					Bridg	e C <u>ulve</u>	ert Insp	ection						
Bridge File Number 00285 -1 Bridge Culvert							Form Type			CUL1				
Year Built							Lot No.			2				
Bridge or Town Name GLEICHEN							Inspector Name			Jon Davies				
Located Over		TRIBU1 2.13.14	TARY TO CRO .9, WATERCR	WFOOT C S-ST	REE	Κ ,	· · ·	tor Class		BR CLS B				
Located On		1:14 R1	15.526;1:14 L	1 15.561			Assistant Name Assistant Class							
Water Body Cl.	/Year		· · ·							10 Fab 2012				
Navigabil. CI./Y							· · ·	tion Date		16-Feb-2012				
Legal Land Location SW SEC 6 TWP 24 RGE 22 W4M								Data Entry By Data Entry Date		Lauren Korte				
Longitude, Latitude -113:04:28, 51:00:44									18-Mar-2012					
Road Authority Alberta Transportation (AIT)							Review Date			Garry Roberts				
Contract Main. Area CMA30									27-Feb-2012					
Clear Roadway/Skew 24.8 / 3 deg. (RHF)								Dept. Reviewer Name						
AADT/Year 5,940 / 2010 (A)						Dept. Review Date			22-Mar-2012					
Road Classifica	ation		12.4-120			Follow-Up By								
Detour Length (km) 1														
Bridge Culvert	<u>, ,</u>	ation					1							
Number of Culv			1											
Pipe #	Barrel		Span	Rise (or I	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		6500	3500		RPE		67.1		152X51	3.0,5.0,4.0	ELLIPSE		
Special Feature	es										•			
Special Feature	es Comi	ment												
					Uti	ilities (L	ocated	at)						
Utility Attachme							-							
Telephone	In We	st ditch a	litch and West ROW. Gas 150m South crossing.											
Power						Munici								
Others H2O station @ SW. Remarks Fibre optics East RW.							Proble	m (Y/N)	No					
Remarks	Fibre	optics Ea	ast RW.	٨		ah Dee	d / Emala	onlymont						
	Last			/ Embankment Explanation of Condition										
Horizontal Alig	Horizontal Alignment				8	7		Sag curve with 150m sight distance. Intersection 300m South.						
Vertical Alignment					6	6	EBĽ to N. 400 mm CSP 15 m North @ W/B lanes.							
Roadway Width	Roadway Width (m) 24.800						400 m							
Embankment					7	6								
Sideslope (•1)		4.5			0								
(Height of Co		.)					-							
Guardrail (Y/N)		· /	Yes											
Approach Roa	d / Eml	bankme	nt General Ra	ting	7	6								
						Unstre	am Enc							
Culvert Comp	onent				Last	Now		nation of	Condi	tion				
Direction			W		West end.									
End Treatment (Concrete, Steel, CONCRETE Others, None)														
Headwall					4	4	Cracki	Cracking with 200 mm spalls at top corners.						
Collar					4	4	Cracks in collar.							
					1									
Wingwalls					Х	X								

