

PROJECT DESCRIPTION

PROJECT:	New Gymnasium – Grants Pass High School	
LOCATION:	Grants Pass, Oregon	
DESIGN TEAM:	<i>Architect:</i>	Dull/Olsen/Weeks Architects
	<i>Structural Engineer:</i>	KPFF Consulting Engineers
	<i>Geotechnical Engineer:</i>	Marquess & Associates
CONTRACTOR:	Hoffman Construction Company	



DESCRIPTION:

- Tall one and two story gymnasium
- Column loads up to 330 kips
- Bearing wall loads up to 6.5 kips/foot

The project geotechnical investigation revealed widely differing soil conditions to depths up to 20'. Soils ranged from soft sandy clays to loose clayey and silty sands. Relatively dense soils and gravel underlie the upper soft and loose soils.

Structural replacement fill was installed beneath perimeter bearing walls and minor columns. However, the heavily loaded main roof support columns, and columns supporting the grandstands, required more substantial foundation support. Options considered for the columns included 30' to 40' long piles and the Geopier® System. Rammed Aggregate Pier® (RAP) were selected as a cost-effective solution, and because the settlement performance of RAP-supported footings was considered most compatible with that of structural fill-supported footings.

A total of 56 compression RAP's with 30" diameters were installed to support the critical columns. The piers were about 13' to 14' in length.

REFERENCES:

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