							Bridge lı	nspec	tion							
Bridge File Number	77316 -2 Bridge							Form Type			SG					
Year Built/Year	20	2002/2002					Lot No.					1				
Supstr								Inspector Name			Wade Nanninga					
Bridge or Town Nam								Inspector Class			BR CLS A					
Located Over	BF	RAZEA	U RIVER	, 6.149,	WATE	RCR	S-ST	Assistant Name								
Located On	73	4:22 C	1 26.987					Assistant Class								
Water Body Cl./Yea	r							Inspection Date			22-Apr-2013					
Navigabil. Cl./Year									Entry			Theresa La				
Legal Land Location	SV	V SEC	16 TWP	45 RGE	18 W5	M			Entry			30-Apr-201				
Longitude, Latitude	-1 ⁻	16:33:2	29, 52:52:	41					Reviewer Name Eric Carcoux							
Road Authority	All	berta T	ransporta	ation (Al	T)	Review Date				29-Apr-201						
Contract Main. Area	CN	MA13				Dept. Reviewer Nam			ame							
Clear Roadway/Ske	w 9 /	<u>'</u>				Dept. Review Date				01-May-201						
AADT/Year	12	0 / 201	2 (A)						w-Up		<u>, </u>	or way zor				
Road Classification	ad Classification RLU-208G-90							_ T One	W Op	Бу						
Detour Length (km)	25	0														
Allowable Load (t):	Single	CS1	CS1 28 Semi			С	S2 49			Train	CS	3 62		> On Crit	> On Critical Spans >Critical Member	
Design Loading:		CS7	50									> Primar			/ Span	
						Р	osting l									
	Required Load Posting (t)			Single				Semi				Truck Train				
	Posted Loading (t)			Single				Semi				Truck Train				
Posted: Lar		NB		At Junc			No			ance (Y		No		ridge (Y/N)	No	
Posted: Lar	ne	SB		At Junc	tion (Y	/N)	No		In Adv	ance (Y	/N)	No	At B	ridge (Y/N)	No	
Remarks																
Hazard Marker At B	ridge ((Y/N)	Yes													
Remarks																
Other Sign Types																
Litility Attackers and						U	tilities (L	Locate	ed at)							
Utility Attachments								0								
Telephone								Gas								
Power								Municipal Problem (Y/N) No								
Others								Prob	olem (1	(/N) N	10					
Remarks							A	ala D								
						Last	Approa Now			on of Co	andi	tion				
Horizontal Alignmen	t					3	NOW 4		Explanation of Condition Winding road with steep vertical curve at both approaches. Poster					thes Posted		
Vertical Alignment						3	4	for 3	5km/h	r. Bridge	e on	uphill grade	both d	lirections.	anco. I Uoleu	
			7 700				4									
Roadway Width (m)			7.700			7	7									
Approach Bump			Ves			-/	1									
Guardrail (Y/N)			Yes													
Guardrail			17 000			6	6									
Length (m)	() (() !)		17.300													
Current Standard	(Y/N)		Yes													
Termination Type			Turned	Down												
Drainage						4	4	Heav	vy gra	vel build	iup u	nder NW rai	l.			
Approach Road Ge	eneral	Rating	9			4	4									

Temperature (deg. C) 0 (Expansion Type :) (Fixed Type :) Gap Size (mm) Deck Drainage Drains Clogged (Y/N) Curbs/Median Scaling (Percent Area) Bridge Rail Type : GALVANIZED STEEL FLEX BEAM) Bridge Rail Posts Bridge Rail Posts Bridge Rail/Posts Coating Bridge Rail/Posts Coatin					(Supars	tructure
Primary Span : WG, 2 Spans, Lengths(m): 56-56, A-Ident Number: A1417-01) Special Feature	Bridge Com	ponent					
Special Feature		-	ans. Lengt	hs(m): 56-56			
Special Feature			o, _o.i.gt				
Type : Special Feature						X	
Special Feature	-						
Wearing Surface/Deck Top Detail Ratings		ture				Y	
Wearing Surface		uic					
N (%)		face/Dook Ton	Dotoil Dot	ingo			
Last Now	vvearing Sur				2 (0/)		
Now	Loct	IN (%)	1 (%)	2 (%)	3 (%)		
Wearing Surface 6 5 Marred by winter chains & equipment. Transverse cracks every 2m.							
