						В	ridge l	Inspe	ection							
Bridge File Number 75935 S-1 Br				Bridge				Foi	Form Type			SG	SG			
Year Built/Year Supstr		1968/196	/1968						Lot No.			2 Wada Nanninga				
Bridge or Town	Name	EDMON.	MONTON					Inspector Name			Wade Nanninga					
		WOOD PARK FREEWAY:02 R1					Inspector Class			BR CLS A						
			ERWOOD PARK FREEWAY:02 L1					Assistant Name Assistant Class								
Located On RAMP 83-			3-1 A:LO	CAL RO	AD				Inspection Date			14-Jan-2013				
Water Body Cl./Year			,						Data Entry By			Lisa Fairhurst				
Navigabil. Cl./Year									Data Entry Date			26-Mar-2013				
			29 TWP 52 RGE 23 W4M						Reviewer Name			Eric Carcoux				
			18, 53:30:52						Review Date			25-Mar-2013				
Road Authority Alberta Tr			ransporta	ation (Al	T)			De	Dept. Reviewer Name			Brent Herricl	<			
Contract Main. A	Area	ANTHON	NY HEND	AY DRI	VE			De	pt. Revi	iew Da	te	26-Mar-2013	3			
Clear Roadway/	Skew	7.3 / 22 0	deg. (RHF	-)				Fol	low-Up	Ву						
AADT/Year		4,400 / 2	013 (E)													
Road Classificat	tion	RAU-209	9-110													
Detour Length (I		1														
Allowable Load	(t): Sir	ngle			Semi	i				Train				> On Critic	al Spar	าร
Design Loading:	I	HS2	20							1				> Primary		
						Ро	sting l	Infor	mation							
Required Vert. 0	Clearar	nce Postin	g (m)	UNDE	R: SHE	RWO	OD PA	RK F	REEW	AY L1	5.3m,	SHERWOOD	PAF	RK FREEWAY	′ R1 5.3	3m
Posted Vertical	Cleara	nce (Y/N)		Yes												
Posted: Lane	EB	On B	ridge (m)	5.6	In Adv	ance ((Y/N)	Yes	Lane	WB	C	n Bridge (m)	5.3	In Advance	(Y/N)	Yes
Remarks				I					1							
Required Load F		g (t)		Single					Semi				Truc	k Train		
Posted Loading	(t)			Single					Semi				ruck Train			
Posted:	Lane	NB		At June						n Advance (Y/N) n Advance (Y/N)				Bridge (Y/N)		
Posted:	Lane	SB		At June	ction (\	//N)	No		In Adv	ance (Y/N)	No	At B	ridge (Y/N)	No	
Remarks		0.70														
Hazard Marker	At Brid	ige (Y/N)	No	NO None required.												
Remarks			Information, Speed, Directional.													
Other Sign Type	es		Informa	tion, Sp	eea, D			Loca	ited at)							
Utility Attachmen	nts					UL	illiles (LOGa	ileu al)							
Telephone								Ga	s							
Power									nicipal							
Others	Stree	t lighting.{	Abandon	ndoned on parapet. July 20,				blem (Y/N)	No						
Remarks	2010	CP inspec	zuon}													
·······································							Approa	ach F	Road							
						Last	Now		Explanation of Condition							
Horizontal Alignment					5	5		Access to bridge from Sherwood Park Freeway has tight cu					nt curve	÷.		
Vertical Alignment					6	6										
Roadway Width (m) 7.200																
Approach Bump					5	5	\perp									
Guardrail (Y/N)			Yes					{Mi	ssing 1	splice	bolt.	Not connected	d to p	arapet @ NW	corner	. 1
Guardrail					3	3	_ Tui	cracked recycled plastic Turndown NE. Turnout		ts at SE & SW	. July /.	20, 2010 CP	ınspect	iion}		
Length (m)			58.000					No	t conne	cted to	BR a	t NWphoto				
Current Standard (Y/N) No			No	No			INO	No thrie beam, missing posts @ corners.								
			Turned	Down												
Drainage						6	6									

