

**Project Location:**

Coronado, CA

**Main Contractor:**

R. A. Burch Construction Co.,  
Inc.

**Client:**

US Navy

**Project period**

Aug 2002

**Method Applied:**

Dry Bottom Feed Stone  
Columns with Stitcher® unit.  
Treatment to 8 m (26 ft)  
depth. 2,288 m (7,500 ft) of  
columns installed in rows with  
a 2.43 m (8 ft) triangular grid.

## Technical Requirements:

Increase the cyclic shear resistance and bearing capacity of the silty sands that will bear a building on a hydraulic fill. Prevent liquefaction and lateral spreading.

## Quality Control Testing:

Determination of placed gravel volume over depth from the printout of the quality control recorder. CPT sounding between Stone Column points. Achieve CPT resistance of average  $qc = 15$  MPa and minimum 12 MPa in densifiable layers.



Vibro Stitcher® on a Liebherr 964 in the foreground and Cesar Chavez bridge in the background.

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