Bridge Inspection																
Bridge File Numbe	er 7	7054 E-	1 Bridge				Form Type				PSR					
Year Built/Year	1	973/197	3					Lo	No.			2				
Supstr		UNITONI						Ins	pector N	lame		Shane Hall				
Bridge or Town No								Ins	Inspector Class			BR CLS A				
Located Over		SWITZER DR						As	Assistant Name							
Located On		6:02 R1	26.998						sistant C	lass						
Water Body Cl./Ye								Ins	pection I	Date		06-Jul-2012				
Navigabil. Cl./Yea		NA/ OF O	4.4.TMD	<i>-</i> 4 DOF	25 \				Data Entry By			Theresa Lac	usta			
Legal Land Locati		SW SEC			25 VV:	V5M			Data Entry Date			05-Sep-2012	2			
	Longitude, Latitude -117:34:32, 53:24:09 Road Authority Alberta Transportation (AIT)							Re	Reviewer Name			Eric Carcoux	(
Road Authority			ransporta	ation (Ai	1)			Re	view Dat	te		20-Aug-2012	2			
Class Bandway (Cl		MA13	/I I I	`				De	pt. Revie	ewer N	Name	Brent Herrick	<			
Clear Roadway/Sl		2 / -10 d)				De	pt. Revie	ew Da	ite	18-Sep-2012	2			
AADT/Year		,730 / 20						Fo	llow-Up I	Ву						
Road Classification	-	RAD-412.	.4-120					-								
Detour Length (kn			47		0	0	20.00			T	00	0.70		0 - 0 - 11 -	-1 0	
Allowable Load (t)	Singi	le CS1 GIRE			Semi		S2 60 IRDER			Train		3 70 RDER		> On Critic >Critical M	aı Spar ember	าร
Design Loading:		HS20												> Primary S		
						Po	osting	nfor	mation					·		
Required Vert. Cle	earance	e Posting	g (m)	UNDER	R: SWI	TZER	DR 7.	4m								
Posted Vertical CI	learanc	e (Y/N)		Yes												
Posted: Lane N	ΝB	On Bri	dge (m)	7.4 I	n Adva	ance	(Y/N)	Yes	Lane	SB	0	n Bridge (m)	7.4	In Advance	(Y/N)	Yes
Remarks																
Required Load Po	sting (t	t)		Single					Semi				Truck Train			
Posted Loading (t))			Single					Semi		Truck Train					
Posted: L	ane	EB		At Junction (Y/N)		′/N)	No		In Adva		Y/N)	No	At Bridge (Y/N) No			
Posted: L	ane	WB		At Junc	•				In Advance (Y/N)				idge (Y/N)			
Remarks N	Not requ	uired.														
Hazard Marker At	Bridge	(Y/N)	Yes													
Remarks			At appro	paching	ends o	only.										
Other Sign Types			Informa	tion.												
						Ut	ilities	Loca	ited at)							
Utility Attachment	s TEL	EPHON	IE UTILIT	ΓIES-PH	ONE L	INE										
Telephone N	North r/	w.						Ga	s							
Power S	Street li	ghting, S	Southeas	t.					nicipal							
Others L	ighting	on pier,	street lig	ghts on g	rade s	separa	ation.	Pro	Problem (Y/N) No							
Remarks																
							Appro									
						Last			Explanation of Condition							
Horizontal Alignm						6	6					levated curve to East; god		ntline.		
Vertical Alignment						6	6	10,,	On u	,, ., ., .						
Roadway Width (r	n)		11.200													
Approach Bump					6	6										
Guardrail (Y/N) Yes						No	guardra	ıl @ N	NE & S	E, pedestriar	n walk	way South sic	le.			
Guardrail				5	5											
Length (m) 30.000																
Current Standard (Y/N) No																
Termination Typ	е		Turned	Down				-	<u>.</u>							
Drainage						4	4	Se Sw	eping on drain tro	ito A1 ough l	phot - has si	o. gnificant spall	ing wi	th exposed re	barph	noto
Approach Road	Genera	al Rating	I			6	6									

					Supers	structure
Bridge Com	nonent			Last		Explanation of Condition
		ns. Lenath	s(m): 31.4-31.			
Special Feat		,		.,		
Special Feat				7	7	
·	DERSLUNG I	DIAPHR)				
Special Feat					X	
(Type:)						
	face/Deck Top	Detail Rat	inas			
Trouming Curr	N (%)	1 (%)	2 (%)	3 (%)	
Last	(**)	(**)	(12)		<u> </u>	
Now						
Wearing Surf	face	<u>'</u>	,	4	4	300 x 300mm pothole in South lane @ A1photo.
		ONVENTIO	NAL CHIP SE			Soo A seed man pointed in Seed in Idane S 7 111 printed.
(Thickness					,	
	ection Probler	m No				
(Y/N)						
Deck Top					N	
Deck Rideability					6	
Deck Joints	Deck Joints					Seepage @ SW & center of A1; staining on back & breastwall -
Temperatu	re (deg. C)	21				photo.
SLIDING P	PLATES))		(WABO UNDE	R FING	ER OR	
Gap Size (ı	mm)	Ga	ap Location			
30			ist abutment (A	2)		
53		Pie				
37		W	est abutment (A	\1)		
Deck Drainag				4	4	Stains at SW of A1 on back and breastwallsphoto
Drains Clog	gged (Y/N)	Yes				
Curbs/Media				7	6	
	: Standard)					
Scaling (Pe	ercent Area)	0				
Bridge Rail				4	4	Connection bolts missing @ pierphoto
(Type : GA	LVANIZED S	TEEL BRID	GE TUBE)			Grout pads deteriorated, insufficient thread on a few bolts.
Bridge Rail P	osts			4	4	,
(Type : GA STEEL)	LVANIZED P	OST STEE	L;GALVANIZE	D POST		
Bridge Rail/P	osts Coating			7	7	
(Type : GA	LVANIZED)					
Sidewalk				7	7	Sidewalk railing does not meet standard height, 1090mm.
Girder Detail	Ratings					
	N (count)	1 (count)	2 (count)	3 (co	unt)	
Last						
Now						