Material Type : CONCRETE Transverse cracks every 2m.		4000			0		Manual huusintan ahaina 9 assiinmassi
Chickensymmi : 75) 205mm - 255mm deck slab.			\		б	5	Transverse cracks every 2m.
Deck Rideability			EIE)				
Deck Rideability Deck Joints X X X Semi-intergal abutments. Temperature (deg. C) (Expansion Type:) (Fixed Type:) Gap Size (mm) Deck Drainage Drains Clogged (Y/N) Curbs/Median X X (Curbs/Median X X (Curb Type: Standard) Scaling (Percent Area) Bridge Rail (Type: GALVANIZED STEEL FLEX BEAM) Bridge Rail Posts 8 3 (Type: GALVANIZED POST STEEL;GALVANIZED POST STEEL;GALVANIZED POST STEEL;GALVANIZED SIdewalk X X Sidewalk X X Small nick on bottom flange of S1G1 near south abutment - construction Cover Plate Flange 8 7 Web 8 8 Stiffeners 8 8 Stiffeners 8 8 Splice 8 8 Semi-intergal abutments. Type I @ both abutment only. Semi-intergal abutments. Type I @ both abutment only. Type I @ both abutment		s(mm) : 75)				1	205mm - 255mm deck siab.
Deck Joints	Deck Top				N	N	
Temperature (deg. C)	Deck Rideat	oility			9	9	
Temperature (deg. C)	Deck Joints	Deck Joints					Semi-intergal abutments.
(Expansion Type :) (Fixed Type :) Gap Size (mm) Deck Drainage Drains Clogged (Y/N) Curbs/Median Curbs/Median Curbs/Median Curbs/Beari Citype : Standard) Scaling (Percent Area) Bridge Rail Citype : GALVANIZED STEEL FLEX BEAM) Bridge Rail Posts SiffeL) Bridge Rail/Posts Coating Citype : GALVANIZED POST STEEL; GALVANIZED POST STEEL) Bridge Rail/Posts Coating Citype : GALVANIZED Sidewalk X X Girder/Beam Cover Plate Cover Plate Cover Plate X X Flange X X Small nick on bottom flange of S1G1 near south abutment - construction Stiffeners X X Small nick on bottom flange of S1G1 near south abutment - construction Stiffeners X X Small nick on bottom flange of S1G1 near south abutment - construction Stiffeners X X Small nick on bottom flange of S1G1 near south abutment - construction	Temperatu						
(Fixed Type :) Gap Size (mm) Gap Location Deck Drainage Drains Clogged (Y/N) Curbs/Median X X X (Curb Type : Standard) Scaling (Percent Area) Bridge Rail 6 4 Thrie beam. Accident damage at NW- still functioning - post bent. Strengthened with retrofit post anchorage. Street Cally Sidewalk X X Girder/Beam Cover Plate Cover Plate Cover Plate Stiffeners Splice Spl							
Gap Size (mm) Gap Location Deck Drainage Drains Clogged (Y/N) Curbs/Median X X X (Curb Type : Standard) Scaling (Percent Area) Bridge Rail (Type : GALVANIZED STEEL FLEX BEAM) Bridge Rail Posts 8 3 (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL) Bridge Rail/Posts Coating (Type : GALVANIZED) Sidewalk X X Girder/Beam Cover Plate							Type I @ both abutment only.
Deck Drainage Drains Clogged (Y/N) Curbs/Median X X (Curb Type : Standard) Scaling (Percent Area) Bridge Rail Grype : GALVANIZED STEEL FLEX BEAM) Bridge Rail Posts Strengthened with retrofit post anchorage. Bridge Rail/Posts Coating Bridge Rail/Posts Coating Bridge Rail/Posts Coating Strengthened with retrofit post anchorage.			Ga	ap Location			
Drains Clogged (Y/N) Curbs/Median X X (Curb Type : Standard) Scaling (Percent Area) Bridge Rail (Type : GALVANIZED STEEL FLEX BEAM) Bridge Rail Posts 8 3 (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL) Bridge Rail/Posts Coating Ridge Rail/Posts Coating 8 8 (Type : GALVANIZED) Sidewalk X X Girder/Beam Cover Plate X X X Flange 8 7 Web 8 8 Stiffeners 8 8 Splice Weld Not much cross slope, ice on deck at South abut. due to bridge grade. Not much cross slope, ice on deck at South abut. due to bridge grade. Not much cross slope, ice on deck at South abut. due to bridge grade. Not much cross slope, ice on deck at South abut. due to bridge grade. Strengthened with retrofit post anchorage.	- Cap C.20 (<u> </u>			
Drains Clogged (Y/N) Curbs/Median X X (Curb Type : Standard) Scaling (Percent Area) Bridge Rail (Type : GALVANIZED STEEL FLEX BEAM) Bridge Rail Posts 8 3 (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL) Bridge Rail/Posts Coating Ridge Rail/Posts Coating 8 8 (Type : GALVANIZED) Sidewalk X X Girder/Beam Cover Plate X X X Flange 8 7 Web 8 8 Stiffeners 8 8 Splice Weld Not much cross slope, ice on deck at South abut. due to bridge grade. Not much cross slope, ice on deck at South abut. due to bridge grade. Not much cross slope, ice on deck at South abut. due to bridge grade. Not much cross slope, ice on deck at South abut. due to bridge grade. Strengthened with retrofit post anchorage.							
