	-
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		3	3	Heavy scaling, flaking (photo).
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

80748 -1 Bridge Culvert

		Bric		Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 1880	, Rise (mm): 1260, Type: FP)
Fish Passage Adequacy		X	X	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		4	4	1 point increase for struts.
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		N		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		5	5	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	200			
Scour Protection		7	N	Well vegetated. Snow covered.
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 250)				
Scour/Erosion		7	N	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	5	5	
		s	tructur	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)			1	
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading				Unknown.
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		7	7	

			Maintenance Recommendations	nmendations				
Inspector Recommendations	Year		Inspector Comments	Department Comments	mments	Target Year	Est. Cost	Cat#
SHOTCRETE REPAIRS								
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION								
INSTALL CONCRETE/STEEL LINING	(0							
INSTALL STRUTS								
INSTALL CONCRETE COLLAR/CUTOFF	OFF							
REPAIR SEAMS								
OTHER ACTION	2013		Restore clay seal at inlet.					
OTHER ACTION	2015		Consider concrete floor if steel perforates or softens.	sor				
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/Now) (%)	ow) 44.4/44.4	44.4	Sufficiency Rating (Last/Now) (%)) 53.1/53.1	Est. Repl. Yr 2021	Maint. Reqd. (Y/N)		o N
Special This culvert was poorly installed. Comments for Monitor shape, struts & floor corrosion; shape stable with Next Inspection	oorly installed. Its & floor corrc	osion; shap	e stable with struts.	Department Comments				
Maintenance Reviewed By				Date		Estimated Total	0	
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								
Proposed Action								
Previous Inspector's Name	Dave Lam		Pr	Previous Assistant's Name				
Next Inspection Date	08-Aug-2014		Pr	Previous Inspection Date	07-Dec-2010			
Inspection Cycle (Default) (months)	21							
Comment								

			Maintenance Recommen	dations					
Inspector Recommendations	Y	'ear	Inspector Comments	Department C	comments		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LININ	IG								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CU	TOFF								
REPAIR SEAMS									
OTHER ACTION		013	Restore clay seal at inlet.	Next time on s					
OTHER ACTION	20	015	Consider concrete floor if steel perforates or softens.	Defer, replacement programmed and no perforations currently present in the floor.			2021		
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last (%)	Now) 44	4.4/44.	Sufficiency Rating (Last/Now) (%)	53.1/53.1	Est. Repl.	. Yr 2021	Maint. Re	eqd. (Y/N)	No
Special Comments for Next Inspection This culvert was p	oorly instal uts & floor	lled. corros	ion; shape stable with struts.	Department Comments	Programmed	for replacemen	nt in 2021.		
Maintenance Reviewed By	Andrew S	Smikles	S	Date	19-Dec-2012		Estimated Total	al O	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Dave Lar	m	Previous	s Assistant's Name					
Next Inspection Date	08-Aug-2	2014	Previous	Inspection Date	e 07-De	ec-2010			
Inspection Cycle (Default) (months)	21								
Comment									