Bridge Culvert Inspection													
Bridge File Number 76797 -1 Bridge Culvert							Form Type		CULM				
Year Built	1968						Lot No.		4				
Bridge or Town Name ENTRANCE							Inspector Name		Todd Warshawski				
Located Over	S CREEK, 8.11.118.3.4, WATERCRS-					or Class		BR CLS B					
Located On		31 40·20 C	1 10 622				Assista	nt Name					
Water Body CL	Noor	40.30 C						nt Class					
Navigabil CL/X							Inspect	ion Date		30-Oct-2012			
Logal Land Log	ear				N /		Data Er	Data Entry By Theresa Lacusta					
Legal Land Loc	allon	117.47	2 0 TWF 52 NG	E 20 W3	IVI		Data Er	Data Entry Date 19-Nov-2012					
Pood Authority	uue	Alberta	Transportation				Reviewer Name			Eric Carcoux			
Contract Main	Area						Review Date			13-Nov-2012			
Clear Roadway	/Skew	85/	·				Dept. R	eviewer N	ame	Brent Herrick			
AADT/Year		2 040 /	2011 (A)				Dept. R	eview Dat	e	20-Nov-2012			
Road Classifica	ntion	RAU-20	)9-110				Follow-	Uр Ву					
Detour Length (	(km)	420	50 110										
Bridge Culvert	Inform	ation					1			1			
Number of Culv	verts		2										
Pipe #	Barrel		Span	Rise (or	Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		2019	2226		SPE		33.5		152X51	2.8	ELLIPSE	
2	MAIN		2019	2226		SPE		33.5		152X51	2.8	ELLIPSE	
Special Feature	es												
Special Feature	es Comr	ment											
					Uti	lities (L	ocated	at)					
Utility Attachme	ents	,					0						
Telephone	East r	/W.			Gas	-1							
Othere	1 wire	East I/V	v.				Droblen						
Diners	Eile te						Problem	(Y/N)	NO				
Remarks		ig in plac	Je.	Δ	nnroad	h Road	l / Emba	nkment					
					Last	Now	Explan	ation of C	ondi	tion			
Horizontal Align	ment				6	6	Curve to the south.						
Vertical Alignme	ent				7	7							
Roadway Width	n (m)		8.500										
Embankment					N	N	Snow cover, no problems apparent.						
Sideslope (	<u>:1)</u>	• `	3.0				-						
(Height of Cov	ver(m) :	3)	Nie										
Guardrall (Y/N)			NO										
Approach Roa	d / Emb	bankme	nt General Rat	ing	6	6							
						Upstre	am End						
Culvert Compo	onent				Last	Now	Explan	ation of C	ondi	tion			
(Pipe # : 1, Spa	an Type	e: Prima	ary Span)										
Direction					W		South pipe.						
End Treatment Others, None)	(Concre	ete, Stee	el, STEEL				vvater/i	ce to 0.8m	from	crown.			
Headwall					X	Х							
Collar	Collar				X	Х							
						_							
Wingwalls					X	Х							

Bridge Inspection & Maintenance System (Web 2005)

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			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	y Span)			
Cutoff Wall		X	X	
Bevel End		N	N	No evident problem.
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		N	N	Snow cover.
(Type : )				
(Avg. Rock Size(mm) : )				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Upstream End General Rating	1	7	7	G.R. was 7 in 16/Aug/2005 but elements not rated in 2005 either.
		Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	oan (mm	n): 2019	9, Rise (mm): 2226, Type: SPE)
Barrel Last Accessible Date				Viewed from ends. Overall shape seems deflected but no measurements with lack of access.
Special Features				
Special Feature				
(Type : )				
Special Feature				
(Type : )				
Roof		N	N	Est sagAug,2005
Measured Rise (mm)				Estimates appear high
Measured At Ring No.				
Sag (mm)	300			_
Percent Sag	13			
Sidewall		N	N	Est deflectionAug,2005
Measured Span (mm)				Estimates appear high.
Measured At Ring No.				
Deflection (mm)	300			-
Percent Deflection	14			
Floor		N	N	-
Bulge (mm)				-
Measured At Ring No.				-
Abrasion (Y/N)				
Circumferential Seams	1	N	N	-
Separation (mm)				
Longitudinal Seams	1	N	N	-
Total No. of Cracked Rings				-
Total No. of Rings with Two Cracked Seams				-
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				_
Longitudinal Stagger (Y/N)				
Coating		N	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Barrel										
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm	): 2019	, Rise (mm): 2226, Type: SPE)						
Camber POS/ZERO/NEG	NEG									
Ponding (Y/N)	No									
Fish Passage Adequacy		9	8							
Baffle		Х	X							
(Туре : )			_							
Waterway Adequacy		5	6	(16/Aug/2005)						
Icing (Y/N)	No									
Silting (Y/N)	Yes									
Drift (Y/N)	No									
Barrel General Rating		3	3	G.R. carried forward, previously G.R.=3 from 20/Apr/2007 inspection.						
		D	ownstr	eam End						
Culvert Component	<u> </u>	Last	Now	Explanation of Condition						
(Pipe # : 1, Span Type: Primary	/ Span)	_								
Direction		E		South culvert.						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		X	X							
Collar		X	X							
Wingwalls		X	X							
(Shape : )			1							
Cutoff Wall		X	X							
Bevel End		N	N	No evident problems.						
Heaving (mm)	100									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	400		1							
Scour Protection		N	N	Snow cover. No problem evident.						
(Туре : )										
(Avg. Rock Size(mm) : )			1							
Scour/Erosion		N	N							
Beavers (Y/N)	No									
Downstream End General Ration	ng	7	7	G.R. was 7 since 16/Aug/2005 but elements not rated in 2005 either.						
			Upstre	am End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Span Type: Second	lary Span)									
Direction		W		North pipe. Ice 0.8mfrom crown.						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		Х	Х							
Collar		Х	Х							
Wingwalls		Х	Х							
(Shape : )										
Cutoff Wall		Х	X							

