Bridge Inspection & Maintenance System (Web 2005)

Duides Elle M						Bridge Ir	spection						
Bridge File Num	ber	08036 -1	Bridge				Form Type			SG			
Year Built/Year		1959/195	9				Lot No.			1			
Supstr							Inspector Nam	ne		Brian Pients	ch		
Bridge or Town		HINTON					Inspector Clas	s		BR CLS A			
Located Over		REDWILI WATERC		ER, 8.10.58.	18.8,		Assistant Nam			Russel Vand	lersch	naaf	
Located On		722:02 C					Assistant Clas	s		BR CLS B			
Water Body CI./	Year						Inspection Da	te		14-Dec-2012	2		
Navigabil. Cl./Ye							Data Entry By			Theresa Lac	usta		
Legal Land Loca		NE SEC	24 TWP	70 RGE 11 W	/6M		Data Entry Da	ite		02-Jan-2013			
Longitude, Latitu		-119:31:3	5, 55:04:	54		Reviewer Na				Eric Carcoux	(
Road Authority				ation (AIT)			Review Date			19-Dec-2012	2		
Contract Main, A		CMA05					Dept. Reviewe	er Nar	Name David Morrison				
Clear Roadway/		7.3 /					Dept. Review	Date	20-Feb-2013				
AADT/Year		1,080 / 20	011 (A)				Follow-Up By						
Road Classification RCU-209-110													
Detour Length (I		999											
Allowable Load				Sem		S2 64	Train CS3 80> GIRDER>			> On Critic	al Spans		
Design Loading:		HS2					I					> Primary	
2 00.g.: 200.0g.		1102	0		Р	Postina Ir	formation					P T Timory	opun
Required Load F	Posting	(t)		Single			Semi				Truc	k Train	
Posted Loading		()		Single			Semi				Truck Train		
Posted:	Lane	NB		At Junction (Y/N)	No	In Advanc	Advance (Y/N)		No	At Bridge (Y/N) No		No
Posted:	Lane	SB		At Junction (No			No	At Bridge (Y/N) No			
Remarks	Not ree	quired.				_							
Hazard Marker A			Yes										
Remarks		- (,		northwoot bo									
				nonnwescha	izard r	markers.	south hazard m	harker	r not	attached to	appro	ach rail and t	oo hiah.
Other Sign Type	s						south hazard m Bus Stop 300		r not	attached to	appro	each rail and t	oo high.
Other Sign Type	es				e, Dee	er, Schoo	south hazard m Bus Stop 300i .ocated at)		r not	attached to	appro	each rail and t	oo high.
Other Sign Type Utility Attachmer					e, Dee	er, Schoo	Bus Stop 300		r not	attached to	appro	bach rail and t	oo high.
	nts	West curb	Narrow		e, Dee	er, Schoo	Bus Stop 300	m.		attached to			oo high.
Utility Attachmer	nts Along	edge of e	Narrow	Bridge, Curve	e, Dee U	er, Schoo Itilities (L	Bus Stop 300 .ocated at) Gas Municipal	m. 20	m S				oo high.
Utility Attachmer Telephone	nts Along 1 wire	edge of e	Narrow	Bridge, Curve a abutment.	e, Dee U	er, Schoo Itilities (L	Bus Stop 300 .ocated at) Gas	m. 20	m S				oo high.
Utility Attachmer Telephone Power	nts Along 1 wire abutm	edge of e ent.	Narrow	Bridge, Curve a abutment. Power crosses	e, Dee U s at so	er, Schoo Itilities (L	Bus Stop 300 .ocated at) Gas Municipal	m. 20) Ye	m S s				oo high.
Utility Attachmer Telephone Power Others	nts Along 1 wire abutm	edge of e ent.	Narrow	Bridge, Curve a abutment. Power crosses	e, Dee U s at so	er, Schoo Itilities (L outh Conduit o	Bus Stop 300 .ocated at) Gas Municipal Problem (Y/N)	m. 20) Ye	m S s				oo high.
Utility Attachmer Telephone Power Others	nts Along 1 wire abutm	edge of e ent.	Narrow	Bridge, Curve a abutment. Power crosses	e, Dee U s at so	er, Schoo Itilities (L outh Conduit c Approa	Bus Stop 300 .ocated at) Gas Municipal Problem (Y/N) letached @ SW	m. 20) Ye √ corn	m S es ner.	outh crosses			oo high.
Utility Attachmer Telephone Power Others	Along 1 wire abutm Phone	edge of e ent.	Narrow	Bridge, Curve a abutment. Power crosses	e, Dee U s at so ment. (er, Schoo Itilities (L outh Conduit c Approa	Bus Stop 300 cocated at) Gas Municipal Problem (Y/N) detached @ SW ch Road Explanation of Curves both e	m. 20) Ye V corn of Cor	m S es ner. ndit i	outh crosses	road		
Utility Attachmer Telephone Power Others Remarks	Along 1 wire abutm Phone	edge of e ent.	Narrow	Bridge, Curve a abutment. Power crosses	e, Dee U s at sc ment. (Last	er, Schoo Itilities (L outh Conduit o Approa t Now	Bus Stop 300 cocated at) Gas Municipal Problem (Y/N) detached @ SW ch Road Explanation of	m. 20) Ye V corn of Cor	m S es ner. ndit i	outh crosses	road		
Utility Attachmer Telephone Power Others Remarks Horizontal Aligni	Along 1 wire abutm Phone ment ent	edge of e ent.	Narrow	Bridge, Curve a abutment. Power crosses	e, Dee U s at so ment. (Last 5	er, Schoo Itilities (L outh Conduit o Approa t Now 5	Bus Stop 300 cocated at) Gas Municipal Problem (Y/N) detached @ SW ch Road Explanation of Curves both e	m. 20) Ye V corn of Cor	m S es ner. ndit i	outh crosses	road		