			Supers	tructure				
Bridge Component								
(Primary Span : FC, 2 Spans, Lo	engths(m): 31.4-31.4, A							
Girders	<u> </u>	4	4	Typical FC cracking @ ends. 540 longitudinal medium crack on				
Cracking (Y/N)	Yes			S1G9 propagating from West bearing. G1 on S1 & S2 medium				
Spalling (Percent Area)	0			longitudinal cracks.				
(Number Of Girders : 18)				Diagonal crack extends 310mm from connection bolt in South leg G2SP1 & 200mm in N leg of G1SP1.				
,			1					
Diaphragms/Cross Frame		4	4	End diaphragms are lightly scaled with two having bottom delam cracks with rust stains. 15mm deep exposed agg @ G1, most severe.				
Bearings		4	4	Superficial rust on ext bearing plate. Most abutment bearing pads				
Temperature (deg. C)	21			bulging. Most severe @ G1 & G2 - photo. Missing anchor bolt nut @ G4W & G5W.				
(Expansion Type : SLIDING P	LATE)							
(Fixed Type : REINFORCED N TEFLON AND STAINLESS S	reel)	WITH		Anchor bolts @ P1, G4,5,6 are bent to Southphoto				
Coating Adequate (Y/N)	No							
Functioning (Y/N)	Yes							
Deck Underside		7	7					
Stains (Percent Area)	0							
Span Alignment Problems								
Vertical (Y/N)	No							
Horizontal (Y/N)	No							
Superstructure General Rating	I	4	4					
			Subst	ructure				
Bridge Component		Last	Now	Explanation of Condition				
Abutments		1						
Bearing Seats/Caps		7	6	Several medium vertical cracks along A1 & A2.				
(Type : CONCRETE)		T _						
Backwalls/Breastwalls		7	6					
Wingwalls		7	5	Wide vertical crack @ NW wing.				
Piles		N	N					
Paint/Coating		5	5	2% peeling.				
Abutment Stability		7	7					
Scour/Erosion		Х	Х					
Piers/Bents								
(Type : PIER-COLUMN)				Rust stain from metal rebar supports.				
Bearing Seats/Caps		5	5	Medium cracks @ underside.				
(Type : CONCRETE)				Medium cracks & underside.				
(Total Number of Bearing Piles :	2)			2 delaminations at base of North columnphoto				
Pier Shaft/Piles		6	4					
Bracing/Struts/Sheathing		Х	Х					
Nose Plate			Х					
Paint/Coating			5	Rust stains under cap, coating peeling off columns, 2%.				
(Colour Description :)				Grey.				
(Colour Code :)								
Pier Stability		7	7					

Substructure									
Bridge Component		Last	Now	Explanation of Condition					
Scour		X	X						
Debris (Y/N)	No								
Substructure General Rating		5	4						
Structure Usage									
		Last	Now	Explanation of Condition					
Grade Separation									

		re Usage							
		Last	Now	Explanation of Condition					
Grade Separation									
Road Alignment		7	7						
Traffic Safety Features		5	5	Lo-rise precast curbs as pedestrian barrier. Light mounted on pie					
Туре	Light/Guardrail			column; guardrail protecting pier column.					
Slope Protection		4	4	50mm separation @ W abutment between conc. slope protection					
(Type : CONCRETE; CONCRE	TE)			and breaswallsphoto					
Bank Stability		7	7						
Drainage			8						
Grade Separation General Rati	Grade Separation General Rating								

Bridge Inspection & Maintenance System (Web 2005)

			Maintenance R	ecommend	ations						
Inspector Recommendations		Year	Inspector Comments		Department Cor	mmen	ts		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL		2013	Bore out rail expansion sleeve holes bolts.	s & install							
GALVANIZE/PAINT BRIDGE RAIL											
SEAL CURBS											
PATCH DECK		2013	Patch pot hole.								
SEAL DECK											
OVERLAY DECK											
REPAIR/REPLACE DECK JOINTS		2013	Replace or repair glands.								
RESET/ PAINT BEARINGS											
WASHING											
SHOTCRETE REPAIRS											
REPAIR ABUTMENT SCOUR/EROSION		2013	Seal gap at top of concrete slope pr breastwall, both abutments.	otection &							
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
OTHER ACTION		2013	Repair drain trough at SW corner.								
OTHER ACTION		2013	Repair delaminations at pier.								
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/l(%)	Now)	50.0/44	Sufficiency Rating (Last/	Now)	66.6/54.5	Est	. Repl. Yr	2045	Maint. Re	qd. (Y/N)	Yes
Special Monitor bearings. Comments for Next Inspection					Department Comments	·					
Maintenance Reviewed By					Date				Estimated Tota	I 0	
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name Eric C		arcoux		Assistant's Name							
Next Inspection Date	06-Apr-	-2014		Previous I	nspection Date		15-Sep-2010				
Inspection Cycle (Default) (months)	21										
Comment											