				ļ	Approa	ch Road					
					Now	Explanation of Condition					
Approach Road General Rating				5	5						
D. I. L. O.						tructure					
Bridge Com	•		\- 40 4 00 7			Explanation of Condition					
		ns, Lengtns	m): 13.1-28. <i>7</i>	-24.7-13	.1, A-IC	lent Number: A0591-01)					
Special Fea					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						
Special Feat	ture				X						
	(Type:)										
Special Feat	ture				X						
(Type :)											
Wearing Sur	face/Deck Top			0 (0()							
	N (%)	1 (%)	2 (%)	3 (%)							
Last	20.0	2.0	0.0								
Now	80.0	0.0	0.0		0.0						
Wearing Sur				7	7						
	ype : ACP)										
(Thickness	s(mm) : 50)										
Deck Top				N	N						
Deck Rideal	Deck Rideability			7	7						
Deck Joints	Deck loints			3	3	SE curb coverplate corroded through. Trough conditions under deck					
	ure (deg. C)	-5				drainage. July 20, 2010 CP inspection} Slight vertical misalignment of fingers. North drain trough failed. South drain trough corroded and leaking. North paving lip					
	n Type : FINGE										
(Fixed Typ		INTEATEO)				deteriorated, 1m length - photo. South paving lip deteriorated, 0.8m					
Gap Size (•	Gan	Location			length.					
8	(111111)			vnancia	^						
35			abutment - e								
33		Sout	n abutment - e	expansio	<u>N</u>						
Deck Draina	ine			3	3	South drain trough rusted, hole 300mm long @ c/l of bridge. North					
	gged (Y/N)	No				abutment drain trough 40% rusted away and missing - photo.					
Curbs/Media				4	N	No drains. Spalling along bottom edge and at joints. Vertical cracks					
	e : JERSEY/F \$	SHAPE)			114	at 0.4m spacing in curb parapet. Small spalls along cracks					
	ercent Area)	20				throughout. Peeling 30% failure.					
	ercent Area)	20		X	V	There is no bridgerall					
Bridge Rail					X	There is no bridgerail.					
(Type:)	Posts			X	Х						
Bridge Rail F	-0818										
(Type:)	Doots Coating			V	V						
	Posts Coating			Х	X						
(Type:)				V	V						
Sidewalk				X	Х						
Girder/Bear					T _						
	Cover Plate			7	7	Very slight sag in bottom flanges of exterior girders of north span.					
Flange				6	6						
Web				7	7						
Stiffeners	Stiffeners				7						
Splice				7	7						
Weld	Weld				7						

			Supers	tructure				
Bridge Component		Last		Explanation of Condition				
(Primary Span : RB, 4 Spans	Lengths(m): 13							
Diaphragms/Cross Frame	<u> </u>	7	7	,				
Paint Condition		4	4	Pitting rust about 20% of bottom flange. Rust on 10% of diaphragms.				
(Colour Description :)				Green.				
(Colour Code :)								
Touchup Required (Y/N)	No							
Bearings		4	4	(Bearings 1, 2 & 3 fully extended at 22 degree. July 20, 2010 CP				
Temperature (deg. C)	-5			inspection) Bearing 1 @ A2 has pack rust and has jacked up 10mm. Bearing 2 &				
(Expansion Type : SLIDING	PLATE)			3 @ AŽ, anchor bolt bent. Bearing 4 @ A2 East anchor bolt broken off.				
(Fixed Type : PINNED BEA	RING)			on.				
Coating Adequate (Y/N)	No							
Functioning (Y/N)	Yes							
Deck Underside		4	4	Transverse cracks with rust stain and/or efflorescence. Staining and				
Stains (Percent Area)	15			scaling around weep tubes. Spalling with exposed rebar between G3G4 @ S2, S3 & S4. Similar on spans 1, 2 & 3.				
Span Alignment Problems								
Vertical (Y/N)	No							
Horizontal (Y/N)	No							
Superstructure General Rat	ng	4	4					
•	_							
				ructure				
Bridge Component		Last	Now	Explanation of Condition				
Abutments Regring Secto/Cons		7	7					
Bearing Seats/Caps		/	7					
(Type : CONCRETE)								
Backwalls/Breastwalls		5	5					
Wingwalls		5	5					
Piles		N	N					
Paint/Coating		4	4	Staining @ abutments				
Abutment Stability		6	6					
Scour/Erosion		4	4	(Slope protection buckled July 2010)				
OCOUI/E103I0I1				(Globe protection buckled duly 2010)				
Piers/Bents								
(Type : PIER-COLUMN)								
Bearing Seats/Caps		5	5					
(Type : CONCRETE)								
(Total Number of Bearing Pile	s : 2:2:2)		1					
Pier Shaft/Piles		5	5					
Bracing/Struts/Sheathing		X	X					
Nose Plate		X	X					
Paint/Coating			4	40% of paint is cracked & peeling.				
(Colour Description :)				Grey.				
(Colour Code :)				- Gley.				
Pier Stability		5	5					
Scour		X	X					
Debris (Y/N)	No							

