

TMS Maritime is a leading UK specialist in marine civil engineering, ancillary floating plant and diving services

Client: Somerset West and Taunton Council

£703,850

Project: Watchet Quay Wall Repair : **Duration:** 2 months, 2021

Description:

TMS were awarded the design and build contract for repair works at East Quay, Watchet Harbour. The project included the installation of a 42 m section of new sheet pile wall and waling beams. The existing sheet piled quay wall, used as both a leisure and commercial facility, had failed and was collapsing into the harbour.

The scope of the project included:

- Commissioning by TMS of a Design Consultancy to complete all of the design work for the repairs.
- Positioning of the jack up barge as a working platform.
- Mobilisation of a 94 tonne drilling rig to site.
- Provision and maintenance of all traffic management, signage and guarding around and throughout the site.
- Diversion and isolation of 4 power and telemetry cables.
- Diversion of drainage and outfalls behind the new sheet pile line.
- Drilling of mudstone to 7m depth to aid pile driving of all seaward sheet piles
- Installation of the waling beam
- Reduce-digging the quayside to enable removal of the existing anchors and installation of the new.
- Drilling and installation of landward sheet anchor piles.
- Backfilling of the Quay to prepare for the wearing course to be completed on the quayside by the following contractor.
- Demobilisation of all plant from site.

Piling was done using a 94 tonne leader rig fitted with augur and 50Tonne lattice boom crawler crane, on a jack up barge as the working platform for the drilling rig to reduce surcharge to the already failing quay wall. The barge also provided extra working area as the site was confined due to the building of a multi-storey Visitors Centre immediately behind the piled wall.

The modular jack up barge was brought in by road rather than by sea, as the harbour entrance was too narrow so one with modular elements that were transportable by lorry was chosen. The project was completed ahead of time and within budget.

<https://www.youtube.com/watch?v=ygo1rG8Yt8>

