Bridge Inspection & Maintenance System (Web 2005)

						e Culve	ert Inspe	ection						
Bridge File Num	nber	09499 ·	-1 Bridge Culver	rt			Form T	уре		CULM				
Year Built		1955					Lot No.			1				
Bridge or Town	Name	Rocky I	Mountain House)			Inspec	tor Name		Owen Salava				
Located Over TRIBUTARY TO NORTH SASKA RIVER, 6.157, WATERCRS-ST					ATCH	EWAN	Inspect	tor Class		BR CLS A				
Located On		11.101	1 5 139.11.10 F	21 5 130			Assista	Int Name						
Water Body CL	Vear	11.10 L	1 0.100,11.101	(1 0.100			Assista	Int Class						
Navigabil CL/Y	ear						Inspect	tion Date		02-Feb-2012				
Legal Land Loc	ation	SE SE	C 4 TWP 40 RG	E 7 W/5M			Data E	Data Entry By Marcia Chavez						
Longitude Latit	ude	-114.56	3·16 52·24·29		l		Data E	Data Entry Date 01-Mar-2012						
Road Authority	440	Alberta	Transportation	(AIT)			Review	er Name		22-Eeb-2012				
Contract Main	Area	CMA18		(/ 11 /)			Review	/ Date		22-FED-2U12				
Clear Roadway	/Skew	18.9 / 1	0 dea. (RHF)				Dept. Reviewer Name			Andrew Smikles				
AADT/Year		3.140 /	2010 (A)				Dept. F	Review Da	ate	21-Mar-2012				
Road Classification RAU-213.4-120							Follow-Up By							
Detour Length (km) 10														
Bridge Culvert	Inform	ation					1			1				
Number of Culv	rerts		2											
Pipe #	Barrel	Span Rise (or D			Dia.)	Туре		Length		Corr. Profile	PI./Slab Thickness	Shape		
1	MAIN		-	1200		MP		132.9				ROUND		
2	MAIN		-	900		MP 132.9 ROL						ROUND		
Special Features								·						
Special Features Comment														
Litility Attachments					Uti	lities (L	ocated	at)						
Utility Attachme	ents	- h - i					0.00							
Power 3 wire South across M11 1 wire East r					4.4. 0.00	M00	Gas							
Power 3 wire South across M11. 1 wire East r,				/w on i	WZZ.	IVIUNICI		Na						
Others Street lights.						Problei	TI (Y/IN)	INO						
An						ch Road	l / Fmb	ankment						
					Last	Now	Explan	ation of	Condi	tion				
Horizontal Alignment				6	6	Built W	est of Jct	22 an	d M11, vertical	crest and horiz	zontal curve.			
Vertical Alignme	ent				6	6								
Roadway Width (m) 18.900														
Embankment					7 7 Gabions & riprap installed.									
Sideslope (:1) 3.0				2:1 at inlet. 5.6m coverage on East side of M22.										
(Height of Cov	ver(m) :	5.6)												
Guardrail (Y/N)			No											
Approach Road / Embankment General Rating				6	6									
						Upstre	am <u>End</u>							
Culvert Compo	onent				Last	Now	Explan	ation of	Condi	tion				
(Pipe # : 1, Spa	an Type	e: Prima	ary Span)											
Direction					E									
End Treatment Others, None)	(Concre	ete, Stee	el, NONE											
Headwall					Х	Х								
Collar					Х	Х								
Wingwalls					Х	X								
(Shape :)														

			Upstre	
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	/ Span)			1
Cutoff Wall		X	X	
Bevel End		X	Х	
Heaving (mm)	0			
Invert Above/Below Stream Bed	BELOW			
Above/Below (mm)	100			
Scour Protection		5	5	
(Type : NATURAL)				
(Avg. Rock Size(mm) :)				
Scour/Erosion		5	5	
Beavers (Y/N)	No			
Upstream End General Rating	1	5	5	
		Bri	dae Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Loca	tion Code: MAIN, Sp	ban (mm	n):	, Rise (mm): 1200, Type: MP)
Barrel Last Accessible Date	02-Feb-2012			1/2 accessible, bottom 1/2 full of water.
Special Features				
Special Feature				
(Type:)				
Special Feature				
(Type:)				
Roof		3	3	Unable to measure due to ice.
Measured Rise (mm)	1045			
Measured At Ring No.	8			
Sag (mm)	155			(05May2010)
Percent Sag	12			
Sidewall		4	4	
Measured Span (mm)	1300			
Measured At Ring No.	8			
Deflection (mm)	100			
Percent Deflection	8			
Floor		5	N	Ice covered.
Bulge (mm)	0			
Measured At Ring No.				
Abrasion (Y/N)	No			
Circumferential Seams		5	5	Measured approx 40m from U/S end.
Separation (mm)	40			1
Longitudinal Seams		X	Х	
Total No. of Cracked Rings				1
Total No. of Rings with Two				1
Cracked Seams				-
Between Cracks (mm)				-
Proper Lap (Y/N)				-
Longitudinal Stagger (Y/N)				
Coating		4	4	Superficial rust along floor.
Corrosion By Soil (Y/N)	No			-
Corrosion By Water (Y/N)	Yes			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

