

FOUNDATION ENGINEERING

Qasr Al Hosn - Abu Dhabi, UAE

CFB & Masterplan Early Works Package 4.1

MUSEUMS • ROTARY BORED PILES • SECANT PILED WALLS • GROUND ANCHORS



Client

Abu Dhabi Tourism & Cultural Authority

Consultant

Cebra / GHD Global

Main Contractor

NSCC International

Location

Abu Dhabi, UAE

Start Date

January 2017

Completion Date

July 2017

Project Details

Main Piles

1000 mm dia. piles : 431 nos., drilled to a depth of 10 m
Total length drilled : 3,143 LM

Secant Piled Wall

Perimeter : 1,100 m
Retained height(s) : 10.5 m, 11.5 m, 12.5 m, 13.5 m, 14.5 m
750 mm dia. piles : 1,371 nos. @ 650 mm c/c spacing
900 mm dia. piles : 48 nos. @ 750 mm c/c spacing
1000 mm dia. piles : 207 nos. @ 850 mm c/c spacing
Total length drilled : 17,673 LM

Ground anchors : 349 nos.
Strutting system : 600 dia.
Tie back : 27 nos.

Dewatering works : 46 nos.
Concrete volume : 12,989 m³
Reinforcement steel : 1,089.37 tons
Excavation volume : 146,847 m³
Total plot area : 10,975 m²