



DeMattei Coastal Residence Santa Cruz, California

Civil and Structural Engineering



Client Reference:

Mark DeMattei, DeMattei Construction Inc.
Project Architect
Thacher & Thompson Architects
200 Washington Street, Suite 201
Santa Cruz, CA 95060
(831) 457-3939



Budget: \$3.5 million

"Our beach house is a work of art!"
-Mark DeMattei

Mesiti-Miller Engineering provided structural and civil design for this 3,500 square foot custom beach house. The home is situated on the beach at the base of the coastal bluff with spectacular views of the Monterey Bay. The project's intent was to show case DeMattei Construction's craftsmanship in an impressive Californian setting.

The site created several unique challenges for the design team. Structurally the residence was designed to withstand static and dynamic debris loads resulting from potential bluff top failures, breaking wave and storm debris impact loads within the flood zone and seismic loads from the San Andreas Fault. Our work also included permit shepherding with the California Coastal Commission for a grouted rip rap seawall and relocation of the County's sanitary sewer force main through the site.

Regardless of the site's challenges, DeMattei's vision was made a reality and the home was showcased in Sunset magazine.

2008 Merit Award for Excellence in Engineering
from the Structural Engineers Association of California
in the New Construction-Small Project Category

2008 Merit Award for Excellence in Engineering
from the Structural Engineers Association of Northern
California

