Object
Deep foundation works for a 47-storey luxury condominium.

Project Description
Bored piles, contiguous pile wall, diaphragm walls and soil improvement for construction of deep basement.

Owner
Sathorn Park Co., Ltd. & Grace Ivory Co., Ltd.

Designer
Meinhardt (Thailand) Ltd. (Structural Engineers)

Project Schedule
2007-2008

Construction Details
Foundation bored piles: $\phi 1.00 \times 55.0 = 192$
$\phi 1.20 \times 55.0 = 238$
Contiguous bored pile: $\phi 1.00 \times 22.0 = 83$
Diaphragm Walls: 6,352 sq.m. (1.0m thick x 20-22.0m deep)
1,377 sq.m. (1.2m thick x 20-22.0m deep)
Soil mixing: 275 cu.m.

Subsoil Conditions
Soft clay: 2.5-10.0m
Medium clay: 10.0-16.0m
Stiff clay: 16.0-26.0m
Dense sand: 26.0-60.0m