						E	ridge l	nspe	ction							
Bridge File Num	ber	76339	E-1 Bridge						m Type			PSR				
Year Built/Year		1969/19						Lot				2				
Supstr								Inst	pector N	lame			Wade Nanninga			
Bridge or Town	Name	CLOVE	RBAR 08					· · ·	pector C			BR CLS A				
Located Over		RAMP	88-1 A;CP	R					istant N							
Located On		16:18 F	1 1.525						istant C							
Water Body CI./	Year								pection			21-Aug-2012)			
Navigabil. Cl./Ye	ear							· ·	a Entry							
Legal Land Loca	ation	NW SE	C 9 TWP :	53 RGE	23 W4I	М					28-Aug-2012	Theresa Lacusta				
Longitude, Latitu	ıde	-113:20	:02, 53:34	:12					Reviewer Name Eric Carcoux							
Road Authority		Alberta	Transport	ation (Al	T)			Review Date			22-Aug-2012					
Contract Main. A	Area	CMA09														
Clear Roadway/Skew 12.2 / -52 deg. (LHF)							Dept. Reviewer Name									
AADT/Year		47,380 / 2011 (A)						Dept. Review Date 30 Follow-Up By			30-Aug-2012	<u></u>				
Road Classificat	ion		2.4-120						ow-up i	ВУ						
Detour Length (I	(m)	1						1								
Allowable Load	<u> </u>	ale CS	1 38		Semi	CS	62 49			Train	CS	63 62		-> On Crit	ical Spans	
			RDER			1 002 43								>Critical Member		
Design Loading:		HS	20											-> Primary	y Span	
						Po	sting I	nforn	nation							
Required Vert. C			• • •	UNDEF	R: 88-1	-A 6.5	5m									
Posted Vertical	Cleara	nce (Y/N)	No												
Posted: Lane	NB	On I	Bridge (m)		In Adva	ance	(Y/N)		Lane	SB	C	On Bridge (m)		In Advanc	e (Y/N)	
Remarks	Poste	d on WE	structure													
Required Load F	Posting	(t)		Single				Semi				Truck 1	Frain			
Posted Loading	(t)			Single					Semi				Truck Train			
Posted:	Lane	EB		At Junc	tion (Y	/N)	No		In Adva	ance	(Y/N)	No	At Bridge (Y/N) N		No	
Posted:	Lane	WB		At Junc	tion (Y	/N)	No		In Adva	ance	(Y/N)	No	At Brid	ge (Y/N)	No	
Remarks	Not re	quired.														
Hazard Marker A	At Bride	ae (Y/N)	No													
Remarks			Not req	uired.												
Other Sign Type	s		Informa													
e	-					Ut	ilities (I	oca	ted at)							
Utility Attachmer	nts															
Telephone		d in ditch	between	P2 and F	23			Gas	 `		South	n side at CPR	and 216	Sadn unde	er bridge	
Power		s in Nor		2 4114 1	0.						betw	en P2 and P3	3.			
Others		standard						Mu	nicipal							
								Pro	blem (Y	/N)	No					
Remarks	Light	standard	s at SE ar	nd SW ai	re rustii	ng at	splash :	zone.								
							Approa	ch R	oad							
						Last	Now	1	lanatio			ition				
Horizontal Aligni	ment					8	8	Тор	of cres	t curv	/e.					
Vertical Alignme	nt					7	7									
								No	rail at N	ort Ea	ast co	rner.				
								Dra	in troua	h bro	ken S	E - photo.				
												F				
Roadway Width	(m)		12.200							onfirr		much traffic.				
riodanay maar	<u> </u>									. –		proach.				

					ļ	Approa	ch Road
					Last	Now	Explanation of Condition
Guardrail (Y/	N)		Yes				Insufficient posts. Connection to parapet @ SW corner is loose
Guardrail					4	4	(photo). 1 broken post and 1 section W-beam damaged @ SE (photo).
Length (m)			95.000				
Current Sta	andard (Y/N)		No				
Termination	n Type		Crash a	attenuator			
Drainage					5	5	Drain troughs cracked/broken.
