



PROJECT REPORT

ARTHUR CAPPER CARROLL SENIOR APARTMENTS

EQUIPMENT:	RIC 7000
PROJECT:	ARTHUR CAPPER CARROLL SENIOR APARTMENTS BUILDING I
LOCATION:	WASHINGTON, DC, USA
PURPOSE:	FOUNDATION PREPERATION FOR APARTMENT DEVELOPMENT

Two new senior housing apartment buildings were constructed as part of the Hope VI grant for the Capper/Carrollsborg area.

These are Capper (1) and Capper (2). Capper (1) is a four-story, 160 unit building near the intersection of 5th and Virginia. Construction of Capper (2) is a 138 unit "wraparound," to the existing Carroll Apartments at 4th and M Streets began in December, 2005.

GeoStructures implemented a ground improvement package that included Geopier elements for column and wall footings, which supported a maximum load of 405 kips and 12 kips per foot, respectively; and Rapid Impact Compaction for floor slab areas. These technologies were used to improve 5 to 20 feet of uncontrolled sandy and clayey fill soils with N-values ranging from 4 to 19 blows per foot. Using the Geopier elements, a nominal bearing pressure of 5,000 pounds per square foot was achieved, and the need for costly 50 to 60 foot deep timber or auger cast piles was eliminated. RIC provided a timely, economic solution for floor slab report without the use of traditional undercut and replace methods.



Arthur Capper Carrol Senior Apartments

Contract Specifications	
General Contractor:	Hamel Builders, Inc.
Owner:	Mid City-Urban, LLC
Developer:	Forest City Enterprises
Architect:	Torti Gallas CHK & Partners
Structural Engineer:	SK&A Consulting Structural Engineers
Geotechnical Engineer:	Schnabel Engineering North, LLC





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THE GEOPIER & RIC ADVANTAGE

- RIC eliminated the need for excessive undercut and replace of fill soils under the floor slab.
- Geopiers were less expensive than alternate deep foundation options.
- The innovative combination of RIC and Geopiers provided cost savings and allowed the project to be completed on schedule.

BSP International Foundations Ltd
 Claydon Business Park, Gt. Blakenham, Ipswich, Suffolk, IP6 0JD, United Kingdom
 Tel. +44 (0) 1473 830431, Fax +44 (0) 1473 832019
 email: sales@bspif.co.uk www.bsp-if.com



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