Object
Solidification of silty and sandy soil with in-situ soil-cement mixing for construction of basements and foundations.

Project Description
Temporary soil retaining walls for excavation up to –6.5m to construct foundation footings and basements of a condominium.

Type of Work
Construction of block type soil retaining walls with soil-cement columns.

Owner
Prinsiri Public Company Limited.

Main Contractor
Built Right Co., Ltd.

Project Schedule
January 2008

Construction Method
• Mechanical Deep Soil Mixing

Construction Details
Soil-Cement Columns: 697 (φ0.8mx7-10m)
H Piles: H100x100-17.2kg = 15

Subsoil Conditions
Fill: 0.0-2.0m
Loose sand: 1.0-4.0m
Medium dense sand: 4.0-6.0m
Dense sand: 6.0-10.0m
Very dense sand: 10.0-18.0m

REFERENCES:

An excavation to –6.5m retained by soil-cement columns with temporary bracing.

Deep soil mixing (soil-cement column works) in progress.

Soil-cement Column Retaining System Layout.