



BART Transit Village at Trestle Glen

Colma, California

The Geopier Impact® system was recommended by the geotechnical engineer for mitigating liquefaction potential and to limit settlement

Description: This project provided foundation support for a 4-story structure consisting of 1-level of at grade parking with 3-stories of wood framed construction above in Colma, California. Column loads ranged from 25 k to 300 k.

Subsurface Conditions: According to the boring logs in the Geotechnical Investigation report, the site was generally underlain by loose to medium dense silty sands, sandy silts, and sandy/silty clays with varying thickness that was between 10 and 30 feet. The upper soils appeared to be localized fill. Ground water elevation varied and was expected between 10 feet and 25 feet below the ground surface.

Geopier Solution: Rammed Aggregate Pier® (RAP) elements were proposed for mitigating liquefaction potential on the southeast portion of the site. By improving the soil, it also increased the allowable bearing pressure and limited the amount of anticipated settlement. Long term post-construction total and differential settlements will be less than 1-inch and ½-inch.



PROJECT TEAM

Owner:

Bridge Housing

Geotechnical Engineer:

Engeo

Structural Engineer:

FBA

General Contractor:

Segue Construction

Geopier Installer:

Farrell Design-Build Companies, Inc.

Geopier Designer:

Farrell Design-Build Companies, Inc.