Alberta Transportation

	Upstream End									
Culvert Component		Last	Now	Explanation of Condition						
Cutoff Wall			N	Buried.						
Bevel End		5	5							
Heaving (mm)	0									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	1800									
Scour Protection		7	7	Heavily ingrown.						
(Type : NATURAL)										
(Avg. Rock Size(mm) :)										
Scour/Erosion		7	7							
Beavers (Y/N)	No									
Upstream End General Rating		4	4							
		Brie	dge Cu	lvert Barrel						
Culvert Component		Last		Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm): 6500	, Rise (mm): 3500, Type: RPE)						
Barrel Last Accessible Date	16-Feb-2012			1800mm of silt w/. Ice cover. Approximately.						
Special Features										
Special Feature				Ears at Ring 8. Previous roof paint spot used. Rise to roof from string						
(Туре :)				line chord established 948 mm. Problem with South bolt ear. Not anchored well.						
Special Feature										
(Туре :)										
Roof		N	4	Roof seam @ Rings 7, 9, & 11 cusping 50mm. 15mm gap in						
Measured Rise (mm)				between plates.						
Measured At Ring No.				Grout nipples U/S 1/2. Roof sag Est 7%.						
Sag (mm)	250			Roof shape worst R1-7. Adequate R8 to R17.						
Percent Sag	7			-						
Sidewall	1	N	4	Sidewall cusping inward 50mm @ North @ Ring #7.						
Measured Span (mm)			_ _	Estimate.						
Measured At Ring No.				No span measurement possible due to silt at estimated worst location.						
	200									
Deflection (mm) Percent Deflection	200									
Floor			NI	Cilt and ice acyared throughout						
		N	N	Silt and ice covered throughout.						
Bulge (mm)				-						
Measured At Ring No.				-						
Abrasion (Y/N)		• •	-							
Circumferential Seams	0	N	5							
Separation (mm)	0									
Longitudinal Seams	-	N	4	Cusping 50mm @ roof seam @ Ring 7,9 & 11. Some undulations of roof from plate to plate.						
Total No. of Cracked Rings	0									
Total No. of Rings with Two Cracked Seams				-						
Min. Remaining Steel Between Cracks (mm)				-						
Proper Lap (Y/N)	No			-						
Longitudinal Stagger (Y/N) No										
Coating		5	5	Alkaline stains through seams.						
Corrosion By Soil (Y/N)	Yes			Corrosion at waterline.						
Corrosion By Water (Y/N)	Yes									
Camber POS/ZERO/NEG	ZERO									

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

00285 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component				Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 6500	, Rise (mm): 3500, Type: RPE)					
Ponding (Y/N)	No								
Fish Passage Adequacy		7	7						
Baffle		Х	Х						
(Type :)									
Waterway Adequacy		6	5	1.7m Deep silt average.					
Icing (Y/N)	No								
Silting (Y/N)	Yes								
Drift (Y/N)	No								
Barrel General Rating		4	4						
		ם ח	ownstr	ream End					
Culvert Component		1	Now	Explanation of Condition					
Direction		E		East end.					
End Treatment (Concrete, Steel, Others, None)	CONCRETE	_							
Headwall		7	7						
Collar	Collar								
Wingwalls		X	Х						
(Shape :)									
Cutoff Wall			X						
Bevel End		5	5						
Heaving (mm)	0								
Invert Above/Below Stream Bed									
Above/Below (mm)	1500								
Scour Protection			7						
(Type : NATURAL)									
(Avg. Rock Size(mm) :)									
Scour/Erosion		7	7						
Beavers (Y/N)	No								
Downstream End General Ration	ng	5	5						
		9	tructu	re Usage					
		1	1	Explanation of Condition					
Channel (U/S and D/S)	1	2401							
Alignment		7	7	Steep cut @ SE and SW.					
				(The channel has built up 1.0 m of silt since culvert was installed) - 940322					
Bank Stability			5						
HWM (m below Top of Culvert)				No HWM visible.					
Drift (Y/N)	No								
Channel Bottom AGGRADING Degrading/Aggrading				_					
Beavers (Y/N)	No								
(Fish Compensation Measure 1 :	· · · · · · · · · · · · · · · · · · ·			-					
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating			7						

Maintenance Recommendations											
Inspector Recommendations	Year	Inspecto	or Comments		Department Com	iments	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINI	NG										
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CI	ITOFF										
REPAIR SEAMS											
OTHER ACTION	2012	Conside sag.	r installing chord @ roof to re	ecord roof							
OTHER ACTION		2012	Dewater rise and	and/or Level 2 inspection to span measurement.	get actual						
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Las (%)	44.4/44.	4	Sufficiency Rating (Last/N (%)	low) 5	53.1/49.9	Est. Repl. Yr	2024	Maint. Re	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	Rusu			Previous A	Assistant's Name						
		16-Nov-2013				s Inspection Date 08-Aug-2010					
Inspection Cycle (Default) (months) 21											
Comment											