

CABO MARINA EXPANSION

CABO SAN LUCAS, BAJA CALIFORNIA

▶ **CLIENT**

Bellingham Marine Industries
1205 Business Park Drive
Dixon, CA 95620

▶ **DATE OF COMPLETION**

Professional Services: 2003

▶ **PROJECT COST**

Professional Services: \$1,500



TerraCosta Consulting Group, Inc. (TCG) provided guide pile design criteria for this **design/build** marina located at Cabo San Lucas, Baja California. The project included the design and construction of a 666-foot-long wave attenuator and fuel dock, a 360-foot approach dock, new gangway access and floats designed to support golf carts for transporting equipment and supplies needed to service superyachts for this high-end 380-slip marina.

The highly variable marina basin had mudline elevations within the marina footprint ranging from -10 feet to -30 feet MLLW. TCG developed load deformation guide pile design criteria for these variable-depth bay floor deposits, balancing guide pile stiffness with bay floor deposits to maintain a relatively uniform stiffness guide pile/floating dock system for this superyacht marina.