Utility Attachmer Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width	Along 1 wire abutm Phone ment (m)	edge of e ent.	Narrow	Bridge, Curve a abutment. Power crosses	e, Dee U s at so ment. (Last 5	er, Schoo Itilities (L outh Conduit o Approa t Now 5	Bus Stop 300 cocated at) Gas Municipal Problem (Y/N) detached @ SW ch Road Explanation of Curves both e	m. 20) Ye V corn of Cor	m S es ner. ndit i	outh crosses	road		
Utility Attachmer Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width	Along 1 wire abutm Phone ment (m)	edge of e ent.	Narrow	Bridge, Curve a abutment. Power crosses	e, Dee U s at so ment. 0 Last 5 5	er, Schoo Itilities (L outh Conduit of Approa t Now 5 5	Bus Stop 300 .ocated at) Gas Municipal Problem (Y/N) letached @ SW ch Road Explanation of Curves both e distance both SE rail too low	m. 20) Ye V corn of Cou onds. \ sides.	m S es ner. nditi	outh crosses ion ical curve, br /e damage. N	idge (on grade, limit	red sight
Utility Attachmer Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Approach Bump	Along 1 wire abutm Phone ment (m)	edge of e ent.	Narrow b & South east r/w. F bsed alon 8.600	Bridge, Curve a abutment. Power crosses	e, Dee U s at so ment. 0 Last 5 5	er, Schoo Itilities (L outh Conduit of Approa t Now 5 5	Bus Stop 300 .ocated at) Gas Municipal Problem (Y/N) letached @ SW ch Road Explanation of Curves both e distance both	m. 20) Ye V corn of Cou onds. \ sides.	m S es ner. nditi	outh crosses ion ical curve, br /e damage. N	idge (on grade, limit	red sight
Utility Attachmer Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Approach Bump Guardrail (Y/N)	Along 1 wire abutm Phone ment (m)	edge of e ent.	Narrow b & South east r/w. F bsed alon 8.600	Bridge, Curve a abutment. Power crosses	e, Dee U s at so ment. (Last 5 5 5	er, Schoo Itilities (L buth Conduit of Approa t Now 5 5 5	Bus Stop 300 .ocated at) Gas Municipal Problem (Y/N) letached @ SW ch Road Explanation of Curves both e distance both SE rail too low	m. 20) Ye V corn of Cor of Cor sides. V, exte 01-Ju	m S es ner. nditi	outh crosses ion ical curve, br /e damage. N	idge (on grade, limit	red sight
Utility Attachmer Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Approach Bump Guardrail (Y/N) Guardrail	Along 1 wire abutm Phone ment (m)	edge of e ent.	Narrow b & South east r/w. F bsed alon 8.600 Yes	Bridge, Curve a abutment. Power crosses	e, Dee U s at so ment. (Last 5 5 5	er, Schoo Itilities (L buth Conduit of Approa t Now 5 5 5	Bus Stop 300 ocated at) Gas Municipal Problem (Y/N) detached @ SW ch Road Explanation of Curves both e distance both SE rail too low at NE corner	m. 20) Ye V corn of Cor of Cor sides. V, exte 01-Ju	m S es ner. nditi	outh crosses ion ical curve, br /e damage. N	idge (on grade, limit	red sight
Utility Attachmer Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Approach Bump Guardrail (Y/N) Guardrail Length (m)	Along 1 wire abutma Phone ment (m) ard (Y/N	edge of e ent.	Narrow b & South ast r/w. F bsed alon 8.600 Yes 11.400	Bridge, Curve a abutment. Power crosses g south abutr	e, Dee U s at so ment. (Last 5 5 5	er, Schoo Itilities (L buth Conduit of Approa t Now 5 5 5	Bus Stop 300 ocated at) Gas Municipal Problem (Y/N) detached @ SW ch Road Explanation of Curves both e distance both SE rail too low at NE corner	m. 20) Ye V corn of Cor of Cor sides. V, exte 01-Ju	m S es ner. nditi	outh crosses ion ical curve, br /e damage. N	idge (on grade, limit	red sight
Utility Attachmer Telephone Power Others Remarks Horizontal Align Vertical Alignme Roadway Width Approach Bump Guardrail (Y/N) Guardrail Length (m) Current Stand	Along 1 wire abutma Phone ment (m) ard (Y/N	edge of e ent.	Narrow D & South D & South D ast r/w. F D sed alon 8.600 Yes 11.400 No	Bridge, Curve a abutment. Power crosses g south abutr	e, Dee U s at so ment. (Last 5 5 5	er, Schoo Itilities (L buth Conduit of Approa t Now 5 5 5	Bus Stop 300 ocated at) Gas Municipal Problem (Y/N) detached @ SW ch Road Explanation of Curves both e distance both SE rail too low at NE corner	m. 20) Ye V corn nds. \ sides. /, exte 01-Ju	m S es ner. nditi v/erti ensiv un-20	outh crosses ion ical curve, br //e damage. N 012	idge o	bridge. Pond	ed sight

