

Bored Piles with B360XP

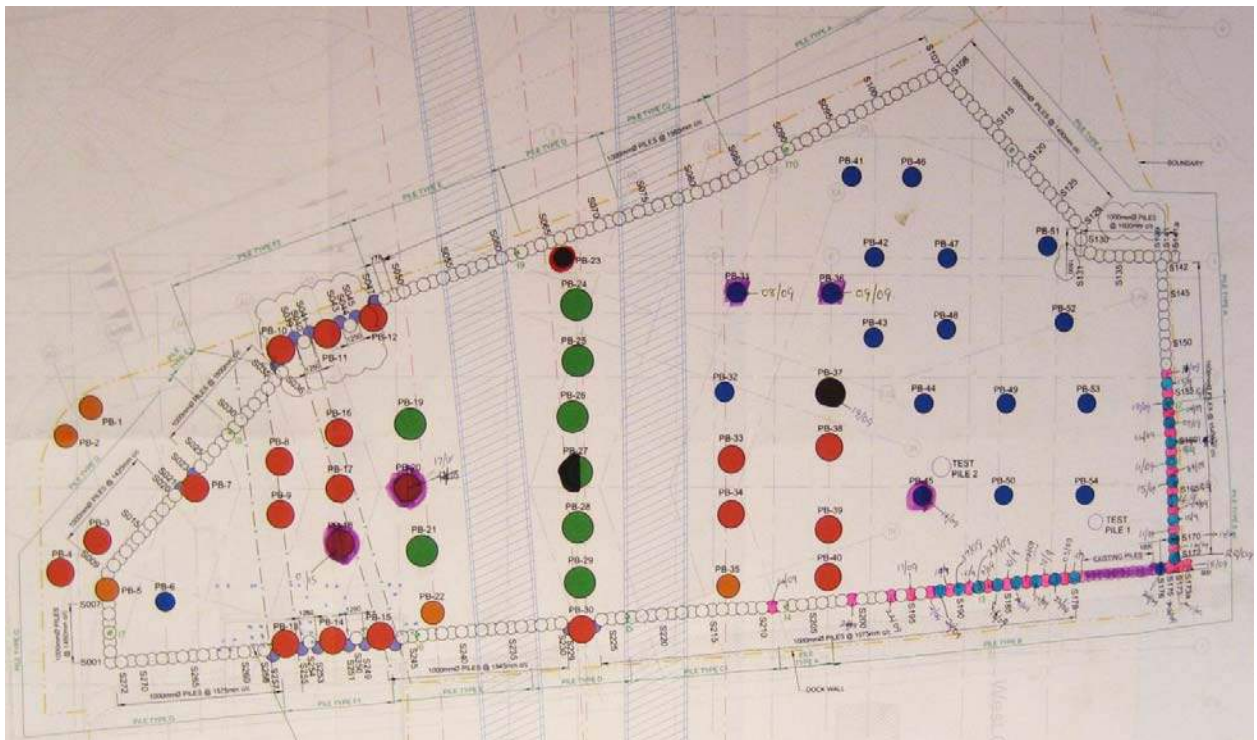
PROJECT DESCRIPTION

- NEWFOUNDLAND TOWER, LONDON
- Project description: Construction of foundation piles and secant walls as permanent support for excavation
- Main contractor: Canary Wharf Construction
- Schedule: started on September 2015

PROJECT QUANTITIES AND GENERAL DATA

- Type of piles: Secant bored piles
- Diameter: 1000 mm
- Distance center-center: 800 mm (overlapping 200 mm)
- Depth: 16 m
- Reinforcement cages: full length - only secondary piles

- Type of piles: Bored piles for foundations
- Diameter: 1500 - 1800 - 2100 - 2400 mm
- Depth: to 64 m
- Reinforcement cages: full length



PRODUCTION DATA

Secant Piles Ø 1000 mm x 16 m depth:

- Drilling primary pile: 1,5 h/pile
- Drilling secondary piles: 2,5 h/pile

Piles Ø 2400 mm x 64 m depth | 10 m cased:

- Single pile average production: 1 pile/day

SOIL FEATURES

- 0 ÷ 30 m: London Clay
- 30 ÷ 64 m: Thanet Sand

EQUIPMENT

- Casagrande B360xp arranged with:
 - Engine CAT C15 – 403 kW – emission stage 3B
 - Main winch – 415 kN nominal line pull
 - Pull down winch: · 600 kN nominal extraction/crowd force
· 17 m stroke
 - H40 rotary head with casing driver with cardan joint
 - S50 HD 4 x 19 m interlocking kelly bars
- Casings: Double wall casings (O.D. 1000 mm – I.D.920 mm) - for secant piles
- Tool: Soil bucket with tapered end and flat end

GENERAL NOTES

- Some of the single piles (e.g. Ø 2400 mm – 64 m depth) are drilled close to the underground railway lines so they are drilled at night.