09499 -1 Bridge Culvert

		Bric	dge Cu	lvert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Primary Span, Locat	tion Code: MAIN, Spa	n (mm):	, Rise (mm): 1200, Type: MP)
Camber POS/ZERO/NEG	NEG			
Ponding (Y/N)	No			
Fish Passage Adequacy		4	4	Perched inlet.
Baffle		Х	Х	
(Туре :)				
Waterway Adequacy		5	5	
Icing (Y/N)	No			
Silting (Y/N)	No			At U/S end.
Drift (Y/N)	Yes			
Barrel General Rating		3	3	
		D	ownstr	eam End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 1, Span Type: Primary	v Span)	1		1
Direction	1	W		D/S end of pipe #1 is joined to pipe #2.
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		X	X	
Collar		Х	X	
Wingwalls		Х	X	
(Shape :)				
Cutoff Wall		Х	X	
Bevel End		Х	X	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)			1	
Scour Protection		Х	X	
(Type : NONE, GABION)				
(Avg. Rock Size(mm) :)			-	
Scour/Erosion		Х	X	
Beavers (Y/N)	No		-	
Downstream End General Ratir	ng	N	N	
			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	ary Span)			
Direction		E		U/S end of pipe #2 is joined to pipe #1.
End Treatment (Concrete, Steel, Others, None)	NONE			
Headwall		Х	X	
Collar		Х	X	
Wingwalls		Х	X	
(Shape :)				
Cutoff Wall		Х	X	

Alberta Transportation

			Upstre	am End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Bevel End		X	Х	
Heaving (mm)				
Invert Above/Below Stream Bed				
Above/Below (mm)				
Scour Protection		Х	Х	
(Type : NATURAL)			_	
(Avg. Rock Size(mm) :)				
Scour/Erosion		X	Х	
	Т			
Beavers (Y/N)				
Unstroom End Conorol Poting		N	N	
Opstream End General Rating				
		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): 900, Type: MP)
Barrel Last Accessible Date	24-Apr-2002			Viewed from both ends, limited access.
Special Features				
Special Feature				
(Type :)				-
Special Feature				
(Type :)				
Roof	1	N	N	-
Measured Rise (mm)				_
Measured At Ring No.				_
Sag (mm)				
Percent Sag				
Sidewall		N	N	-
Measured Span (mm)				
Measured At Ring No.				
Deflection (mm)				
Percent Deflection				
Floor		N	N	
Bulge (mm)				
Measured At Ring No.				
Abrasion (Y/N)				
Circumferential Seams		N	N	
Separation (mm)				
Longitudinal Seams		X	Х	
Total No. of Cracked Rings				
Total No. of Rings with Two				1
Cracked Seams				-
Min. Remaining Steel Between Cracks (mm)				
Proper Lap (Y/N)				
Longitudinal Stagger (Y/N)				
Coating		N	N	(Superficial rust along floor. 02/04/24)
Corrosion By Soil (Y/N)				
Corrosion By Water (Y/N)	Yes			
Camber POS/ZERO/NEG	NEG			

Alberta Transportation

Bridge Inspection & Maintenance System (Web 2005)

