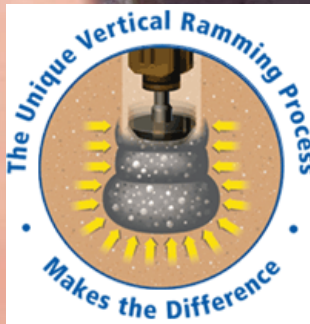




and Rammed Aggregate Pier® Systems

Farrell Design-Build crews install uplift RAPs for 8 story concrete parking structure. BART Pleasant Hill Station with C. Overaa, Treadwell & Rollo, and Watry Design.



The Geopier® System ADVANTAGE:

- RAMMED.** Heavy crowd plus vertical impact ramming of aggregate is the key to high strength and stiffness.
- STRENGTH.** Vertical ramming results in very dense RAP elements with unmatched vertical bearing capacity.
- STIFFNESS.** Heavy crowd and vertical impact results in high pier stiffness for excellent settlement control.
- PROVEN.** Thousands of structures supported – proven experience ensures high levels of performance and reliability.
- ECONOMICAL.** Often results in 20% to 50% cost savings compared to traditional deep foundation alternatives.
- FAST.** Rapid installation process means shorter construction schedules.
- ECO-FRIENDLY.** Use recycled concrete and aggregate where available and increase LEED® points for certification.



THE STIFFEST AGGREGATE PIER ON EARTH!

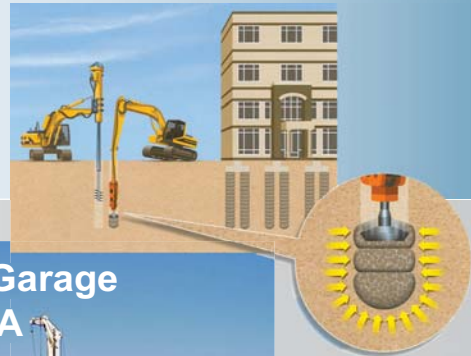


Serving the San Francisco Bay Area, Sacramento Valley, San Joaquin Valley, and all of Northern California.

for more information call (530) 621-4867 or www.farrellinc.com



RAP Footing Capacities (ASD)
Bearing = 5,000 to 10,000 psf
Uplift = 50 to 100 kips
Coef. of Friction = 0.4 to 0.5
Less than 1 inch settlement



Geopier® Applications

BUILDING FOUNDATION SUPPORT

Unmatched aggregate pier stiffness!
Increase bearing capacity & reduce settlement of fill and loose soil for 1 to 18 story buildings.

FLOOR SLAB SUPPORT

Improve soil and fill to create uniform bearing platform for slab-on-grade.

LIQUEFACTION MITIGATION

Increase shear resistance of silty sand & clayey sand. Increase softening resistance of lean clays and low plasticity silts.

SEISMIC UPLIFT RESISTANCE

Highly efficient uplift resistance per foot of depth, up to 200 kips ultimate.

TANK AND EMBANKMENT SUPPORT

MSE WALL AND FILL SUPPORT

SLOPE STABILIZATION TO 25 FEET

Rest Assured with:

PROVEN PERFORMANCE

Hundreds of full scale load tests and published settlement control.

QUALITY CONTROL

Visual inspection of drilled spoils & full-scale modulus load testing with telltales.

RELIABILITY

Over 2,000 structures supported worldwide.

COST EFFECTIVENESS

Published cost savings of 20% to 50% compared to concrete piles and piers.



**BART Parking Garage
Pleasant Hill, CA**



2 Geopier Crews at BART

BART Project Details

- ✓ 8 deck Parking Garage, 3,000 kip loads
- ✓ Cast-in-place Concrete System
- ✓ Concrete Shearwall Seismic System
- ✓ Uplift loads \geq 1,500 kips
- ✓ 200 kip uplift RAP strength
- ✓ 200 to 300 kips/inch tested uplift stiffness
- ✓ 2006 RAP Construction

Our engineers are ready to optimize your next project for cost and performance!



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We mobilize to Southern California too!