

PROJECT DESCRIPTION

PROJECT: Raw Material Improvement Project

LOCATION: Particleboard Plant, Springfield, Oregon

DESIGN TEAM:

<i>Architect:</i>	Weyerhaeuser Co.
<i>Structural Engineer:</i>	CE/Western Engineering, Inc.
<i>Geotechnical Engineer:</i>	EMCON
<i>Owner:</i>	Weyerhaeuser Paper Co.

CONTRACTOR: Weyerhaeuser Co.



DESCRIPTION:

- Structural mat foundation
- Design live load of 600 psf

The screening building is supported on a 12" thick reinforced concrete mat measuring 60' x 135' in plan, with a connecting 15' x 45' mat supporting a 2-story mechanical room.

The site is underlain by about 13' of soft clayey silt, silty clay and sandy clay. At depths of about 13' is a formation of dense clayey gravel. Site development options presented in the geotechnical engineer's report included preloading for 4 month with an 8' high temporary fill, driven piles, and the Geopier® System.

The Geopier® System was installed beneath the entire mat area on a grid spacing of 12.5'. The piers were 30" and 33" in diameter, and extended to the gravel formation, which underlies the site at about 13' below the bottom of the mat. A total of 73 piers were installed in only two working days on-site.

REFERENCES:

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