01947 -1 Bridge Culvert

					Brido	ie Culve	ert Inspe	ection					
Bridge File Nur	mber	01947 -1	Bridge Culver				Form T			CULE			
Year Built	11001	1955					Lot No.			4			
Bridge or Town Name STRATHMORE						Inspector Name			Jon Davies				
Located Over TRIBUTARY TO SERVICEBER				/ICEREDI		DEEK			BR CLS B				
3.33.9.			33 0 13 WATEDODS_ST				Assistant Name		DK CLS B				
Located On 1:12 L1 10.742;1:12 R1 10.743													
Water Body Cl./Year					Assistant Class  Inspection Date			27-Feb-2012					
Navigabil. Cl./Year						Data Entry By			Anne Roberts				
Legal Land Location NE SEC 11 TWP 24 RGE 26				GE 26 W	4M				20-Mar-2012				
Longitude, Lati	tude	-113:31:3	31.35 51.02.15					Reviewer Name		Garry Roberts			
Road Authority	,	Alberta T	ta Transportation (AIT)					Review Date		01-Mar-2012			
Contract Main, Area CMA30				,									
Clear Roadway	v/Skew	25.6 / -29	9 deg. (LHF)							Tim Davies			
AADT/Year	,,	14,030 /	-				· ·	Review Da	ate	22-Mar-2012			
Road Classifica	ation	RAD-412					Follow-	Up By					
Detour Length		1											
Bridge Culver		1 -								<u> </u>			
Number of Cul		1											
Pipe #	Barrel		Span	Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	U/S	3	3000	2400		PCB		44.3			THICKIESS	RECTANGLE	
1	MAIN		3960	1980		ВР		29.8				RECTANGLE	
Special Feature		3	900	1900		БГ		29.0				RECTANGLE	
Special Feature		mont											
Special Featur	es Com	illelli											
					Ut	ilities (L	ocated	at)					
Utility Attachme	ents												
Telephone	North	R/W					Gas South ROW						
Power S. R/W 4 Wire					Munici	oal							
Others Fibre Optics S R/W and N R/W						Problei	m (Y/N)	No					
Remarks													
				Ap	proa	ch Road	d / Emba	ankment					
					Last	Now	Explan	ation of	Condi	tion			
Horizontal Alig	nment				7	7		de turnou		m west.			
Vertical Alignm	ent				7	7	Crest	urve to e	ast.				
Roadway Widt	h (m)		25.600										
Embankment					7	7	Conc.	Mad ning	@ C\A	next to gabion			
Sideslope (	.1)		4.0		-		25.10. Mod pipo & OW		<b>₩</b> 311	HEAL TO YADION			
		. 1 5\	4.0										
(Height of Co		. 1.3)	Yes					North side only - not on roadside but					
Approach Roa	ad / Emi	bankmen	t General Rati	ing	7	7	at culvert end.						
Culvert Comp	onont				Last	Upstre Now	am End		Condi	tion			
Direction	Culvert Component			S	INOM	<u> </u>	Explanation of Condition Precast boxes						
End Treatment Others, None)	(Concre	ete, Steel,	OTHERS		J		1 16005	, DOVG2					
Headwall					Х	Х							
Collar	Collar			7	X								
Wingwalls	Wingwalls			X	7	Gabior	ıs						
(Shape : FLA	ARE)												
-													

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			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Cutoff Wall		N	N	Ice covered
Bevel End		Х	Х	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	300			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 400)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Upstream End General Rating		8	7	
		Brid	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe #: 1, Primary Span, Loca	tion Code: U/S, Span	(mm):	3000, F	Rise (mm): 2400, Type: PCB)
Barrel Last Accessible Date	27-Feb-2012			West cell North section of concrete box
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	Minor scaling and spalling at West end approx. 1.3 m x 100 mm
Measured Rise (mm)	2400			wide. Estimate
Measured At Ring No.				Estimate
Sag (mm)	0			
Percent Sag	0			
Sidewall		6	8	
Measured Span (mm)	3000			
Measured At Ring No.				
Deflection (mm)	0			
Percent Deflection	0			
Floor	U	6	N	Ice covered
Bulge (mm)	0	0	IN	loe covered
Measured At Ring No.	0			
Abrasion (Y/N)	No			
	INO			At any atmostics in interest for an CH and
Circumferential Seams	40	6	8	At construction joint, foam filled.
Separation (mm)	10			
Longitudinal Seams		X	X	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		Х	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			

