Bridge Culvert Inspection														
Bridge File Number 02036 -1 Bridge Culvert					Form Type		CUL1							
Year Built 1967						Lot No.		4						
Bridge or Town Name EDMONTON							Inspector Name		Wade Nanninga					
Located Over GOLD BAR CREEK, 6.80, WAT				FRCRS-ST		Inspector Class		BR CLS B						
			SHERWOOD PARK FREEWAY:02 R1				Assistant Name		BIX GLO B					
Located Oil		1.521;SH	21;SHERWOOD PARK FREEWAY:02 L1				Assistant Class							
Matar Bady Cl	N	1.527					Inspection Date		07-Mar-2011					
Water Body Cl./Year							Data Entry By		Theresa Lacus	sta				
Navigabil. Cl./Year			OF 22 W/4M			Data Entry Date		23-Mar-2011						
			10 30 TWT 32 NGL 23 W4W				Reviewer Name		Arnold Assenheimer					
			3:22:16, 53:31:02					Review Date		16-Mar-2011				
·			a Transportation (ATT)					Dept. Reviewer Name						
Clear Roadway		CMA09					Dept. Review Date		15-Apr-2011					
	/Skew	9.5 /	2000 (A)				Follow-Up By		-					
AADT/Year	4'	32,780 / 3					1 Glow Op By							
Road Classifica		RCU-209	96-90											
Detour Length (3												
Bridge Culvert Information Number of Culverts 1														
	Barrel		Span	Rise (or Dia.)		Туре		Length		Corr. Profile	Pl./Slab	Shape		
Fipe #	Darrer		рран	Kise (Oi	Dia.)	туре		Lengui		Con. Frome	Thickness	Snape		
1	MAIN	1	724	1901		SPE		87.2		152X51	3.0	ELLIPSE		
Special Feature	es	С	ONC FLOOR											
Special Feature	es Comi	ment												
Liette Ave I	.				Ut	ilities (L	ocated.	at)						
Utility Attachme	ents						_							
Telephone							Gas							
Power 3 lines to east/street lights. Others Traffic light to north.						Municipal Problem (Y/N) Yes								
Others Remarks				9 0110000	404 114	2 tor 2011	ge device @ inlet23-Jun-2009							
Remarks	Expos	sea unaer	ground cable t					ankment	-23-30	dH-2009				
						Now	1		Condi	tion				
Horizontal Alignment			7	7	Explanation of Condition South of BF 76092 interchange on 17th street. Crest curve. Typical									
Vertical Alignment			7	7	grade separation.					71				
Roadway Width (m)		9.500				9.5m roadway plus ramp @ structure, approach road 9.5.								
						7 7								
Embankment	4)		2.0		7 7									
Sideslope (2.0											
(Height of Co		5)	\ <u>\</u>											
Guardrail (Y/N)	Guardrail (Y/N) Yes													
Approach Roa	d / Eml	bankment	t General Rat	ing	7	7								
Culvert Component Last Now Explanation of Condition														
Culvert Component			Last E	Now	∟xplar	iation of (ondi	tion						
Direction End Treatment (Concrete, Steel, STEEL			C											
Others, None)	(Concre	ele, Sieei,	SIEEL											
Headwall			Х	X										
Collar			Х	Х										
Wingwalls			Х	X										
(Shape:)				_	1									
Cutoff Wall			Х	X										