Approach R	oad General I	Rating			7	7	
						Sunara	
Bridge Com	nonont				1		tructure Explanation of Condition
	•		natho(n	a), 21 2 25 0 1			•
		ns, Le	nguns(n	1). 21.3-23.9-	5.2-25	.9-21.3	, A-Ident Number:)
Special Feat					0	0	
Special Featu					8	8	
	DERSLUNG D	DIAPH	R)		1		_
Special Featu	ure					X	-
(Type :)							
Wearing Surf	ace/Deck Top	1	U				
	N (%)	1 (%)		2 (%)	3 (%)		Viewed from corners due to traffic.
Last	0		0	0		0	_
Now	50.0						
Wearing Surf	face				5	4	Few potholes up to 75mm diameter along joint on S4.
(Material Ty COAT)	ype : CONCRI	ETE - (CONVE	NTIONAL CH	IP SEA	L	Chipseal 40% worn off in South lane.
(Thickness	(mm) : 50)						
•	ection Problen	n	No				-
(Y/N)							
Deck Top					N	N	
Deck Rideab	ility				7	7	
Deck Joints					4	4	(Seal damaged. 23-Jun-2005). Water staining on all pier caps -
Temperatu	re (deg. C)		30				cannot confirm if recent.
•	Type : GLAN	D (WA		UER. TRANS	FLEX.	ETC))	
	e : GLAND (W						Plow deflectors missing @ A1 = 3, P1 = 3, P2 = 3, P3 = 2, P4 = 4, A2 = 4 (photo @ A1).
Gap Size (r	•			ocation		//	
110			Abut 2				Viewed from corners due to traffic, could not confirm measurements.
125			Pier 4				-
110			Pier 3				
			Pier 2				-
110			Pier 1				-
108			Abut 2				-
	20		Abut		5	E	No draine, Staining
Deck Drainag Drains Clog					5	5	No drains. Staining.
Curbs/Media					6	6	Parapet.
					0	0	
	: NEW JERS	ET)	2				-
	ercent Area)		2		_	_	
Bridge Rail					7	7	On parapet.
	LVANIZED ST	TEEL F	PARAPI	ET RAIL)			11th bridgerail post from East, along North parapet has been dented.
Bridge Rail P					4	4	Red paint is gone - 50%. Galvanizing still intact under paint.
(Type : GA STEEL)	LVANIZED PO	OST S	TEEL;G	ALVANIZED	POST		
Bridge Rail/P	osts Coating				7	7	
(Type : GA	LVANIZED)						

					Supers	tructure
Bridge Con	nponent			Last	Now	Explanation of Condition
(Primary Sp	oan : FC, 5 Spa	ans, Lengths	s(m): 21.3-25	.9-15.2-25	.9-21.3	, A-Ident Number:)
Sidewalk				X	X	
Cirdor Doto	il Potingo					
Girder Detai	N (count)	1 (count)	2 (count)	3 (cou	(tau	
Last			0		2	
Now		0	0		<u>-</u> 1	
Girders				3	3	Typical chamfer cracks. Spot rust staining on numerous girders is
Cracking ((¥/NI)	Yes			5	caused by low cover, not strands. Wide \$4G1 has wide vertical
	Percent Area)	0				crack at girder end with stain (photo). Wide vert. crack @ end of S4-G8 (photo).
· · ·	Girders : 40)	0				
	s/Cross Frame			4	4	Several S5G5 diaphragms and S1G1 has large spall (photo).
					<u> </u>	
Bearings				4	4	Bearings pads @ abuts deformed. Anchor bolts have sheared off, 4 sheared, 2 left on W abut. 2 left on E abut and W abut. Pads
•	ure (deg. C)	8				distorted due to skew at abutments. Need snooper to inspect pier
	on Type : REIN			i)		bearings. Not all abutment bearings have A/Bs; 50% of A/Bs are sheared. 2 bent A/B's over P4. Bearing pad is sliding off grout pad @
.	pe : REINFOR		EARING)			SIG2, SIG7, SIG8 (photo).
	dequate (Y/N)					
Functionir	ng (Y/N)	Yes				
Deck Under				6	5	Old stains around weep tubes. S2 stained from train exhaust.
