Bridge Inspection & Maintenance System (Web 2005)

						Br	idge Ir	nspect	ion						
Bridge File Num	ber	74729 -1	Bridge					Form	Туре			PCS			
Year Built/Year		1971/197	'1					Lot N	0.			1			
Supstr								Inspe	ctor N	lame		Brian Pients	ch		
Bridge or Town I	Name	GRIMSH						Inspe	ctor C	Class		BR CLS A			
Located Over		MCALLIS WATERO		EEK, 8. ⁻	10.61,			Assis	tant N	lame					
Located On		684:02 C						Assis	tant C	Class					
Water Body CI./	Year	001.02 0	10.100					Inspe	ction	Date		27-Nov-201	2		
Navigabil. Cl./Ye								Data	Entry	By		Theresa Lad	custa		
Legal Land Loca		SW SEC	32 TWP	82 RGE	23 W5M	Λ		Data	Entry	Date		08-Jan-2013	3		
Longitude, Latitu		-117:34:3	-		20 1101			Revie	wer l	Vame		Eric Carcou	х		
Road Authority		Alberta T			 T)			Revie	w Da	te		08-Jan-2013	3		
Contract Main. A	vrea	CMA04	ranopora		1)			Dept.	Revi	ewer Na	ame	David Morris	son		
Clear Roadway/		9.1 / -30	dea (I HI	=)				Dept.	Revi	ew Date	;	18-Mar-201	3		
AADT/Year	0.000	270 / 201		/				Follow	<i>w</i> -Up	Ву					
Road Classificat	ion	RCU-208	. ,					-							
Detour Length (k		3	, 110					-							
Allowable Load (30		Semi	CS	2 52	1		Train	CS	3 75		> On Critic	cal Snans
		GIR					RDER			Train		RDER		>Critical N	lember
Design Loading:		HS2	0											> Primary	Span
						Pos	sting Ir	nforma	ation						
Required Load P	osting	(t)		Single				S	Semi				Truc	k Train	
Posted Loading	(t)			Single				S	Semi				Truc	k Train	
Posted:	Lane	NB		At Junc	tion (Y/N	1) (I	No	Ir	n Adv	ance (Y	/N)	No	At B	ridge (Y/N)	No
Posted:	Lane	SB		At Junc	tion (Y/N	1) (I	No	Ir	n Adv	ance (Y	/N)	No	At B	ridge (Y/N)	No
Remarks	Not re	equired.													
Hazard Marker A	At Bride	ge (Y/N)	Yes												
Remarks															
Other Sign Type	s		Bump s	ign, 45k	m/hr , Sp	beed	Warnir	ng Sigr	าร						
						Util	lities (L	_ocate	d at)						
Utility Attachmer	nts														
Telephone								Gas							
Power								Munio	cipal						
Others								Probl	em (ነ	′/N) N	lo				
Remarks															
						A	pproa	ch Ro	ad						
					La	ast	Now	Expla	anatio	on of Co	ondi	tion			
Horizontal Alignr	ment					7	7			N& S.		1) A /			
Vertical Alignme	nt					8	8	Field	appro	bach SV	vær	NVV.			
Roadway Width	(m)		8.000					40mn	n burr	nps at be	oth a	approaches.			
Approach Bump						4	3								
Guardrail (Y/N)			Yes												
Guardrail						6	6								
Length (m)			11.400												
Current Standa	ard (Y/	N)	Yes												
Termination Ty	/pe			D DOW	N										
Drainage			ENDS			6	6								
Approach Dead	Gan	ral Datin	N			7	7								
Approach Road	Gene	παι πατιή	1			7	'								

