							Bridge I	nspe	ction							
Bridge File Numb	ber	76406 -1 Bridge							m Type			CON				
Year Built/Year		1975/1975						Lot No.				2				
Supstr								Inspector Name				Owen Salava				
	or Town Name BOWDEN							· · ·	pector (BR CLS A				
Located Over 587:03 C1 0.008									Assistant Name							
Located On		2:22 L1	16.022;2:	22 R1 1	6.022				istant (Class						
Water Body CI./Y								Insp	Inspection Date			12-Mar-2013				
Navigabil. Cl./Ye									•			Marcia Chavez				
Legal Land Loca	tion	NW SEC	24 TWP	34 RG	E 1 W5M	5M			a Entry	Date		26-Mar-2013				
Longitude, Latitu	de	-114:01:	30, 51:56	:18					Reviewer Name			John O'Brien				
Road Authority		Alberta 7	Fransport	ation (A	on (AIT)			Rev	Review Date			17-Mar-2013				
Contract Main. A	rea	CMA19						Dep	ot. Revi	ewer N	lame	Chris Black				
Clear Roadway/S	Skew	14.6 /						· · ·	ot. Revi			28-Mar-2013				
AADT/Year		27,020 /	2011 (A)					· · ·	ow-Up							
Road Classificati	on	RFD-412	2.4-130					_	•							
Detour Length (k		1														
Allowable Load (t): Sin	gle CS1	1 28	28 Semi			S2 49		Train CS		CS	S3 62		> On Critical Spans >Critical Member		
Design Loading:		HS2	25											> Primary Span		
Loading.		1132				P	osting I	nform	nation							
Required Vert. C	learan	ce Postir	ng (m)	UNDF	R: 587 C											
Posted Vertical C			• • •	Yes												
	EB		ridge (m)		In Adva	Advance (Yes	Lane	WB	0	n Bridge (m)	5.0	In Advanc	e (Y/N)	Yes
			• • •				(.,)			1.12					0 (1711)	
RemarksMeasured West 5.279m, East 5.214m.Required Load Posting (t)Single									Semi			-	Truck Train			
Posted Loading ((•)		Single					Semi				Truck Train			
]	Lane	NB			ction (Y/	Y/N) No				ance (`	Y/NI)	-	At Bridge (Y/N) No		No	
	Lane	SB			ction (Y/				In Advance (Y/N)			• · · ·		No		
			l damage		•				1117.00		<u>.,,,,</u>	110		ge (1/14)		
Hazard Marker A			No	above												
Remarks			Not req	uirod												
Other Sign Type:	<u> </u>		Notreg	uneu.												
Other Olgh Type:	5					Uí	tilities (oca	ted at)							
Utility Attachmen	ts							_004	lou uty							
Telephone	-							Gas	;							
	Street	lights Fa	st & Wes	t of hrid	lae.				, nicipal							
		bass ligh			.90.				blem ((/N)	No					
Remarks	5.1001	- aco ngri						110		· · · · /						
							Approa	ich R	oad							
					L	ast			lanatio	on of C	ondit	ion				
		Horizontal Alignment					7	<u> </u>				divided and 1 8	3.5m tu	Irn out @	West.	
Horizontal Alignn	nent					7		-1								
v						7 8	8									
Vertical Alignmer	nt		34.600				8									
Vertical Alignmer Roadway Width (nt		34.600				8									
Vertical Alignmer Roadway Width (Approach Bump	nt		34.600 Yes			8										
Vertical Alignmer Roadway Width (Approach Bump Guardrail (Y/N)	nt					8										
Vertical Alignmer Roadway Width (Approach Bump Guardrail (Y/N)	nt					8	8									
Vertical Alignmer Roadway Width (Approach Bump Guardrail (Y/N) Guardrail	nt (m)	۷)	Yes			8	8									
Vertical Alignmer Roadway Width (Approach Bump Guardrail (Y/N) Guardrail Length (m) Current Standa	nt (m) ard (Y/I	٩)	Yes 99.000	own		8	8									
	nt (m) ard (Y/I	 ۷)	Yes 99.000 Yes	own		8	8	cori	ner. 11/	Aug20 ²	Ĭ1).	at SE corner, v alk, SW corne	•		erosion	at NE

