



Inspection Report for

**B-20-053**

**STH 23-JOHNSON ST over DE NEVEU CREEK**

**Oct 27, 2020**



Type	Prior	Team Leader	Frequency (mos)	Performed
Routine	10-15-18	Conto, Thomas J (3531)	24	X
SIA Review	10-29-15	Lang, Anthony (2505)	48	X
Uw-Profile	10-15-18	Conto, Thomas J (3531)		X

Start Coordinates		End Coordinates (optional)	
Latitude	43°47'01.50"N	Latitude	
Longitude	88°25'54.30"W	Longitude	
Owner	CITY	Maintainer	CITY-CONNECTING ST

Team members			
Time Log	Hours	Minutes	Thomas Conto - Team Leader Brian Schmidt - Team Member
	0	45	
Weather	Temperature (f)	Condition	
	41	Sunny	

Inspector	Name	Number	Signature	Signature Date
	Conto, Thomas J	3531	<i>Thomas J Conto</i> E-signed by Thomas J Conto(Tconto)	11-30-20

# BRIDGE INSPECTION REPORT

## Wisconsin Department of Transportation

### DT2007 2003 s.84.17 Wis. Stats.

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#### Identification & Location

Feature On: STH 23-JOHNSON ST	Section Town Range: S11 T15N R17E	Structure Number:  <b>B-20-053</b>
Feature Under: DE NEVEU CREEK	County: FOND DU LAC	
Location 0.8M E JCT USH 45	Municipality: FOND DU LAC	Structure Name:

#### Geometry

measurements in feet, except where noted

Approach Roadway Width: 48	Bridge Roadway Width: 47.2	Total Length: 88.1
Approach Pavement Width: 48	Deck Width: 65.0	Deck Area (sq ft): 5726

#### Traffic

Lanes	ADT	ADT year	Traffic Pattern
On 4	16560	2015	TWO WAY TRAFFIC

#### Capacity

#### Load Rating

Inventory rating: HS25	Overburden depth (in): 0.0	Last rating date: 07-10-08	Controlling: SLAB Negative Moment
Operating rating: HS41	Deck surface material: CONCRETE	Re-rate for capacity (Y/N):	Control location: 1.0 SPAN 01, 26.2
Posting:	Re-rate notes:		

#### Hydraulic

#### Classification

Scour Critical Code(113): (5) STABLE-WITHIN FOOTING LIMITS	Q100 (ft3/sec): 1695	
High water elevation (ft): 757.2	Velocity (ft/sec): 3.6	Sufficiency #: 71.0

#### Span(s)

Span #	Material	Configuration	Depth (in)	Length (ft)	Main
1	CONT CONCRETE	FLAT SLAB		26.2	
2	CONT CONCRETE	FLAT SLAB		32.8	Y
3	CONT CONCRETE	FLAT SLAB		26.2	

#### Expansion joint(s)

#### Temperature:

Joint #	Location	Type	Last inspection date	Last measure (in)	New measure (in)
1	E abutment	POURABLE			
2	W abutment	POURABLE			

#### Clearance

Item	File Measurement (ft)	File Date	New Measurement (ft)
Highway Min Vertical On Cardinal			
Horizontal On Cardinal			

#### Construction History

Year	Work Performed	FOS id
2002	NEW STRUCTURE	1442-04-71

#### Maintenance Items History

Item	Recommended by	Status	Status change	Year completed
Deck - Seal Surface Cracks	Lang, Anthony (2505)	COMPLETE	11/19/20	2019
Re-seal epoxied cracks				

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**Maintenance Items**

Item	Priority	Recommended by	Status	Status change
<b>Approach - Seal Approach to Paving Block</b>	MEDIUM	Conto, Thomas J (3531)	IDENTIFIED	11/19/20
Reseal joint at approach and deck with hot asphalt rubber				
<b>Deck - Repair Railing</b>	LOW	Conto, Thomas J (3531)	IDENTIFIED	11/19/20
Caulk joints and paint metal railing and repaint concrete parapet				
<b>Approach - Repair Approaches</b>	LOW	Conto, Thomas J (3531)	IDENTIFIED	11/19/20
Approach curb and cutter settled at deck and shall be replace. 3-4 corner of the deck				
<b>Misc - Remove Graffiti</b>	LOW	Conto, Thomas J (3531)	IDENTIFIED	11/19/20
Remove graffiti and the debris buildup along the abutment sides of the piers				

