Bridge Culvert Inspection													
Bridge File Number	84079 -1 Bridge Culvert					Form Type			CULM				
Year Built	2007					Lot No.			4				
Bridge or Town Name	CALGARY					Inspector Name			Jason Rusu				
Located Over		ION C, WATE	RCRS-IC	C		· ·	or Class		BR CLS A				
Located On	22X:04 C	1 12.453				Assistant Name							
Water Body Cl./Year						Assistant Class							
Navigabil. Cl./Year						Inspection Da			09-Feb-2013				
Legal Land Location		31 TWP 22 R	GE 28 W	/4M		Data Entry By Lauren Korte							
Longitude, Latitude		23, 50:54:26				Data Entry Date 10-Mar-2013							
Road Authority	1	ransportation	(AIT)			Reviewer Name Garry Roberts							
Contract Main. Area	DEERFOOT/STONEY						Review Date 04-Mar-2013						
Clear Roadway/Skew	13.8 / 0 d					1	Dept. Reviewer Name Tim Davies						
AADT/Year	15,870/2					Dept. Review Date		13-Mar-2013					
Road Classification	RCU-210	-110				Follow-Up By							
Detour Length (km)	6												
Bridge Culvert Inform													
Number of Culverts	1		/										
Pipe # Barrel	S	pan	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1 MAIN	1	0000	4000		RPE		55		152X51		ELLIPSE		
Special Features													
Special Features Com	ment												
				l Iti	lities (l	ocated	at)						
Utility Attachments				01			aty						
Telephone						Gas							
Power						Municipal							
Others							Problem (Y/N) No						
Remarks													
			Α	pproad	ch Road	d / Emba	ankment						
				Last	Now		ation of		tion				
Horizontal Alignment			9	9	Inside East city limits.								
Vertical Alignment				8	8								
Roadway Width (m) 13.800													
Embankment				5	5			ion- lar	ne widening for	SE Ring Road	underway at		
Sideslope (:1)		3.0				North side. 5:1 at top, then 3:1 to top of culverts.							
(Height of Cover(m) : 4.2)						0.1 det	op, mon	0.1 10 1	op of carrons.				
Guardrail (Y/N)		No											
Approach Road / Emi	bankment	General Rat	ing	8	8								
					Upstre	am End							
Culvert Component				Last	Now		ation of	Condit	tion				
Direction				N		West P	ipe.						
End Treatment (Concre Others, None)	ete, Steel,	CONCRETE											
Headwall				9	9								
Collar			8	8									
Wingwalls			X	Х									
(Shape :)						1							
(Snape.)													

Alberta Transportation

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		8	8	Storm water outlet 10m U/S.
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	1			
Scour Protection		8	8	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		8	8	
Beavers (Y/N)	No			
Upstream End General Rating		8	8	
		Brio	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm): 5000	, Rise (mm): 4000, Type: RPE, Cell Sequence: 1)
Barrel Last Accessible Date	09-Feb-2013			Barrel to large to measure.
Special Features				
Special Feature				West Pipe.
(Type :)				
Special Feature				
(Туре :)				
Roof		8	8	
Measured Rise (mm)				
Measured At Ring No.				
Sag (mm)	10			Estimate.
Percent Sag	0			
Sidewall		8	8	
Measured Span (mm)	4993			
Measured At Ring No.	6			
Deflection (mm)	7			
Percent Deflection	0			
Floor		8	8	
Bulge (mm)	0			
Measured At Ring No.				_
Abrasion (Y/N)	No			
Circumferential Seams		8	8	
Separation (mm)	0			
Longitudinal Seams		8	8	
Total No. of Cracked Rings	0			
Total No. of Rings with Two Cracked Seams	0			
Min. Remaining Steel Between Cracks (mm)	0			At roof seams only- 3N.
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes		_	
Coating		6	6	
Corrosion By Soil (Y/N)	Yes			Isolated alkali at upper seams.
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

				lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	ation Code: MAIN, Sp	ban (mm): 5000	0, Rise (mm): 4000, Type: RPE, Cell Sequence: 1)					
Fish Passage Adequacy		8	8						
Baffle		X	X						
(Type:)									
Waterway Adequacy		8	8						
Icing (Y/N)	No								
Silting (Y/N)	Yes								
Drift (Y/N)	No								
Barrel General Rating		8	8						
				Ilvert Barrel					
Culvert Component				Explanation of Condition					
		ban (mm): 5000	0, Rise (mm): 4000, Type: RPE, Cell Sequence: 2)					
Barrel Last Accessible Date	09-Feb-2013			East Pipe.					
Special Features									
Special Feature									
(Type :)									
Special Feature									
(Type :)									
Roof		8	8						
Measured Rise (mm)									
Measured At Ring No.									
Sag (mm)	11			Estimate.					
Percent Sag	0								
Sidewall		8	8						
Measured Span (mm)	5011								
Measured At Ring No.	8								
Deflection (mm)	11			Estimate.					
Percent Deflection	0								
Floor		8	8						
Bulge (mm)	0								
Measured At Ring No.				-					
Abrasion (Y/N)	No			-					
Circumferential Seams		8	8						
Separation (mm)	0								
Longitudinal Seams		8	8						
Total No. of Cracked Rings	0			1					
Total No. of Rings with Two Cracked Seams	0								
Min. Remaining Steel Between Cracks (mm)	0								
Proper Lap (Y/N)	Yes								
Longitudinal Stagger (Y/N)	Yes								
Coating	1.00	6	6						
Corrosion By Soil (Y/N)	Yes	0	0	Isolated alkali at upper seams.					
Corrosion By Water (Y/N)	No			-					
Camber POS/ZERO/NEG	ZERO								
Ponding (Y/N)	No								

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

	Bridge Culvert Barrel								
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	ion Code: MAIN, Spa	ın (mm): 5000	, Rise (mm): 4000, Type: RPE, Cell Sequence: 2)					
Fish Passage Adequacy			8						
Baffle		X	X						
(Туре :)	(Туре:)								
Waterway Adequacy		8	8						
Icing (Y/N)	No			250 silt at ends and center rings.					
Silting (Y/N)	Yes								
Drift (Y/N)	Drift (Y/N) No								
Barrel General Rating		8	8						
		D	ownstr	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		S							
End Treatment (Concrete, Steel, Others, None)	CONCRETE		-						
Headwall		8	8						
Collar		8	8						
Wingwalls		X	X						
(Shape :)			1						
Cutoff Wall			8						
Bevel End		8	8						
Heaving (mm)	0								
Invert Above/Below Stream Bed	vert Above/Below Stream Bed BELOW								
Above/Below (mm) 1			-						
Scour Protection		8	8						
(Type : RIP RAP)				-					
(Avg. Rock Size(mm) : 250)		1	1						
Scour/Erosion		8	8						
Beavers (Y/N)	No								
Downstream End General Ratir	ng	8	8						
		S	Structu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		7	7	Irrigation canal.					
Bank Stability		8	8						
HWM (m below Top of Culvert)				No Visible HWM.					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading	Channel Bottom NONE								
Beavers (Y/N) No									
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		7	7						

Maintenance Recommendations											
Inspector Recommendations Ye		Year	Inspector Comments		Department Comr	ments	Target Year	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											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/Now) (%)		88.9/88.9	9 Sufficiency Rating (Last/N (%)	ow) 8	86.5/86.5 Est. Repl. Yr 20		2060	Maint. Red	qd. (Y/N)	No	
Special Comments for Next Inspection					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 Garry Roberts			y Roberts Previous			Assistant's Name					
Next Inspection Date 09-Nov		-2014		Previous Inspection Date 24-May-2011							
Inspection Cycle (Default) (months) 21											
Comment											