Bridge Inspection & Maintenance System (Web 2005)

Bridge Culvert Inspection													
Bridge File Number 85066 -1 Bridge			1 Bridge Culver	dge Culvert			Form Type		CULM				
Year Built 1989						Lot No.		2					
Bridge or Town	Bridge or Town Name ROCK LAKE						Inspector Name		Wade Nanninga				
Located Over WATERCOURSE				JRSE, WATERCRS-NI			Inspector Class			BR CLS A			
Located On	ROAD				Assistant Name								
Water Body Cl.					Assistant Class								
Navigabil. Cl./Year							Inspection Date			23-Apr-2013			
Legal Land Location SW SEC 9 TWP 52 RGE 2 W6				Л		Data E	Data Entry By Lisa Fairhurst						
Longitude, Latitude -118:14:10, 53:28:21						Data E	Data Entry Date 03-May-2013						
Road Authority Alberta Transport			Transportation	(AIT)			Reviewer Name		Eric Carcoux				
Contract Main. Area UNDEFINED CMA						Review Date			29-Apr-2013				
Clear Roadway/Skew 6 / 15 deg. (RHF)					Dept. Reviewer Name								
AADT/Year 20 / 2008			08 (E)	8 (E)					ate				
Road Classifica	ation	RLU-20	7G-60				Follow	Up By					
Detour Length	(km)	999											
Bridge Culvert	t Inform	ation											
Number of Culv	/erts		2										
Pipe #	Barrel		Span	Rise (or Dia.)		Туре		Length		Corr. Profile	PI./Slab Thickness	Shape	
1	MAIN		-	1200		MP		16.8		68X13	2.8	ROUND	
2	MAIN		-	1200		MP		16.8		68X13	2.8	ROUND	
Special Feature	es												
Special Feature	es Comr	ment											
								~					
					Ut	ilities (L	ocated	at)					
							0						
l elephone						Gas							
Power							Problem (V/N) No						
Others							Problei	n(Y/N)	INO				
Remarks		· lag.		Δ.	nnroo	ah Baar	l / Emb	nkmont					
					Last	Now	Explan	ation of	Condi	tion			
Horizontal Alignment				5	5	Intersection to South. Curve to North with limited sight distances.							
Vertical Alignme	ent				8	8	Access	to site vi	ia "Roc	k Lake" provinc	cial park jct off H	wy 40.	
i oi ii oai / ii gi ii i													
Roadway Width	ר (m)		6.000										
Embankment				5	5	2:1 on North, 1:1 on South.							
Sideslope (_:1)		1.0										
(Height of Co	ver(m) :	0.8)					1						
Guardrail (Y/N)			No										
Approach Roa	d / Emb	bankme	nt General Rat	ing	5	5							
						Unstre	am End						
Culvert Component			Last	Now	Explan	ation of	Condi	tion					
(Pipe # : 1, Sp	an Type	e: Prima	ry Span)										
Direction					N		East pi	pe.					
End Treatment (Concrete, Steel, NONE Others, None)						-							
Headwall					X	Х							
Collar					X	Х							
Wingwalls				X	X								
(Shape:)	(Shape :)												

		1	Upstre	am End
Cuivert Component	(Snan)	Last	NOW	
(Pipe # : 1, Span Type: Primary	/ Span)			
Cutoff Wall		X	X	
Bevel End		Х	Х	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm) 0				
Scour Protection			N	Snow covered
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion		7	N	
Beavers (Y/N)	No			
			-	
Upstream End General Rating		1	1	GR carried forward
		Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	an (mm	ı):	, Rise (mm): 1200, Type: MP)
Barrel Last Accessible Date	23-Apr-2013			East pipe.
Special Features			-1	
Special Feature				
(Type :)				
Special Feature				
(Type:)				
Roof		6	6	Couple of dents in roof.
Measured Rise (mm)	Measured Rise (mm) 1190			Near c/l.
Measured At Ring No.				
Sag (mm)	10			
Percent Sag	1		_	0.8%
Sidewall		7	7	
Measured Span (mm)	1220			Near c/l.
Measured At Ring No.				
Deflection (mm)	20			1.7%
Percent Deflection	2			
Floor		6	6	
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	75			
Longitudinal Seams		Х	X	
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		6	6	Minimal superficial rust on floor.
Corrosion By Soil (Y/N)	No		-	
Corrosion By Water (Y/N)	Yes			