Stains (Pe	ercent Area)	2				
	ment Problem					
Vertical (Y	(/N)	No				Likely due to skew pressure - abut. bearings deformed. Several patches from punchout repairs.
Horizontal		Yes			_	
Superstruc	ture General	Rating		3	3	
					Subst	ructure
Bridge Con	nponent			Last	Now	Explanation of Condition
Abutments						
Bearing Sea	ats/Caps					
(Type · C				6	6	
(Type . C	ONCRETE)			6	6	-
Backwalls/B	· · · · · · · · · · · · · · · · · · ·			6	6	
<u>, , , , , , , , , , , , , , , , , ,</u>	· · · · · · · · · · · · · · · · · · ·				1	
Backwalls/B Wingwalls	· · · · · · · · · · · · · · · · · · ·			6	6 5	
Backwalls/B Wingwalls Piles	Breastwalls			6 5 N	6 5 N	
Backwalls/B Wingwalls	Breastwalls			6	6 5	
Backwalls/B Wingwalls Piles	Breastwalls			6 5 N	6 5 N	Sheared AB
Backwalls/B Wingwalls Piles Paint/Coatir	Breastwalls			6 5 N 5	6 5 N 5	Sheared AB Concrete protection heaving.
Backwalls/B Wingwalls Piles Paint/Coatir Abutment S	Breastwalls ng itability on			6 5 N 5 5 5	6 5 N 5 4	
Backwalls/B Wingwalls Piles Paint/Coatir Abutment S Scour/Erosie Piers/Bents	Breastwalls ng itability on			6 5 N 5 5 5	6 5 N 5 4	Concrete protection heaving. Delam cracks @ P1, P3, & P4. Spall at N end of P2 (photo). Water
Backwalls/B Wingwalls Piles Paint/Coatin Abutment S Scour/Erosid Piers/Bents (Type : PI Bearing Sea	Breastwalls Ing Itability on B ER-COLUMN) ats/Caps			6 5 N 5 5 5	6 5 N 5 4	Concrete protection heaving.
Backwalls/B Wingwalls Piles Paint/Coatir Abutment S Scour/Erosi Piers/Bents (Type : PI Bearing Sea (Type : CC	Breastwalls ang itability on ER-COLUMN) ats/Caps ONCRETE)			6 5 N 5 5 5 X	6 5 N 5 4 6	Concrete protection heaving. Delam cracks @ P1, P3, & P4. Spall at N end of P2 (photo). Water
Backwalls/B Wingwalls Piles Paint/Coatir Abutment S Scour/Erosid Piers/Bents (Type : PI Bearing Sea (Type : CC (Total Numb	Breastwalls Breastwalls Display the second		4)	6 5 N 5 5 5 X	6 5 N 5 4 6	Concrete protection heaving. Delam cracks @ P1, P3, & P4. Spall at N end of P2 (photo). Water
Backwalls/B Wingwalls Piles Paint/Coatir Abutment S Scour/Erosi Scour/Erosi (Type : PI Bearing Sea (Type : CC (Total Numb Pier Shaft/P	Breastwalls ang itability on ER-COLUMN ats/Caps DNCRETE) per of Bearing Piles		4)	6 5 N 5 5 X 4 5	6 5 N 5 4 6 4 4 5	Concrete protection heaving. Delam cracks @ P1, P3, & P4. Spall at N end of P2 (photo). Water
Backwalls/B Wingwalls Piles Paint/Coatir Abutment S Scour/Erosi Scour/Erosi (Type : PI Bearing Sea (Type : CC (Total Numb Pier Shaft/P	Breastwalls Breastwalls Display the second		4)	6 5 N 5 5 5 X 4	6 5 N 5 4 6	Concrete protection heaving. Delam cracks @ P1, P3, & P4. Spall at N end of P2 (photo). Water

			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		4	4	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		X	Х	
Debris (Y/N)	Debris (Y/N) No			
Substructure General Rating			4	
		S	Structu	re Usage
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		5	5	Curve from North.
