						В	ridge li	nspec	tion								
Bridge File Numl	ber	76652 -1 Bridge					Form Type					SG					
Year Built/Year 1971/1971									Lot No.			1					
Supstr						Inspector Name			Shane Hall								
Bridge or Town I	RBAR 10					Inspector Class			BR CLS A								
Located Over		0.809;16:18 R1 0.803					Assistant Name										
Located On	R1 0.169;2	216:04	L1 0.13	3		Assistant Class											
Water Body CI./								Inspection Date			29-Sep-2010						
Navigabil. Cl./Year								Data Entry By			Janie Assenheimer						
Legal Land Location NE SEC 8			8 TWP 53 RGE 23 W4M					Data Entry Date				15-Oct-2010					
Longitude, Latitude -113:20:42			12, 53:34:13					Reviewer Name			Arnold Assenheimer						
Road Authority Alberta Tr			<b>Fransport</b>	ransportation (AIT)					Review Date			29-Sep-201	0				
Contract Main. A	rea	CMA09						Dept	Dept. Reviewer Name								
Clear Roadway/S	Skew	14.5 /							Dept. Review Date			26-Oct-2010					
AADT/Year		42,840 /	2009 (A)						w-Up E								
Road Classificat	ion	RAU-21	1.8-110							,							
Detour Length (k	<u> </u>	3															
Allowable Load (	t): Sin	gle		Semi				Train						> On Critical N	cal Spar	al Spans	
Design Loading:		HS	20									>Critical Mer					
Design Loading.		ПО	20			Po	sting l	nform	otion					> Primary	Span		
Required Vert. C	ʻlearan	ca Postir	na (m)	LINDE	R: 16 L												
Posted Vertical (			• • •	Yes	-IX. 10 L	. 1 3.31	11, 1010	1 3.311	!								
Posted: Lane			ridge (m)		In Adv	anco l	(V/NI)	Yes	Lane	WB		n Bridge (m)	5.2	In Advance	\	Yes	
Remarks	LD	Oli B	nage (m)	J.3	III Auv	ance (	(1/11)	163	Lanc	VVD		ii bliage (iii)	0.5	III Auvance	5 (1/1 <b>1)</b>	163	
Required Load F	ostina	(t)		Single				Semi					Truck Train				
Posted Loading		(-)		Single					Semi				Truck Train				
Posted:	Lane	NB		At Junction (Y/N		//NI)	No		In Advance (Y/N)		✓/NI)	No			No		
Posted:	Lane	SB		At Junction (Y/N)		-	No	In Adva				No		At Bridge (Y/N) No			
Remarks		quired		7 tt 0 di 10 ti011 (1714)			110		II / tava	1100 (	1/14)	140	/ (CDI	lage (1/14)	140		
Hazard Marker A			No														
Remarks	n Diluç	ge (1/1 <b>1</b> )	Not req	uirod													
Other Sign Type			Not led	uneu.													
Other Olgir Type	3					Uf	ilities (l	ocate	ed at)								
Utility Attachmer	nts Po	OWER U	TILITIES-	POWE	RLINE		), OO 1	_00010	ou ut)								
Telephone								Gas	Gas Oil Pi			Pipeline E. r/w.					
Power	Box @	SW Co	ner					Municipal									
Others				duit @ abuts.				Problem (Y/N) No			No	)					
Remarks								1 1 1 1 1	(1)	,							
							Approa	ch Ro	ad								
				Last No													
Horizontal Alignr	nent					6	6							Turnout lan		n	
Vertical Alignme	nt					7	7	Limit	ed sigh	t dista	ance f	or on-ramp f	rom E	astbound HW	/Y 16.		
								Lorgo trustes is sure		an and off deals in C.D.I.							
Doorless Marie ( )			14.500	4.500				Larg	Large trucks bounce or			n and off deck in S.B.L.					
Roadway Width (m)			14.500			_											
Approach Bump			V	5		5	4		0			OF (	-l \	4 46 '		@ <b>N</b> !! A !	
Guardrail (Y/N)		Yes			_			3 sections damaged @ SE corner (photo).			o⊨ corner (	pnoto)	. ı damaged	section	@ NW		
Guardrail		00.400			5 4		Como, (prioto).										
Length (m)	/\ / / / / / / / / / / / / / / / / /	N I \	23.100														
Current Standard (Y/N)			No														
Termination Type				rned Down													
Drainage	/ре		Turnea	Down		6	6										

