CASE STUDY

N-12® Used for Field Hospitals

Long Island, NY

OWNER
U.S. Army Corps of Engineers, Washington, D.C.

ENGINEERS
EAI, Inc. Environmental Management Services, Jersey City, NJ

CONTRACTORS
Turner Construction Company, New York, NY
AECOM Technical Services, Inc., Los Angeles, CA

INSTALLATION DATE
April 2020

PRODUCTS
1,200’ (366 m) of 12” (300 mm) N-12 pipe

DESCRIPTION

During the COVID-19 pandemic, two temporary, 1,000- bed field hospitals were erected on two Long Island college campuses. The hospitals were large tents made of vinyl making rainwater cascade faster. Because the turf where the hospitals were built could flood in a medium rain event, stormwater control was vitally necessary.

The hospitals were designed on the fly and plans had to be changed to accommodate the equipment of the various trades. The flexibility of N-12 pipe allowed a complete project redesign. The light weight of N-12 allowed it to be easily handled by one- or two-person crews and to be zip tied in order to attach the pipe’s to the buildings.

The system was designed to handle 1,230 gallons (4,656 liters) of rain water per minute. The rain water runoff from the tents conveyed through the pipe and went to swales that were dug to handle the stormwater flow.

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