

**Project Title** : **ONE SHENTON WAY**  
42 & 50 Storey Mixed Commercial & Residential Development

**Owner** : City Development Limited

**Architect** : Architect 61 Pte Ltd

**Engineer** : Meinhardt (Singapore) Pte Ltd

**Main Contractor** : Hyundai Engineering & Construction Co. Ltd

**Final Sum** : S\$ 4,430,00.00 (excludes concrete, steel & spoil disposal)

**Period** : Aug 2007 to Jan 2008



**Scope of Works** : 17 nos 1000mm diameter bored pile  
17 nos 1200mm diameter bored pile  
91 nos 1500mm diameter bored pile  
28 nos 1600mm diameter bored pile  
Pile lengths between 55m & 65m socketing up to 10m into boulderly clay layers

**Sub soil condition** :

0 to 3/7m	Loose to Medium Dense fill sand (sand fill)
3/7 to 23/39m	Marine Clay
23/39 to 39/51m	Sandy Clayey Silt (SPT < 100)
39/51 to 50/72m	Sandy Clayey Silt (SPT < 100)
> 50/72m	Fort Canning Boulderly Bed

**Stabilization fluid** : water

**Major equipment deployed** :

- Boring Rigs : 2 nos Bauer BG28s
- Crawler Cranes – 65 & 80ton
- ICE 423 Vibro
- Excavator
- Slurry Plant (silos, tanks, mixer & desander)

**Tools** :

- Boring Bucket, Auger, Core Barrel, Roller Bit Core Barrel, Chisel & Cleaning Bucket
- Casing length 12m

**Pile Load Test** :

- Osterberg Cell
- PDA



roller bit core barrel for coring sandstone boulders

