



<b>Project Title:</b>	Patchacott Bridge
<b>Client:</b>	Highways England
<b>Date of Work:</b>	Sept 2012

Project description

Hammond attended Patchacott Disused Railway Bridge as an emergency to stabilise a large area of collapsed masonry in the spandrel and voussoir following adverse weather.

A full road closure was approved by the local authority and was set up. A scaffold platform was erected beneath the bridge deck. A temporary propping/formwork system was installed beneath both voussoirs. Debris and loose material were removed from both faces of the spandrel and voussoir. 800mm and 1200mm long stitching bars were installed into each voussoir stone, alternating in length and protruded 75mm from the face of the stone. A sprayed concrete render was applied, 100mm thick. 50mmx50mmx10mm weldmesh was installed prior to the spray concrete application. Through ties and pattress plates (420mm diameter) were installed through the spandrel and grouted on completion.

Project Constraints

- Traffic Management.
- Work at high level.
- Poor condition of partially collapsed section of the structure.
- Public Interface.
- 3<sup>rd</sup> party negotiations (landowners).
- Expertise required to drill and install the tie bars and pattress plates.
- Expertise required to apply the sprayed concrete render.