



Project Title:	Byfield Road Bridge
Client:	Highways England
Date of Work:	Nov 2011

Project description

Strengthening, brickwork and re-pointing repairs were carried out to a disused railway bridge, called Byfield Road Bridge. Brickwork had collapsed at the springing point in the 1st, 2nd and 3rd rings.

A scaffold platform was erected to gain safe high level access to the entire structure. Traffic Management was implemented on the carriageway over the bridge to control vehicular movement and protect the workforce.

Northwest springing point - Bricks in the 1st and 2nd and 3rd ring were cut out and replaced at the voussoir/springing point. The removal of the defective brickwork revealed a circumferential fracture running through the 4th ring.

2no 545mm diameter pattress plates and 1200mm long stitching bars (grouted in position) were installed across the area of repair to prevent future movement and fractures.

Project Constraints

Traffic Management.

Work at high level.

Poor condition of partially collapsed section of the structure.

Public Interface.

3rd party negotiations (landowners).

Expertise required to drill and install the tie bars and pattress plates.

Expertise required to repair overhead brickwork.