

GEOTECH FOUNDATION COMPANY - WEST

214 SE WALNUT STREET * HILLSBORO, OREGON 97123 PHONE: 503-640-1340 * FAX: 503-648-6706

PROJECT DESCRIPTION

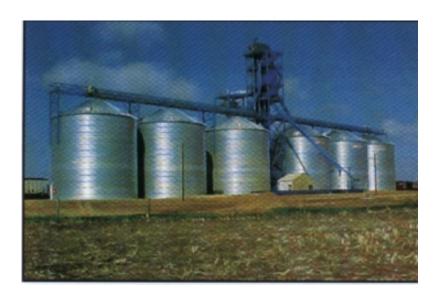
PROJECT: Grain Storage Bins **LOCATION:** Harlem, Montana

DESIGN TEAM: Structural Engineer: Grain Systems, Inc.

Geotechnical Engineer: Maxim Technologies

CONTRACTOR: The Haskins Company

OWNER: Columbia Grain, Inc.



DESCRIPTION:

- Four 54' diameter grain bins and one 48' diameter bin
- Mat slab loads = 2,150 psf
- Goundwater at approximately 8' below grade
- Highly compressible lean clay 9' to 11' thick

The geotechnical investigation revealed a near surface layer of highly compressible lean clay on the order of 9' to 11' thick overlying stiff, fat clay. The geotechnical report recommended overexcavating to a depth of 9' below existing grade, using a geotextile fabric to separate the subsoil, and replacement with engineered fill.

The Geopier® System was selected as a Value Engineering alternative. The Rammed Aggregate Pier® (RAP) elements penetrated to a depth of 10-14 feet below the bottom of the floor slab and 6 feet under the perimeter ringwall footing.

A total of 328 RAP elements were installed in only 7 working days on-site.

REFERENCES: Sterling A Haksins

The Haskins Company (509) 535-2978

Richard Dombrouski, P.E. Maxim Technologies, Inc. (406) 543-3045

Tom Gettings, P.E. Grain Systems, Inc. (217) 226-4421