Bridge Carry	anor ⁴				Supers Now	tructure Exploration of Condition
Bridge Comp		ns lanaths	m): 8.5, A-Ide	Last		Explanation of Condition
Special Feat		ns, Lenguis	111). 8.5, A-Ide	nt Num	ber.)	
Special Feature					X	
					~	
(Type :) Special Featu					Х	
· ·	ле				^	
(Type:)	ooo/Dooly Tor	Detail Deting				
wearing Suna	ace/Deck Top			2 (0/)		Partially anough inc. any and
Lact	N (%)	1 (%)	2 (%)	3 (%)		Partially snow & ice covered.
Last Now	40.0			1	.0	
	1					Wide gracking plang girder jointe
Wearing Surf				5	3	Wide cracking along girder joints. Partially removed
(Material Ty	· · · · · · · · · · · · · · · · · · ·					
(Thickness)	· · · · · · · · · · · · · · · · · · ·					-
Lateral Conne (Y/N)	ection Problen	n Yes				
Deck Top				N	N	
Deck Rideabi	ility			5	3	Bridge wearing surface 40mm lower than road.
Deck Joints				N	N	Covered by ACP.
Bump (Y/N))	Yes			14	
Deck Drainag	je			7	7	
Drains Clogged (Y/N) No						
Curbs/Mediar	า			5	N	Grader scrapes.
	: Standard)					Light scaling on tops of curbs12-Apr-2011
Scaling (Pe		20				Snow covered
Bridge Rail				5	5	
(Type : GA	LVANIZED ST	TEEL FLEX E	BEAM)			
Bridge Rail P			· · ·	6	6	
(Type : GAI STEEL)	LVANIZED PO	OST STEEL;	GALVANIZED	POST		
Bridge Rail/P	osts Coating			6	6	
	LVANIZED)					
Sidewalk				X	X	
Girder Detail	Ratings					
Sinder Detail	N (count)	1 (count)	2 (count)	3 (cou	int)	
Last	11	0	0		0	1
Now	0	0	3	-	3	
Girders		<u> </u>		N	2	G1,2,3,4,5,6 spalls both legs in anchorage zone.
	e Inspection E	ate 27-No	v-2012	14	~	Spalls & corrosion stains around deck drains, photo
Cracking (Y	•	Yes	¥ 2012			- G3,4,7 unsound concrete above rebar in AZ. All girders have spalls and wide cracking in AZ on at least 1 leg.
	ercent Area)	30				G7,8,9,10,11 spalls in AZ, 1 leg.
Lift or Conne	ctor Pocket	No				Lift book pockets on outbo are not grouted, 12 Apr 2012
Grouted (Y/N (Number Of C						Lift hook pockets on curbs are not grouted12-Apr-2012 Snow covered.
Span Alignm						
Vertical (Y/		No				Bridge has twisted 300m out of alignment due to skew. photo
Horizontal (Yes				
Superstructu	ure General R	ating		2	2	GR carried forward.

