PRINSIRI CONDOMINIUM – PATTAYA
Deep Soil Mixing

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.

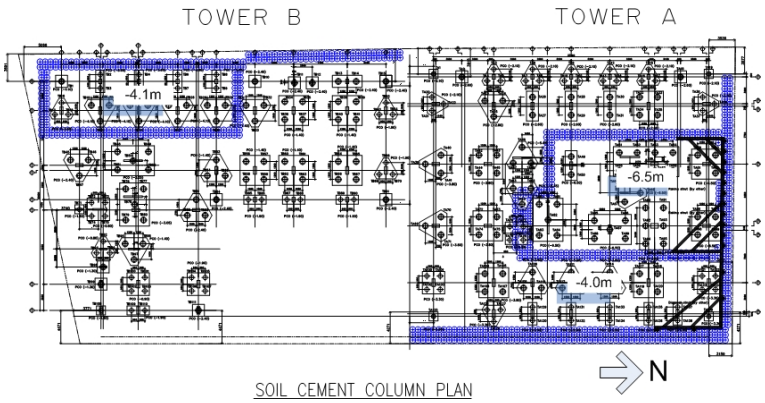
Main Contractor
Built Right Co., Ltd.

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



Soil-cement Column Retaining System Layout.


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


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

REFERENCES:
- Thasnanipan, N., Win M. A and Thayanan Boonyarak (2007) "Minimizing Ground Movement by Using Deep Soil Mixing Technique" (in Thai). The 12th National Convention on Civil Engineering. Phitsanulok, Thailand. pp 240-246.

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