

## FOUNDATION ENGINEERING

# Bluewaters Causeway Towers

## Bluewaters Island

RESIDENTIAL • SECANT PILE WALLS • ROTARY BORED PILES • DEWATERING • GROUND ANCHORS • STRUTS



### Client

Dubai Holdings

### Consultant

WME Consultant

### Main Contractor

NSCC International

### Location

Dubai, UAE

### Start Date

June 2024

### Completion Date

March 2025

### Project Details

#### Rotary Bored Piles

900 mm dia. piles : 218 nos., drilled to a depth of 25.68 m

1200 mm dia. piles : 217 nos., drilled to a depth of 40.83 m

Total length drilled : 12,366.0 LM

#### Secant Piled Wall

Perimeter : 221.5 m (630 mm dia.),

76.9 m (780 mm dia.)

Retained height : 4.65 m to 7.6 m

630 mm dia. piles : 455 nos. @ 480 mm c/c spacing

780 mm dia. piles : 121 nos. @ 630 mm c/c spacing

Total length drilled : 7,972.1 LM

Concrete volume : 10,919.30 m<sup>3</sup>

Reinforcement steel : 1,757.44 tons

Removal of Existing Rocks, Soil & Breakwater : 59,056 m<sup>3</sup>