



# COCKLE CREEK BRIDGE REFURBISHMENT

NEWCASTLE, NSW

BRIDGE MAINTENANCE

## PROJECT

Cockle Creek Bridge Refurbishment

## CLIENT

Sydney Trains

## DURATEC CONTACT

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## DESCRIPTION

Sydney Trains runs the network of hybrid suburban-commuter rail systems with a central underground core that covers over 815km of track and 178 stations over nine lines.

Built in 1957, Cockle Creek Bridge has heritage significance as a local landmark. It is an attractive example of a mid 20<sup>th</sup> century overhead braced truss double span rail bridge and was the last truss bridge built for the NSW railway network.

The scope of works includes:

- Removal and replacement of the lead paint system.
- Strengthening work to the top chord and stringer girders.
- Replacing corroded rivets with high strength structural bolts.
- Improvements to the earthing and bonding arrangements.
- Installing new walkways.

## HIGHLIGHTS

- An engineered train temporary enclosure (tunnel) will be fabricated and installed to enable works to be carried out whilst the bridge is fully operational.
- Train enclosure fabricated off site and installed in modular sections during a weekend track possession.
- Scaffolding system installed to the underside, sides and top, fully encapsulated with shrink wrap system.
- Stringent environmental controls to be implemented as works are over water and involve hazardous coating removal.



### IMAGES (FROM TOP TO BOTTOM)

- Overview of Cockle Creek Bridge - river view.
- Overview of the bridge - track view.
- Overview of the bridge - top view.