

# Banbury Lane Bridge

Northamptonshire 2004



Client	Network Rail
Contractor	Birse Rail
Consultant	Tony Gee and Partners

The increase in the number, speed and frequency of trains using West Coast Main Line as a result of its modernisation would lead to increased delays at level crossings on the line, to mitigate against these delays improvements have been made at a number of crossings. The level crossing at Bugrooke was replaced with a new section of road including new rail and canal crossings.

Network Rail required a modern high performance structure that would be in keeping with the canal environment over which it crossed. Discussions were undertaken with British Waterways to provide a structure that would appeal to all stakeholders.

Reinforced Earth Company (RECo) precast arch provided an attractive cost effective solution that would meet British Waterways' requirements for a traditional structure.

The use of Reinforced Earth headwalls and wingwalls allowed RECo to provide a full design solution for the structure.

The arch units were erected during two night-time possessions allowing the canal to remain open during the construction period. The Reinforced Earth spandrel walls were constructed using selected granular fill with galvanised steel soil reinforcement and wire mesh facing elements. The wingwall were constructed in Reinforced Earth with precast concrete facing panels subsequently clad with local bricks.