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**Elements**

Chk	Element	Defect	Description	UOM	Total	Quantity in Condition State			
						1	2	3	4
X	38		<b>Reinforced Concrete Slab-Coated Reinforcing</b>	SF	5,986	<b>5,615</b>	<b>371</b>	0	0
			<b>Narrow</b> cracking with efflorescence visible under deck						
			Cracking (RC)	SF		<b>5,615</b>	<b>371</b>	0	0
		1130	Joints in parapet at pier leak around side of structure. Longitudinal cracks with efflorescence ( <b>CS2</b> ) West: <b>4.5 full length or 118 SF</b> Center: <b>4.5 full length or 148 SF</b> East: <b>4 full length or 105 SF</b>						
		8000	Wearing Surface (Bare)	SF	4,128	<b>4,128</b>	<b>0</b>	0	0
X	210		<b>Reinforced Concrete Pier Wall</b>	LF	121	<b>114</b>	<b>7</b>	0	0
			Cracking (RC)	LF		0	<b>5</b>	0	0
		1130	<b>West pier</b> , south and north ends of pier wall. <b>1' EA or 2 CS2</b> cracks total. <b>East pier, 3' total narrow cracking in pier wall CS2</b>						
X	215		<b>Reinforced Concrete Abutment</b>	LF	137	<b>130</b>	<b>6</b>	<b>1</b>	0
			Cracking (RC)	LF		0	<b>6</b>	<b>1</b>	0
		1130	Random vertical narrow cracking at abutments (CS2) <b>4 LF on east and 2 LF on west.</b> <b>NE corner of east abutment, 1 LF (CS3) cracking with efflorescence and rust staining</b>						
X	331		<b>Reinforced Concrete Bridge Rail</b>	LF	236	<b>186</b>	<b>50</b>	0	0
			Re-caulk joints. Re-stain or epoxy paint railing <b>at the peaks.</b>						
		1130	Cracking (RC) Few vert. HL cracks leaking down onto slab. <b>- 13' on south rail</b> <b>- 5' on north rail</b>	LF		<b>0</b>	<b>18</b>	0	0
X	8400		<b>Integral Wingwall</b>	EA	4	4	0	0	0
		1190	Abrasion-Wear (PSC-RC) Concrete deterioration on top of parapet.	LF		0	<b>32</b>	0	0

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**Assessments**

Chk	Element	Defect	Description	UOM	Total	Quantity in Condition State			
						1	2	3	4
X	9001		<b>Drainage - Ends of Structure</b> SW curb has settled 1.5 inches	EA	4	3	1	0	0
X	9009		<b>Sidewalk</b> Few transverse cracks epoxy repaired 2009 and 2014. TK-590 applied 2014. Approach undermined NE, SE and SW.	EA	2	2	0	0	0
X	9010		<b>Aesthetic Treatments</b> Aesthetic treatment fair, stain is peeling on bridge parapets. Some pop outs on decorative pilasters. <b>Graffiti is present on Piers</b>	EA	1	0	1	0	0
X	9045		<b>Slope Protection- Riprap</b>	EA	2	2	0	0	0
X	9322		<b>Approach Roadway - Concrete (non-structural)</b> Seal hot rubber joint.	EA	2	2	0	0	0
X	9335		<b>Decorative Rail</b> Paint faded and dull, spots of minor corrosion w/no section loss. Repaint metal railing.	EA	2	0	2	0	0

**NBI Ratings**

	File	New
Deck	7	7
Superstructure	7	7
Substructure	8	8
Culvert	N	N
Channel	8	8
Waterway	8	8

**Structure Specific Notes**

**Inspection Specific Notes**

**Inspector Site-Specific Safety Considerations**

**Routine Specific Procedures**

Upper: Park at pump station (SE quadrant), inspect on foot  
 Under: Inspect substructure by wading. Probe piers buy abutments are dry

**Special Requirements**

Chk                      Hours                      Cost                      Comments

Underwater Probe Form  
B-20-053

General Site Conditions - Scour

No scour issues noted

General Site Conditions - Embankment Erosion/Conditions

Substructure Notes

Chk	Unit	Max Water Depth(ft)	Mode	Notes
X	Cardinal		Dry	Water level 12.58' below BM (S. Walk) or 748.09
X	Pier 1	1.0	Wade	East. N 1', Middle 1', S 1'
X	Pier 2	2.0	Wade	West N 0.5', M 1', S 2'
X	Non Cardinal		Dry	



UW Profile Item 1

Streambed profile North	b20-053_20_xpd1.pdf (included)
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UW Profile Item 2

Streambed profile South	b20-053_20_xpd2.pdf (included)
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Routine Item 1

South profile	 <p>b20-053_20_Rd9.jpg</p>
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Routine Item 2

Roadway looking east	 <p>b20-053_20_Rd11.jpg</p>
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Routine Item 3

Roadway looking west	 <p>b20-053_20_Rd10.jpg</p>
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**Routine Item 4**