Substructure										
Bridge Component			Now	Explanation of Condition						
Substructure General Rating			5							
			Venne ven	ra Unama						
			<u> mucuu</u>	re Usage						
		Last	Now	Explanation of Condition						
Grade Separation			_							
Road Alignment		8	8							
			-							
Traffic Safety Features		4	6							
Туре	Type Flexbeam/H.M.									
Slope Protection		4	4	{Buckled @ NW by pier 3. July 20, 2010 CP inspection}						
(Type : CONCRETE; CONCRE	ETE)									
Bank Stability		6	6							
Drainage		5	5							
One de Consensións Consensións			4							
Grade Separation General Rati	ing	4	4							

Bridge Inspection & Maintenance System (Web 2005)

		Maintenance Re	commenda	ations					
Inspector Recommendations	Year	Inspector Comments		Department Com	ments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL							9		
GALVANIZE/PAINT BRIDGE RAIL									
RETROFIT BRIDGE RAIL									
SEAL CURBS									
PATCH DECK	2014	{Patch next major rehab. July 20, 20 inspection}	10 CP						
SEAL DECK									
OVERLAY DECK									
REPAIR/REPLACE DECK JOINTS	2013	Replace abutment drain troughs.							
RESET/ PAINT BEARINGS	2014	{Repair bearings next rehab. July 20 inspection} Consider re-setting/repairing bearing							
REPAINT SUPERSTRUCTURE	2015	{Paint within 5 years. July 20, 2010 Cinspection}	CP						
STRAIGHTEN/REPLACE MEMBERS									
WASHING									
SHOTCRETE REPAIRS									
REPAIR ABUTMENT SCOUR/EROSION									
PLACE ADDITIONAL RIP RAP									
REMOVE DRIFT ACCUMULATION									
OTHER ACTION	2013	Repair paving lips @ A1 & A2.							
OTHER ACTION	2013	Connect GR to Jersey barrier @ NW	<i>'</i> .						
OTHER ACTION	2013	{Replace 1 recycled plastic guardrail attach guardrail to bridge @ NW & in splice bolt @ NW. If not done}	post and estall 1						
OTHER ACTION	2013	{Replace pier hazard markers. July 2 CP inspection}	20, 2010						
Structural Condition Rating (Last/Now)	50.0/50	Sufficiency Rating (Last/N (%)	Now) 4	9.4/49.4	Est. Repl. Yr	2022	Maint. Re	qd. (Y/N)	Yes
Special Comments for Next Inspection				Department Comments					
Maintenance Reviewed By				Date		E	stimated Tota	I 0	
Proposed Long-Term Strategy									
On 3-Year Program (Y/N)									
Proposed Action									
Previous Inspector's Name Ra	andy Bredo		Previous A	ssistant's Name	Bryce Clayto	n			
	4-Apr-2016			nspection Date	08-Mar-2011				
Inspection Cycle (Default) (months) 39				1	,				

Alberta Transportation Bridge Inspection & Maintenance System (Web 2005)

75935 S-1 Bridge

Comment