Bridge Inspection & Maintenance System (Web 2005)

						je Culve	ert Inspe	ection						
Bridge File Num	ber 7	73866 -	1 Bridge Culve	rt			Form T	Form Type CUL1						
Year Built 1952						Lot No.			1					
Bridge or Town Name MUNSON							Inspec	tor Name	!	Owen Salava				
Located Over	ARY TO WES	RY TO WEST MICHICHI CREEK,					Ispector Class BR CLS A							
Located On 9:06 C1 16			16 108	01			Assista	int Name						
Water Body CI./Year			10.100				Assista	Int Class						
Navigabil. Cl./Year							Inspection Date			02-Nov-2011				
Legal Land Location SW SEC 2			C 26 TWP 30 R	GE 20 W	/4M		Data E	ntry By						
Longitude, Latitude -112:43:20		26. 51:35:41				Data Entry Date			29-Nov-2011					
Road Authority Alberta Tr		Transportation	(AIT)			Reviewer Name		John O'Brien						
Contract Main. Area CMA21			<u> </u>			Review	/ Date	NI	14-Nov-2011					
Clear Roadway/Skew 9.6 / -29		deg. (LHF)				Dept. F	keviewer	Name						
AADT/Year 2.350 / 2		2010 (A)				Dept. F		ate	25-Jan-2012					
Road Classification RAU-21		0-110				Follow	ор Ву							
Detour Length (km) 5	5												
Bridge Culvert	Informa	tion												
Number of Culverts 1														
Pipe #	Barrel		Span	Rise (or Dia.) Type				Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN	- 1500				SP		73.8		152X51	3.0	ROUND		
Special Features														
Special Features Comment														
					114	:::::		~ ()						
Utility Attachments					01	innes (1		al)						
Telephone	West di	itch					Gas							
Power 2 wire OH East ditch (F1).						Munici	nal							
Others						Proble	m (Y/N)	No						
Remarks							1 100101		110					
				Α	pproa	ch Road	d / Emba	ankment						
				Last	Now	Explan	ation of	Condit	tion					
Horizontal Alignment				7	7	On gra	de North.							
Vertical Alignment				7	7									
Roadway Width (m)			9.600			Cracks	both side	es of pi	pe in ACP, sea	led.				
Embankment					5	5	Small e	erosion cl	hannel	over both ends,	not affecting s	ideslopes,		
Sideslope (:1)		3.0			At East.									
(Height of Cover(m) : 4.8)														
Guardrail (Y/N)			No											
Approach Road	d / Emba	ankmer	nt General Rat	ing	7	7								
				Upstre	am End									
Culvert Component			Last	Now	Explan	ation of	Condi	tion						
Direction				W		18.8 ne	ew extens	sion.						
End Treatment (Others, None)	(Concret	te, Stee	I, STEEL											
Headwall					X	X								
Collar					X	Х								
Wingwalls					X	X								
(Shape :)														
Cutoff Wall					X	X								

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			Upstre	eam End					
Culvert Component		Last	Now	Explanation of Condition					
Bevel End		5	5	Bevel projects from fill 400mm & undermined @ both sides. Dented					
Heaving (mm)	100			@ North side.					
Invert Above/Below Stream Bed	BELOW								
Above/Below (mm)	100		1						
Scour Protection		4	3	(Water allowed to run along outside South edge of bevel, could					
(Type : RIP RAP)				Lause piping. Void on North side 1.8m deep. 15/Apr/2007).					
(Avg. Rock Size(mm) : 200)									
Scour/Erosion		3	3	Fines washed out from South edge of bevel, just riprap showing, undermining South edge & under bevel.					
Beavers (Y/N)	No								
Upstream End General Rating		3	3						
Culvert Component		Brid	ige Cu	Vert Barrel					
Curvert Component	tion Code: MAIN Sna	Last	NOW \.	Explanation of Condition					
Pipe # . I, Primary Span, Loca	Con New 2014	in (mm	<u>):</u>	, Rise (mm): 1500, Type: SP)					
Barrel Last Accessible Date	02-Nov-2011			U/S 1412 X 1610.					
Special Features	·								
Special Feature									
(Type:)									
Special Feature									
(Type:)									
Roof		5	5	(Piping along barrel to ring 3. 2 nuts missing @ 2 loose @ R6 & 16					
Measured Rise (mm)	1450			@ 11:00. 15/Apr/2007) Large hole @ R16, 11:00. Several nuts were					
Measured At Ring No.	16			not runy engageu.					
Sag (mm) 50				3.3%					
Percent Sag	3								
Sidewall		5	5						
Measured Span (mm)	1590								
Measured At Ring No.	14								
Deflection (mm)	90								
Percent Deflection	6								
Floor		4	4	Corrosion pitting @ floor.					
Bulge (mm)	0								
Measured At Ring No.									
Abrasion (Y/N)	No								
Circumferential Seams		7	7						
Separation (mm)	0								
Longitudinal Seams		5	5	Improper lap in original pipe. Proper lap in extensions.					
Total No. of Cracked Rings	0								
Total No. of Rings with Two Cracked Seams									
Min. Remaining Steel Between Cracks (mm)				1N stagger in original pipe. No stagger in extensions.					
Proper Lap (Y/N)	No								
Longitudinal Stagger (Y/N)	No								
Coating		4	4	Some pitting. Rust coming through bolt holes, sounds solid.					
Corrosion By Soil (Y/N)	Yes								
Corrosion By Water (Y/N)	Yes								
Camber POS/ZERO/NEG	NEG								