Upstream, south



b20-053\_20\_Rd13.jpg

**Routine Item 5**

Downstream, north



b20-053\_20\_Rd12.jpg

**Routine Item 6**

Railing corrosion (Typ.)



b20-053\_20\_Rd1.jpg

Linked Element(s):  
Decorative Rail

**Routine Item 7**

Deck cracks sealed in 2014 and resealed in 2019 with TK9030 epoxy



b20-053\_20\_Rd2.jpg


Linked Element(s):  
Reinforced Concrete Slab-Coated Reinforcing -> Wearing Surface (Bare)




Routine Item 8

Typical sidewalk undermining	 <p>b20-053_20_Rd3.jpg</p>
Linked Element(s): Sidewalk	


Routine Item 9

Underside deck cracks with efflorescence, CS2 (Typ.)	 <p>b20-053_20_Rd5.jpg</p>
Linked Element(s): Reinforced Concrete Slab-Coated Reinforcing	


Routine Item 10

Minor abrasion to west pier south and north end, CS2 (Typ.)	 <p>b20-053_20_Rd6.jpg</p>
Linked Element(s): Reinforced Concrete Pier Wall	

**Routine Item 11**

Pier and abutment cracks, CS2 (Typ.)	 b20-053_20_Rd7.jpg
Linked Element(s): Reinforced Concrete Pier Wall	

**Routine Item 12**

Cracking with efflorescence and rust staining of NE corner of abutment, CS3	 b20-053_20_Rd8.jpg
Linked Element(s): Reinforced Concrete Abutment	

# STRUCTURE INVENTORY AND APPRAISAL FIELD REVIEW FORM

**B-20-053**  
**STH 23-JOHNSON ST over DE NEVEU CREEK**

## LOCATION

(3) Municipality:  
 (16) Latitude(° ' "):  
 (17) Longitude(° ' "):

FOND DU LAC
43°47'01.50"N
88°25'54.30"W

## TRAFFIC SERVICE

(28A) Lanes On:  
 (28B) Lanes Under:  
 (102) Traffic Pattern On:  
 (102) Traffic Pattern Under:  
 (19) Detour Length(mi):

4
0
-NO TRAFFIC -ONE WAY TRAFFIC <input checked="" type="checkbox"/> -TWO WAY TRAFFIC
<input checked="" type="checkbox"/> -NO TRAFFIC -ONE WAY TRAFFIC -TWO WAY TRAFFIC
5

## GEOMETRY

(49) Structure Length(ft):  
 (50) Sidewalk Width(ft):  
 (50) Curb Width(ft):  
 (52) Culvert Barrel Length(ft):  
 (34) Skew:  
  
 (51) Bridge Roadway Width(ft):  
 (52) Deck Width(ft):  
 Right Wingwall Length(ft):  
 Left Wingwall Length(ft):  
 (32) Approach Roadway Width(ft):  
  
 (47) Minimum Horizontal(ft):  
 (55) Minimum Right Lateral(ft):  
 (56) Minimum Left Lateral(ft):

88.1	
Left: 7.9	Right: 7.9
Angle(°): 21	Direction: -RIGHT FORWARD <input checked="" type="checkbox"/> -LEFT FORWARD
Cardinal	Non-Cardinal
47.2	47.2
65.0	65.0
48	48
Cardinal Under Clearance	Non-Cardinal Under Clearance

## RAILING APPRAISAL

(36A) Bridge Rail Adequacy:  
 (36B) Transition Adequacy:  
 (36C) Approach Guardrail Adequacy:  
 (36D) Guardrail Termination Adequacy:  
 Outer Rail:

-SUB-STANDARD			X-STANDARD	-NOT APPLICABLE
X-SUB-STANDARD			-STANDARD	-NOT APPLICABLE
X-SUB-STANDARD			-STANDARD	-NOT APPLICABLE
X-SUB-STANDARD			-STANDARD	-NOT APPLICABLE
Left	Right	Type		
		TYPE F (TWO SQUARE TUBES) - STEEL(8)		
		TYPE F (3 SQUARE TUBES) - STEEL(65)		
		TYPE F (4 SQUARE TUBES) - STEEL(72)		
		TYPE M-STEEL 3 SQUARE TUBES(93)		
		SLOPED FACE PARAPET LF(91)		
		SLOPED FACE PARAPET HF(92)		
		VERTICAL FACE PARAPET TYPE A(74)		
		TYPE W-THRIE BEAM(79)		
		TYPE H ON VERTICAL PARAPET(80)		
		TIMBER(38)		
X	X	OTHER(99) (Please specify)		
		Left: TYPE C1 COMBINATION RAILING(94)		
		Right: TYPE C1 COMBINATION RAILING(94)		

Transition Type:

