					Brida	e Culve	ert Insn	ection						
Bridge File Number 07878 -1 Bridge Culvert					Dirag	o cuito		rt Inspection Form Type		CUL1				
Year Built 1987			<u> </u>				Lot No.		3					
Bridge or Tow	n Name		F				Inspector Name		Jason Saly					
Located Over		TRIBUTARY TO MEDICINE RIVER, 3				.88.6.	Inspector Class		BR CLS A					
2004.04 0 701		WATER	CRS-ST			,		int Name		DIX GLG /X				
Located On		766:10 C	21 16.617					int Class						
Water Body C	l./Year						Inspection Date		15-Feb-2012					
Navigabil. Cl./	Year						Data Entry By		Marcia Chavez					
Legal Land Lo	cation	SW SEC	4 TWP 38 R	GE 3 W5N	/		Data Entry Date		09-Mar-2012					
Longitude, Lat	itude	-114:22:	57, 52:14:08				Reviewer Name			John O'Brien				
Road Authority	/	Alberta 7	Fransportation	(AIT)			Review Date			29-Feb-2012				
Contract Main	. Area	CMA18					Dept. Reviewer Name							
Clear Roadwa	y/Skew	11 / 5 deg. (RHF)					Dept. Review Date		14-Mar-2012					
		670 / 20°	670 / 2010 (A)					Follow-Up By		1+-1VIQ1-2012				
		RCU-209	9-110		- Ропоw-ор Бу									
Detour Length	(km)	3												
Bridge Culve	rt Inform	nation												
Number of Cu	lverts	1												
Pipe #	Barrel	8	Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	Pl./Slab Thickness	Shape		
1	MAIN		1791	3834		RPE		34.7		152X51	3.0	ELLIPSE		
Special Featur	res													
Special Featur		ment												
·														
					Ut	ilities (L	ocated	at)						
Utility Attachm														
Telephone West ditch.						Gas			100m	m South Diamond Valley Gas Coop.				
Power 3 wires (22m) East ditch.					Munic			<u> </u>						
Others							Proble	m (Y/N)	No					
Remarks														
				Ap				ankment	O!!	1:				
Horizontal Alignment					8	NOW 8	Explanation of Condition Field approaches North of culvert on both sides.							
Horizontal Alignment					8	8	rield approaches North of culvert on both sides.							
Vertical Alignment Roadway Width (m) 11.000				0	0									
Roadway Wid	ui (iii <i>)</i>		11.000											
Embankment					7	7								
Sideslope (_	_:1)		4.0				E end measured.							
(Height of Co	over(m)	: 2.6)												
Guardrail (Y/N)		Yes					2 split post at NW corner.						
Approach Ro	ad / Eml	bankmen	t General Ra	ting	8	8								
						Unstre	am End							
Culvert Comp	onent				Last	Now		ation of	Condi	tion				
Direction	JIIGIIL				W	14044	West	anon or t	Jonal					
End Treatmen	t (Concre	ete, Steel	CONCRETE		VV		· · · · · · · · · · · · · · · · · · ·							
Others, None) Headwall					8	8								
Collar				6	6	Cracking in various areas.								
Wingwalls				X	X									
(Shape:)				, ,										
Cutoff Wall				N	N									

