Project Name: Newsham Bridge

Client: North Yorkshire County Council

Hinko Construction were awarded this scheme based in North Yorkshire in May 2020 by North Yorkshire County Council on a Grade II listed structure.

The scope of the project comprised of the following:

- Traffic Management & Associated Diversions
- Concrete Invert Protection Slab
- Parapet Wall Remedials including Pointing
- Cold Milling & Resurfacing
- Scaffold Installation
- Temporary Dam Installation
- White lining

The "key scheme components" of the scheme comprise:

Phasing of works to align with proposed programme of works which allowed continual working for operatives reducing overhead costs, demobilisation costs to the client and disruption to the general public.

The initial works focused on the invert protection slab which was planned to be undertaken in two halves to allow continual flow of the River Rye which ran through the proposed works area.

Detailed temporary works were designed and approved by the client which compromised installation of bulk bags of sand, visqueen and imported engineering clay to divert the waterflow away from the first phase of the works. Operatives installed downstream silt prevention measures to adhere to permits issued by the Environment Agency which Hinko produced, manged and took full responsibility for throughout the works. By doing this, it allowed for direct contact and communication with the EA instead of requiring the client to deal with this potentially sensitive area.

Operatives created a local access ramp down the flood embankment to allow machinery to excavate the existing bed to design formation level. All arisings generated from the works area were transported to an agreed storage location on site. The concrete invert protection slab was poured using a mobile concrete pump.

Throughout the duration of the project, inclement weather and heavy rainfall was a continuous issue. River levels would rise and breach the level of the temporary dam resulting in slowed outputs from operatives on the ground. This was continually monitored to ensure the safety of operatives was the first priority, all works were undertaken and completed during phase 1 of the invert protection slab.

Following on from completion of the invert works, works progressed on the high- and low-level parapet remedials. This required a full road closure to be implemented with a large diversion route put in place to divert traffic around the works area. Once implemented, scaffold edge protection was installed, and designated pedestrian walkways established.

Skilled stone masons carefully removed each section of defective stonework, cleaned them and re-constructed the parapet walls to the required standard.

Upon completion of the parapet works and the installation of Anti-Ram bollards to protect the new parapet walls, cold milling was undertaken in preparation for new surfacing. The plainer removed the existing asphalt to the extent of the client's requirements and new surfacing was laid the following day closely followed by the white lining element of the project.

All works were completed with the exception of second phase of the invert protection slab. This was delayed until summer 2020 when the levels of the River Rye are expected to drop.

The project was delivered to safety expectations, on time, within budget and without environmental incident. Through proper planning, liaison with the relevant authorities and client Hinko were able to deliver the elements of the project that impacted the local community early minimising disruption.