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Curbs/Median X X X (Curb Type : Standard) Scaling (Percent Area) Bridge Rail 6 4 (Type : GALVANIZED STEEL FLEX BEAM) Bridge Rail Posts 8 3 (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL) Bridge Rail/Posts Coating 8 8 8 (Type : GALVANIZED) Sidewalk X X Girder/Beam Cover Plate X X X Flange 8 7 Web 8 8 8 Stiffeners 8 8 8 Splice 8 8 8 Weld 8 8					J	_ J	Not much cross slope, ice on deck at South abut. due to bridge
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Scaling (Percent Area) Bridge Rail (Type : GALVANIZED STEEL FLEX BEAM) Bridge Rail Posts 8 3 (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL) Bridge Rail/Posts Coating (Type : GALVANIZED) Sidewalk X X Girder/Beam Cover Plate Cover Plate X X X Flange 8 8 Stiffeners 8 8 Splice 8 8 Splice 8 8 Weld						_ ^	
Bridge Rail 6 4 (Type : GALVANIZED STEEL FLEX BEAM) Bridge Rail Posts 8 3 (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL) Bridge Rail/Posts Coating 8 8 (Type : GALVANIZED) Sidewalk X X Girder/Beam Cover Plate X X X Flange 8 7 Web 8 8 8 Stiffeners 8 8 8 Splice 8 8 8 Weld 8 8							
(Type : GALVANIZED STEEL FLEX BEAM) Bridge Rail Posts		ercent Area)				1	
Bridge Rail Posts					6	4	Thrie beam. Accident damage at NW- still functioning - post bent.
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL) Bridge Rail/Posts Coating 8 8 (Type : GALVANIZED) X X Sidewalk X X Girder/Beam X X Small nick on bottom flange of S1G1 near south abutment - construction Flange 8 7 Web 8 8 Stiffeners 8 8 8 Splice 8 8 Weld 8 8			TEEL FLEX	(BEAM)		T	Strengthened with retrofit post anchorage.
STEEL) Bridge Rail/Posts Coating 8 8 (Type : GALVANIZED) X X Sidewalk X X Girder/Beam X X Small nick on bottom flange of S1G1 near south abutment - construction Flange 8 7 Web 8 8 Stiffeners 8 8 8 Splice 8 8 8 Weld 8 8						3	
Bridge Rail/Posts Coating 8 8 (Type : GALVANIZED) X X Sidewalk X X Girder/Beam Small nick on bottom flange of S1G1 near south abutment - construction Cover Plate X X Flange 8 7 Construction Construction Web 8 8 8 Stiffeners 8 8 8 Splice 8 8 8 Weld 8 8 8	(Type : GA STEEL)	ALVANIZED PO	OST STEE	L;GALVANIZE	D POST		
Girder/Beam X X Cover Plate X X Flange 8 7 Web 8 8 Stiffeners 8 8 Splice 8 8 Weld 8 8		Posts Coating			8	8	
Girder/Beam Cover Plate X X X Flange 8 7 Flange 8 8 8 Stiffeners 8 8 8 8 Splice 8 9 8 8 8 8 9 8 8 8 9	(Type : GA	ALVANIZED)					
Cover Plate X X X Small nick on bottom flange of S1G1 near south abutment - construction Flange 8 7 Web 8 8 Stiffeners 8 8 Splice 8 8 Weld 8 8	Sidewalk				Х	Х	
Cover Plate X X X Small nick on bottom flange of S1G1 near south abutment - construction Flange 8 7 Web 8 8 Stiffeners 8 8 Splice 8 8 Weld 8 8	Girder/Bean	n					
Flange 8 7 Web 8 8 Stiffeners 8 8 Splice 8 8 Weld 8 8					X	Х	Small nick on bottom flange of S1G1 near south abutment -
Web 8 8 Stiffeners 8 8 Splice 8 8 Weld 8 8							construction
Stiffeners 8 8 Splice 8 8 Weld 8 8							1
Splice 8 8 Weld 8 8							
Weld 8 8							
Diapinagina Cross France		/Cross Framo					
	Diapiliagilis	Oloss Flame			0		

			Supers	tructure
Bridge Component				Explanation of Condition
(Primary Span : WG, 2 Spans,	 Lengths(m): 56-56, A-			•
Paint Condition	·	8	8	Weathering steel.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		8	8	
Temperature (deg. C)	0			
(Expansion Type : REINFORG	ED PAD BEARING)			
(Fixed Type : REINFORCED I				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside	•	7	6	Random narrow transverse craking with efflorescence staining every
Stains (Percent Area)	1			2m. <1.