		Bri	dge Cu	Ivert Barrel
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Secondary Span, Lo	cation Code: MAIN,	Span (I	mm):	, Rise (mm): 900, Type: MP)
Ponding (Y/N)	No			
Fish Passage Adequacy		5	5	
Baffle		X	Х	
(Туре :)				
Waterway Adequacy		6	6	
Icing (Y/N)	No			
Silting (Y/N)	No			
Drift (Y/N)	No			
Barrel General Rating		3	3	G.R. carried forward since 24/April/2002.
		D	ownst	ream End
Culvert Component		Last	Now	Explanation of Condition
(Pipe # : 2, Span Type: Second	lary Span)			
Direction		W		
End Treatment (Concrete, Steel, Others, None)	STEEL			
Headwall		X	Х	
Collar		X	X	
Wingwalls		X	X	
(Shape :)			_	
Cutoff Wall		X	X	
Bevel End		5	5	_
Heaving (mm)	0			
Invert Above/Below Stream Bed	ABOVE			
Above/Below (mm)	2200			
Scour Protection		3	N	(Scour protection West of outlet inadequate - photo. 05May2010).
(Type : NONE, GABION)				Snow covered; gabions appear in good condition.
(Avg. Rock Size(mm) :)				
Scour/Erosion		3	N	(Channel forming on interior eroding slope protection - photo. 05May2010).
Beavers (Y/N)	No			
Downstream End General Ratio	ng	3	3	GR carried forward from 05May2010.
		5	Structu	re Usage
		Last	Now	Explanation of Condition
Channel (U/S and D/S)				
Alignment		5	5	Perpendicular to pipe. Outlet west.
Bank Stability		3	N	(Erosion @ D/S end West - photo. Gabions & riprap installed. 05May2010).
HWM (m below Top of Culvert)	0.0			HWM @ crown of D/S end.
Drift (Y/N)	Yes			Small amount of drift @ D/S.
Channel Bottom Degrading/Aggrading	DEGRADING			
Beavers (Y/N)	No			
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 ·	NONE)			

		S	tructur	e Usage
	L	Last	Now	Explanation of Condition
Channel General Rating		3	3	GR carried forward from 05May2010.

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Bridge Inspection & Maintenance System (Web 2005)

Inspector Recommendations		Year	Inspector Comments	Department Com	ments	Та	Irget Year	Est. Cost	Cat #
SHOTCRETE REPAIRS									
PLACE ADDITIONAL RIP RA	AР								
REMOVE DRIFT ACCUMUL	ATION								
INSTALL CONCRETE/STEE	EL LINING								
INSTALL STRUTS									
INSTALL CONCRETE COLL	AR/CUTOFF								
REPAIR SEAMS									
OTHER ACTION		2012	Lvl 2 inspection; small barrel not accessed 10yrs.	c					
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
OTHER ACTION									
Structural Condition Ratin((%)	g (Last/Now)	33.3/33.	.3 Sufficiency Rating (Last/Now) (%)	33.3/33.2	Est. Repl. Yr	2020	Maint. Reqo	d. (Y/N) h	ło
Special Can't see Comments for Next Inspection	enough to insp for r=3 roof rat	ect thoroug ing.	Jhly for 900mm pipe.	Department Comments					
Maintenance Reviewed By				Date		Estir	nated Total	0	
Proposed Long-Term Strate(AE								
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	OWE	en Salava	Previo	us Assistant's Name					
Next Inspection Date	02-N	Jov-2013	Previo	us Inspection Date	05-May-2010				
Inspection Cycle (Default) (m	nonths) 21								
Comment									

			Maintenance Recomn	menda	ations						
Inspector Recommendations		Year	Inspector Comments		Department C	Comme	nts		Target Year	Est. Cost	Cat #
SHOTCRETE REPAIRS											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
INSTALL CONCRETE/STEEL LINING	G										
INSTALL STRUTS											
INSTALL CONCRETE COLLAR/CUT	OFF										
REPAIR SEAMS											
OTHER ACTION		2012	Lvl 2 inspection; small barrel not accesse 10yrs.	ed in	Defer						
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/N (%)	low)	33.3/33.	3 Sufficiency Rating (Last/Now) (%)) 3:	3.3/33.2	Es	t. Repl. Yr	2020	Maint. Re	qd. (Y/N)	No
Special Comments for Next InspectionCan't see enough to inspect thoroughly for 900mm pipe.No action for r=3 roof rating.					Department Comments	Currer	ntly programme	ed to be	replaced in 201	8	
Maintenance Reviewed By Andrew Smikles					Date	30-Oc	D-Oct-2012 Estimated Total 0				
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name	Owen S	Salava	Previ	vious A	ssistant's Nan	ne					
Next Inspection Date	02-Nov	-2013	Previ	vious Ir	nspection Date	Э	05-May-2010				
Inspection Cycle (Default) (months)	21										
Comment											