

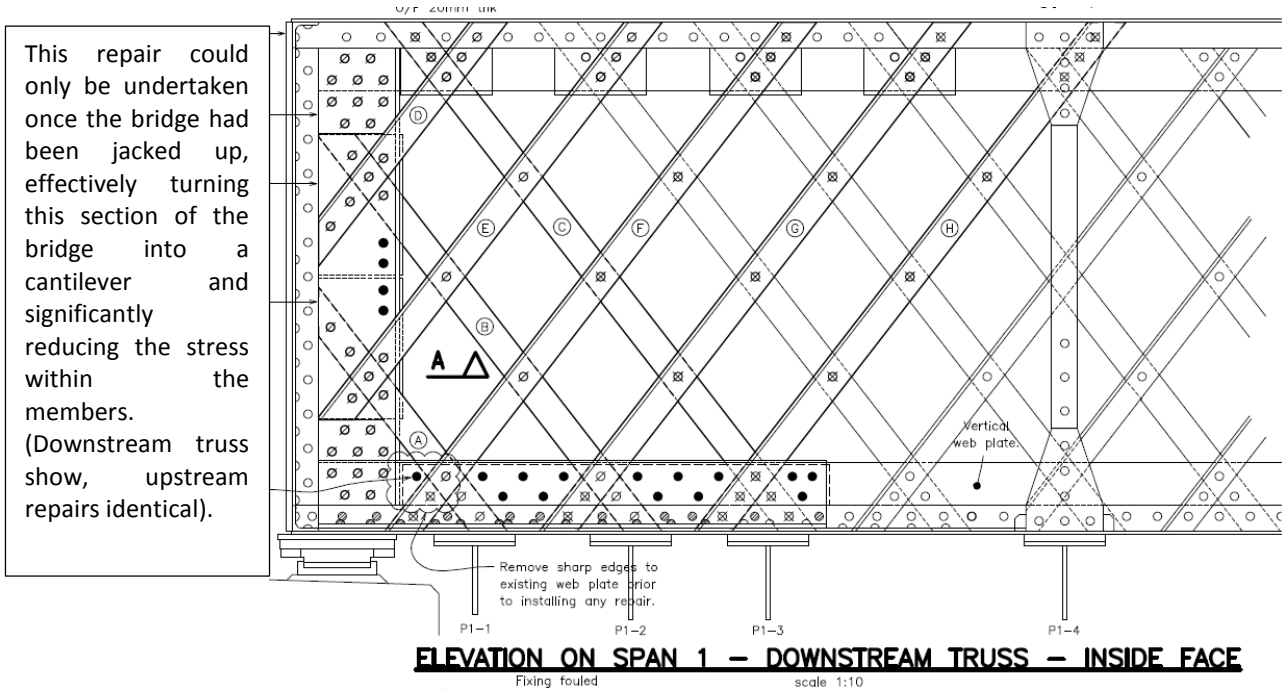
# Ovingham Bridge Blog

## Issue 28

25 June 2015

### “Ovingham End - Repairs”

Significant corrosion in span 1 was discovered after the initial wet-blasting phase. This corrosion required a complete repair as sections of the wrought iron were less than 1mm (1/32”) (originally 10mm (3/8”). Due to the way the bridge was constructed, the method of repair had to maintain the existing members, while strengthening the section, (see blog 15/10/14 for further details on repairs to this span).



Typical condition of these plates

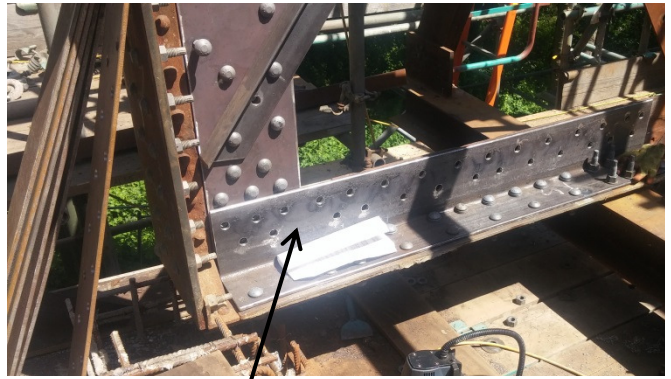


Web splice plate 1mm (1/32”) thick, originally was 10mm (3/8”) thick. In places there is total loss of section .



Vertical cover plate, as member had sustained significant corrosion, not the number of web members which have been removed.

From analysis of the bridge, high stresses were found in this location, requiring strengthening due to the significant loss of wrought iron.



Bottom chord cover angle, to re-establish the connection between the horizontal bottom flange plate, and vertical web plate



Condition of the bridge, before full repair



Completed full repair