						В	ridge Ir	nspectio	on							
Bridge File Number	r 07	484 -1	Bridge					Form T	уре			PSR				
Year Built/Year	19	61/196	1					Lot No				2				
Supstr		1014/41	.,					Inspector Name			Wade Nanninga					
Bridge or Town Na					\A/A TED		NO OT	Inspec	tor C	Class		BR CLS A				
Located Over		STURGEON RIVER, 6.65, WATI 777:01 C1 1.175				CF	(8-81	Assista	ant N	lame						
Located On								Assista	ant C	Class						
Water Body Cl./Yea									tion	Date		13-Mar-2013				
Navigabil. Cl./Year		V 050	4 TMD 5		2 14/5 14			Data E	ntry	Ву		Theresa Lacusta				
Legal Land Locatio			1 TWP 5		2 WSM			Data E	ntry	Date		02-Apr-2013				
Longitude, Latitude			1, 53:43		<b>-</b> \			Review	ver N	r Name Eric Carcoux						
Road Authority			ransporta	ation (Ai	1)			Review Date 25-Mar-2013								
Clear Bandway/Skr	Contract Main. Area CMA09 Clear Roadway/Skew 8.4 /				Dept. Reviewer Name											
AADT/Year 870 / 2011 (A)				Dept. Review Date			)	02-Apr-2013	3							
Road Classification		0 / 201 CU-209	. ,					Follow	-Up	Ву						
Detour Length (km)		,0-209	-110													
Allowable Load (t):	<u> </u>	H 28	<b>,</b>		Semi	HS	S 49	<u> </u>		Train		CS3 67> On Critical Spa			cal Spans Iember	
Design Loading:		HS2	0								<u> </u>	, DEIX		> Primary		
_ co.gcog.						Po	sting Ir	nformat	ion					, i imiary	opan.	
Required Load Pos	Required Load Posting (t) Single						Semi					Truck Train				
Posted Loading (t)							Se	mi				Truc	Truck Train			
Posted: La	ane	NB At Junction (Y			tion (Y/N	)	No	In Advance (Y/N)		/N)	No	At B	ridge (Y/N)	No		
Posted: La	ane	SB At Junction (Y		tion (Y/N	)	No	In .	Adva	ance (Y	/N)	No	At B	ridge (Y/N)	No		
Remarks Not required.																
Hazard Marker At Bridge (Y/N) Yes																
Remarks			NW mis	sing, SV	V leaning	, S	E leanin	g. All h	azar	d mark	ers a	t various hei	ghts, d	do not meet st	andard.	
Other Sign Types																
					Ut	ilities (L	ocated	at)								
Utility Attachments																
Telephone W	est r/w.							Gas								
Power Si	ingle lin	e East	r/w.					Munici	pal							
Others								Proble		•	lo					
Remarks Co	onduit a	ttache	d to Wes	t exterio	r girders					not in ι	ıse.					
								ch Roa								
						st	Now	Explan				tion				
Horizontal Alignment				7	7	Intersection to North. Sag curve. No passing SBL.										
Vertical Alignment						6	6		Steep grades both directions.							
Roadway Width (m) 9.200																
Approach Bump						7	7									
Guardrail (Y/N)			Yes					Minor	dent	s to rail	. (sed	ction of rail in	prope	erly lapped SV	V-Jul, 2012. ; NW - 44.7m;	
Guardrail						4	4	SW - 1					v ox O	L. INL - U1.3III	, 14VV - 44./III,	
Length (m)			19.000					-								
Current Standard			No	_												
Termination Type	9		Turned	Down			T _									
Drainage						7	7									
Approach Road G						6	6									