Alberta Transportation

				Subst	ructure
ponent			Last	Now	Explanation of Condition
Backwall Piles	s (Y/N) : Y)				Bridge is twisting in skew. Caps tipping back at both abutments, 10
Backwall Piles	s Spacing(mm	n) : 1500)			deg. SW corners.
er of Caps/Co	rbels : 3:3)				Bridge is twisting in skew. Caps tipping back at both abutments, 10
	· · · · · · · · · · · · · · · · · · ·	ngs			deg. SW corners.
N (count)	1 (count)	2 (count)	3 (cou	nt)	
6	0	0			
ts/Caps/Corbe	ls		N	8	
EATED TIMB	ER)				
n) : 350)					
n) : 300)					
reastwalls			3	4	Backwall separation on S. side 35mm.
leight (m)	3.00				No fill coming through08-Oct-2009 Both backwalls pushing out, evident from W side.
			4	Δ	50mm gap NE corner.
er of Bearing F	Piles : 7:7)				Couldn't access under bridge due to water levels.
Ratings					Grouted capitals installed
N (count)	1 (count)	2 (count)	3 (cou	nt)	
14	0	0		0	
			N	5	
g			X	X	
ability			2	4	Relating in 10 deg. twisting in skew.
ability			3	4	Relating in To deg. twisting in skew.
on			N	5	
ar of Cana/Ca	rhala ()				-
I	/				-
· ·		1	3 (00)	nt)	-
			3 (COU	11()	-
ts/Caps/Corbs			×	x	-
.o, oupo, oorbe				~	
ı) ·)					
	Piles :)				
					1
	1 (count)	2 (count)	3 (cou	int)	1
		(/	1
					1
les			Х	Х	1
ts/Sheathing			6	6	Steel pipe struts. Coating is mostly flaked off and steel is rusting.
			X	X	
7			×	×	
g escription :)			X	Х	
	Backwall Piles Backwall Piles Backwall Piles Backwall Piles Backwall Piles Backwall Piles Backwall Piles Backwall Piles Backwall Piles Caps/Corbe EATED TIMB D : 350) D : 350) D : 300) reastwalls leight (m) Treastwalls leight (m) Backwall Piles Backwall Piles	Backwall Piles (Y/N) : Y) Backwall Piles Spacing(mm Image: status Image: status	Backwall Piles Spacing(mm) : 1500) er of Caps/Corbels Detail Ratings N (count) 1 (count) 2 (count) 6 0 0 scaps/Corbels 2 (count) 1 a 0 0 ts/Caps/Corbels 2 (count) 0 a 0 0 scaps/Corbels 2 (count) 0 ts/Caps/Corbels 3.00 1 reastwalls 3.00 2 (count) 1 (count) 1 (count) 2 (count) ability 1 (count) 2 (count) xts/Caps/Corbels 2 (count) 1 (count) xts/Caps/Corbels 2 (count) 2 (coun	Backwall Piles (Y/N) : Y) Backwall Piles Spacing(mm) : 1500) er of Caps/Corbels Detail Ratings N (count) 1 (count) 2 (count) 3 (count) 6 0 0 0 Cape 0 0 Cap	Backwall Piles (Y/N) : Y)Backwall Piles Spacing(mm) : 1500)er of Caps/Corbels Detail RatingsN (count)1 (count)2 (count)3 (count)6000EATED TIMBER)ts/Caps/CorbelsN8EATED TIMBER)is 350)is 350)is 350)is 350)is 350)is aso)reastwalls34ieight (m)3.00ieight (m)3.00ieight (m)3 (count)1 (count)2 (count)3 (count)1400-ieight (m)3ieight (m)ieight (m)ieight (m)ieight (m)ieight (m)

Alberta Transportation

			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		X	X	
Scour		Х	Х	
Debris (Y/N)	No			
Substructure General Rating		3	5	
		S	Structu	re Usage
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				-
(D/S Direction : E)				-
Alignment		5	5	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		N	5	
(Туре :)				
Guidebank/Spurs		Х	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1	NONE)			
(Fish Compensation Measure 2	: NONE)			
Channel General Rating		5	5	

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		Maintenance Recommendations	endations		-			
Inspector Recommendations	Year	Inspector Comments	Department Comments	nents	Target Year		Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL								
SEAL CURBS								
PATCH DECK								
OVERLAY DECK								
STRAIGHTEN/REPLACE MEMBERS								
WASHING								
SHOTCRETE REPAIRS								
CORE TIMBER CAPS/CORBELS								
REPAIR/REPLACE TIMBER CAPS								
REPAIR ABUTMENT SCOUR/EROSION	7							
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION								
INSTALL STRUTS								
OTHER ACTION	2013	Replacement or Replace girders.						
OTHER ACTION								
OTHER ACTION								
OTHER ACTION								
Structural Condition Rating (Last/Now) (%)	v) 27.8/38.9	.9 Sufficiency Rating (Last/Now) (%)	58.9/62.6	Est. Repl. Yr 2	2013 Ma	Maint. Reqd. (Y/N)		Yes
Special Monitor abutment movement. Comments for Monitor girders -08-Oct-2009 Next Inspection Low Rating Advisory sent to I Replace structure with 2-305(vement. ct-2009 sent to David Λ າ 2-3050mm S	Monitor abutment movement. Monitor girders -08-Oct-2009 Low Rating Advisory sent to David Morrison 27-Nov-2012. Replace structure with 2-3050mm SPCSP culverts as per 2011 Assessment Report.	Department Comments bort.					
Maintenance Reviewed By			Date		Estimated Total		0	
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								
Proposed Action								
Previous Inspector's Name	Brian Pientsch	Previ	Previous Assistant's Name	Lisbeth Medina				
Next Inspection Date	27-Feb-2014	Previ	Previous Inspection Date	12-Apr-2011				
Inspection Cycle (Modified) (months) 1	15							
Comment								

