Bridge Inspection & Maintenance System (Web 2005)

						:	Bridge li	nspec	tion						
Bridge File Num	nber	77571 -1	Bridge					Form	п Туре			PCS			
Year Built/Year 1960/1960 Supstr							Lot N	lo.			1				
•								Inspe	Inspector Name			Owen Salava			
								Inspector Class			BR CLS A				
Located Over		WIGWAM CREEK, 3.112, WAT				CR	S-ST	Assistant Name							
Located On								Assis	stant C	Class					
Water Body Cl./								Inspe	nspection Date 29-Nov-2010						
Navigabil. Cl./Y								Data	Data Entry By Marcia Chavez						
Legal Land Loc		SW SEC	18 TWP	31 RGE	9 W5M			Data	Entry	Date		03-Jan-2011	1		
Longitude, Latit	ude	-115:16:0	08, 51:39	:03				Reviewer Name John O'Brien							
Road Authority		Alberta T	ransporta	ation (AIT	Γ)			Review Date 16-Dec-2010							
Contract Main.	Area	CMA28						Dept	. Revi	ewer Na	ame	Chris Black			
Clear Roadway/Skew 6.7 / 15 deg. (RHF)										ew Date		12-Jan-201	1		
AADT/Year 100 / 2009 (A)								· ·	w-Up						
Road Classification RCU-208G-90								_	990	,					
Detour Length (km) 80															
Allowable Load (t): Single CS1 28 Sem			Semi		S2 49 IRDER			Train		3 62 RDER		> On Critic	al Spans lember		
Design Loading	:	HS2	0			1								> Primary	Span
		(1)		<u>.</u>		Po	osting li						_		
Required Load Posting (t) Single							Semi					k Train			
Posted Loading	1	Single					20.0		Semi			40.0 Truck Train			54.0
Posted:	Lane						No					ridge (Y/N)	Yes		
Posted:	Lane					1)	No		In Advance (Y/N) Yes At Bridge (Y/N) Yes				Yes		
Remarks		quired.													
Hazard Marker	At Brid	ge (Y/N)	Yes												
Remarks				irds are t											
Other Sign Type	es		Creek s	igns at N	IE corne			- U		corner &	Tex	as gate 200	m.		
						Ut	ilities (l	Locate	ed at)						
Utility Attachme	nts							-							
Telephone								Gas							
Power								Muni	•						
Others								Prob	lem (\	′/N) N	0				
Remarks															
							Approa								
	ment				La	ast	Now			on of Co					
Horizontal Align						6	6	'T' intersection to approach road 50m SW.							
Vertical Alignme			7.000			7	7	-							
Roadway Width			7.000			7	-								
Approach Bump)		V c -			7	7	-							
Guardrail (Y/N)			Yes			7	-	-							
Guardrail			10.000			7	7	Incut	ficiant	nooto//	20.04	`			
Length (m)		N I)	12.000					msut	ncient	posts/le	engti	1.			
Current Stand		IN)	No	-1 4				-							
Termination T	уре		Modifie	d turndov	vn	4	0	<u> </u>							
Drainage						4	6	1							
						_									

Bridge Com		ana Lanatha				Explanation of Condition
		ans, Lengtns	(m): 6.1-6.1, A	-Ident N	lumbe	r:)
Special Feat					×	
Special Feat	ure				X	
(Type:)						-
Special Feat	ure				X	
(Туре:)						
Wearing Surf	ace/Deck To	p Detail Ratin	gs			
	N (%)	1 (%)	2 (%)	3 (%)		Snow covered.
Last						-
Now	100.0	0.0	0.0	0	0.0	
Wearing Surf	ace			X	X	
(Material T	ype:)					
(Thickness	(mm) :)					
Lateral Conn (Y/N)	ection Proble	m				
Deck Top				N	N	(50mm gravel covered. Deck top abraided where exposed. 24Nov2005). Snow covered. Holes in girder top (photo).
Deck Rideability					5	
Deck Joints				N	N	Buffer angles.
Bump (Y/N) No						
Deck Drainage				5	5	
Drains Clogged (Y/N) No						
Curbs/Median				3	N	(Timber wheelguard - rot. 24Nov2005). Snow covered.
(Curb Type : Standard)						S curb spalled over pier from post anchor (photo).
Scaling (Percent Area) 5						
Bridge Rail				4	4	Single layer, improper lap @ North rail.
(Type : FLE	EX BEAM)					
Bridge Rail P	· · · ·			3	4	S3 vertical split - minor. Posts not bolted tight to girders (photo).
(Type : CO	PPER CHRC		NATE TREAT			Rail only - peeling.
TIMBER; COPPER CHROMATE ARSENATE TREAT Bridge Rail/Posts Coating				3	3	
(Type : PA						
Sidewalk				X	X	
Girder Detail	Ratings	1	1			
	N (count)	1 (count)	2 (count)	3 (count)		
Last					9	
Now	0	0	0		9	
Girders				3	3	Most girders with drift spall exposing dowel pin. 50% have flexural
Last Comple	te Inspection	Date 29-No	v-2010			cracks extending from leg to leg. Wide cracks in AZ both legs. Majority of girders are not bolted together - photo. Spalls in AZ, 3
Cracking ((/N)	Yes				girders. Post has cracked South curb girder leg over pier.
	ercent Area)	17				No connector pockets.
Lift or Conne Grouted (Y/N	ctor Pocket	No				
(Number Of (Girders : 16)					
Span Alignn	nent Problem	ns				
Vertical (Y/		No				
Horizontal		No				
Superstruct	· · · ·			3	3	
Superonaut				Ŭ	Ŭ	