Bridge Comp							Explanation of Condition			
		ans, Len	gths(n	n): 19.5-24.4-1	19.5, A	-Ident I	Number: A0296-01)			
Special Feat						X				
Special Featu	ire					X				
(Type:)										
Special Featu	ıre					X				
(Type :) Wearing Surface/Deck Top Detail Ratings					1					
Wearing Surfa			Ratings							
-	N (%)	1 (%)		2 (%)	3 (%)		-			
Last				15		0	-			
Now	90.0	0	.0	5.0	5	.0				
Wearing Surface (Material Type : CONCRETE - CONVENTIONAL CHI COAT) (Thickness(mm) : 50)				NTIONAL CHI	2 P SEA	2 L	Random wide cracks. 10% loss of chip coat. Several patched areas. Concrete spalls under chip sealphoto Large delam area with large wide cracks over pier 1 near old repair @ 300mm spacing, cracks open with traffic photo			
<u> </u>					1	1	Spalling around rebar and loose concrete present.			
Deck Top					N	N				
Deck Rideabi	lity				7	7				
Deck Joints					3	3	North gland pushed down and broken near c/l 01-Jun-2012			
Temperatur			1				Snow/ice/sand covered.			
(Expansion Type : GLAND (WABO-MAUER, TRANS				UER, TRANS	FLEX,	ETC))	A2 shows signs of water leaking through glandphoto			
(Fixed Type :)										
Gap Size (mm) Gap Location				ocation			-			
60 North abutment - A2 35 South abutment - A					_					
					_					
Deck Drainag	je				4	4	Exterior seepage around drains.			
Drains Clog	ged (Y/N)	1	No							
Curbs/Mediar	า				4	N	Some grader scrapes along fascia. Some transverse deck cracks			
(Curb Type	: Standard)				_		extend through curb. 1 missing cover plate bolt on NE corner 01- Jun-2012			
Scaling (Pe	rcent Area)	3	3							
							Snow covered			
Bridge Rail					3	3	Missing 3 splice bolts01-Jun-2012			
	LVANIZED S	TEEL B	RIDGE	TUBE)			Minor tear at NW cornerphoto			
Bridge Rail P					3	N	Snow covered			
(Type : GAI STEEL)	LVANIZED P	OST ST	EEL;G	ALVANIZED	POST		5% of AB's have insufficient thread. Spalling grout pads SE conrer.			
Bridge Rail/P	osts Coating				7	7				
(Type : GA	LVANIZED)									
Sidewalk					X	X				
Girder/Beam										
Cover Plate)				3	3	(1 cover plate end weld cracked S2G3. 22 May 2009) Could not			
Flange					7	7	confirm.			
Web					7	7				
Stiffeners					7	7				
Splice					7	7				
Weld					3	3				
							(1 weld cracked. 22 May 2009) Could not confirm.			

