					Brida	e Culve	art Insn	action							
Bridge File Number 72877 -1 Bridge Culvert					Dilag	e Guive	Form Type			CUL1					
Year Built 1978								• •		2					
Bridge or Town Name GORDONDALE							Lot No. Inspector Name		Brian Pientsch						
Located Over															
Localed Over		9 10 07 9 0 \\/ATEPCPS_ST					Inspector Class Assistant Name			BR CLS A Brian Cote					
Located On 49:02 C1 28.269							Assistant Class		Brian Cote						
Water Body Cl./Year						Inspection Date				06-Jul-2011					
Navigabil. Cl./Year							Data Entry By			Lisa Fairhurst					
Legal Land Location SW			SM/ SEC 13 TM/D 70 DGE 11 M/6M												
Longitude, Latitude -1		-110·35·38 55·50·35						Data Entry Date Reviewer Name		12-Aug-2011					
		Alberta Transportation (AIT)								Arnold Assenheimer 13-Jul-2011					
•			^MA05						Review Date						
			deg. (RHF)			Dept. Reviewer Name			<u>ın</u>						
AADT/Year	,	1,140 / 2				Dept. Review Date		18-Nov-2011							
Road Classific	ation	RAU-210	. ,				Follow-Up By								
Detour Length		6					-								
Bridge Culver															
Number of Cul		1													
Pipe #	Barrel		Span Rise (or		Dia.)	Туре	Length			Corr. Profile	PI./Slab Thickness	Shape			
1	MAIN	- 1500		MP			50.6		68X13	2.8	ROUND				
Special Featur															
Special Featur															
ı															
					Uti	ilities (L	ocated	at)							
Utility Attachm															
Telephone							Gas 80m East 150m West								
Power	21m S	South of cl-3 wire					Municipal								
Others							Proble	m (Y/N)	No						
Remarks															
				A				ankment	!'						
Harizantal Alia	nmant						Explanation of Condition								
Horizontal Alignment					7	7	Distant curve (400 m to the west). Farm approach 100m E. N Side.								
Vertical Alignment Roadway Width (m) 10.200			8	8											
Noadway Widt	(111)		10.200												
Embankment					8	8									
Sideslope (_	Sideslope (:1) 3.0														
(Height of Co	over(m)	3.5)													
Guardrail (Y/N))		No												
Approach Roa	ad / Eml	pankment	t General Rat	ing	7	7									
						Unetre	l am End								
Culvert Comp	onent				Last	Now		ation of (Condi	tion					
Direction					S										
End Treatment Others, None)	t (Concre	ete, Steel,	STEEL				-								
Headwall			Х	Х											
Collar				Х	Х										
Wingwalls				Х	Х										
(Shape:)															
Cutoff Wall				Х	Х										

72877 -1 Bridge Culvert

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		5	4	
Heaving (mm)	100			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	50			
Scour Protection		3	3	Erosion around bevel and undermined for 1m length.(photo)
(Type : RIP RAP)				Trosion around bever and undermined for fin length.(prioto)
(Avg. Rock Size(mm) : 200)				
Scour/Erosion		4	3	Bevel undermined.
Scoul/Elosion		4		bever undermined.
Beavers (Y/N)	No			
Upstream End General Rating		4	3	
		Bri	dae Cu	lvert Barrel
Culvert Component			Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN. S			, Rise (mm): 1500, Type: MP)
Barrel Last Accessible Date	06-Jul-2011	, , , , , , , , , , , , , , , , , , ,	,	
Special Features				
Special Feature		6	6	CSP EXTENSIONS AT BOTH ENDS.
(Type: VERT STEEL STRUTS)				Steel struts installed
Special Feature				
(Type:)				
Roof		3	3	Measured approx. 12m from U/S end.
Measured Rise (mm)	1290			
Measured At Ring No.	1			
Sag (mm)	210			Culvert strutted.
Percent Sag	14			
Sidewall		3	3	
Measured Span (mm)	1715			Measured approx. 12m from U/S end.
Measured At Ring No.	1			
Deflection (mm)	215			
Percent Deflection	14			
Floor		5	5	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		3	3	Bottom of u/s coupler is completely rusted out. (photo)
Separation (mm)	200	3	<u> </u>	Dottom of the couplet is completely fusion out. (prioto)
	200	X	V	CHILVEDT HAS A HODIZONTAL CDACK ALONG WELD HIGT N
Longitudinal Seams		Λ	X	CULVERT HAS A HORIZONTAL CRACK ALONG WELD, JUST N. OF 4th JOINT 20011012)
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		4	4	Pitting and scaling along bottom 1/3 of floor.
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

72877 -1 Bridge Culvert

			lge Cu	lvert Barrel						
•		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Locat	ion Code: MAIN, Spa	n (mm):	, Rise (mm): 1500, Type: MP)						
Fish Passage Adequacy		7	7							
Baffle		Х	Х							
(Type:)										
Waterway Adequacy		5	5							
Icing (Y/N)	No									
Silting (Y/N)	No									
Drift (Y/N)	No									
Barrel General Rating		4	4	G.R raised by 1pts due to struts.						
		D	ownstr	eam End						
Culvert Component		Last	Now	Explanation of Condition						
Direction		N								
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	Х							
Collar		Х	N							
Wingwalls		X	X							
(Shape:)										
Cutoff Wall		Х	Х							
Bevel End		5	5							
Heaving (mm)	200									
Invert Above/Below Stream Bed	ABOVE									
Above/Below (mm)	200									
Scour Protection		7	7							
(Type : RIP RAP)										
(Avg. Rock Size(mm) : 200)										
Scour/Erosion		7	7							
Beavers (Y/N)	No									
Downstream End General Ratin	ng	5	5							
		s		re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment		7	7							
Bank Stability		8	8							
HWM (m below Top of Culvert)				(Drift on top of struts indicates pipe flow full Oct 27 2009)						
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							

				Mainte	nance Reco	mmend	ations							
Inspector Recommendations	Y	Year Inspector Comments				Department Comments						'ear	Est. Cost	Cat #
SHOTCRETE REPAIRS														
PLACE ADDITIONAL RIP RAP														
REMOVE DRIFT ACCUMULATION														
INSTALL CONCRETE/STEEL LINING														
INSTALL STRUTS														
INSTALL CONCRETE COLLAR/CUTOFF														
REPAIR SEAMS														
OTHER ACTION		011	Install internal coupler to prevent loss o rusted out coupler.			fill @								
OTHER ACTION														
OTHER ACTION														
OTHER ACTION														
Structural Condition Rating (Last/N (%)	ow) 4			Sufficiency Rating (Last/Now) (%)		v) 4	49.6/48.6 Est. Repl. Yr		t. Repl. Yr	2020	2020 Maint. Re		qd. (Y/N)	Yes
Special Monitor horizontal of Monitor barrel shap Monitor barrel s	crack, East be	t side, n	near cl. 20	001-01-12			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 Sh		Shane Hall				Previous Assistant's Name								
Next Inspection Date	06-Apr-2013 Pr					evious Inspection Date 27-Oct-2009								
Inspection Cycle (Default) (months) 21														
Comment														