							В	ridge Ir	nspeci	tion						
Bridge File Num	ber	024	31 -1	Bridge						Туре			PSR			
Year Built/Year 1908/1976									Lot No.			4				
Bridge or Town Name PENHO Located Over RED D Located On 592:02 Water Body CI./Year Navigabil. CI./Year Legal Land Location SE SE Longitude, Latitude -113:56 Road Authority Alberta Contract Main. Area CMA19 Clear Roadway/Skew 8.5 / AADT/Year 1,490 / Road Classification RAU-2 Detour Length (km) 20 Allowable Load (t): Single CS Design Loading: HS Required Load Posting (t) Posted: Lane EB Posted: Lane WB Remarks Not required. Hazard Marker At Bridge (Y/N) Remarks Other Sign Types Utility Attachments									Inspector Name			Owen Salava				
	Name								Inspector Class			BR CLS A				
										Assistant Name						
		592	:02 C	1 8.818			Assis	Assistant Class								
·								ection	Date		24-Oct-2011					
									Data	Entry	Ву		Marcia Chavez			
				5 TWP 3		8 W4M			Data	Entry	Date		24-Nov-201	1		
				5, 52:08:					Revie	ewer N	lame		John O'Brie	า		
•			ransporta	ation (AIT	Γ)			Revie	ew Da	te		13-Nov-201	1			
								Dept.	. Revie	ewer N	Name	Andrew Smi	kles			
								Dept.	. Revie	ew Da	te	24-Nov-201	1			
									Follo	w-Up I	Ву					
		_	J-209	-110					_							
						Ι					1					
Allowable Load (t): Single CS1		28		Semi	CS	S2 49			Train	CS	33 62		> On Critical Spans > Critical Member			
Design Loading: HS2			 5											> Primary		
							Po	sting Ir	nforma	ation						•
Required Load Posting (t)				Single					S	Semi			Truc	k Train		
Posted Loading (t)				Single				S	Semi	าi			Truck Train			
Posted:	Lane	EB			At Junct	nction (Y/N)		No	In Advance (Y/N		Y/N)	No	At Bridge (Y/N) No		No	
Posted:	Lane	WB			At Junction (Y/N)		I)	No	In Advance (Y/N)		Y/N)	No	At B	ridge (Y/N)	No	
Remarks	Not re	equire	ed.													
Hazard Marker At Bridge (Y/N)		No	No													
Remarks			Not required.													
Other Sign Type	es															
							Uti	ilities (L	Locate	d at)						
									I _							
								Gas								
				e.					Municipal							
									Probl	lem (Y	/N)	Yes				
Remarks																
						1.	ast	Approa Now		ao anatio	n of (Condi	tion			
Harizantal Alianment			<u> </u>		L	7	7		entra							
Horizontal Alignment						7	7		curve							
Vertical Alignment Roadway Width (m)			8.500													
Approach Bump				0.000			7	7	1							
Guardrail (Y/N)				Yes			•		Type	Type VI section bent NW corner, posts leaning.						
Guardrail				. 55			6	6	NE approach railing has a few bent sections. SW - 36.6m; NW - 19m type IV; NE & SE - 99m.							
Length (m)				19.000				<u> </u>	Deep	36.6n erosi	ո; NW on at l	- 19n NW di	n type IV; NE tch pipe outfa	& SE all, we	- 99m. Il vegetated.	
Current Stand	ard (Y/	(N)		No.000						beam			1 1-2 0000	,	- 3	
Termination T		. • ,			D DOWN	J										
Drainage	,,,,			TOTAL			5	5								
	10) _ 4!						-							
Approach Road General Rating					7	7	1									