Alberta Transportation

					Subst	ructure
Bridge Com	ponent			Last	Now	Explanation of Condition
Abutments						
(Extended	Backwall Piles	(Y/N) : Y)				_
(Extended Backwall Piles Spacing(mm) : 1000)						
	er of Caps/Cor					_
Bearing Seat	s/Caps/Corbe					-
	N (count)	1 (count)	2 (count)	3 (cou	int)	-
Last						-
Now	0	0	0	_	0	-
	s/Caps/Corbe			5	5	-
		=R)				-
(Depth(mm						-
(Width(mm Backwalls/Br				3	3	Bushing in W shut at D4 (shate)
Greatest H		3.00		3	3	Pushing in W abut at P4 (photo).
Wingwalls		3.00		4	4	Stream erosion at SE corner (photo).
				4	4	
(Total Numbe	er of Bearing F	Piles : 5:5)				Extended piles are rotten / hollow. All piles showing age. Wide
Piles Detail R	atings					checking (photo). Hammer sound revealed hollow in Å1P1, P2 & P4 - suspect rot. A1P4 missing anchor tie back & top of pile is 125mm
	N (count)	1 (count)	2 (count)	3 (cou	unt)	outside cap - photo. (Uneven bearing due to backwall pressure
Last					3	eroding under W abut. 29Nov2010).
Now	0	0	0		3	_
Piles				3	3	
Paint/Coating)			X	X	
Abutment Stability			4	4	Backwall pushin in W abut.	
				-	-	
Scour/Erosion				4	N	
Piers/Bents						The bight to be served as an all
	R-COLUMN)					Too high to hammer sound.
	er of Caps/Cor s/Caps/Corbel		nas			-
Deaning Seat	N (count)	1 (count)	2 (count)	3 (cou	int)	-
Last				0 (000		
Now	0	0	0		0	1
	s/Caps/Corbe			6	6	1
	EATED TIMB			-	2	1
(Depth(mm		/				1
(Width(mm						
	er of Bearing F	Piles : 5)				Showing age where exposed at top. Fully sheathed.
Piles Detail R	v					
	N (count)	1 (count)	2 (count)	3 (cou	unt)	
Last						
Now	5	0	0		0	
Pier Shaft/Pil	es			N	N	
Greatest H		2.50				
Bracing/Strut	s/Sheathing			7	4	Struts only on 2 piles under W span only (photo).
Nose Plate				4	4	A timber pile acts as nose protector, does not extend to streambed.
				4	4	
Paint/Coating)			Х	X	
(Colour De	scription :)					
(Colour Co	de:)					
Pier Stability				7	7	
					 Dogo	3 of 5

			Subst	ructure				
Bridge Component		Last	Now	Explanation of Condition				
Scour		7	7					
Debris (Y/N)	Yes			Heavy gravel accumulation under S2, heavy drift under S2 - photos.				
Substructure General Rating		3	3					
		Ś	Structu	re Usage				
		Last	Now	Explanation of Condition				
Channel								
(U/S Direction : S)				Heavy gravel deposit in U/S side diverting flow to both sides of gravel				
(D/S Direction : N)				bar - photo. Heavy gravel buildup under S2. Heavy deadfall in both channels. Access bridge to rec area 50m u/s.				
Alignment			4					
Bank Stability			4	Vertical banks d/s.				
HWM (m below Top of Curb)			_	HWM not visible.				
Drift (Y/N)	Yes							
Slope Protection		3	3	Insufficient at West abutment.				
(Type : GRAVEL; GRAVEL)								
Guidebank/Spurs		Х	X					
Adequacy of Opening			4	Partially blocked under S2 by gravel buildup.				
(Fish Compensation Measure 1	: NONE)							
(Fish Compensation Measure 2	: NONE)							
Channel General Rating		4	3					

