

Black Bridge Lifting Methodology Advice

CLIENT: HS Carlsteel

LOCATION: Machynlleth, Wales

YEAR OF COMPLETION: 2021

Black Bridge is a railway bridge crossing the River Dulas near Machynlleth. The river regularly floods and inundates the superstructure. To avoid this in future, works were undertaken to raise the bridge clear of the flood level by lifting the structure off its bearings and modifying the abutments.

HS Carlsteel were appointed to supply the temporary works for the lifting operation, designed by others, and to conduct the lift itself. Hewson were commissioned to prepare a comprehensive method statement and assist in the preparation of the lift plan, in order to gain Network Rail approval in time for a planned possession of the railway.

We undertook a review of the temporary works design and advised HS Carlsteel of potential risks which could arise during the lifting operation and addressed these risks in the method statement.

The lift was successfully completed in May 2021.

KEY FACTS:

- Lifting methodology and lift plan
- Technical review of temporary works
- Steel railway bridge