					Supers	tructure
Bridge Comp	onent			Last		Explanation of Condition
		ns, Lengths(m	n): 9.1-10.7-9.	1, A-Id		·
Special Feat	ures					
Special Featu	ıre				X	
(Type:)						
Special Featu	ıre				Х	
(Type:)						
	ace/Deck Top	Detail Ratings	3			
	N (%)	1 (%)	2 (%)	3 (%)		
Last						
Now	80.0	0.0	0.0	(	0.0	
Wearing Surf	ace			4	4	Numerous patches - photo.
		ETE - CONVE	NTIONAL CH	IP SEA	\L	Chipseal worn off 20%.
(Thickness)	mm) : <b>50</b> )					Mostly snow covered.
	ection Problen	n No				
Deck Top				N	N	
Deck Rideabi	lity			4	4	Patches provide rough ride.
Deck Joints				4	4	Crack over piers and abut.
Temperature (deg. C) -10					Type I joints @ piers.	
(Expansion Type : )						
(Fixed Type : )						
Gap Size (mm) Gap Location						
Deck Drainag	je			4	N	Gravel impeding drainage along E curb.
Drains Clog	ged (Y/N)	No				
Curbs/Mediar	n			4	4	Medium-heavy scaling.
(Curb Type	: Standard)					Shallow cover on S3Ğ10 outside fascia.
Scaling (Pe	rcent Area)	20				
Bridge Rail				4	4	Double layer. Improper splice.
	LVANIZED ST	TEEL FLEX B	EAM)			Post A/B with insufficient thread on nuts & 3 nust not tight - photo.
Bridge Rail P			,	4	4	
(Type: GALVANIZED POST STEEL;GALVANIZED I STEEL)			POST		Dirty/surface spot corrosion on A/B's.	
Bridge Rail/P	osts Coating			4	4	
	LVANIZED)					
Sidewalk	,			Х	Х	
Girder Detail	Ratings					
	N (count)	1 (count)	2 (count)	3 (co	unt)	SP3G4 WLC in AZ with efflorescence.
Last	0	0	2		5	S2G2, S1G3, S3G7 & G3, all cracking along underside, no corrosion.
Now	0	0	2		5	S1G6, 3 wide delam cracks in AZ~corrosionphoto S3G6 3 wide delam cracks in AZ-no corrosion.

		,	structure				
Bridge Component		Last	Now	Explanation of Condition			
(Primary Span : PJ, 3 Spans, Le	engths(m): 9.1-10.7-9.1	I, A-Ide	ent Nur	mber: )			
Girders		2	2	G7, SP3 narrow to wide longitudinal cracking. South end extending			
Cracking (Y/N)	Yes			into AZ. SP1G3 wide longitudinal crack into AZ @ P1 - photo.			
Spalling (Percent Area)	1			SP2G2 corner is spalling near N pier.			
(Number Of Girders : 30)							
Diaphragms/Cross Frame		Х	X				
Bearings		7	7				
Temperature (deg. C)	-15						
(Expansion Type : )							
(Fixed Type : NEOPRENE ST	RIP BEARING)						
Coating Adequate (Y/N)	Yes						
Functioning (Y/N)	Yes						
Deck Underside		2	2	See girder ratings.			
Stains (Percent Area)	0						
Span Alignment Problems							
Vertical (Y/N)	No						
Horizontal (Y/N)	No						
Superstructure General Rating	)	2	2				
			Outest				
Bridge Component		Last	Now	Explanation of Condition			
Abutments		Lasi	INOW	Explanation of Condition			
Bearing Seats/Caps		7	6	Ext piles @ 1.5m.			
(Type : <b>STEEL</b> )				356 x 356, H iron caps.			
Backwalls/Breastwalls		6	5	South backwall exposed.			
Wingwalls		6	6				
Piles		4	2	Cored in 2013 A1 P4 & P5 -5mm wide vertical split - photo. 7 TT piles/abutment.			
				Rot with voids in P6,7 Abutment 1, & P2 Abutment 2.			
Paint/Coating		4	4	Steel caps scaling rust.			
Abutment Stability		5	5				
Scour/Erosion		5	5	Bottom sheathing visible exposing fill S abut.			
Piers/Bents							
(Type : <b>PIER-COLUMN</b> )				356 x 356 H steel caps. Angle bracket installed at exterior corners to			
Bearing Seats/Caps			5	hold girders from lateral movement. P1 cap minor rotation - 5 degrees towards river.			
(Type : <b>STEEL</b> )				·			
(Total Number of Bearing Piles :	9:9)			O miles @ DO with wide continue and to OF May 2000			
Pier Shaft/Piles		4	4	3 piles @ P2 with wide vertical split05-May-2008 Pier 2 piles not fully bearing on capphoto			
				Cored in 2013			
				Pier 2 pile 5 with beginning rot @ waterline.			
Bracing/Struts/Sheathing		5	5	Full height sheathing. Sheathing missing @ bottom of both piers08-Sep-2011			
Nose Plate		Х	Х	Chocking thissing & Bottom of Both piers00-06p-2011			
Paint/Coating		4	4	Scaling rust on caps.			
(Colour Description : )							
(Colour Code : )							

