

**New York State Department of Transportation  
Red Flag 3B190TW044**

*By:* Thomas Barrell  
*Flag Date:* September 12, 2019

*Superseding Information:*  
No Flags Superseded

**Structure Information**

*BIN:* 3209800

*Feature Carried:* FREESE ROAD

*Feature Crossed:* FALL CREEK

*Orientation:* 8 - NORTHWEST

*Region:* 03 - SYRACUSE

*County:* TOMPKINS

*Political Unit:* Town of DRYDEN

*Approximate Year Built:* 1920

*Posted Load Matches Inventory :* Yes

*Bridge Load Posting (Tons) :* 15

*Primary Owner:* 30 - County

*Primary Maintenance Responsibility:* 30 - County

*Typical or Main Span Type:* 3 - Steel, 10 - Truss - Thru

This Bridge is not a Ramp

*Number of Spans:* 2

**Verbal Notification Information**

*Person Notified:* Arthur Petrozzi

*Date:* September 12, 2019 2:30:00 PM

*Of:* NYSDOT Region 3

**Signature Information**

*Signature:* Thomas Barrell, P.E. 087058-1

*Date:* September 17, 2019

*Reviewed By:* Glenn Klein

*Date:* September 17, 2019

*Attachments:* 5

### Flagged Elements

Parent Element	Element	Total Quantity	Unit
<i>Span Number : 1</i>			
	113 - Steel Stringer	331	ft

### Flagged Condition Description

Subject: Cracked, Crippled, and Buckled Stringer Webs in Span 1

**Structure Information:**

This structure is a two span continuous pony truss with a floorbeam and stringer floor system supporting an open steel grate deck (photo 1). The stringers are noted to be 12"27#WF in the plans in the BIN folder (tw=0.24" and tf=0.4").

**2019 Conditions:**

The stringer webs over the floorbeams in span 1 exhibit lower web section loss, cracks, and web crippling/buckling at several locations. All locations listed below are newly discovered:

-Stringer 2, Panel 1 at Floorbeam 1: 3/8" long crack to the lower web and it appears that the web has slightly crippled at the base. (photo 2)

-Stringer 2, Panel 2 at Floorbeam 1: 1/8" long crack to the lower web and it appears that the web has slightly crippled at the base. (photo 2)

-Stringer 3, Panel 1 at Floorbeam 1: 5/8" long crack to the lower web.

-Stringer 4, Panel 2 at Floorbeam 1 is buckled 5/16" to the Right at approx. mid-height. There is no section loss to the web. (photo 3)

-Stringer 2, Panel 2 at Floorbeam 2: 2" long crack surrounded by approx. 50% section loss to the lower web. There is also a hole to the Right side bottom flange at the floorbeam. Overall bottom flange section loss is approx. 50%. (photo 4)

-Stringer 2, Panel 3 at Floorbeam 2: 1" long crack surrounded by approx. 50% section loss to the lower web. (photo 4)

-Stringer 2, Panel 4 at Floorbeam 3: 1/2" long crack surrounded by approx. 50% section loss to the lower web. (photo 5)

**Note:**

Two apparent overloads crossed the bridge during this inspection (large box trucks).

**Flag Photographs**

Photo Number: 1

Photo Filename: 19-3209800-DSCF0288.JPG



**Attachment Description: General View of Underside of Span 1, Looking Back**

Photo Number: 2

Photo Filename: 19-3209800-DSCF0264.JPG



***Attachment Description: Stringer 2 Lower Webs at Floorbeam 1 (Panels 1 and 2), Looking Right***

Photo Number: 3

Photo Filename: 19-3209800-DSCF0259.JPG



***Attachment Description: Stringer 4, Panel 2 at Floorbeam 1, Looking Ahead***

Photo Number: 4

Photo Filename: 19-3209800-DSCF0265.JPG



**Attachment Description: Stringer 2 Lower Webs and Bottom Flanges at Floorbeam 2 (Panels 2 and 3), Looking Left**

Photo Number: 5

Photo Filename: 19-3209800-DSCF0283.JPG



**Attachment Description: Stringer 2 Lower Web at Floorbeam 3 (Panel 4), Looking Left and Ahead**