

13 x TASRAIL NETWORK SITES

Formations Renewals

Date: May 2020 to May 2022

Principal: TasRail

Project Value: \$14.4M



TASK

Shaw was awarded the Formations Renewals project which incorporated various packages of formations renewal works at 13 sites across the TasRail network. The works centred around fixing a number of rail formations that had or were in the process of failing by replacement of the existing embankment and replacing the structural fill, capping and ballast layers. New rail and sleepers - over 5,500m (track length) - were also to be installed to accompany the new embankments in a sequence such that existing train movements could be accommodated. While the prime function was the repair of the embankments, other supplementary actions like drainage, RCBC, fencing and access road installation formed part of the scope.

CHALLENGES

TasRail had sought funding for this project along with the Federal Government and therefore the project was to be completed in accordance with Funding Milestones. Shaw prepared a programme and sequence of works to achieve these funding milestones with Shaw accelerating the works to meet these funding milestone arrangements.

Notwithstanding the project had a defined scope at time of tender, Shaw worked closely with TasRail to amend the project to match changing demands from TasRail. By working closely with TasRail, Shaw was largely able to manage these amendments within the original contract sum and programme envelope. A key challenge of the project was strategically delivering the works such that train movements were not impacted by the works.

TasRail were the key contact for landholders affected by the works, however, Shaw needed to identify the extent of interactions with landholders such that these could be agreed with landholders. A clear challenge then was achieving the works scope without unnecessarily impacting on landholders along with meeting expectations of the same. The formations renewals process generated significant volumes of surplus materials throughout the works. Shaw worked with TasRail to develop strategies to manage these significant volumes of materials including methods to minimise the offsite disposal of material noting that ballast, especially, typically was considered a contaminated material.

OUTCOMES

Notwithstanding the difficult conditions and significant volume of works which were required to be completed for this project, Shaw were able to deliver the project largely within the original contract sum envelope and meeting TasRail funding milestones.