			Subst	ructure			
Bridge Component		Last	Now	Explanation of Condition			
Pier Stability		6	6				
Scour		N	N				
Debris (Y/N) Yes				Old piles @ beaver dam.			
Substructure General Rating		4	2				
			Structu	re Usage			
		Last	Now	Explanation of Condition			
Channel							
(U/S Direction: W)				On bend.			
(D/S Direction : E)				Turns 90 deg, 20m d/s.			
Alignment		5	5				
Bank Stability		7	7				
HWM (m below Top of Curb)				HWM not visible.			
Drift (Y/N)	Yes						
Slope Protection		5	5	Bottom planks exposing fill S abut.			
(Type: NATURAL; NATURA	L)						
Guidebank/Spurs		X	X				
Adequacy of Opening		4	4	Beaver dam across U/S end of bridge - photo. )4.5m deck to SBMay, 2008)			
(Fish Compensation Measure 1	: NONE)						
(Fish Compensation Measure 2	: NONE)						
Channel General Rating	· · · · · · · · · · · · · · · · · · ·	4	4				

Alberta Transportation

		Maintenance Recommendations	endations				
Inspector Recommendations	Year	Inspector Comments	Department Comments	nents	Target Year E	Est. Cost Cat #	# 1
REPAIR/REPLACE BRIDGE RAIL	2013	Rehab & upgrade to meet standard.					
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS	2013						
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	Z						
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION	2013	Remove beaver dam in U/S side of bridge in channel. Remove old piles.					
OTHER ACTION	2013	Schedule for replacement.					
OTHER ACTION	2013	Upgrade approach guardrail to meet standard.	ġ				
OTHER ACTION	2013	Install nose plate on piers if rehab.					
OTHER ACTION	2013	Reinstall hazard markers to meet standard.					
OTHER ACTION	2013	Replace 7 girders.					
OTHER ACTION	2013	Treat and band P4/5 AB 1.					
OTHER ACTION	2013	Replace rotten piles.					
Structural Condition Rating (Last/Now) (%)	w) 33.3/22.2	.2 Sufficiency Rating (Last/Now) (%)	48.3/46.6	Est. Repl. Yr 2015	Maint. Reqd. (Y/N)	. (Y/N) Yes	
Special Monitor cracked gird Comments for Issue LRA to Rizwar Next Inspection Coring done in 2009 Beginning rot in an adetermined.	ers. Inspect an Hussain via e- , discovered rot additional 11/18	Monitor cracked girders. Inspect annually until repaired/replaced. Issue LRA to Rizwan Hussain via e-mail 20-March-2013. Coring done in 2009, discovered rot in 5/18 pier piles. Beginning rot in an additional 11/18. Delay reapirs until replacement option determined.	Department				
Maintenance Reviewed By			Date		Estimated Total	0	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Wade Nanninga		Previous Assistant's Name				
Next Inspection Date	13-Jan-2014	Previo	Previous Inspection Date	24-Jul-2012			
Inspection Cycle (Modified) (months)	10						
Comment							

		Maintenance Recommend	dations					
Inspector Recommendations	Year	Inspector Comments	Department Con	nments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2013	Rehab & upgrade to meet standard.						
GALVANIZE/PAINT BRIDGE RAIL								
SEAL CURBS	2013							
PATCH DECK								
SEAL DECK								
OVERLAY DECK								
REPAIR/REPLACE DECK JOINTS								
RESET/ PAINT BEARINGS								
WASHING								
SHOTCRETE REPAIRS								
REPAIR ABUTMENT SCOUR/EROSION								
PLACE ADDITIONAL RIP RAP								
REMOVE DRIFT ACCUMULATION	2013	Remove beaver dam in U/S side of bridge in channel. Remove old piles.						
OTHER ACTION	2013	Schedule for replacement.						
OTHER ACTION	2013	Upgrade approach guardrail to meet standard.						
OTHER ACTION	2013	Install nose plate on piers if rehab.						
OTHER ACTION	2013	Reinstall hazard markers to meet standard.						
OTHER ACTION	2013	Replace 7 girders.						
OTHER ACTION	2013	Treat and band P4/5 AB 1.						
OTHER ACTION	2013	Replace rotten piles.						
Structural Condition Rating (Last/Now) (%)	33.3/22	.2 Sufficiency Rating (Last/Now) (%)	48.3/46.6	Est. Repl. Yr	2015	Maint. Re	eqd. (Y/N)	Yes
Comments for Next Inspection   Issue LRA to Rizwan Hus	sain via e covered re		Department Comments					
Maintenance Reviewed By			Date			Estimated Tota	ıl 0	
Proposed Long-Term Strategy								
On 3-Year Program (Y/N)								

Proposed Action			
Previous Inspector's Name	Wade Nanninga	Previous Assistant's Name	
Next Inspection Date	13-Jan-2014	Previous Inspection Date	24-Jul-2012
Inspection Cycle (Modified) (months)	10		
Comment			