,				< 1.
Span Alignment Problems Vertical (Y/N)	No			
Horizontal (Y/N)	No			
` í		7	6	
Superstructure General Ratin	g	1	6	
			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		9	9	
(Type : CONCRETE)			1	
Backwalls/Breastwalls		6	7	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		6	6	
Abutment Stability		9	9	
Scour/Erosion		9	9	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		9	9	4 - 1219mm dia concrete columns with steel casing. Viewed from South abutment with binoculars.
(Type : CONCRETE)				The state of the s
(Total Number of Bearing Piles	(0)			
Pier Shaft/Piles		9	9	
Bracing/Struts/Sheathing		9	9	
Nose Plate		Х	Х	
Paint/Coating		5	5	Red primer only steel.
(Colour Description :)				
(Colour Code :)				
Pier Stability		9	9	
Scour		9	N	
Debris (Y/N)	Yes		-	Drift on gravel bar.
Substructure General Rating		9	9	

Structure Usage									
			Now	Explanation of Condition					
Channel									
(U/S Direction : W)									
(D/S Direction : E)			_						
Alignment			7						
Bank Stability			6	River has cut limestone bank vertical in some places - no problem.					
HWM (m below Top of Curb)	IWM (m below Top of Curb)			HWM not visible.					
Drift (Y/N)	Yes								
Slope Protection		9	9						
(Type: RIP RAP; RIP RAP)									
Guidebank/Spurs		Х	X						
Adequacy of Opening	Adequacy of Opening								
(Fish Compensation Measure 1 :	NONE)								
(Fish Compensation Measure 2 :	NONE)								
Channel General Rating		6	6						

				Maintenance Re	ecommend	ations					
Inspector Recommendations		Year	Year Inspector Comments			Department Cor	nments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL		2013		ie beam @ NW		·					
GALVANIZE/PAINT BRIDGE RAIL											
RETROFIT BRIDGE RAIL											
SEAL CURBS											
PATCH DECK											
SEAL DECK											
OVERLAY DECK											
REPAIR/REPLACE DECK	JOINTS										
RESET/ PAINT BEARING	S										
REPAINT SUPERSTRUC	TURE										
STRAIGHTEN/REPLACE	MEMBERS										
WASHING											
SHOTCRETE REPAIRS											
REPAIR ABUTMENT SCC											
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
OTHER ACTION											
OTHER ACTION											
OTHER ACTION		2013	Remov guardra	e gravel windrow under NW il.	approach						
OTHER ACTION											
Structural Condition Rat (%)) 88.9/8	3.3	Sufficiency Rating (Last/Now) (%)		68.3/64.3	Est. Repl. Yr	2082	Maint. Re	qd. (Y/N)	Yes	
Special Comments for Next Inspection Consider chipseal surface winter chains. Have AT confirm UT insp			-	it from further damage by ve SP1G1.	ehicle	Department Comments					
Maintenance Reviewed By		Date Estimated Total 0									
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
On 3-Year Program (Y/N) Proposed Action											
- , ,	e Ar	rnold Assenh	neimer		Previous	Assistant's Name	Wade Nannin	ıga			
Proposed Action		rnold Assenh 2-Jul-2016	neimer			Assistant's Name	Wade Nannin 22-Nov-2009	ga			
Proposed Action Previous Inspector's Name	22	2-Jul-2016	neimer					ga			