					Bridg	e Culve	ert Inspec	ction					
Bridge File Num	Number 70579 -1 Bridge Culvert						Form Type		CUL1				
Year Built	1974						Lot No.		1				
Bridge or Town	Name	SHERV	NOOD PAR				Inspector Name		Kris Bosters				
Located Over		216:04 OVER	L1 1.766;216:0 UT	4 R1 1.78	32;UTIL-UN,		Inspector Class		BR CLS A				
Located On		216:04	L1 1.766;216:0	4 R1 1.78	2		Assistant Class						
Water Body CI./	Year						Inspection Date		05 Apr 2011				
Navigabil. Cl./Ye	ear						Data En	try By		Theresa Lacusta			
Legal Land Loca	ation	NW SE	EC 4 TWP 53 R0	GE 23 W4	М		Data En	try Doto		19 Apr 2011	510		
Longitude, Latitu	ude	-113:20	0:39, 53:33:20				Data Ell			Arnold Assenheimer			
Road Authority		Alberta	Transportation	(AIT)			Poviow			11-Apr-2011			
Contract Main.	Area	CMA09	9							Brent Herrick			
Clear Roadway/	/Skew	43.4 /					Dept. Re		anne	19-Apr-2011			
AADT/Year 42,840 / 2009 (A)							Follow-I In By		19-ΑρΓ-2011				
Road Classificat	Road Classification RAU-213.4-120						гоном-ор ву						
Detour Length (Length (km) 1												
Bridge Culvert	Inform	ation											
Number of Culv	erts		1										
Pipe #	Barrel		Span	Rise (or [Dia.) Type		L	_ength		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		2590 1880		RPP		-	123.7		152X51	3.5	PIPE ARCH	
Special Feature	s												
Special Feature	s Comr	nent	File tag @ u/s	end 12 o'c	lock.								
			1		Ро	sting Ir	nformatio	n					
Required Vert. 0	Clearan	ce Post	ting (m) UNI	DER: 216	L1 4.6	Sm, 216	R1 4.6m						
Posted Vertical	Clearar	nce (Y/N	۷)										
Posted: Lane	NB	On	Bridge (m)	In Adva	ance (Y/N)	La	ne SB	0	n Bridge (m)	In Advar	ce (Y/N)	
Remarks	Not re	quired.											
					Uti	ilities (L	Located a	it)					
Utility Attachme	nts UI	NKNOV	VN UTILITY										
Telephone	20m s	outh, ru	ins East-West.				Gas	15m south, runs East-West.					
Power	7 wires	s 30m e	east, runs North-	South.			Municipa	al					
Others	Light s	standard	ds.				Problem	(Y/N) N	lo				
Remarks													
				Ар	proad	ch Road	d / Embar	nkment					
					Last	Now	Explanation of Condition						
Horizontal Alignment					8	8	Structure	Structure located 30m North of BF 77416. 3 lanes NB, 2 lane			B, 2 lanes SB,		
Vertical Alignme	ent				9	8	on ramp	on ramp.					
Roadway Width	(m)		43.400										
Embankment					8	8	2.5 @ bottom, 5:1 @ top.						
Sideslope (:1)		2.5										
(Height of Cov	/er(m) :	2.3)											
Guardrail (Y/N)			Yes										
Approach Road	d / Emb	ankme	ent General Rat	ing	8	8							
						Upstre	am End						
Culvert Compo	nent				Last Now		Explanation of Condition						
Direction					E		Acts as a	Acts as a drainage pipe as well.					
End Treatment (Concrete, Steel, NONE Others, None)								5					
Headwall					Х	Х							

Alberta Transportation

			Upstre	am End				
Culvert Component		Last	Now	Explanation of Condition				
Collar		X	X					
Wingwalls		Х	X	_				
(Shape :)								
Cutoff Wall		Х	Х					
Bevel End		Х	X					
Heaving (mm)								
Invert Above/Below Stream Bed	BELOW							
Above/Below (mm)	200							
Scour Protection		7	7					
(Type : NATURAL)								
(Avg. Rock Size(mm) :)								
Scour/Erosion			7					
Beavers (Y/N)	No							
Upstream End General Rating	1	7	7					
		Brid	dae Cu	lvert Barrel				
Culvert Component		Last	Now	Explanation of Condition				
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm): 2590	, Rise (mm): 1880, Type: RPP)				
Barrel Last Accessible Date	05-Apr-2011							
Special Features	1							
Special Feature								
(Туре :)								
Special Feature								
(Туре :)								
Roof		4	N	U/S - 1880, D/S - 1865. Ring 27 missing bolt.				
Measured Rise (mm)	1733			TOO MUCH ICE TO MEASURE RISE				
Measured At Ring No.	12							
Sag (mm)	147							
Percent Sag	8							
Sidewall		2	2	Small tear in North sidewall ring 1. U/S - 2549, ring 9 - 2627, D/S -				
Measured Span (mm)	2676			2579. Construction damage/modifications ring 14, South wall.				
Measured At Ring No. 12								
Deflection (mm)	86							
Percent Deflection	3							
Floor		7	7	Lots of debris.				
Bulge (mm)	0							
Measured At Ring No.								
Abrasion (Y/N)	No							
Circumferential Seams		7	7	Missing bolt ring 12.				
Separation (mm)	0							
Longitudinal Seams		2	2	Cracked rings @ 9, 10, 11, 12, 13, 14, 15, 16, 19, 21, 23, 24, 25, &				
Total No. of Cracked Rings	14			26 3 o'clock. Rings 9 & 12 have 55mm steel left. Ring 14, 23 & 25 have 45mm steel left - photo				
Total No. of Rings with Two Cracked Seams	0							
Min. Remaining Steel Between Cracks (mm)	45			Sidewall not staggered, roof is.				
Proper Lap (Y/N)	No			1				
Longitudinal Stagger (Y/N)	No							

