

NEW YORK CITY MTACC

Contract CM005 is the largest of the cavern projects under New York's Grand Central Terminal and is the largest bored rock tunnel project in Manhattan. This major project is the first time in over one hundred years that the NYC Metropolitan Transit Authority has expanded connection points into the landmark Grand Central Station Terminal.



PROJECT

New York City MTACC – East Side Access: CM005 – Manhattan Structures

Project Owner:
New York City MTA

Design Engineer:
Parsons Brinkerhoff

General Contractor:
Michels Corp.

LOCATION

New York, NY, USA

PRODUCTS

T-Series membrane and accessories

CHALLENGE:

As part of the massive NYC East-Side Access Project, Contract CM005 represents the largest contract in dollar value to date. The scope of the project required over 60,000m² of CETCO T-Series PVC membrane and related accessories.

SOLUTION:

The Metropolitan Transit Authority's positive experience with previous contracts of MTA Capital projects solidified CETCO's position to be selected for this project. CETCO's dedicated team demonstrated the capabilities required by the project team with technical support and site assistance through the CETCO Approved Applicator. Through these efforts, the project team witnessed the quality and the assistance required to facilitate a successful system installation within the parameters of the project schedule.

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EXECUTION:

Bored rock tunnel waterproofing can create several challenges that cause scheduling and financial delays if not addressed quickly. CETCO worked closely with the Approved Applicator and the construction team to provide technical clarity on some of the challenges surrounding attachment methods and substrate conditions. Due to the amount of overhead work, tight radius of the tunnels and hardness of the granite, CETCO worked with the applicator on a means to properly and efficiently attach the membrane to the granite bedrock. This allowed the applicator to maintain similar production rates throughout all areas of the project, regardless of the application (i.e. caverns, cross passages, running tunnels, etc.).

RESULT:

The project was successful due to support from CETCO, quality installation from the Approved Applicator, and positive collaboration with the owner and construction team. The CETCO team provided exceptional technical oversight and assistance, which allowed the applicator to surpass installation expectations from both a quality and schedule standpoint.

With this successful installation, CETCO significantly increased its knowledge of infrastructure projects through one of the most technically-challenging infrastructure projects in the world.