					Brida	e Culve	ert Inspectio	n						
Bridge File Number 00525 -1 Bridge Culvert			~		Form Type	-	CUL1							
Year Built 1961						Lot No.		1						
Bridge or Town	Name	BRUDE	RHEIM				Inspector N	ame	Jason Saly					
Located Over							Inspector Class		BR CLS A					
		ST					Assistant Name							
Located On 45:04 C1 8			8.230				Assistant Class							
Water Body Cl./Year						Inspection [23-Jan-2013	23-Jan-2013					
Navigabil. Cl./Year							Data Entry		Marcia Chave	Z				
Legal Land Loc	ation	SW SEC	11 TWP 56 F	RGE 20 W	/4M		Data Entry		22-Feb-2013					
Longitude, Latit	tude	-112:52:	36, 53:49:13				Reviewer N		John O'Brien					
Road Authority Alberta T		ransportation	(AIT)			Review Dat	e	13-Feb-2013						
Contract Main.	Area	CMA14				Dept. Revie	wer Name	Chris Black						
Clear Roadway	/Skew	10.5 /					Dept. Review Date		28-Mar-2013					
AADT/Year		540 / 20	011 (A)				Follow-Up By							
Road Classifica	ation	RAU-210	D-110					,						
Detour Length	` '	3												
Bridge Culvert														
	nber of Culverts 1													
Pipe #	Barrel	8	Span	pan Rise (or		Type	Length		Corr. Profile	PI./Slab Thickness	Shape			
1 MAIN			7620	4496		AP	77 6	77.6		THICKIESS	ARCH			
1 MAIN 7620 449 Special Features			1100		7.0		<u> </u>	<u> </u>	<u> </u>	/ (COLI				
Special Feature		ment												
Opecial i catalo		TIOTIC												
					Ut	ilities (L	ocated at)							
Utility Attachme	ents													
Telephone Plowed in West ditch.						Gas								
Power 7 wire OH 20m East c/l (high voltage).						Municipal								
Others							Problem (Y	/N) No						
Remarks	"Beav	erhill Cre	ek" sign @ SE											
				Α			l / Embankn							
							Explanation of Condition							
Horizontal Align					7	7	Two farm approaches 70m South, 1 farm approach 150m North. Hill to North.							
	Vertical Alignment			7	7		-							
Roadway Width (m)			11.000											
Embankment					7	N								
Sideslope (:1)		3.0				1								
(Height of Co		6.9)					1							
Guardrail (Y/N) Yes						Minor creasing.								
,														
Approach Roa	d / Eml	oankmen	t General Rat	ing	7	7								
						Unstre	am End							
Culvert Compo	onent				Last	Now	Explanation	n of Cond	tion					
Direction			E											
End Treatment Others, None)	(Concre	ete, Steel	CONCRETE											
Headwall			7	7										
Collar			Х	Х										
Wingwalls			5	5	Separation of 150mm between barrel and wingwall.									
(Shape:)					Wings are o	cracking, m	inor.	-						
Cutoff Wall			N	N										

			Lingtro	om End					
Culvert Component				eam End Explanation of Condition					
•		Last X	Now	Explanation of Condition					
Bevel End		X	X						
Heaving (mm)	0			les coursed could not determine					
Invert Above/Below Stream Bed				Ice covered, could not determine.					
Above/Below (mm)			Ι						
Scour Protection		5 N		(Overgrown with vegetation. 06Jun2011) - Snow covered.					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 300)									
Scour/Erosion		5	N	(Very minor erosion gully @ SE wingwall, no problem. No scouring behind wingwall gap. 06Jun2011) - Snow covered.					
Beavers (Y/N)	No								
Upstream End General Rating		5	5						
		Brid	dae Cu	Ivert Barrel					
Culvert Component			T	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN. S			· · ·					
Barrel Last Accessible Date	14-Dec-1997	<u> </u>	,	Viewed barrel from each end, no major defects noticed.					
Barrer East / (Geessible Bate	14 000 1007			Ice within 900mm of roof at W end, 1.0m at E end.					
Special Features									
Special Feature									
(Type:)									
Special Feature									
(Type:)									
Roof		N	N	(The first & second const joints have spalls, none serious. 97/12/14).					
Measured Rise (mm)									
Measured At Ring No.									
Sag (mm)	0								
Percent Sag									
Sidewall		N	N						
Measured Span (mm)									
Measured At Ring No.									
Deflection (mm)	0								
Percent Deflection									
Floor		N	N						
Bulge (mm)		14	11						
Measured At Ring No.				(03/03/26)					
Abrasion (Y/N)	No			(05,05,20)					
	INU	N.I.	N.	(Cattlement from ingregoed fill at agents has growthed in gries?)					
Circumferential Seams	90	N	N	(Settlement from increased fill at center has resulted in misalignment of construction sections. The East is misaligned 110mm and the					
Separation (mm)	80			West is pulled apart 60mm. 1999/10/20).					
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		Х	Х						
Corrosion By Soil (Y/N)									
Corrosion By Water (Y/N)									
Camber POS/ZERO/NEG	NEG			(Negative camber of 640mm as calculated from measuring off of ice. 1999/10/20).					

Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe #: 1, Primary Span, Locat	tion Code: MAIN, Spa	ın (mm): 7620	, Rise (mm): 4496, Type: AP)					
Ponding (Y/N)	No								
Fish Passage Adequacy		7	7						
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		6	6						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	Yes								
Barrel General Rating			4	G.R. carried forward since 14Dec1997.					
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		W	'						
End Treatment (Concrete, Steel, Others, None)	CONCRETE								
Headwall			7						
Collar			Х						
Wingwalls		5	5	160mm separation of wingwall from barrel similar to U/S end.					
(Shape:)				Wings are cracking. Est 10mm cracks. Parging loose.					
Cutoff Wall		N	N						
Bevel End		X	X						
Heaving (mm)	0								
Invert Above/Below Stream Bed				Could not determine, ice covered.					
Above/Below (mm)									
Scour Protection			N	(Overgrown with vegetation. 06Jun2011).					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 300)			1						
Scour/Erosion			N						
Beavers (Y/N)	No								
Downstream End General Ratin	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) Yes				(Drift along headwall height. 03/03/26).					
Channel Bottom Degrading/Aggrading				Cannot determine. Beaver dam across channel, 60m U/S.					
Beavers (Y/N)	Yes								
(Fish Compensation Measure 1 :	·								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		7	7						

				Maintenance F	Recommend	dations						
Inspector Recommendations	Yea	ar	Inspector	r Comments	(COO)	Department Con	Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS										3.7		
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
INSTALL CONCRETE/STEEL LINING												
INSTALL STRUTS												
INSTALL CONCRETE COLLAR/CUTOFF												
REPAIR SEAMS												
OTHER ACTION		13	Consider	dewater to inspect floor.								
OTHER ACTION												
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/N (%)	ow) 44.	44.4/44.4 Si		Sufficiency Rating (Last/Now) (%)		55.0/55.0 Es		t. Repl. Yr	2031 Maint. R		leqd. (Y/N)	No
Special It has been 16yrs of Next Inspection	r about 9 cy	cles s	ince the b	parrel was accessed.		Department Comments						
Maintenance Reviewed By						Date				Estimated To	tal 0	
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name	Jason Saly	Jason Saly Previous										
		23-Oct-2014 Previous Ins						06-Jun-2011				
Inspection Cycle (Default) (months) 21												
Comment												