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	-	Maintenance	Maintenance Recommendations	ations		-			
Inspector Recommendations	Year	Inspector Comments		Department Comments	iments	<u> </u>	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2011	Bolt rail posts to curb units (South side)	n side).						
SEAL CURBS									
PATCH DECK									
OVERLAY DECK									
STRAIGHTEN/REPLACE MEMBERS									
WASHING									
SHOTCRETE REPAIRS									
CORE TIMBER CAPS/CORBELS									
REPAIR/REPLACE TIMBER CAPS	2011	Core caps & piles and assess, if not done	not done.						
REPAIR ABUTMENT SCOUR/EROSION	7								
PLACE ADDITIONAL RIP RAP	2011	2m3 CL 1 at SE wingwall.							
REMOVE DRIFT ACCUMULATION									
INSTALL STRUTS									
OTHER ACTION	2011	Replace stream ID signs (Wigwam Creek)	m Creek).						
OTHER ACTION	2011	Add fill @ NW corner, behind wingwall & armour with rock, if not done.	igwall &						
OTHER ACTION	2011	Fix HMs to correct height. Add new HM at NE corner.	ew HM at NE						
OTHER ACTION									
Structural Condition Rating (Last/Now) (%)	/) 33.3/33.3	3.3 Sufficiency Rating (Last/Now) (%)		48.1/46.9	Est. Repl. Yr	2015	Maint. Reqd. (Y/N)		Yes
Special Measure cracking in l Comments for Next Inspection	egs & girders	Measure cracking in legs & girders. Check W abut cap/pile alignment.		Department Comments					
Maintenance Reviewed By				Date		Es	Estimated Total	0	
Proposed Long-Term Strategy 2	007.10.10 Or 005.09.07 R€	2007.10.10 On spot program for 2012. 2005.09.07 Replace by 2011.							
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name	Dave Lam		Previous /	Previous Assistant's Name					
Next Inspection Date 2	28-Feb-2014		Previous I	Previous Inspection Date	24-Nov-2005				
Inspection Cycle (Default) (months) 3	39								
Comment									

				Maintenance Recommend	lations					
Inspector Recommendations		Year	Inspecto	or Comments	Department (Comments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL		2011	Bolt rail	posts to curb units (South side).	Defer, being	designed for replaceme	ent.			
SEAL CURBS										
PATCH DECK										
OVERLAY DECK										
STRAIGHTEN/REPLACE MEMBERS	6									
WASHING										
SHOTCRETE REPAIRS										
CORE TIMBER CAPS/CORBELS										
REPAIR/REPLACE TIMBER CAPS		2011	Core cap	ps & piles and assess, if not done.	Cored 2011					
REPAIR ABUTMENT SCOUR/EROS	ION									
PLACE ADDITIONAL RIP RAP		2011	2m3 CL	1 at SE wingwall.	Defer, being	designed for replaceme	ent.			
REMOVE DRIFT ACCUMULATION										
INSTALL STRUTS										
OTHER ACTION		2011	Replace	stream ID signs (Wigwam Creek).	To operations	3				
OTHER ACTION		2011	Add fill @ armour w	W corner, behind wingwall & with rock, if not done.	Defer, being	designed for replaceme	ent.			
OTHER ACTION		2011	Fix HMs to correct height. Add new HM at N corner.		To operations					
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)		33.3/33	3.3 Sufficiency Rating (Last/Now) (%)		48.1/46.9	Est. Repl. Yr	2015	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection	n legs 8	k girders.	Check W	V abut cap/pile alignment.	Department Comments	South abutment- Beg good. Beginning rot ir cores @ P4. Pier- Cap cored adeq North Abutment- Cap cores @ P2,4&5. Rot above core. Currently being desig program year.	uate. Be cored a in botto	five piles with reginning rot in f dequate. Begir m core of P3 w	rot in two bo our of five p nning rot in vith beginnir	bitom biles. bottom ng rot in
Maintenance Reviewed By	Andrev	v Smikle	s		Date			Estimated Total 0		
Proposed Long-Term Strategy	2007.1 2005.0	0.10 On 9.07 Rej	spot prog place by 2	gram for 2012. 2011.						
On 3-Year Program (Y/N)										
Proposed Action										

Bridge Inspection & Maintenance System (Web 2005)

Previous Inspector's Name	Dave Lam	Previous Assistant's Name	
Next Inspection Date	28-Feb-2014	Previous Inspection Date	24-Nov-2005
Inspection Cycle (Default) (months)	39		
Comment			