

**Project Location:**

Irvine, California

**Main Contractor:**

Whiting Turner Inc.

**Client:**

Kaiser Permanente

**Project period**

Sep 2004 – Nov 2004

**Method Applied:**

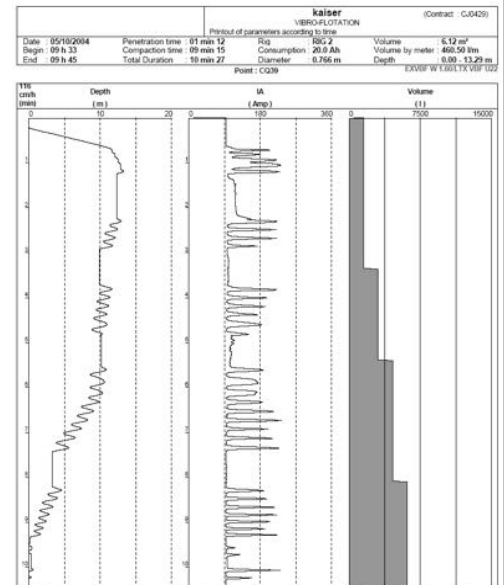
2578 Dry Bottom Feed (Vibro Displacement) Stone Columns to a maximum depth of 16 m (53 ft.).

## Technical Requirements:

Provide instant stability, accelerate drainage and prevent liquefaction for an up to 12 m (40 ft) high road embankment on soft to very soft silt and clay with some peat layers. Below an only 0.5 m dry crust, in some locations the soil is so soft that equipment as shown in the photo below would sink in without the presence of a geotextile reinforced work platform.



View of two V23 Dry Bottom Feed rigs. In background: Irvine Medical Center



Digital QC data output from rig, showing Depth (left), Amperage (middle) and Gravel. Batch placement (step curve on right)

## Quality Control Testing:

Electronic Cone Penetration Tests (CPTs), supported by digital process data from Vibro rigs.

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