

Polaris Industries Distribution Center Vermillion, South Dakota

Geopier® Rammed Aggregate Piers™

Project Team

Geotechnical Engineer: GME Consultants, Inc.
Structural Engineer: OPUS Architects and Engineers
Owner: Polaris Industries, Inc.

General Contractor: OPUS Construction Company
Geopier Installer: ECS, Inc.
Geopier Designer: GFC — Midwest

The work was performed in 1997. The construction was completed in only six weeks -- a full two weeks ahead of schedule.

Project Overview

Description:

Construction of a 256,000 square foot distribution center of over 48,000 types of parts, garments and accessories. The rack storage is serviced by a settlement-sensitive laser guided inventory system.

Subsurface Conditions:

Soft, silty clay with a water table at four feet below grade. Fills required across the site varied from 1 foot up to 8 feet in depth.

Geopier Solution:

Geopier soil reinforcement was recommended by the geotechnical engineer as an alternative solution. The Geopier system was designed to support both the floor slab and foundation. Floor loading requirements were 800 pounds per square foot with column loads of 100 kips. Installation of the 3,462 Geopier elements was on a grid of 9 feet by 13 feet with the Geopier elements being 14 feet deep.



FOR MORE INFORMATION
Contact Geopier Foundation Company at 800-371-7470
or at www.geopier.com



GEOPIER
FOUNDATION COMPANY

The Intermediate Foundation System