

Project Name: CIRCLE WAY STORM DRAIN AND STAIR REPLACEMENT

Project Number: 2010-02
Location: Laguna Beach, CA
Client: PSOMAS
Contact: Anissa Voyiatzes

Scope of Work:

Petra Structural Engineers provided structural engineering design for the demolition and replacement of the existing stairs and storm drain.

Shoring had to be installed and support adjacent buildings during demolition and construction. Piles were designed and constructed at the bottom of the hill to support the hill and prevent it from sliding.

The lower portion of the stair was supported on a drilled pile system with steel casing to prevent caving in sand. The storm drain outlet was supported on piles and grade beams. The top of the outlet structure was designed and shaped to blend with the surrounding hill and remain concealed in winter time when the sand erodes. The upper portion of the stairs and storm drain were on compacted fill with bulkheads for sliding resistance.



Schedule for Completion: 3 Months
Construction Budget: \$900,000
Contractor: GCI Construction
Completed within Budget? YES
Completed on Time? YES