				Maintenance Re	commend	ations					
Inspector Recom	nmendations	Year	Inspect	or Comments		Department Com	ments		Target Year	Est. Cost	Cat #
REPAIR/REPLA	CE BRIDGE RAIL										
SEAL CURBS											
PATCH DECK											
OVERLAY DECH	<										
STRAIGHTEN/R	EPLACE MEMBERS										
WASHING											
SHOTCRETE R	EPAIRS										
CORE TIMBER	CAPS/CORBELS										
REPAIR/REPLA	CE TIMBER CAPS										
REPAIR ABUTM	IENT SCOUR/EROSI	ON									
PLACE ADDITIC	NAL RIP RAP										
REMOVE DRIFT	ACCUMULATION										
INSTALL STRUT	ſS										
OTHER ACTION	l	2013	Replace	ement or Replace girders.							
OTHER ACTION	l										
OTHER ACTION	1										
OTHER ACTION	l										
Structural Cond	Structural Condition Rating (Last/Now) (%)			Sufficiency Rating (Last/		58.9/62.6	Est. Repl.	Yr 2013			V
(%)		ow) 27.8/3		(%)		00.9/02.0		2013	Maint. Re	qd. (Y/N)	Yes
(%) Special Comments for Next Inspection	Monitor abutment m Monitor girders -08-0 Low Rating Advisory	ovement. Oct-2009 / sent to David	l Morrison	(%)		Department Comments		2013	Maint. Re	qd. (Y/N)	Yes
(%) Special Comments for	Monitor abutment m Monitor girders -08-0 Low Rating Advisory Replace structure w Report.	ovement. Oct-2009 / sent to David	l Morrison	(%) 27-Nov-2012.		Department			Estimated Tota		Yes
(%) Special Comments for Next Inspection	Monitor abutment m Monitor girders -08-(Low Rating Advisory Replace structure w Report.	ovement. Oct-2009 / sent to David	l Morrison	(%) 27-Nov-2012.		Department Comments					Yes
(%) Special Comments for Next Inspection Maintenance Re	Monitor abutment m Monitor girders -08-(Low Rating Advisory Replace structure w Report. viewed By Term Strategy	ovement. Oct-2009 / sent to David	l Morrison	(%) 27-Nov-2012.		Department Comments					Yes
(%) Special Comments for Next Inspection Maintenance Re Proposed Long-	Monitor abutment m Monitor girders -08- Low Rating Advisory Replace structure w Report. viewed By Term Strategy	ovement. Oct-2009 / sent to David	l Morrison	(%) 27-Nov-2012.		Department Comments					Yes
(%) Special Comments for Next Inspection Maintenance Re Proposed Long- ⁻ On 3-Year Progr	Monitor abutment m Monitor girders -08- Low Rating Advisory Replace structure w Report. viewed By Term Strategy am (Y/N)	ovement. Oct-2009 / sent to David	I Morrison SPCSP c	(%) 27-Nov-2012.	nent	Department Comments					Yes
(%) Special Comments for Next Inspection Maintenance Re Proposed Long- On 3-Year Progr Proposed Action	Monitor abutment m Monitor girders -08-(Low Rating Advisory Replace structure w Report. viewed By Term Strategy am (Y/N)	ovement. Oct-2009 / sent to David ith 2-3050mm	I Morrison SPCSP c	(%) 27-Nov-2012.	Previous	Department Comments Date	Lisbet				Yes

Comment