

## Cranbourne Line Upgrade

Cranbourne, VIC

Keller's extensive range of solutions, plant and resources were provided to execute the piling works across multiple locations for another successful level crossing removal project.



### The project

Cranbourne line will be fully duplicated by building eight kilometres of new track next to the existing, and two rail bridges at Abbots Road and Eumemmerring Creek. Keller were contracted to complete bridge foundations across four different work zones providing a variety of piling rigs and resources.

## The challenge

Working within a narrow site, in a live rail corridor, across multiple work zones presented a variety of challenges. Spoil management was critical in tight areas to avoid any environmental issues. Dynamic load testing required additional plant and personnel resources and had to be carried out alongside the piling works in an already congested site. Sequencing of works were critical to manage multiple work zones while working alongside other sub-contractors.

## The solution

We worked closely with our client to ensure clear and regular communications addressed any challenges. Understanding the risk to manage the sequence of works across multiple zones, the client employed a dedicated traffic controller that we could work with daily to review and ensure all movements were planned and safely executed without delay. We modified a smaller excavator with a steel plate to successfully mitigate any spoil management concerns in restricted areas. With meticulous project management, managing day and night shifts across all work zones, the piling works were successfully completed ahead of program with no safety issues.

## Project facts

### Owner(s)

Level Crossing Removal Authority

### Keller business unit(s)

Keller Australia

### Main contractor(s)

Western Program Alliance

### Solutions

Heavy foundations  
Excavation support

### Markets

Infrastructure

### Techniques

CFA piles  
Driven precast piles  
Bored piles