		_	Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Bevel End		N	N	No evident problems.
Heaving (mm)	100			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	400			
Scour Protection		N	N	Snow covered.
(Туре : )				No problems evident.
(Avg. Rock Size(mm) : )				
Scour/Erosion		N	N	
Beavers (Y/N)	No			
Upstream End General Rating	1	7	7	G.R. was '7' since 16/Aug/2005 but elements not rated in 2005 either.
	1	Bri	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN,	Span (	mm): 20	019, Rise (mm): 2226, Type: SPE)
Barrel Last Accessible Date				Viewed from ends. Overall shape seems deflected but no dimensions due to lack of access.
Special Features	1			
Special Feature				
(Type:)		_		
Special Feature				
(Type:)				
Roof		N	N	
Measured Rise (mm)				Est onlyAug, 2005
Measured At Ring No				Estimate appears to be high.
Sag (mm)	300			
Percent Sag	13			
Sidewall		N	N	
Measured Span (mm)				Est deflection.
Measured At Ring No				-Aug, 2005 Estimate appears to be high.
Deflection (mm)	300			
Percent Deflection	13			
Floor		N	N	
Bulge (mm)		IN	IN	
Measured At Ring No				
Abrasion (V/N)				
Circumforontial Scome		NI	NI	
Separation (mm)		IN	IN	
			NI	
Total No. of Crooked Diver		IN	IN	
Total No. of Cracked Rings				
Cracked Seams				
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)	No			
Longitudinal Stagger (Y/N)	Yes		_	
Coating		N	N	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			

Bridge Inspection & Maintenance System (Web 2005)

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	Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAI	N, Span (n	nm): 2	019, Rise (mm): 2226, Type: SPE)						
Camber POS/ZERO/NEG	NEG									
Ponding (Y/N)	No									
Fish Passage Adequacy	1	8	8							
Baffle		X	X							
(Туре:)			_							
Waterway Adequacy		7	6							
Icing (Y/N)	No									
Silting (Y/N)	Yes									
Drift (Y/N)	No									
Barrel General Rating		3	3	G.R. carried forward. Previous G.R. was "3" from 20/Apr/2007 inspection.						
			ownst	ream End						
Culvert Component		Last	Now	Explanation of Condition						
(Pipe # 2 Span Type: Second	larv Snan)	Luot	non							
Direction		E		North pipe						
End Treatment (Concrete, Steel, Others, None)	STEEL									
Headwall		X	X							
Collar		X	X							
Wingwalls		X	X							
(Shape: )										
Cutoff Wall		X	X							
Bevel End		N	N	No evident problems.						
Heaving (mm)	100									
Invert Above/Below Stream Bed	BELOW									
Above/Below (mm)	400			-						
Scour Protection	100	N	N	Snow covered. No problems evident						
(Avg. Bock Size(mm) : )				-						
Scour/Frasion		N	N							
Beavers (Y/N)	No									
Downstream End General Ration	ng	7	7	G.R. carried forward since 16/Aug/2005 but elements not rated in 2005 either.						
		s	Structu	re Usage						
		Last	Now	Explanation of Condition						
Channel (U/S and D/S)										
Alignment		7	5	90 deg turn 20m d/s.						
Bank Stability		N	5	Vertical banks d/s.						
HWM (m below Top of Culvert)				HWM not visible.						
Drift (Y/N)	No			0.7m in Nov 2010.						
Channel Bottom Degrading/Aggrading				Unknown.						
Beavers (Y/N)	No									

Structure Usage										
	Last Now Explanation of Condition									
(Fish Compensation Measure 1 : I	NONE)									
(Fish Compensation Measure 2 : I	NONE)									
Channel General Rating 7			5							

Maintenance Recommendations													
Inspector Recommendations		Year	Inspecto	or Comments		Department Com	ments		Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS													
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
INSTALL CONCRETE/STEEL LININ	G												
INSTALL STRUTS													
INSTALL CONCRETE COLLAR/CUT	OFF												
REPAIR SEAMS													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/ (%)	low)	33.3/33.	3	Sufficiency Rating (Last/Now) (%)		45.2/47.2	Est. Repl. Yr	st. Repl. Yr 2025		qd. (Y/N)	No		
Special Comments for Next InspectionLast barrel inspection date is unknown. Based on shape of roof Level 2 inspection not required at this time. Estimated sag/defl appears aggresive.					Department Comments								
Maintenance Reviewed By						Date		E	Estimated Total	0			
Proposed Long-Term Strategy													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name	Shane	Shane Hall				Previous Assistant's Name							
Next Inspection Date	30-Jul-	2014			Previous	evious Inspection Date 24-Nov-2010							
Inspection Cycle (Default) (months)	21												
Comment													