

WESTCONNEX M4 VENT FACILITY  
& ROZELLE INTERCHANGE

# PRODUCTIVE SOLUTION FOR A DEEP & CONGESTED EXCAVATION

## AT A GLANCE

CLIENT	CPB SAMSUNG C&T JOHN HOLLAND JOINT VENTURE
PROJECT	WESTCONNEX M4 PARRAMATTA ROAD VENT FACILITY (PRVF) - ROZELLE INTERCHANGE
LOCATION	SYDNEY, AUSTRALIA
SECTOR	MAJOR PUBLIC INFRASTRUCTURE - ROADS
DATE	2016-2018
CRANES	2 X M860D

WestConnex is Australia's biggest integrated transport and urban revitalisation project. A joint project by the Australian Government and NSW State Government, the 33-kilometre predominantly underground motorway scheme includes around 26 kilometres of new tunnels passing underneath Sydney's Inner West.

Our client sought a crange solution to speed up the removal of spoil and movement of heavy equipment during the construction of ventilation shafts on what was a deep and congested excavation site.

Marr's solution - with the combination of high-speed, high-capacity winches and long reach - provided the ability to remove 400 per cent more spoil compared to previously available approaches.

Once excavation works were completed, Marr's cranes supported the heavy lifting requirements associated with construction of the ventilation facility.

## THE CHALLENGE

- A deep excavation site, with limits on loads that could be applied adjacent to the excavation
- Location - in a high-traffic zone flanked by three main arterial roads
- Congestion - limited space and lay-down area
- Schedule - demanding construction program

## BENEFITS OF EARLY ENGAGEMENT WITH MARR

- Small footprint - opportunity for utilisation of additional lay-down areas on-site
- Speed of excavation and spoil removal
- Flexibility and versatility to be able to use cranes for the installation of plant equipment and structures during excavation works, without demobilising and remobilising cranes
- Capability to lift heavy equipment including excavators in and out of the construction site



