



## **Telecommunications Improvement Program Completed at Fort Hamilton**

**For immediate release.**

March 11, 2008

Recognizing the need to establish a more effective telecommunications infrastructure, Fort Hamilton—the US Army Garrison located in Brooklyn, New York—recently upgraded its IT network capability on the base. These improvements required professional engineering services to design and construct telecommunications

improvements that would increase the network throughput and redundancy, and better support the Fort Hamilton Garrison and Tenant activities. BANC3 Consulting Engineers of Cranbury, NJ directed the installation of new high speed optical fiber and related appurtenances at key base facilities that will enable Fort Hamilton to receive and transmit higher volumes of data than previously possible.

Due to an aging infrastructure that included failed cabling, pathways and manholes, Fort Hamilton was not able to support the increased demand for system capacity and speed of data transmissions necessary to meet Garrison and Tenant mission requirements. Under an urgent mission requirement to facilitate improvements, the US Army New York Area Command contracted BANC3 to manage the demands of the upgrade. BANC3's Jim Ott, PE was named Project Manger; through over 30 years of civil engineering design and management at US military installations—including over 15 years as Director of Public Works at Fort Monmouth—Mr. Ott draws upon his singular history of technical proficiency and knowledge of Army protocols. He provided critical leadership to this sensitive and complex project through his intimate understanding of the Army's dedicated chain-of-command, missions, operating systems and regulations; ability to obtain all necessary federal permits for engineering improvements to military property; and by serving as an interface with the New York Area Command to support their project goals and to remove potential obstacles for his project team.

BANC3 developed and executed a complete solution to Fort Hamilton's required improvements that included assessment, engineering, value engineering, scope

development, telecom design, pricing, construction, construction management and quality control. To determine the scope of the upgrade, BANC3 conducted site inspections to analyze the condition of the fort's telecommunications infrastructure. We identified and prioritized the areas to receive new fiber optic cable. Through our findings, BANC3 developed the final scope of work and technical specifications for project execution.

Oliver Communications of Bordentown, NJ provided underground construction services and the installation and testing of the new optical fiber.

To complete primary improvements, the BANC3 team replaced the fort's existing cabling with 36-strand optical fiber that will increase the size and speed of data transmissions at the critical facilities selected for upgrading. Principal among these facilities is Fort Hamilton Dial Central—the main entry point for telecommunications connectivity into the installation—which BANC3 connected to the Fort Hamilton New York Area Command Headquarters. BANC3 also installed optical fiber to the New Fort Hamilton Installation Access Control Point/Visitor Control Center at the main gate, and to several other buildings supporting the functions of the Fort Hamilton Garrison. Other facilities received interior premise wiring with optical fiber. The BANC3 project team also completed the terminations, testing and performance verifications of all fiber strands to ensure they passed industry standards.

During construction, as we identified collapsed or full conduits in proposed cable routes, we designed alternative routes through other available conduits. To accomplish this,

interior and underground pathways were constructed; manholes and conduits were replaced as necessary; and directional boring was required for installation of some pathway sections.

Immediate benefits from the upgrade to Fort Hamilton include improved service reliability through the elimination of redundant service to the Command Building, and expanded fiber transmission capacity through the replacement of defective optical fiber. Newly installed network switches to segment the Campus Area Network (CAN) make the network more manageable. Most significantly, these upgrades also establish the initial segments of a planned virtual fiber ring on Fort Hamilton.

Fort Hamilton officials have expressed their compliments for the BANC3 team's rapid execution of the project, the quality of our work, and the overall effort in solving problems generated by unforeseen conditions during construction. In addition, they acknowledged the minimal impact the team's project execution had on the fort's daily operations.

As a multidisciplinary Engineering and IT consultant, BANC3 combines a range of services found in large engineering firms with the select focus of a small specialty consulting firm. With over 60 project managers, task leaders, professional engineers, surveyors and IT professionals who are experts in their respective fields, we are able to insert singular design, planning and construction support immediately into a project. By providing a unique collection of services all under one roof, we save our clients the effort

and expense of using disparate contractors. From our corporate headquarters in Cranbury, NJ, BANC3 implements our custom in-house services on projects across the country.

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