

# Proven Foundation Solutions + Unmatched Customer Service!



Farrell Design-Build Companies, Inc.  
Experienced Engineers and Licensed Contractors Delivering **Design-Build Foundation Solutions for Heavy Building, Tank, and Civil Structures** Optimized for Code, Cost, and Schedule.

Farrell serves the San Francisco Bay Area, Sacramento Valley, San Joaquin Valley, Los Angeles Basin, Inland Empire, San Diego, and all of Northern & Southern California.

Farrell is the licensed Geopier®, Impact® Pier and Rammed Aggregate Pier® Systems Design-Builder for Northern California.

**Contact Farrell Design-Build to review foundation options for your next job's unique soil and structural load conditions. Call Farrell at (530) 621-4867.**



## FARRELL's Qualifications:

- California Contractor's License 477361 A + B
- California Registered Engineers with 40 years of experience
- Fully Insured: CGL On-Going & Completed Operations, Professional Errors & Omissions, Workers Compensation, Auto, Pollution, and Excess Liability
- Bonding to \$4,000,000 plus
- Own Specialized Equip./Rigs
- Self Performing Merit-shop, Public Works Prevailing wage, and Union Subcontractors
- OSHA Safety Trained Crews
- Safety IIPP current / up to date
- Safety Performance Rewards
- Continuous Business Operation in California since 1984
- MBE Certified Corporation
- SBE Certified Corporation









**Farrell's Foundation Solutions  back.**

for more information call (530) 621-4867 or visit us at [www.farrellinc.com](http://www.farrellinc.com)



**Rammed Aggregate Pier® Systems**

**Auger-Cast & DDP & DGP Piles**

<b>FARRELL FOUNDATION SOLUTIONS</b>	<b>Depth of Treatment</b>	<b>BEST Soil Type</b>	<b>TYPICAL Allowable Capacity</b>	<b>KEY Advantages</b>	<b>Drawbacks</b>	<b>COMPETES With</b>
<b>RIC</b> Rapid Impact Compaction Dynamic Compaction 	15-20 feet (5-6 meters)	Sand Silt Old fill	1,000 psf (48 kpa) to 3,000 psf (144 kpa)	<ul style="list-style-type: none"> <li>• <b>Liquefaction mitigation</b></li> <li>• Fast improvement process</li> <li>• No spoils</li> <li>• Densification</li> </ul>	<ul style="list-style-type: none"> <li>• pad grading required</li> <li>• vibrations within 30 ft</li> <li>• depth limits</li> </ul>	<ul style="list-style-type: none"> <li>• deep dynamic compaction</li> <li>• overex/replace</li> <li>• stone columns</li> </ul>
<b>Geopier® RAP</b> Replacement Rammed Aggregate Pier® System 	<b>RAP</b>  30 feet (9 meters)	Silt Clay SC SM Old fill	5,000 psf (239 kpa) to 10,000 psf (479 kpa)	<ul style="list-style-type: none"> <li>• <b>Very high bearing capacity</b></li> <li>• Support heavy bearing loads</li> <li>• <b>Uplift - tension hold-down</b></li> </ul>	<ul style="list-style-type: none"> <li>• spoil off-haul</li> <li>• casing in high ground water sand</li> <li>• depth limits</li> </ul>	<ul style="list-style-type: none"> <li>• overex/replace</li> <li>• concrete piers</li> <li>• driven piles</li> <li>• stone columns</li> <li>• auger-cast pile</li> <li>• soil-cement col.</li> </ul>
<b>Impact® Pier</b> Displacement Rammed Aggregate Pier® System 	<b>IRAP</b>  54 feet (16 meters)	Silt SC SM Clean Sand-SP	3,000 psf (144 kpa) to 6,000 psf (287 kpa)	<ul style="list-style-type: none"> <li>• <b>Liquefaction mitigation</b></li> <li>• High stiffness</li> <li>• No casing</li> <li>• No spoils</li> <li>• <b>Densification</b></li> </ul>	<ul style="list-style-type: none"> <li>• soft clay may need grout</li> <li>• large sites</li> <li>• vibrations within 30 ft</li> </ul>	<ul style="list-style-type: none"> <li>• overex/replace</li> <li>• stone columns</li> <li>• driven piles</li> <li>• concrete piers</li> <li>• soil-cement col.</li> </ul>
<b>ACP &amp; DDP &amp; DGP</b> Auger Cast / Drilled Displacement Piles & Driven Grout Piles 	<b>ACP &amp; DDP</b>  65 feet + (20 meters)	All	100 kips (445 kN) to 500 kips (2224 kN)	<ul style="list-style-type: none"> <li>• Minimum vibration</li> <li>• <b>Speed thru dense layers</b></li> <li>• High capacity</li> <li>• Up to 24" dia.</li> </ul>	<ul style="list-style-type: none"> <li>• mud spoils</li> <li>• muddy site conditions</li> <li>• complex quality control</li> </ul>	<ul style="list-style-type: none"> <li>• concrete piers</li> <li>• driven piles</li> <li>• stone columns</li> <li>• soil-cement col.</li> <li>• torque piers</li> </ul>
	<b>DGP</b>  55 feet (20 meters)	All	100 kips (444 kN) to 300 kips (1334 kN)	<ul style="list-style-type: none"> <li>• High capacity</li> <li>• <b>Fast installation</b></li> <li>• Displacement Pile = no spoil</li> <li>• Best in soft clay</li> <li>• Dry install rebar</li> </ul>	<ul style="list-style-type: none"> <li>• vibratory driven install</li> <li>• refusal to driving</li> <li>• depth limits</li> </ul>	<ul style="list-style-type: none"> <li>• concrete piers</li> <li>• driven piles</li> <li>• stone columns</li> <li>• soil-cement col.</li> <li>• franki piers</li> </ul>
<b>HMP &amp; SPP</b> Helical Mini-Pile Screw Pipe Piles 	90 feet (27 meters)	All	20 kips (88 kN) to 200 kips (890 kN)	<ul style="list-style-type: none"> <li>• Small equipment</li> <li>• Small access repair/retrofit</li> <li>• Low site impact</li> <li>• <b>No spoils</b></li> <li>• Low vibrations</li> </ul>	<ul style="list-style-type: none"> <li>• high cost materials</li> <li>• steel below water</li> <li>• weld splice for pipe pile</li> </ul>	<ul style="list-style-type: none"> <li>• micro-piles</li> <li>• soil-nails</li> <li>• concrete piers</li> <li>• driven piles</li> </ul>

Geopier®, Impact®, and Rammed Aggregate Pier® are the registered trademarks of Geopier Foundation Company Inc. Chance is the registered trademark of Hubbell Power Company Inc.

**Contact Farrell to optimize your next project for code, cost, and schedule.**

**Experience you can trust!**



**MAIN OFFICE**  
 3025 Venture Road  
 Placerville, CA 95667  
 tel (530) 621-4867 fax (530) 621-4837  
[www.farrellinc.com](http://www.farrellinc.com)