

PROJECT: JUBILEE QUAY REFURBISHMENT PORT OF SUNDERLAND

VALUE: £280,000
ROLE: MAIN CONTRACTOR
START DATE: FEBRUARY 2018
COMPLETION: APRIL 2018

CLIENT: SUNDERLAND CITY COUNCIL
 JACK CRAWFORD HOUSE
 SUNDERLAND
 SR2 8QR

- Full structural survey
- Replacement of damaged timber members
- Strengthening of the structure

- Replacement / repositioning of quay furniture
- Live port environment
- Completed in preparation for Tall Ships Race

Jubilee Quay is located within the Port of Sunderland and is a timber structure approximately 120m in length. The port which is now more than 300 years old, acted as one of the main venues to the 2018 Tall Ships Race, an event which attracted over 50 vessels from across the globe. In addition to being able to cater for some of the largest vessels at the event, it is hoped that by refurbishing the quay that it will attract increased revenue to the port. Awarded through the NEPO Civil Engineering Framework, the project involved undertaking a full structural survey before delivering a series of bespoke repairs.

Prior to commencing the works, a full dilapidation and topographic survey was completed, with all repairs identified and agreed with our client. A collaborative working relationship was maintained between client and contractor to maximise the work scope in accordance with the available budget. In order to reduce costs, a focus was placed on strengthening structural members as opposed to replacement.

Initial works included removing damaged timbers, defective handrailing, vegetation and arisings from the structure. A total of 6no. joists were identified for replacement, in order to access these timber members, the deck boards were lifted clear. The identified joists were then removed, with the bearing socket within the quay wall cleaned in preparation. Replacement joists were then lifted and fixed into position. Once the new joists were installed all timber members including the existing, were cut back to ensure there was no oversail across the quay edge. In addition to replacing joists, a number were strengthened by fixing new timber members on both sides of the identified joist. To support the existing structural members, new steel fixings have been provided throughout. Upon reinstatement of the quay deck which involved fixing new timber boards, new edging timbers were lifted into position and aligned with the existing berthing line. Further works included Epoxy repairs to decayed timber, replacement of 2no. ladders, repositioning existing mooring bollards, and strengthening of the Kee Klamp handrail, located at the rear of the quay.

HEALTH AND SAFETY

An excellent standard of health and safety was maintained throughout the project duration, with an incident frequency rate of zero achieved upon completion. Works were safely co-ordinated within a live port environment, with daily communications maintained with the harbour master. When accessing the damaged structure, a man anchor system was used for which operatives were attached via safety harnesses.



In addition to hosting the Tall Ships Race it is hoped the project will attract increased revenue to the port.

