4 x SITES – PASSIVE TO ACTIVE

Level Crossings

Date: **Jun 2022 to Jun 2023** Principal: **TasRail** Project Value: **$2.6M**

TASK

Across four sites, TasRail proposed a number of upgrades of existing rail crossings from passive to active control – namely the installation of lights. Shaw's scope was to install conduit pathways and other electrical infrastructure to support the installation of active control lights by TasRail's signal controllers. To support these crossings, Shaw also upgraded existing level crossings through the use of pre-cast Edilon slabs. The works also included the rerail/resleeper of 1,500m of track. Some sections included formation renewal.

CHALLENGES

A key challenge of this project was managing the multiple mobilisations required of the project. The four sites included two at the northwest, one in the central and one in the southern portions of Tasmania. Whilst Shaw understood this at time of tender, there was significant effort applied to ensure the project team could transfer efficiently between the sites without significant downtime. This was further complicated by evolving scopes at each of the sites including length of rerail/resleeper.

The levels crossings employed the relatively new Edilon Slab configuration from TasRail. These precast concrete slabs allowed for a quicker turnaround of crossing installation on major roads as opposed to the traditional sleeper and asphalt configuration. That notwithstanding, these crossings have high tolerance requirements to align the concrete slab, sleepers and rail. One crossing in particular incorporated the use of segmented concrete slabs to permit crossings along rail bends.

Such was the efficiency of Shaw's installations of conduits and other electrical infrastructure, Shaw had their scope varied to include four additional sites for electrical works installation. These works needed to be coordinated with TasRail's signal technicians to ensure the successful integration of new active signals or reactivation of updated signals.

OUTCOMES

Shaw completed the works over the four project sites with varying scope requirements. The technically difficult and exacting process of installing Edilon slabs was completed successfully at each of the site along with upgrades to the existing rail infrastructure.