Alberta Transportation

			Supers	tructure
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RB, 3 Spans	, Lengths(m): 19.5-24	I.4-19.5, A	-Ident	Number: A0296-01)
Diaphragms/Cross Frame		7	7	
Paint Condition		3	3	Scaling rust at porous deck locations S2 & S1photo
(Colour Description : GREE	N)			
(Colour Code : 14090)	_,			
Touchup Required (Y/N)	No			
Bearings		3	3	Girder 4 bearing over pier 2 hinge bolt pulled out 30mm. Anchor nuts
Temperature (deg. C)	-1			too tight at pier #225-Jun-2010 Could not confrim
(Expansion Type : ROCKE	R BEARING)			
(Fixed Type : PINNED BEA	(RING)			
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		3	2	Estimate 40m2 of debonded / deteriorated concrete, rebar exposed
Stains (Percent Area)	20			in multiple locationsphoto
				Previous repair in Dec 2011.
Span Alignment Problems				
Vertical (Y/N)	No			Heavy loads cause movement between deck and girders. Corrosion
Horizontal (Y/N)	No			buildup between deck and girders approx 3mm.
Superstructure General Rat	ting	2	2	
-	-			
Bridge Component		Last	Now	Explanation of Condition
Abutments		3	3	Concrete applling & deleminations from celt deterioration at A2
Bearing Seats/Caps		3	3	Concrete spalling & delaminations from salt deterioration at A2 Cracking under G3 A1photo
(Type : CONCRETE) Backwalls/Breastwalls		4	4	Efflorescent staining indicating deteriorating concrete.
Dackwalls/Diedstwalls		4	4	Endrescent stanling indicating detendrating concrete.
Wingwalls		3	3	NW & SW wingwalls have wide cracks & delamphoto
Piles		N	N	
Paint/Coating		X	X	
Abutmont Stability			5	
Abutment Stability		5	5	
Scour/Erosion		5	5	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Pile	es : 0:0)			Concrete scaling @ D/S base of North pier shaft, 1.3m x 600mm
Pier Shaft/Piles		4	4	
Bracing/Struts/Sheathing		X	X	
Nose Plate		4	4	P2 nose plate appears loose on South face.
Paint/Coating		X	X	No paint on nose plates. Minor rust.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		5	5	

			Subst	ructure		
Bridge Component		Last	Now	Explanation of Condition		
Debris (Y/N)	Yes			Drift buildup on South pierphoto		
Substructure General Rating			3			
		S	Structu	re Usage		
		Last	Now	Explanation of Condition		
Channel						
(U/S Direction : W)						
(D/S Direction : E)						
Alignment		4	4			
Bank Stability		4	4	Vertical banks 10m West of South abutment.		
HWM (m below Top of Curb)				HWM not visible.		
Drift (Y/N)	Yes			Large jam between P2 and bank.		
Slope Protection		5	5			
(Type : RIP RAP; RIP RAP)						
Guidebank/Spurs		X	X			
Adequacy of Opening			7	(At high water, channel impinges on South banks. 2003/12/11)		
(Fish Compensation Measure 1	: NONE)					
(Fish Compensation Measure 2	2 : NONE)					
Channel General Rating		4	4			