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85066 -1 Bridge Culvert

Bridge Culvert Barrel									
Culvert Component			Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 1200, Type: MP)					
Camber POS/ZERO/NEG	NEG								
Ponding (Y/N)	No								
Fish Passage Adequacy		3	3	0.5m drop @ outlet end.					
Baffle		Х	Х						
(Туре :)			1						
Waterway Adequacy	I	5	5						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating		6	6						
Culvert Component		D	ownstr	eam End					
(Pipe # · 1 Span Type: Primer	(Span)	Last	NOW						
Direction	opan)	S		East nine					
End Treatment (Concrete, Steel, Others, None)	NONE	3		East pipe					
Headwall		Х	X						
Collar			Х						
Wingwalls		X	Х						
(Shape:)		1							
Cutoff Wall		X	X						
Bevel End		Х	Х						
Heaving (mm)									
Invert Above/Below Stream Bed									
Above/Below (mm)	0								
Scour Protection		3	N	Looks stable					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 300)									
Scour/Erosion		3	N	(Scour hole approx 4m x 0.5m depth 20May2008)					
Beavers (Y/N)	No								
Downstream End General Ratin	ng	3	3	GR carried forward					
			Upstre	am End					
Culvert Component	_	Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	lary Span)								
Direction		N		West pipe					
End Treatment (Concrete, Steel, Others, None)	NONE								
Headwall		X	X						
Collar		X	X						
Wingwalls		Х	Х						
(Shape :)									
Cutoff Wall		X	X						

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Bevel End		Х	Х	
Heaving (mm)				
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		7	N	
(Type : RIP RAP)				
(Avg. Rock Size(mm) : 300)				
Scour/Erosion			N	Snow covered
Beavers (Y/N)	No			
Unstream End General Rating		7	7	GR carried forward
		-	· ·	
		Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN, S	Span (I	mm):	, Rise (mm): 1200, Type: MP)
Barrel Last Accessible Date	23-Apr-2013			West pipe
Special Features				
(Type:)				
Roof		6	6	Near c/l
Measured Rise (mm)	1185			-
Measured At Ring No.				-
Sag (mm) 15				1.2%
Percent Sag	1			
Sidewall	1	7	7	
Measured Span (mm)	1220			-
Measured At Ring No.				-
Deflection (mm)	20			-
Percent Deflection	2		_	
Floor		7	7	_
Bulge (mm)	0			-
Measured At Ring No.				-
Abrasion (Y/N)	No			
Circumferential Seams		7	7	
Separation (mm)	40			
Longitudinal Seams		Х	X	
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		6	6	
Corrosion By Soil (Y/N)	No			
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

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Bridge Culvert Barrel									
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Secondary Span, Lo	ocation Code: MAIN, S	Span (r	nm):	, Rise (mm): 1200, Type: MP)					
Ponding (Y/N)	No								
Fish Passage Adequacy		3	3	0.5m drop @ outlet end.					
Baffle		X	Х						
(Туре :)									
Waterway Adequacy		5	5						
Icing (Y/N)	No								
Silting (Y/N)	No			-					
Drift (Y/N)	No		1						
Barrel General Rating		6	6						
		D	ownst	ream End					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 2, Span Type: Second	lary Span)								
Direction		S		West pipe					
End Treatment (Concrete, Steel, Others, None)	NONE								
Headwall		X	X						
Collar			X						
Wingwalls		X	X						
(Shape :)		1	1						
Cutoff Wall			X						
Bevel End		X	X						
Heaving (mm)									
Invert Above/Below Stream Bed									
Above/Below (mm)	0	2	N						
		3	IN						
(1ype: RIF RAF) (Avg. Rock Size(mm): 300)									
Scour/Erosion		3	N	(Scour hole 4m length x 0.5m depth May/08)					
Beavers (Y/N)	No								
Downstream End General Ratio	ng	3	3	GR carried forward					
		s	Structu	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)				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)	1							
Channel General Rating		7	7						

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Maintenance Recommendations													
Inspector Recommendations		Year Inspector Comments			Department Com	iments		Target Year	Est. Cost	Cat #			
SHOTCRETE REPAIRS													
PLACE ADDITIONAL RIP RAP	2	2013	20m3 Class I @ D/S end - if not done).									
REMOVE DRIFT ACCUMULATION													
INSTALL CONCRETE/STEEL LINING													
INSTALL STRUTS													
INSTALL CONCRETE COLLAR/CUTC	FF												
REPAIR SEAMS													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/No (%)	ow) (66.7/66.	7 Sufficiency Rating (Last/N (%)	low) 5	52.9/52.9	Est. Repl. Yr 2022		Maint. Reqd. (Y/N)		Yes			
Special Comments for Next Inspection					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	Dave La	am		Previous A	us Assistant's Name								
Next Inspection Date 23-J		2018		Previous I	us Inspection Date 20-May-2008								
Inspection Cycle (Default) (months)	57												
Comment													