



Polaris Industries Distribution Center

Vermillion, South Dakota

Construction was completed in only six weeks – a full two weeks ahead of schedule, saving time and money

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: The Geopier GP3® system was recommended by the geotechnical engineer as an alternative solution. The Rammed Aggregate Pier® (RAP) 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 RAP elements was on a grid of 9 feet by 13 feet with the Geopier® elements being 14 feet deep.



PROJECT TEAM

Owner:

Polaris Industries, Inc.

Geotechnical Engineer:

GME Consultants, Inc.

Structural Engineer:

OPUS Architects and Engineers

General Contractor:

OPUS Construction Company

Geopier Installer:

ECS, Inc.

Geopier Designer:

GFC-Midwest