



Fire Station & Administration Building

St. Paul, Minnesota

The Geopier GP3® system was selected by the geotechnical engineer to support this facility in lieu of alternative foundation support solutions

Description: This project consisted of a one to two-story fire station and administration building that consolidated two existing fire stations.

Subsurface Conditions: Soil conditions consisted of fill, five to 24 feet thick with the deepest fill within an old ravine below the central part of the building. Beneath the fill was limestone bedrock.

Geopier Solution: The Geopier GP3® system offered a foundation support solution for the heavily loaded floor slabs, walls and columns over the uncontrolled fill soils. The GP3® system also offered a sustainable solution. The aggregate used to construct the Rammed Aggregate Pier® elements will assist with LEED credits as the project aims for LEED silver certification.



PROJECT TEAM

Owner:

City of St. Paul

Geotechnical Engineer:

Braun Intertec Corporation

Structural Engineer:

Collaborative Design Group

General Contractor:

CPMI, Inc.

Geopier Installer:

Foundation Service Corp.

Geopier Designer:

GFC-Midwest