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		Brid		Ivert Barrel
Culvert Component		Last		Explanation of Condition
(Pipe # : 1, Primary Span, Locat	ion Code: U/S, Span	<u>(mm):</u>	3000, F	Rise (mm): 2400, Type: PCB)
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel Extension General Ratin	g	6	8	
		Brio	dae Cu	lvert Barrel
Culvert Component		Last		Explanation of Condition
·	tion Code: MAIN, Spa			, Rise (mm): 1980, Type: BP, Cell Sequence: 1)
Barrel Last Accessible Date	27-Feb-2012			West cell, concrete box, North main
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		8	7	
Measured Rise (mm)	1980			Estimate
Measured At Ring No.				Listinate
Sag (mm)	0			
Percent Sag	0			
Sidewall		8	6	Medium width with vertical cracks
Measured Span (mm)	1980			
Measured At Ring No.	11			
Deflection (mm)	0			
Percent Deflection	0			
Floor		N	N	Ice covered PR 6
Bulge (mm)	0			Minor spall at lower west floor
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		8	6	foam sealed
Separation (mm)	10			
Longitudinal Seams		Х	Х	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		Х	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			
				A .

		Bric	lge Cul	vert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	<u>n (mm</u>	): 1980	, Rise (mm): 1980, Type: BP, Cell Sequence: 1)
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		Х	X	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		8	6	
		Brio	ige Cul	vert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	): 1980	, Rise (mm): 1980, Type: BP, Cell Sequence: 2)
Barrel Last Accessible Date	27-Feb-2012			East Cell, Concrete box, North main
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		7	7	
Measured Rise (mm)	1980			Estimate
Measured At Ring No.				
Sag (mm)	0			
Percent Sag	0			
Sidewall		6	6	Medium Vertical cracks
Measured Span (mm)	1980			
Measured At Ring No.	1			
Deflection (mm)	0			
Percent Deflection	0			
Floor		6	N	(Light scaling seen through 50mm of water) 29 July 2010
Bulge (mm)				PR 6 ice covered
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		9	7	
Separation (mm)	30			
Longitudinal Seams		X	X	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		X	X	
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)				
Camber POS/ZERO/NEG	ZERO			

		Brio	dge Cu	lvert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	): 1980	, Rise (mm): 1980, Type: BP, Cell Sequence: 2)
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		8	8	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		6	6	
			ownetr	ream End
Culvert Component		Last		Explanation of Condition
Direction	1	N	INOW	Explanation of condition
End Treatment (Concrete, Steel, Others, None)	CONCRETE			
Headwall		Х	Х	
Collar		Х	Х	
Wingwalls		4	4	Wingwalls are anchored
(Shape : <b>FLARE</b> )				NE wingwall seperated 200mm & moved 180mm. Seperation 100mm NW wingwall moved inwards 270mm
Cutoff Wall		Х	Х	TAN Willigham Morod Illinardo 27 olimi
Bevel End		Х	Х	
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	200			
Scour Protection		6	6	
(Type: RIP RAP)				
(Avg. Rock Size(mm): 300)				
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Downstream End General Ratio	ng	4	4	
			tructu	re Usage
			Now	Explanation of Condition
Channel (U/S and D/S)			111011	
Alignment		5	5	Channel has sharp bend @ d/s end.
Bank Stability		7	7	
HWM (m below Top of Culvert)				Hwm not visible.
Drift (Y/N)	No			
Channel Bottom Degrading/Aggrading	DEGRADING			@ d/s
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
<b>Channel General Rating</b>		5	5	

		Maintena	nce Recommen	dations					
Inspector Recommendations	Year	Inspector Comments		Department Con		Target Year	Est. Cost	Cat #	
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING	3								
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT	OFF								
REPAIR SEAMS									$\perp$
OTHER ACTION									$\perp$
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	low) 66.7/66	Sufficiency Rating (%)	(Last/Now)	70.4/69.3	Est. Repl. Yr	2035	Maint. Re	qd. (Y/N)	No
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		E	Stimated Tota	1 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Garry Roberts		Previous	Assistant's Name					
Next Inspection Date	27-Nov-2013		Previous	Inspection Date	29-Jul-2010				
Inspection Cycle (Default) (months)	21								
Comment									