				1	Annroa	nch Road
						Explanation of Condition
Approach Road General Rating					4	Experience of Condition
-				6		
						structure
Bridge Comp						Explanation of Condition
(Primary Spar	n : <b>WG, 2 Sp</b> a	ans, Lengths	<u>(m): 35.1-35.1,</u>	A-Ider	nt Num	ber: A0647-01)
Special Featu	ıres					
Special Featu	re				X	_
(Type:)						
Special Featu	re				X	
(Type:)						
Wearing Surfa	ace/Deck Top	Detail Rating	js			
	N (%)	1 (%)	2 (%)	3 (%)		
Last	30					
Now	0.0	0.0	0.0	0	0.0	
Wearing Surfa	ace			5	5	Chipcoat on polymer on HDOL.
(Material Ty	pe : <b>CONCR</b>	ETE - CONVE	ENTIONAL CH	IP SEA	L	
(Thickness(	mm) : <b>50</b> )					
Deck Top				N	N	
Deck Rideability					7	
Deck Joints				3	3	Finger plate @ S. abut N.B.L. on road side is loose and slaps under
Temperatur	e (deg. C)	10				traffic (photo). Cover plate @ NE parpet rusted through (photo).
(Expansion	Type : FING	ER PLATES)				
(Fixed Type	:)					
Gap Size (m	nm)	Gap	Location			
25		A2 N	orth Abutment			
40		A1 S	outh Abutment			-
						-
Deck Drainag	e			N	5	No drains.
Drains Clog		No				1
Curbs/Median				3	3	Vertical cracks & corrosion stains on parapets. Numerous
(Curb Type				, ,		spalls/delams on E & W parapets. spalls @ NW, SW @ outside
Scaling (Per		5				parapet fascia (photos). Cracks on curb underside at NE & SW. Numerous patches. Spall at underside of SE corner. Numerous spalls on curb median (photo).
Bridge Rail				5	5	Steel rail on concrete parapet.
	VANIZED S	TEEL BRIDG	E TUBE)			1
Bridge Rail Po			,	5 4		Spalling on East & West parapet at rail connection at numerous
		OST STEEL;	GALVANIZED			locations.
Bridge Rail/Po	osts Coating			6	6	Paint has peeled - galvanizing is intact.
(Type : GAL						
Sidewalk				X	X	
Jidowan						

			Supers	structure
Bridge Component				
(Primary Span : WG, 2 Spans,	Lengths(m): 35.1-35.1			· •
Girder/Beam		,		
Cover Plate		X	X	High load impact S2G4 (WB lanes). (Crack in flange S2G4 & S2G3
Flange		2	2	above WB lanes, passing lanes - 23-Jan-2007). Damage (above) at
Web		4	4	lower edge of web & dented as well.
Stiffeners		X	X	Inspected with binoculars; could not confirm crack. Rating carried
Splice		X	X	forward.
Weld		7	7	4 girders/span.
Diaphragms/Cross Frame		6	6	
Paint Condition		4	4	Paint failed at girder ends, bottom flange.
(Colour Description : BLUE)				
(Colour Code : <b>502-105</b> )				
Touchup Required (Y/N)	Yes			
Bearings		4	4	Anchor bolts on the bearings @ south abutment bent - 10 to 25 mm.
Temperature (deg. C)	12			North abutment exterior bearing A/B bent 40 mm. Bearing sole plates have significant pack rust (photo).
(Expansion Type : REINFOR	CED PAD BEARING)			Thave significant pack rust (prioto).
(Fixed Type : REINFORCED	· · · · · · · · · · · · · · · · · · ·			
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside	1.00	6	4	Could only inspect deck underside between box girders.
Stains (Percent Area)	1	0	- 4	Minor transverse cracking. Map cracking and efflorescence between
,	<u>'</u>			G3 & G4 at A1 (photo).
Span Alignment Problems				
Vertical (Y/N)	Yes			Bridge is on a curve, Combination of pack rust on sole plates and settling of approaches causing approach bumps.
Horizontal (Y/N)	No			setting of approaches causing approach bumps.
Superstructure General Ratir	ıg	2	2	
			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Abutments		Luot	11011	Explanation of Containon
Bearing Seats/Caps		5	3	Bearing seats at all 4 corners have wide cracks and spalling (photo).
(Type : CONCRETE)				Bearing seat @ NE corner has large spall, remaining concrete is soft
Backwalls/Breastwalls		5	5	beginning to affect grout pad under girder bearing (photo).
Wingwalls		4	5	
Piles		N	N	
Paint/Coating		4	4	
Abutment Stability		5	5	
Scour/Erosion		N	N	
Piers/Bents				
(Type : PIER-COLUMN)				-
Bearing Seats/Caps		X	X	
(Type : CONCRETE)				
(Total Number of Bearing Piles	: 4)			Minor horizontal hairline cracking.
Pier Shaft/Piles		6	6	
Bracing/Struts/Sheathing		X	Х	
Nose Plate		Х	Х	