Alberta Transportation

						Supers	tructure
Bridge Com	ponent				Last		Explanation of Condition
(Primary Spa	n : RD, 5 Spa ı	ns, Lengt	ths(n	n): 10.7-38.7-3	38.7-38	.7-10.7	, A-Ident Number:)
Special Feat	ures						
Special Feat	ure					X	VF-span 2,3,4
(Type:)							
Special Feat	ure					X	
(Type:)							
Wearing Surf	ace/Deck Top	Detail Ra	atings)			
	N (%)	1 (%)	2 (%)	3 (%)			
Last							
Now	0.0	0.0		0.0	С	0.0	
Wearing Surface						8	Silica fume / fiber
(Material T	ype : CONCRE	ETE)					
(Thickness	(mm) : 50)						
Lateral Conn (Y/N)	ection Problem	n Ye	s				
Deck Top					N	N	
Deck Rideability					8	8	
Deck Joints						8	
Temperature (deg. C) 1							
(Expansion Type : GLAND (WABO-MAUER, TRANS						ETC))	
(Fixed Type	e : ASPHALTI	C FIBRE	BOA	ARD)			
Gap Size (ı	mm)	G	ap L	ocation			
85 Pier 1-W							
89		P	ier 2				
86		P	ier 3				
88		P	ier 4	-E			
						1	
Deck Drainage					7	7	
Drains Clogged (Y/N) No						1	
Curbs/Median					5	5	Light scaling along top of curb especially SE corner near pier 4. Top of NE curb S5 delam cracking, rusting due to low cover.
(Curb Type : Standard)							
Scaling (Percent Area) 5							
Bridge Rail					7	7	
(Type: STEEL BRIDGE TUBE;GALVANIZED STEEL TUBE)						GE	
Bridge Rail Posts						7	
(Type: GALVANIZED POST STEEL;POST STEEL)					7		1
Bridge Rail/P				,	8	8	
	LVANIZED)						
Sidewalk					Х	Х	
Girder Detail Ratings			0 (0.1	()		
N (count) 1 (cour)	2 (count)	3 (cou	ınt)	
Last Now	0	^		0		0	
	0	0		0		0 7	Too high for along viewal / increasing high no are standard to
Girders	//NI\				7	7	Too high for close visual / inspection but no cracks noted. patched.
Cracking ()	<u> </u>	No)				·
	ercent Area)	0					
(Number Of Girders : 16)							

						Supers	tructure
Bridge Comp	onent				Last	Now	Explanation of Condition
(Primary Spa	n : RD, 5 Spa i	ns, Len	ngths(n	n): 10.7-38.7-3	88.7-38	.7-10.7	, A-Ident Number:)
Diaphragms/0	Cross Frame				7	7	S2-4 only.
Bearings					7	7	
Temperatur	re (deg. C)		1				
(Expansion TEFLON A	Type : REINF ND STAINLE S	ORCE SS STE	D NEO	PRENE BEAR	RING W	/ITH	
(Fixed Type	: REINFORC	ED PA	D BEA	RING)			
Coating Add	equate (Y/N)	,	Yes				
Functioning	(Y/N)		Yes				
Deck Undersi	de				7	7	
Stains (Per	cent Area)	()				
Span Alignm	ent Problems	S					
Vertical (Y/I	N)		No				
Horizontal (Y/N)	1	No			_	
Superstructu	ıre General R	ating			7	7	
						Supers	tructure
Bridge Comp					Last	Now	Explanation of Condition
(Secondary S	pan : VF)						
Special Feat						1	
Special Featu						7	Span 1 & 5
	LATER POS	T TEN	S)				
Special Featu						7	
	DERSLUNG D		<u> </u>				
Wearing Surfa	ace/Deck Top		Ratings	1			
_	N (%)	1 (%)		2 (%)	3 (%)		
Last	0.0			0.0			
Now	0.0	0	.0	0.0		0.0	
Wearing Surf					8	8	
	/pe : CONCRE	=1 E)					
(Thickness)	ection Problem		\.I.~				
(Y/N)	ection Problem	1	No				
Deck Top					N	N	
Deck Rideabi	lity				8	8	
Deck Joints					8	8	
Temperatur	e (deg. C)		1				Compression seals abutments - fixed gland @ piers - fixed.
		D (WAI	во-ма	UER, TRANS	FLEX,	ETC))	Compression seals abutments - fixed giand & piers - fixed.
(Fixed Type	: ASPHALTI	C FIBR	E BOA	ARD)			
Gap Size (r	nm)		Gap L	ocation			
Deck Drainag	je				7	7	
Drains Clog	ged (Y/N)	1	No				