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				Maintenance Recommendations	lations					
Inspector Recommendations		Year	Inspecto	Inspector Comments	Department Comments	nents		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL		2013	Install 3 NW corn	Install 3 missing splice bolts. Trim sliver from NW corner.						
GALVANIZE/PAINT BRIDGE RAIL	RAIL									
RETROFIT BRIDGE RAIL										
SEAL CURBS										
PATCH DECK		2013	Full dept	Full depth repair required.						
SEAL DECK										
OVERLAY DECK										
REPAIR/REPLACE DECK JOINTS		2013	Repair jo	Repair joint seals.						
RESET/ PAINT BEARINGS		2013	Reset SW bear pier 2 girder 4.	Reset SW bearings, tighten shoulder nut over pier 2 girder 4.						
REPAINT SUPERSTRUCTURE		2013	Repaint.							
STRAIGHTEN/REPLACE MEMBERS		2013	Repair ci Could no	Repair cracked cover plate end weld. Could not confirm if completed.						
WASHING										
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSION	R/EROSION									
PLACE ADDITIONAL RIP RAP	д									
REMOVE DRIFT ACCUMULATION		2013	Remove drift.	drift.						
OTHER ACTION		2013	Notify uti	Notify utility company.						
OTHER ACTION		2013	Repair m	Repair missing bolt in cover plate.						
OTHER ACTION		2013	Install No	Install North West hazard marker.						
OTHER ACTION		2013	Upgrade	Upgrade guardrails to standard.						
OTHER ACTION		2013	Patch wingwall.	ingwall.						
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)		27.8/27.8	8.	Sufficiency Rating (Last/Now) 4	41.8/41.8	Est. Repl. Yr	2013	Maint. Reqd. (Y/N)		Yes
	ating advisory ser	nt to Alaı	in Saunde	Low level rating advisory sent to Alan Saunders with AT Peace14-Dec-2012	Department					
Comments for Next Inspection Deck on mo	Deck on monthly inspection cycle.	cycle.			Comments					
Focus work	Focus working on rehab contract.	itract.								
Neck near	Neck near pier 1 should be repaired ASAP	epaired	I ASAP.							
Maintenance Reviewed Bv					Date		Ű	Estimated Total	0	
					2				>	

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Proposed Long-Term Strategy			
On 3-Year Program (Y/N)			
Proposed Action			
Previous Inspector's Name	Brian Pientsch	Previous Assistant's Name	Russel Vanderschaaf
Next Inspection Date	14-Jun-2013	Previous Inspection Date	01-Jun-2012
Inspection Cycle (Modified) (months) 6	6		
Comment			

		Maintenance Recommend	ations			
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat
REPAIR/REPLACE BRIDGE RAIL	2013	Install 3 missing splice bolts. Trim sliver from NW corner.				
GALVANIZE/PAINT BRIDGE RAIL						
RETROFIT BRIDGE RAIL						
SEAL CURBS						
PATCH DECK	2013	Full depth repair required.				
SEAL DECK						
OVERLAY DECK						
REPAIR/REPLACE DECK JOINTS	2013	Repair joint seals.				
RESET/ PAINT BEARINGS	2013	Reset SW bearings, tighten shoulder nut over pier 2 girder 4.				
REPAINT SUPERSTRUCTURE	2013	Repaint.				
STRAIGHTEN/REPLACE MEMBERS	2013	Repair cracked cover plate end weld. Could not confirm if completed.				
WASHING						
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION	2013	Remove drift.				
OTHER ACTION	2013	Notify utility company.				
OTHER ACTION	2013	Repair missing bolt in cover plate.				
OTHER ACTION	2013	Install North West hazard marker.				
OTHER ACTION	2013	Upgrade guardrails to standard.				
OTHER ACTION	2013	Patch wingwall.				
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
Structural Condition Rating (Last/Now) (%)	27.8/27	7.8 Sufficiency Rating (Last/Now) (%)	Est. Repl. Yr	2013 Maint. Re	eqd. (Y/N)	Yes

Bridge Inspection & Maintenance System (Web 2005)

08036 -1 Bridge

Special Comments for Next Inspection	Deck on monthly in		-2012	Department Comments			
	Focus working on I	rehab contract.					
	Neck near pier 1 sl	hould be repaired ASAP.					
Maintenance Rev	viewed By			Date		Estimated Total	0
Proposed Long-1	erm Strategy						
On 3-Year Progra	am (Y/N)						
Proposed Action							
Previous Inspect	or's Name	Brian Pientsch	Previous	Assistant's Nam	ne Russel Vanderschaa	f	
Next Inspection	Date	14-Jun-2013	Previous	Inspection Date	01-Jun-2012		
Inspection Cycle (months)	(Modified)	6					
Comment							