

## RED Flag 9C070093

Carried: PONY FARM ROAD Crossed: DELAWARE &amp; HUDSON

Prompt Interim Action Recommended: No

Inspector: Henderson, Ryan  
Flag Number: 9C070093Date Discovered: 12/12/2007  
Supersedes Flag Number: 9W060016

## Bridge Description:

BIN: 2227870 Carried: PONY FARM ROAD Crossed: DELAWARE &amp; HUDSON

Region: 9 - Binghamton County: 4 - Otsego  
Political Unit: 0610 - Town of Oneonta  
Primary Owner: 60 - Railroad  
Secondary Owner: 99 - One Agency - Listed in first subfield  
Primary Maintenance: 40 - Town  
Secondary Maintenance: 60 - Railroad  
Year Built: 1933 Posted For Load: 15 Tons

Number of Spans by Type:	Num	Type	Description
	001	- 115	- Steel - Plate Girder-Floorbeam System, Thru
	002	- B01	- Concrete, Reinforced - Slab

## Description of Flagged Condition:

RED STRUCTURAL FLAG 9C070093 ISSUED (Flag 9W060016 superseded):

The SPAN 2 LEFT Pedestal exhibits crumbly concrete, with a fracture line extending through the Begin ("rear") anchor bolts of the Bearing reaching a maximum length of 5 ft. down the side of the Pier Column with thick efflorescence extending another 1 ft. The entire Pedestal surface is spalled up to 8 in. deep, with crumbly concrete extending at up to 1 in. into the remaining material. Cleaning of loose material reveals a line of deeper deterioration, with a crack evident through both cement paste and aggregate. The crack appears to be a product of general deterioration rather than active shear failure of the concrete. But it forms a plane of weakness which effectively undermines 95% of the Bearing. No significant change to this condition as well as no sign of movement or settlement were observed this inspection. Vertical rebars with minor section losses were noted in the column/pedestal concrete.

The SPAN 2 RIGHT Pedestal exhibits crumbly concrete, with undermining along the front face of the Bearing up to 2.5 in. for Span 3 G2. The undermining reduces the bearing area by approximately 14%, which is a slight increase from the previous inspection (12%). The Pedestal is spalled up to 6 in. deep, with up to an additional 1 in. depth of crumbly concrete. The Right Pedestal has been included in this flag to show the condition of the overall load transferring system of superstructure to the substructure.

The Pedestals and Bearings support Load-path Non-redundant Girders. The advanced deterioration limits the service life of the Pedestals. This condition has been noted in the last inspection with minor change in deterioration since then.

Upon QC review it was determined that based on the active deterioration of the pedestal concrete and the fact that the pedestal supports a non-redundant thru-girder, a RED FLAG is warranted.

2 Photos/Sketches Attached

Verbal Notifications: (For RED Flags and Safety Flags with PIA only)



Discovery Date: 12/12/2007

RC: 94 BIN: 2227870

RED Flag 9C070093 Attachment

Carried: PONY FARM ROAD Crossed: DELAWARE & HUDSON

07-1476.jpg - Attached to RED Flag 9C070093

Left End Side of Right Column of Pier 2



Discovery Date: 12/12/2007

RC: 94 BIN: 2227870

RED Flag 9C070093 Attachment

Carried: PONY FARM ROAD Crossed: DELAWARE & HUDSON

07-1480.jpg - Attached to RED Flag 9C070093

Left Side of Left Column of Pier 2