Traffic Safety Features		7	7	
Туре	Guardrail / Lighting			
Slope Protection		6	6	
(Type : CONCRETE; CON	CRETE)			
Bank Stability		7	7	
Drainage		5	5	
Grade Separation General I	Rating	5	5	

			Maintenance Recomme	endations			_		
Inspector Recommendations	Year	Inspecto	or Comments	Department Con	nments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL									
GALVANIZE/PAINT BRIDGE RAIL									
SEAL CURBS									
PATCH DECK									
SEAL DECK									
OVERLAY DECK									
REPAIR/REPLACE DECK JOINTS	2012	Repair s plow def	eal joints, if not done. Install missin flectors.	g					
RESET/ PAINT BEARINGS									
WASHING									
SHOTCRETE REPAIRS									
REPAIR ABUTMENT SCOUR/EROSIO	N								
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
OTHER ACTION	2012	Install ac	dditional G.R. posts @ SW corner a ansition.	nd					
OTHER ACTION	2012	Install sh	near blocks.						
OTHER ACTION									
OTHER ACTION									
OTHER ACTION Structural Condition Rating (Last/No (%)	ow) 38.9/38	3.9	Sufficiency Rating (Last/Now) (%)	43.9/43.9	Est. Repl. Yr	2035	Maint. Red	qd. (Y/N)	Yes
Structural Condition Rating (Last/No (%) Special Monitor girder crack	ing. Should co	nsider she		43.9/43.9 Department Comments	Est. Repl. Yr	2035	Maint. Red	qd. (Y/N)	Yes
Structural Condition Rating (Last/No(%)Special Comments forMonitor girder crack mainenance to stop	ing. Should co	nsider she	(%) ar block on other preventative	Department	Est. Repl. Yr		Maint. Red		Yes
Structural Condition Rating (Last/No.(%)Special Comments for Next InspectionMonitor girder crack mainenance to stop neoprene bearings.	ing. Should co	nsider she	(%) ar block on other preventative	Department Comments	Est. Repl. Yr				Yes
Structural Condition Rating (Last/No.(%)Special Comments for Next InspectionMonitor girder crack mainenance to stop neoprene bearings.Maintenance Reviewed By	ing. Should co	nsider she	(%) ar block on other preventative	Department Comments	Est. Repl. Yr				Yes
Structural Condition Rating (Last/No. (%) Special Comments for Next Inspection Monitor girder crack mainenance to stop neoprene bearings. Maintenance Reviewed By Proposed Long-Term Strategy	ing. Should co	nsider she	(%) ar block on other preventative	Department Comments	Est. Repl. Yr				Yes
Structural Condition Rating (Last/No. Special Comments for Next Inspection Monitor girder crack mainenance to stop neoprene bearings. Maintenance Reviewed By Proposed Long-Term Strategy On 3-Year Program (Y/N) On Section (Y/N)	ing. Should co	nsider she	(%) ar block on other preventative ressure. Monitor diaphragms and	Department Comments	Est. Repl. Yr				Yes
Structural Condition Rating (Last/No. Special Comments for Next Inspection Monitor girder crack mainenance to stop neoprene bearings. Maintenance Reviewed By Proposed Long-Term Strategy On 3-Year Program (Y/N) Proposed Action	ing. Should co movement due	nsider she	(%) ar block on other preventative ressure. Monitor diaphragms and	Department Comments Date	Est. Repl. Yr	E			Yes
Structural Condition Rating (Last/No.Special Comments for Next InspectionMonitor girder crack mainenance to stop neoprene bearings.Maintenance Reviewed By Proposed Long-Term StrategyOn 3-Year Program (Y/N) Proposed ActionPrevious Inspector's Name	ing. Should co movement due	nsider she	(%) ar block on other preventative ressure. Monitor diaphragms and	Department Comments Date Us Assistant's Name		E			Yes