

PROJECT DESCRIPTION

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| PROJECT: | North Interstate Housing | |
| LOCATION: | Portland OR | |
| DESIGN TEAM: | <i>Architect:</i> | Emmons Architects: Portland OR |
| | <i>Structural Engineer:</i> | Associated Consultants, Inc.: Portland OR |
| | <i>Geotechnical Engineer:</i> | Professional Service Industries, Inc.: Portland OR |
| CONTRACTOR: | Seabold Construction Co., Inc.: Beaverton OR | |
| OWNER: | Housing Authority of Portland | |



DESCRIPTION:

- Two 3-story apartment buildings
- Foundation loads = 4-5 kips per foot
- Column loads = approximately 50 kips
- Undocumented fills approximately 16 ½' to 23' below existing site grades

The site consisted of undocumented fills consisting of silty sand, sandy silt, organic silt and silty, sandy gravel approximately 16 ½' to 23' below existing grade. The geotechnical report recommended two alternatives for foundation support:

- (1) 4" to 6" Pin Piles approximately 23' in length
- (2) 14-16 inch Auger Cast Piles installed to a depth of 40' below existing site grades.

The Geopier® System was selected as a Value Engineering alternative as well as one that met strict requirements for limiting sound and vibration effects on the surrounding neighborhood. A total of 112 Rammed Aggregate Pier® elements were installed in only 6 working days on-site.

REFERENCES:

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| Troy M. Hull, P.E. Professional Service Industries, Inc. (503) 289-1778 | Larry Didway Seabold Construction Co. Inc. (503) 626-0331 | Manouch Yaganeh, P.E. Associated Consultants, Inc. (503) 384-0460 |
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