07878 -1 Bridge Culvert

			Unstre	eam End
Culvert Component		Last	Now	Explanation of Condition
Bevel End		8	8	Explanation of Condition
Heaving (mm)	0	0	0	
Invert Above/Below Stream Bed				
	300			-
Above/Below (mm) Scour Protection	300	0	l NI	Como vastro
		8	N	Some rocks.
(Type: NATURAL)				
(Avg. Rock Size(mm):)				(0 : 05 !!/0 440 .0005)
Scour/Erosion		8	N	(Some erosion 25m U/S. 14Sep2005).
Beavers (Y/N)	No			Drift caught up on bevel.
Upstream End General Rating		8	8	
opstream End General Rating				
				lvert Barrel
Culvert Component			Now	<u> </u>
(Pipe # : 1, Primary Span, Loca		span (mm	1): 4791	, KISE (MM): 3834, Type: RPE)
Barrel Last Accessible Date	15-Feb-2012			
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)		'		
Roof		N	7	One dent with paint flaked off.
Measured Rise (mm)				Could not measure rise due to ice.
Measured At Ring No.				
Sag (mm)	25			Est. 0.7%
Percent Sag	1			0.1%
Sidewall		N	7	Span at R2=4809=18mm
Measured Span (mm)	4828	- 11		Span at R4=4828=37mm=0.8%
Measured At Ring No.	4			Span at R6=4804=13mm
Deflection (mm)	37			0.007
Percent Deflection	1			0.8%
Floor		N	N	Ice
Bulge (mm)		IN	IN	lice
Measured At Ring No.				
Abrasion (Y/N)				
		N.I.	7	
Circumferential Seams	0	N	7	-
Separation (mm)	0		Ι-	
Longitudinal Seams		N	7	Some bolts may not be tight, can see holes. All bolt heads on top 1/2; nuts on bottom 1/2 with 4 rows of connectors in line at radius
Total No. of Cracked Rings	0			change points.
Total No. of Rings with Two Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	Yes			
Longitudinal Stagger (Y/N)	Yes			
Coating		N	6	White stains, little rust.
Corrosion By Soil (Y/N)	No	1.4		
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	POS			
Carriber FOS/ZERO/NEG	- 03			
Ponding (Y/N)	No			

07878 -1 Bridge Culvert

			ige Cul	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm): 4791	, Rise (mm): 3834, Type: RPE)					
Fish Passage Adequacy		Х	Х						
Baffle		Х	X						
(Type:)									
Waterway Adequacy		8	8						
Icing (Y/N)	No								
Silting (Y/N)	Yes			(Upstream end. 14Sep2005).					
Drift (Y/N) No									
Barrel General Rating		7	7						
		D	ownstr	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		E							
End Treatment (Concrete, Steel, Others, None)	CONCRETE								
Headwall		8	8	Little cracks.					
Collar		8	7						
Wingwalls		X	X						
(Shape:)									
Cutoff Wall		N	N						
Bevel End		8	8						
Heaving (mm)	0								
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	300								
Scour Protection		6	N	(SE ditch erosion is vegetated - photo. 14Sep2005) - Snow covered					
(Type:)									
(Avg. Rock Size(mm):)									
Scour/Erosion			N						
Beavers (Y/N)	No								
Downstream End General Ratin	ng	6	6	Based on scour from 14Sep2005.					
		S	tructur	re Usage					
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)									
Alignment		6	6	Erosion should be fixed.					
Bank Stability		5	5						
HWM (m below Top of Culvert)				HWM unknown. Minor.					
Drift (Y/N) Yes									
Channel Bottom Degrading/Aggrading				Unknown.					
Beavers (Y/N)	No.								
(Fish Compensation Measure 1 :									
(Fish Compensation Measure 2 :	NUNE)								
Channel General Rating		6	6						

			Maintenance R	ecommen	dations					
Inspector Recommendations		Year Inspector Comments			Department Comm	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL CONCRETE/STEEL LINING										
INSTALL STRUTS										
INSTALL CONCRETE COLLAR/CUT	OFF									
REPAIR SEAMS										
OTHER ACTION		2012	Fix erosion with riprap, SE ditch, if r done.							
OTHER ACTION		2012	Replace split NW guardrail posts.							
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/N (%)	ow)	v) 77.8/77.8 Sufficiency Rating (L (%)		/Now)	79.2/79.2	Est. Repl. Yr	2040	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		ı	Estimated Tota	I 0	
Proposed Long-Term Strategy									'	
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Dave La	am		Previous	ous Assistant's Name					
Next Inspection Date 15-		-2015		Previous	Inspection Date					
Inspection Cycle (Default) (months)	39									
Comment										