

Project Location:

Seattle, Washington

Main Contractor:

Obayashi

Client:

Sound Transit

Project period

Nov 2004

Method Applied:

661 Dry Bottom Feed (Vibro Displacement) Stone Columns of 0.91 m (3 ft) diameter are installed in a 1.83 m (6 ft) triangular pattern to a maximum depth of 11 m (36 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.



Dry Bottom Feed rig on Manitowoc 3900 crane. The rig worked close to the I-5 freeway, just south of Seattle.

Quality Control Testing:

Electronic Cone Penetration Tests (CPTs).

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