

DRILLED DISPLACEMENT PILES

Drilled Displacement Piles (DDP's) are a ground improvement system. DDP's are a displacement element that are installed using a specially designed tool at the working end of a high torque drilling machine.

The DDP's are well adapted to high surface loading conditions and strict settlement requirements and are used to support slabs-on-grade, isolated footings and embankments. The DDP technology is very well suited for very soft soil conditions such as organic clays, alluvial deposits and wastes.

DDP's can also be used to directly support the loads imposed by the structure and to improve the global response of the soil in order to control settlement. The dimensions, spacing, and composition of the DDP's are based upon the development of an optimal combination of support from the DDP's and the surrounding soil to limit settlement for the project within the allowable range.

Advantages

Increases the strength properties and modulus of the soil.

Displaces soil laterally, with only 5-10% spoil, thus excellent method for contaminated soil.

Reduces vibration and minimizes disturbance of the surface layer.

Specifications

DDP diameters range from 300mm to 610mm.

DDP depths up to 32m.

Rig weights range from 40t to 160t.



PROJECT

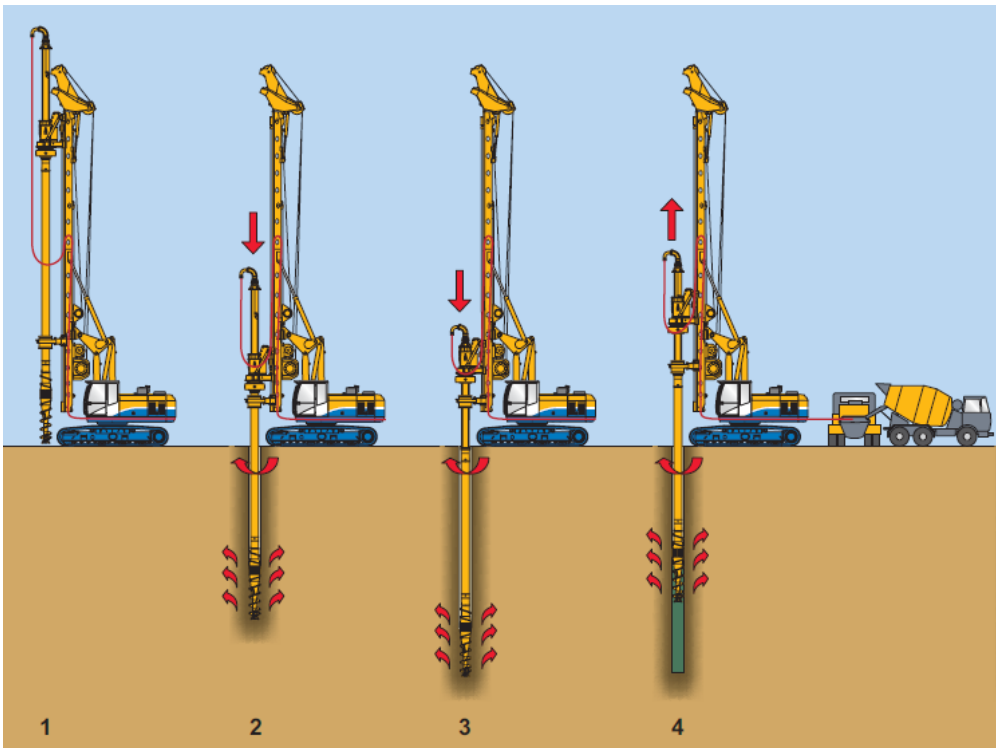
HW30 Central Coast Highway, NSW

PROJECT OUTLINE: Central Coast Highway / Manns Road / Brisbane Water Drive Intersections and Approaches Upgrade at West Gosford.

Main construction of roadworks, bridgeworks and associated activities for the upgrade and involves the widening and realignment of Brisbane Water Drive and Manns Road between Kulara Avenue in the south and Stockyard Place in the north to form a single at-grade fully signalled intersection with the Central Coast Highway.

AVOPILING SCOPE OF WORKS:

- Ground improvement of the Central Coast Highway between Erina Heights and Wamberal.
- DDP - 572No 450mm dia ; DDP depth from 5.0 to 14.1m; grid spacing: varies from 1.2 to 2.0m.



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