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

Culvert Component		Last	Now	Explanation of Condition		
(Pipe # : 1. Primary Span, Locat	tion Code: MAIN. Spa	n (mm): 2590	Rise (mm): 1880. Type: RPP)		
Coating		4	4	Rusting at 10% bolt hole locations		
Corrosion By Soil (Y/N)	Yes		. ·			
Corrosion By Water (Y/N)	No					
Camber POS/ZERO/NEG	NEG					
Ponding (Y/N)	No					
Fish Passage Adequacy		X	X			
Baffle		Х	Х			
(Type:)						
Waterway Adequacy		7	7	Iced about 500mm at u/s end.		
Icing (Y/N)	Yes			Late of gerbage and debrie in pine		
Silting (Y/N)	Yes			- Lots of garbage and debris in pipe.		
Drift (Y/N)	No					
Barrel General Rating	1	2	2			
		D	ownstr	eam End		
Culvert Component		Last	Now	Explanation of Condition		
Direction		W				
End Treatment (Concrete, Steel, Others, None)	NONE					
Headwall		X	X			
Collar		X	Х			
Wingwalls		X	Х			
(Shape :)						
Cutoff Wall		X	X			
Bevel End		X	Х			
Heaving (mm)						
Invert Above/Below Stream Bed	BELOW					
Above/Below (mm)	100					
Scour Protection		7	7			
(Type : NATURAL)						
(Avg. Rock Size(mm) :)						
Scour/Erosion		7	7			
Beavers (Y/N)	No					
Downstream End General Ratin	ng	7	7			
		S	Structu	e Usage		
		Last	Now	Explanation of Condition		
Grade Separation						
Road Alignment		X	Х			
Roadway Surface		X	X			
(Type :)						
Icing (Y/N)	No					
Traffic Safety Features		Х	Х			
туре						

		S	tructur	e Usage
		Last	Now	Explanation of Condition
Lighting			Х	
Barrel Leakage (Y/N)	No			
Drainage		7	7	
Structure In Use (Y/N) No				
Grade Separation General Rating			7	

			Maintenanc	e Recommendations						
Inspector Recom	nendations	Year	Inspector Comments	Departme	ent Commen		Target Year	Est. Cost	Cat #	
SHOTCRETE RE	PAIRS									
PLACE ADDITIO	NAL RIP RAP									
REMOVE DRIFT	ACCUMULATION		-							
INSTALL CONCR	ETE/STEEL LINING									
INSTALL STRUT	S									
INSTALL CONCRETE COLLAR/CUTOFF										
REPAIR SEAMS										
OTHER ACTION			Assess options plus Level 2 insp monitor, repair or replace option not appear to be used, possibly drainage. Could be grouted in o small culvert.	pection, is. Pipe does some r lined with						
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)			.2 Sufficiency Rating (L (%)	ast/Now) 44.3/44.1	Es	t. Repl. Yr	2012	Maint. Rec	ıd. (Y/N)	Yes
Special Comments for Next InspectionPipe is 40m North of BF 77416. Monitor cracks.					ent ts					
Maintenance Reviewed By										
Maintenance Rev	iewed By			Date			E	stimated Total	0	
Maintenance Rev Proposed Long-T	iewed By erm Strategy			Date			E	stimated Total	0	
Maintenance Rev Proposed Long-T On 3-Year Progra	iewed By erm Strategy m (Y/N)			Date			E	stimated Total	0	
Maintenance Rev Proposed Long-T On 3-Year Progra Proposed Action	iewed By erm Strategy m (Y/N)			Date			E	stimated Total	0	
Maintenance Rev Proposed Long-T On 3-Year Progra Proposed Action Previous Inspecto	iewed By erm Strategy m (Y/N)	Shane Hall		Date Previous Assistant's	Name		E	stimated Total	0	
Maintenance Rev Proposed Long-T On 3-Year Progra Proposed Action Previous Inspecto Next Inspection D	iewed By erm Strategy m (Y/N) or's Name vate	Shane Hall 05-Jan-2013		Date Date Previous Assistant's Previous Inspection	Name Date	24-Jun-2009	E	Estimated Total	0	
Maintenance Rev Proposed Long-T On 3-Year Progra Proposed Action Previous Inspector Next Inspection D Inspection Cycle	iewed By erm Strategy m (Y/N) or's Name pate (Default) (months)	Shane Hall 05-Jan-2013 21		Date Date Previous Assistant's Previous Inspection	Name Date	24-Jun-2009	E	Estimated Total	0	