						Supers	tructure
Bridge Comp	onent				Last	Now	Explanation of Condition
(Secondary S	pan : VF)						
Curbs/Median	1				4	4	Top of S5 NE curb low cover rebar.
(Curb Type	: Standard)						
Scaling (Pe	rcent Area)		5				
Bridge Rail					7	7	
(Type : STE TUBE)	EL BRIDGE	TUBE	;GALVA	ANIZED STEE	L BRID	GE	
Bridge Rail Po	osts				7	7	
(Type : GAL	_VANIZED PO	OST S	TEEL;P	OST STEEL)			
Bridge Rail/Po	osts Coating				7	7	
(Type : GAL	_VANIZED)						
Sidewalk					X	X	
Girder Detail I	Ratings	,					
	N (count)	1 (co	unt)	2 (count)	3 (cou	unt)	
Last							
Now	0		0	0		0	
Girders Cracking (Y/N) Spalling (Percent Area) (Number Of Girders : 18) Diaphragms/Cross Frame Bearings Temperature (deg. C) (Expansion Type : REINFOR					7	7	
Cracking (Y	/N)		No				
Girder Detail Ratings N (count) 1 (Last Now			0				
(Number Of G	Girders : 18)						
Diaphragms/0	Cross Frame				X	X	
					7	7	
			1				
(Expansion	Type : REINF	ORCE	ED NEO	PRENE BEAF	RING W	/ITH	
				RING)			
		,		ixii40)			
			1.00		7	7	
			1			,	
		<u> </u>	•				
			No				
Now 0 0 0 Girders Cracking (Y/N) No Spalling (Percent Area) 0 (Number Of Girders : 18) Diaphragms/Cross Frame Bearings Temperature (deg. C) 1 (Expansion Type : REINFORCED NEOPRENE BETEFLON AND STAINLESS STEEL) (Fixed Type : REINFORCED PAD BEARING) Coating Adequate (Y/N) Yes Functioning (Y/N) Yes Deck Underside Stains (Percent Area) 1 Span Alignment Problems Vertical (Y/N) No Horizontal (Y/N) No Superstructure General Rating Bridge Component Abutments Bearing Seats/Caps (Type : CONCRETE) Backwalls/Breastwalls Wingwalls							
Temperature (deg. C) (Expansion Type : REINFORCED NEOPRENE BETEFLON AND STAINLESS STEEL) (Fixed Type : REINFORCED PAD BEARING) Coating Adequate (Y/N) Functioning (Y/N) Deck Underside Stains (Percent Area) Span Alignment Problems Vertical (Y/N) Horizontal (Y/N) Superstructure General Rating Bridge Component					7	7	
		J					
							ructure
	onent				Last	Now	Explanation of Condition
	10				T _	Ι_	
					7	7	
						T _	
Backwalls/Bre	astwalls				7	7	
Wingwalls					6	6	
Piles					N	N	
Paint/Coating					6	6	
Abutment Sta	Temperature (deg. C) (Expansion Type : REINFORCED NEOPRENE BETEFLON AND STAINLESS STEEL) (Fixed Type : REINFORCED PAD BEARING) Coating Adequate (Y/N) Functioning (Y/N) Pes Peck Underside Stains (Percent Area) Span Alignment Problems Vertical (Y/N) Horizontal (Y/N) Superstructure General Rating Bridge Component Abutments Bearing Seats/Caps (Type : CONCRETE) Backwalls/Breastwalls Wingwalls Piles Paint/Coating Abutment Stability					7	
Scour/Erosion	1				7	7	

			Subst	ructure
Bridge Component		Last		Explanation of Condition
Piers/Bents		Last	INOW	Explanation of condition
(Type : PIER-SOLID)				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
(Total Number of Bearing Piles :	0:0:0:0)			Crack in W pier at cold joint line.
Pier Shaft/Piles	,	5	5	Exposed rebar W side of P2 near nose plate. Heavy scaling / cracking near waterline, typical all piers - photo.
				Heavy graffitti at E & W pier.
Bracing/Struts/Sheathing		X	X	
Nose Plate			7	
Paint/Coating			Х	
(Colour Description :)				
(Colour Code :)				
Pier Stability			7	
Scour			N	
Debris (Y/N)	No			
Substructure General Rating		6	5	
Cubou dotaro Conorar Nating				
		5	tructu	re Usage
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)		I		
Alignment		7	7	
Bank Stability		5	5	Minor sloughing along E bank.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		5	5	Minor erosion along toe of E hslp.
(Type: NATURAL; NATURAL)			
Guidebank/Spurs		Х	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 :	NONE)			
(Fish Compensation Measure 2 :	·			
Channel General Rating		5	5	

		Maintenance	e Recommendations				
nspector Recommendations	Year	Inspector Comments	Department C	omments	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							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSIG	NC						
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
Structural Condition Rating (Last/No %)	ow) 72.2/66	Sufficiency Rating (La (%)	ast/Now) 62.2/60.0	Est. Repl. Yr	2043 Maint. R	eqd. (Y/N)	No
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date		Estimated Total	al 0	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)	Υ						
Proposed Action	2006.09.27 Fib	re reinforced silica fume concrete	overlay, six deck joints and po	ssible regalvanizing of	existing bridge rails.		
				Assistant's Name Todd Warshawski			
Previous Inspector's Name	Arnold Assenh	eimer	Previous Assistant's Nam	e Todd Warsha	wski		
	Arnold Assenh 24-Jan-2015	eimer	Previous Assistant's Nam Previous Inspection Date		wski		