

Construction of a new bridge to replace the existing structure at Grayrigg Hall near Kendal, Cumbria



Damaged bridge prior to commencement.



Removal of existing bridge



Installation of precast concrete units on riverbed



New carriageway constructed and parapets to new bridge

Client: Cumbria County Council	Value: £170,000
Location: Grayrigg Near Kendal	Duration: 6 weeks

Project information

Design and Build of a replacement bridge that was constructed within the existing footprint of the bridge, external elevations of the parapet are constructed by stone masonry to match adjacent walls using reclaimed stone from the existing bridge, The existing bridge was demolished prior to brand new construction, then a precast portal frame was used to build the new bridge, these portal frames were delivered to site and lifted into place by a crane. (This was a challenge to design a portal frame and crane that could undertake the works at reach the site due to narrow road and tight access.

Carriageway works included localised realignment of the carriageway on both approaches to the bridge, and rebuilding of the boundary wall on the southern approach in a new position, and the boundary wall on the north side of the existing bridge that has been taken down to allow access across the temporary bridge, was rebuilt to match existing.

During the construction phase we managed access across the bridge for the landowner so that he was not put at risk by construction operations.

The landowner was afforded 24hour use of the temporary bridge and at times we temporarily suspend works to allow the landowner to cross.

Removal of the temporary bridge upon completion and rebuilding of the banks of the river including boulder/stone protection, soiling and seeding. Temporary works in the river to allow management of the existing river flow during construction.