					Ś	Supers	structure
Bridge Com	oonent				Last	Now	Explanation of Condition
(Primary Spa	n : CF, 1 Spa	ns, Len	gths(n	n): 69.2, A-Ide	ent Nun	nber:)	
Special Feat	ures						
Special Feat	ure				X		Handrail along W headwall & wings.
(Type :)	(Type :)						Post broken & rail disconnected at SE rail.
Special Feat	Special Feature					X	
(Type :)							
Wearing Surf	ace/Deck Top	Detail F	Ratings	5			
	N (%)	1 (%)	(%) 2 (%)		3 (%)		_
Last	0	()	0	-	0	-
Now	Now 0.0 0.0 0.0					.0	
Wearing Surf	ace				7	7	Transverse crack at NBL above the N wall.
(Material T							-
(Thickness	(mm) : 50)					1	
Deck Top					N	N	
Deck Rideab	ility				8	8	
Deck Joints					X	Х	
Temperatu	re (deg. C)						_
(Expansion	Type :)						
(Fixed Type	e:)						_
Gap Size (I	nm)		Gap L	ocation			
							-
Deck Drainag	1e				4	4	No drains.
Drains Clo							(Erosion @ NE corner - photo. 11Aug2011) - Snow covered. Wet surface, stains & edge spalls at underside jnt.
Curbs/Media	า				7	7	0.3mm wide cracks @ 1m spacing.
(Curb Type	: Standard)						
Scaling (Pe	rcent Area)	0)				
Bridge Rail					8	8	East side only. Flexbeam guardrail West side.
(Type : GA	LVANIZED S	TEEL FI	LEX BI	EAM)			
Bridge Rail P	osts				4	4	AB nuts not fully engaged posts 2 & 6.
(Type : GA STEEL)	LVANIZED PO	OST ST	EEL;G	ALVANIZED	POST		
Bridge Rail/P					7	7	
(Type : GA	LVANIZED)					1	
Sidewalk					X	X	
Girders					Х	Х	
Diaphragms/	Cross Frame				X	X	
Bearings					Х	Х	
Temperatu	re (deg. C)	-	2				
(Expansion	Type :)						
(Fixed Type	e:)						
Coating Ad	equate (Y/N)						
Functioning) (Y/N)						

Bridge Component		Last		Explanation of Condition				
(Primary Span : CF, 1 Spans, L	_engths(m): 69.2, A-I	dent Nur	nber:)	1				
Deck Underside Stains (Percent Area)			6	Isolated cracks 0.5mm wide. Slight HLD both ends, minor. HLD at ring 6/7 joint above EBL at E end above WBL adn at W end above EBL. Rebar is rusting at a few minor spots. Some rust staining near several light fixtures inside of tunnel. At 4th construction joint from East water staining. Some minor spalls/chips at 3 of 6 joints at roof - photo - spall appear sealed.				
Span Alignment Problems								
Vertical (Y/N)	Vertical (Y/N) Yes			Structure has settled slightly based on sidewalk appearance.				
Horizontal (Y/N)	No							
Superstructure General Rating		6	6					
			Subst	ructure				
Bridge Component		Last	Now	Explanation of Condition				
Abutments								
Bearing Seats		X	X					
Backwalls/Breastwalls		6	6					
Wingwalls		7	7	Damaged safety rail & leaning post at SE wingwall.				
Piles		N	N					
Paint/Coating		6	6					
Abutment Stability			7					
Scour/Erosion		X	X					
Piers/Bents								
(Type :)								
Bearing Seats/Caps		X	X					
(Type:)								
Pier Shaft/Piles		X	X					
Nose Plate		X	Х					
Paint/Coating		X	Х					
(Colour Description :)								
(Colour Code :)								
Pier Stability		X	X					
Scour		X	Х					
Debris (Y/N)	No							
Substructure General Rating		6	7					
		5	Structu	re Usage				
		Last	Now	Explanation of Condition				
Grade Separation								
Road Alignment		8	8					
Traffic Safety Features		5	5	(SE, NE & SW curbs have minor spalls. Exposed rebar, some cracks				
Туре	Lights/Sidewalk			in sidewalk - photos. 11Aug2011) - Snow covered.				
Slope Protection		6	6	Some separation from wingwalls.				
(Type : CONCRETE; CONCR	RETE)							

Structure Usage										
	Last Now Explanation of Condition									
Bank Stability			8							
Drainage			4	(Ponding at corners along S sidewalk. 11Aug2011) - Snow covered. Low area of ACP at SW shoulder.						
Grade Separation General Rati	ng	4	4							

Alberta Transportation

				Maintena	nce Recommend	lations						
Inspector Recommendations		Year	Inspecto	or Comments		Department Corr	nments			Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL		2013		wing post; reset rail. anchorage at posts 2	2 & 6.							
GALVANIZE/PAINT BRIDGE RAIL												
RETROFIT BRIDGE RAIL												
SEAL CURBS												
PATCH DECK												
SEAL DECK												
OVERLAY DECK												
REPAIR/REPLACE DECK JOINTS												
RESET/ PAINT BEARINGS												
WASHING												
SHOTCRETE REPAIRS												
REPAIR ABUTMENT SCOUR/EROSI	ON											
PLACE ADDITIONAL RIP RAP												
REMOVE DRIFT ACCUMULATION												
OTHER ACTION		2013	Patch si	dewalk spalls, if not y	et done.							
OTHER ACTION		2013 Mill & pave through pipe.										
OTHER ACTION		2013	Patch H	LD chips/scrapes.								
OTHER ACTION		2013	Add AC	P to eliminate ponding								
OTHER ACTION		2013	Seal lea	king seam with expar								
OTHER ACTION												
OTHER ACTION												
Structural Condition Rating (Last/No (%)	ow)	66.7/72.	.2	Sufficiency Rating (%)	(Last/Now)	45.7/48.1	Est. R	Repl. Yr	2033	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection						Department Comments						
Maintenance Reviewed By						Date			E	Estimated Total	I 0	
Proposed Long-Term Strategy												
On 3-Year Program (Y/N)												
Proposed Action												
Previous Inspector's Name	Owen S	Salava			Previous	Assistant's Name						
Next Inspection Date	12-Dec	-2014			Previous	Inspection Date	11	I-Aug-2011				
Inspection Cycle (Default) (months)	21							-				
Comment												