			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating	Paint/Coating			
(Colour Description : BROWN)				
(Colour Code : <b>30252</b> )				
Pier Stability			8	
Scour		Х	Х	
Debris (Y/N)	(Y/N) No			
Substructure General Rating		5	3	
		5	Structu	re Usage
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	7	
Traffic Safety Features		7	7	
Туре	Guardrail / Lights			
Slope Protection		5	5	Settlement 150mm at South.
(Type : CONCRETE; CONCRE	TE)			
Bank Stability			6	
Drainage	Drainage			
Grade Separation General Rati	ng	6	5	

76652 -1 Bridge

				Mai	ntenance Rec	ommend	ations						
Inspector Recommendations	١	Year	Inspecto	or Comments			Department Co	mmen	ıts		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL							·						
GALVANIZE/PAINT BRIDGE RAIL													
RETROFIT BRIDGE RAIL													
SEAL CURBS	2	2011	Patch cu	urb parapets an	d median.								
PATCH DECK													
SEAL DECK													
OVERLAY DECK													
REPAIR/REPLACE DECK JOINTS	2	2011	Repair r loose fin	ubber membrar nger plate SE co	ne all 4 corners orner.	s, repair							
RESET/ PAINT BEARINGS	2	2011	Replace joints are	sole plates and e repaired.	d reset bearing	s once							
REPAINT SUPERSTRUCTURE	2	2011	Repaint	girder ends dar	naged by leak	ing joints.							
STRAIGHTEN/REPLACE MEMBERS	3												
WASHING	2	2011											
SHOTCRETE REPAIRS													
REPAIR ABUTMENT SCOUR/EROS	ION												
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
OTHER ACTION		2011	Level 2	girder inspection ect G1-G4 S2. (I	e crack )								
OTHER ACTION	2	2011		earing seat spa		-							
OTHER ACTION	2	2011	Repair 4	sections of W-									
OTHER ACTION													
Structural Condition Rating (Last/N (%)	low) 3	38.9/27	.8	Sufficiency R (%)	y Rating (Last/Now)		48.7/29.6		Est. Repl. Yr		2037 Maint. Re		Yes
Special Monitor crack like of Next Inspection	defects in	G4S2 8	& G3S2 at	oove WB left tra	vel lane.		Department Comments						
Maintenance Reviewed By							Date			E	Estimated Tota	I 0	
Proposed Long-Term Strategy													
On 3-Year Program (Y/N)													
Proposed Action													
Previous Inspector's Name	Jason S	Jason Saly					Previous Assistant's Name						
Next Inspection Date	29-Jun-2	2012				Previous I	nspection Date		06-Dec-2008				
Inspection Cycle (Default) (months)	21												
Comment													

Bridge Inspection & Maintenance System (Web 2005)