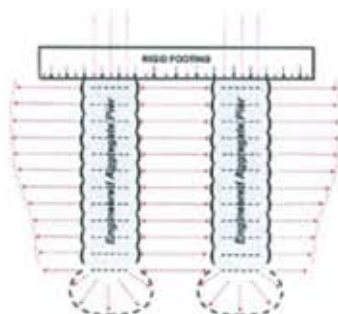


PROJECT DESCRIPTION

PROJECT:	UHC-Ingenix 3-story Office Building	
LOCATION:	West Valley City, Utah	
DESIGN TEAM:	<i>Architect:</i>	Opus Architects & Engineers, Inc.
	<i>Owner:</i>	United Health Corporation
	<i>Geotechnical Engineer:</i>	Bingham Engineering, Inc.
CONTRACTOR:	OPUS West Construction	



DESCRIPTION:

- Three-story office building
- 340 kip column loads
- Deep compressible clay formation

The geotechnical investigation revealed that the site consists of compressible clays, sands, silty sands and sandy silts to about 30' below grade. Groundwater occurred 2 ½' to 5' below the existing ground surface.

Analyses by the geotechnical engineer indicated four options for foundation support:

- (1) Surcharging the building footprint for at least 3 months and establishing spread or combined footings on a minimum 24" structural fill
- (2) Utilize pile foundations with a minimum length of 35'
- (3) Utilize a mat foundation
- (4) Geopier® Intermediate Foundation System

The Geopier System was selected on the basis of cost and on-site construction time. A design bearing pressure of 5000 psf was used on the Geopier reinforced soil. There were 339 Rammed Aggregate Pier® (RAP) elements installed with a designed length of only 12'. The installation was completed in only 13 working days.

REFERENCES:

Joel D. Wage, Project Manager
Opus West Construction Corporation
(602) 468-7000

Dan Weston, S.E., Senior Project Engineer
Opus Architects & Engineers, Inc.
(952) 656-452

Bret Dixon, P.E.
Bingham Engineering, Inc.
(801) 532-2520