				Brido	e Culve	ert Insp	ection							
Bridge File Number	82017 -1 Bridge Culvert				,c Guive			CUL1						
Year Built	1970					71			2					
Bridge or Town Name	own Name CALGARY - 64 AVE								Garry Roberts					
Located Over		REEK, 2.13.3	2, WATER	RCRS-	-ST	Inspector Class			BR CLS A					
Located On		L1 0.008;102				Assistant Name								
Water Body Cl./Year		·				Assistant Class								
Navigabil. Cl./Year						Inspection Date			06-Jan-2013					
Legal Land Location	SE SEC	10 TWP 25 R	GE 1 W5I	M		Data Entry By			Lauren Korte					
Longitude, Latitude	-114:02:5	6, 51:06:38				Data Entry Date			28-Jan-2013					
Road Authority		ransportation	(AIT)			Reviewer Name			Tom Carey					
Contract Main. Area		OT/STONEY				Review Date			17-Jan-2013					
Clear Roadway/Skew	28 /					Dept. Reviewer Name								
AADT/Year						Dept. Review Date		29-Jan-2013						
Road Classification	RLU-208-	-100					Follow-Up By							
Detour Length (km)	10													
Bridge Culvert Inform	ation													
Number of Culverts	1													
Pipe # Barrel	S	pan	Rise (or	Dia.)	a.) Type		Length		Corr. Profile	PI./Slab Thickness	Shape			
1 MAIN	1	1582	7200		RP		107.9		152X51	6.0	ARCH			
Special Features														
Special Features Com	ment													
				Ut	ilities (L	ocated	at)							
Utility Attachments						_		T						
Telephone						Gas								
Power East side.							Municipal Problem (Y/N) No							
Others Street Lights.						Problei	TI (Y/IN)	No						
Remarks			٨٠	nnroa	ch Poa	l / Emb	nkmont							
						/ Embankment Explanation of Condition								
Horizontal Alignment				6	6	Ramps and controlled intersection to East ramps.								
Vertical Alignment			6	6	B3412									
Roadway Width (m) 28.000														
Embankment				6	6									
Sideslope (:1) 3.0														
(Height of Cover(m) :	5.5)					1								
Guardrail (Y/N) Yes					Parapets.									
Approach Road / Emi	pankment	General Rat	ing	6	6									
					Linetro	am End								
<b>Culvert Component</b>				Last		1	ation of	Condi	tion					
Direction		I.		N	111011	North.		- Comun						
End Treatment (Concre Others, None)	ete, Steel,	CONCRETE	<u> </u>											
Headwall				4	4	50mm separation from roof plates exposed rebar and minor spalling.								
Collar				5	5	Some wide cracks.								
Wingwalls	Wingwalle			X	X									
(Shape: )														
Cutoff Wall			N	N	Submerged.									

82017 -1 Bridge Culvert

			Linctro	am End
Culvert Company				am End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		7	7	
Heaving (mm)	0			
Invert Above/Below Stream Bed				Estimate.
Above/Below (mm)	400		1	
Scour Protection		6	6	Concrete at sides. Some wide cracks.
(Type : CONCRETE)				
(Avg. Rock Size(mm):)			1	
Scour/Erosion		6	6	
Beavers (Y/N)	No			
Upstream End General Rating		4	4	
		Bri	dge <u>Cu</u>	Ivert Barrel
Culvert Component				Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN,			·
Barrel Last Accessible Date	06-Jan-2012			
Special Features				
Special Feature				Safety Rail.
(Type:)				
Special Feature				
(Type:)				
Roof		6	6	Majority of roof and upper sidewall longitudinal seams have 2 rows of
		0	U	bolts.
Measured At Biog No.				Est.
Measured At Ring No.				ESI.
Sag (mm)	50			
Percent Sag				
Sidewall	I	4	4	Span measured 11,620 mm @ R 9 Cracks in West lower long sidewall seams at rings #1, 2, 4,8 & 27.
Measured Span (mm)	1162			- Oracks in West lower long sidewall seams at lings #1, 2, 4,0 & 27.
Measured At Ring No.	9			
Deflection (mm)	38			
Percent Deflection	0			
Floor		N	N	Ice.
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		7	7	
Separation (mm)	0			
Longitudinal Seams		4	4	Worst seam is ring #2 with 65mm remaining steel.
Total No. of Cracked Rings	5	-		Cracks in lower West seam R1, 2,2 4, 8, 27. This seam is not visible
Total No. of Rings with Two Cracked Seams	0			below ice in other rings.  Upper sidewall and roof seams are staggered. No stagger at mid
Min. Remaining Steel Between Cracks (mm)	65			sidewall seam.
` '	No			
Proper Lap (Y/N)	-			
Longitudinal Stagger (Y/N)	Yes			
Coating	1	5	5	Alkali staining from upper bolt holes.
Corrosion By Soil (Y/N)	Yes			
Corrosion By Water (Y/N)	No			
Camber POS/ZERO/NEG	ZERO			
Ponding (Y/N)	No			

82017 -1 Bridge Culvert

	Bridge Culvert Barrel								
Culvert Component  (Pipe # : 1, Primary Span, Location Code: MAIN, S  Fish Passage Adequacy  Baffle (Type : )  Waterway Adequacy  Icing (Y/N) No  Silting (Y/N) Yes  Drift (Y/N) No  Barrel General Rating				Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm	): 1158	2, Rise (mm): 7200, Type: RP)					
Fish Passage Adequacy			7						
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		7	7						
Icing (Y/N)	No			Silt above ice in R3-R7.					
Silting (Y/N)	Yes			- Sill above ice iii NS-IV7.					
		4	4						
		D	ownsti	ream End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		S		South.					
End Treatment (Concrete, Steel, Others, None)	CONCRETE		_						
Headwall		5	5	Some 20mm cracks and 25mm separation from roof plates.					
Collar			6	Medium to 3mm wide cracks.					
Wingwalls			X						
(Shape: )		N							
Cutoff Wall			N	Buried.					
Bevel End		7	7						
Heaving (mm) 0									
Invert Above/Below Stream Bed BELOW				Est.					
Above/Below (mm) 500			1						
Scour Protection		7	7	Concrete at sides. Some cracking.					
(Type : <b>CONCRETE</b> )									
(Avg. Rock Size(mm):)		1	1						
Scour/Erosion		7	7						
Beavers (Y/N)	No								
Downstream End General Ratio	ng	5	5						
		S	tructu	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		7	7						
Bank Stability			7						
HWM (m below Top of Culvert)				No visible HWM.					
Drift (Y/N)	No								
Channel Bottom Degrading/Aggrading									
Beavers (Y/N) No									
(Fish Compensation Measure 1 : NONE)									
(Fish Compensation Measure 2 : NONE)									
Channel General Rating			7						

			Maintenance F	Recommend	dations						
Inspector Recommendations	Year	Inspecto	or Comments	Department Com	nments	Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS									J J		
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING	ì										
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUTO	OFF										
REPAIR SEAMS											
OTHER ACTION	2013	Patch U	/S headwall. Approx. 0.5m²	!							
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/N (%)	ow) 44.4/4	14.4	Sufficiency Rating (Last/Now) (%)		59.0/58.4	Est. Repl	. Yr	2026 Maint. Re		qd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments						
Maintenance Reviewed By					Date			E	Estimated Tota	I 0	
Proposed Long-Term Strategy										'	
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name Garry Roberts Previou				Previous	Assistant's Name						
			Previous	s Inspection Date 20-Jan-2012							
Inspection Cycle (Default) (months)	57										
Comment											