	CONT GUARD RAIL
<input checked="" type="checkbox"/>	NO APP GRDRL
	NO ATTACHMENT
	22 MM(7/8") BOLT (Please enter quantity)
	25 MM(1") BOLT (Please enter quantity)
	OTHER (Please specify)

Approach Attachment Rail Note:  
 Guardrail Termination Type:

	(01) ENERGY ABSORBING TERMINAL/EAT
	(02) TURN DOWN
	(99) OTHER (Please specify)

Guardrail Termination Note:

## ROADWAY ALIGNMENT APPRAISAL

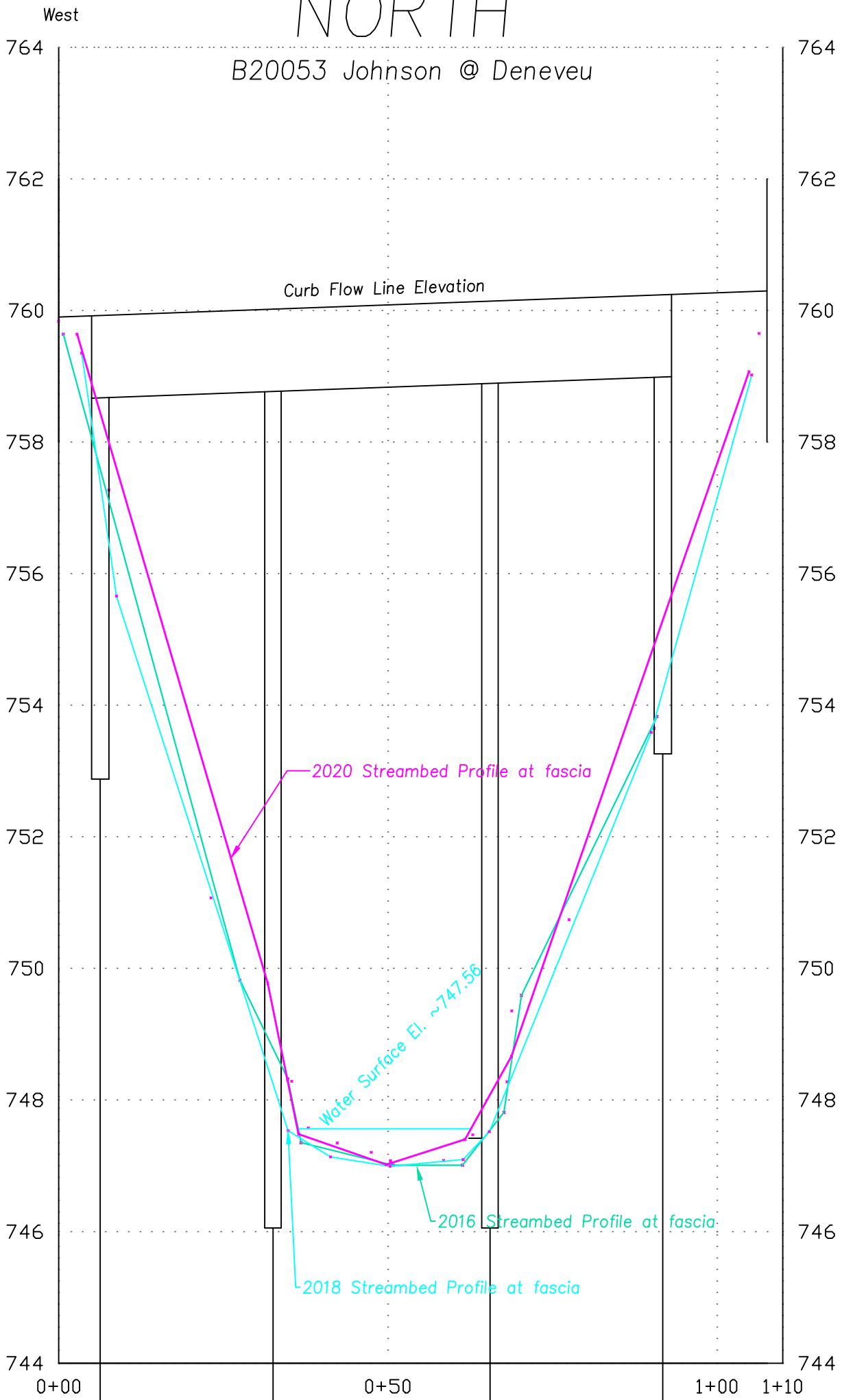
(72) Approach Alignment Appraisal:

	3 Intolerable- Substantial speed reduction
	6 Fair- Minor speed reduction
<input checked="" type="checkbox"/>	8 Good- No speed reduction

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# NORTH

B20053 Johnson @ Deneveu



Approximate pile elevation 720



# SOUTH

