# tms Maritime

# Project Case Study

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

## Client: Sisk Rail

## Value: £116,000

## Project: Scour Protection, Totnes, Devon: 5 weeks

### Description:

Working on behalf of Sisk Rail, TMS were contracted to provide scour protection works around the piers of a railway bridge on the River Dart in Totnes, Devon. The works were to install rock roll bags to the north riverbank and to the footpath on the south side. TMS completed masonry repairs to the masonry bridge and then rock armour was placed to the north side of the river as a toe for the rock rolls as extra protection.
The scope of the project included:

- Excavating the riverbanks to install 90m$^2$ of rock rolls.
- Tying the rock rolls together to form a mattress and cover with 32 tonne of clean quarry stone laid at 50mm thick.
- Masonry repairs using marine mortar to the railway bridge piers.
- Raking out approximately 20m$^2$ of loose mortar from joints in the stone and mixing up fresh marine mortar with which to repoint.

- Checking the scour mattress and repairing with mortar where required. This part of the job was worked around a low tide, using a fast set marine mortar.
- Temporary access ramps were made using compacted Type 1 stone placed on terram and graded to the riverbed level, to allow plant machinery access/egress and to cross the river.
- Using excavators and dumpers, all material was transported across the river Dart at low tide.
- The rock rolls were delivered to site in 2m and 1m pre-filled and sealed bags and transported across the river and placed in a 300mm trench, tied together to form a mattress, and the excavator then covered them with clean stone.
- The works were completed by a 5–6-man team working around the high and low tides.
- Installation of 6 tonne of rock armour was placed at the toe of the rock rolls; the rock armour was transported across the river at low tide using a dumper and placed with an 8 tonne excavator.