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Bridge Inspection & Maintenance System (Web 2005)

73866 -1 Bridge Culvert

		Brie	dge Cu	lvert Barrel					
Culvert Component		Last	Now	Explanation of Condition					
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Spa	ın (mm	ı):	, Rise (mm): 1500, Type: SP)					
Ponding (Y/N)	No								
Fish Passage Adequacy		X	Х						
Baffle		Х	Х						
(Type:)									
Waterway Adequacy		7	Х						
Icing (Y/N)	No								
Silting (Y/N)	No								
Drift (Y/N)	No								
Barrel General Rating			5						
			ownet	zoam End					
Culvert Component		Last	Now	Explanation of Condition					
Direction		E	1101						
End Treatment (Concrete, Steel, Others, None)	STEEL	_							
Headwall		X	X						
Collar		X	Х						
Wingwalls		X	X						
(Shape:)									
Cutoff Wall			X						
Devel Fed			6						
Hooving (mm)	200	0	0						
Invert Above/Below Stream Bed									
Above/Below (mm)	900								
Scour Protection		3	3	Perched outlet. Minimal riprap.					
(Type : RIP RAP)									
(Avg. Rock Size(mm) : 300)									
Scour/Erosion		N	3	Scour hole 1m deep x 8m x 4m.					
Beavers (Y/N)	No								
Downstream End General Ratio	ng	3	3						
			Structu						
		Last	Now	Explanation of Condition					
Channel (U/S and D/S)		1-0101	1						
Alignment			4	Sharp curve at U/S, enters at 90 degree.					
Bank Stability		6	6	Well vegetated, stable banks.					
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						

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			Maintenance Recomment	dations					
Inspector Recommendations	Year	Inspector Com	ments	Department Comn	nents	Tarç	get Year	Est. Cost	Cat #
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RAP	2012	Place additiona	al 20m3 Class 1 U/S & D/S.						
REMOVE DRIFT ACCUMULATION									
INSTALL CONCRETE/STEEL LINING									
INSTALL STRUTS									
INSTALL CONCRETE COLLAR/CUT(DFF								
REPAIR SEAMS									
OTHER ACTION	2012	Clay seal - 25n	13 @ U/S & D/S ends.						
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Rating (Last/N (%)	ow) 55.6/55	5.6 Suffi (%)	ciency Rating (Last/Now)	54.7/61.0	Est. Repl. Yr	020	Maint. Req	d. (Y/N)	Yes
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		Estim	ated Total	0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Jason Saly		Previous	Assistant's Name					
Next Inspection Date	02-Aug-2013		Previous	Inspection Date	10-Mar-2010				
Inspection Cycle (Default) (months)	21								
Comment									

Maintenance Recommendations											
Inspector Recommendations		Year	Inspector Comments		Department C	Commer	Target Year	Est. Cost	Cat #		
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP		2012	Place additional 20m3 Class 1 U/S	S & D/S.	Programmed		2013				
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING	G										
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUT	OFF										
REPAIR SEAMS											
OTHER ACTION		2012	Clay seal - 25m3 @ U/S & D/S en	ds.	Programmed						_
OTHER ACTION											_
OTHER ACTION											_
OTHER ACTION											
Structural Condition Rating (Last/N (%)	low)	v) 55.6/55.6 Sufficiency Rating (Las (%)			54.7/61.0 Est.		t. Repl. Yr	2020	Maint. Re	eqd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments	Progra	ammed for rep	lacement	in PMA in 202	27. DA	
Maintenance Reviewed By	Darron	Ahlsted	Jt		Date	29-Oc	t-2012		Estimated Tota	al O	
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Jason S	Saly		Assistant's Name							
Next Inspection Date	02-Aug	j-2013		Previous	Inspection Date	e	10-Mar-2010				
Inspection Cycle (Default) (months)	21										
Comment											