			Llmotro	om End				
Culvert Component		Last	Now	Explanation of Condition				
Bevel End		5	N	Explanation of Condition				
Heaving (mm)	250	5	IN	Covered with snow/ice.				
Invert Above/Below Stream Bed								
Above/Below (mm)	75							
Scour Protection	13	7	N					
(Type : RIP RAP)			IN					
(Avg. Rock Size(mm) : 450)								
Scour/Erosion		7	N					
CCCCI/ETCSIOTI								
Beavers (Y/N)	No							
Upstream End General Rating		5	5	GR carried fwd.				
		Brid	dge Cu	Ivert Barrel				
Culvert Component				Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp							
Barrel Last Accessible Date	23-Jun-2009			Ice 0.5m from crown-viewed from ends-shape appears ok.				
Special Features								
Special Feature		7	N					
(Type : CONC FLOOR)				1				
Special Feature								
(Type:)								
Roof		6	6	Dented roof R23. R23 damaged @ 10 o'clock. Thickness of concrete				
Measured Rise (mm)	1555			floor unknown. Sag unknown23-Jun-2009				
Measured At Ring No.	2							
Sag (mm)								
Percent Sag								
Sidewall		6	N	1698 @ ring 1.				
Measured Span (mm)	1652							
Measured At Ring No.	23							
Deflection (mm)	72							
Percent Deflection	4							
Floor		6	N	Concrete floor installed Feb 16/08-23-Jun-2009				
Bulge (mm)	0							
Measured At Ring No.								
Abrasion (Y/N)	No							
Circumferential Seams		7	N					
Separation (mm)	0							
Longitudinal Seams		5	N	Cusping @ 2:00 position in numerous rings - photo23-Jun-2009				
Total No. of Cracked Rings	0							
Total No. of Rings with Two Cracked Seams	0			1N stagger. Rings 1-13 are staggered, the rest are not23-Jun-2009				
Min. Remaining Steel Between Cracks (mm)								
Proper Lap (Y/N)	No							
Longitudinal Stagger (Y/N)	No							
Coating		5	N					
Corrosion By Soil (Y/N)	No							
Corrosion By Water (Y/N)	Yes							
Camber POS/ZERO/NEG	NEG							
Ponding (Y/N)	Yes							

		Bric	lge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 1724	, Rise (mm): 1901, Type: SPE)
Fish Passage Adequacy		3	3	D/S bevel 0.75m above streambed.
Baffle		Х	Х	
(Type:)				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		5	5	GR carried fwd.
		D	ownstr	ream End
Culvert Component		Last	Now	Explanation of Condition
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL		ı	
Headwall		Х	X	
Collar		Х	Х	
Wingwalls		Х	Х	
(Shape:)				
Cutoff Wall		Х	Х	
Bevel End		5	5	Minor dents.
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	750			
Scour Protection		4	4	Gabion North side only, South side none. Loss of backfill around
(Type : GABION, NONE)				bevel. Bevel protrudes from fill 2.0m.
(Avg. Rock Size(mm) : 200)				Devel produced from fill 2.0m.
Scour/Erosion		4	4	Large scour hole 15m x 10m x 1m deep @ D/S end.
Beavers (Y/N)	No			
Downstream End General Ratir	ng	4	4	
		s	truc <u>tu</u>	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	Meanders d/s.
Bank Stability		4	4	Vertical banks @ D/S end due to scour.
HWM (m below Top of Culvert)				HWM not visible.
Drift (Y/N) No				
Channel Bottom Degrading/Aggrading DEGRADING				
Beavers (Y/N) No				
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	NONE)			
Channel General Rating		4	4	

		Maintenance R	ecommend	dations					
Inspector Recommendations	Year	Inspector Comments		Department Comr	nents		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING									
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUTO	OFF								
REPAIR SEAMS									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 55.6/55	.6 Sufficiency Rating (Last/	Now)	39.6/39.6	Est. Repl. Yr	2015 Maint. Re		qd. (Y/N)	No
Special Monitor cusping of Comments for Next Inspection	longitudinal sear	ns. Monitor d/s scour.		Department Comments					
Maintenance Reviewed By				Date		E	Estimated Tota	1 0	
Proposed Long-Term Strategy								'	
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Shane Hall		Assistant's Name						
Next Inspection Date	07-Dec-2015		Previous	Inspection Date 23-Jun-2009					
Inspection Cycle (Default) (months)	57								
Comment									