

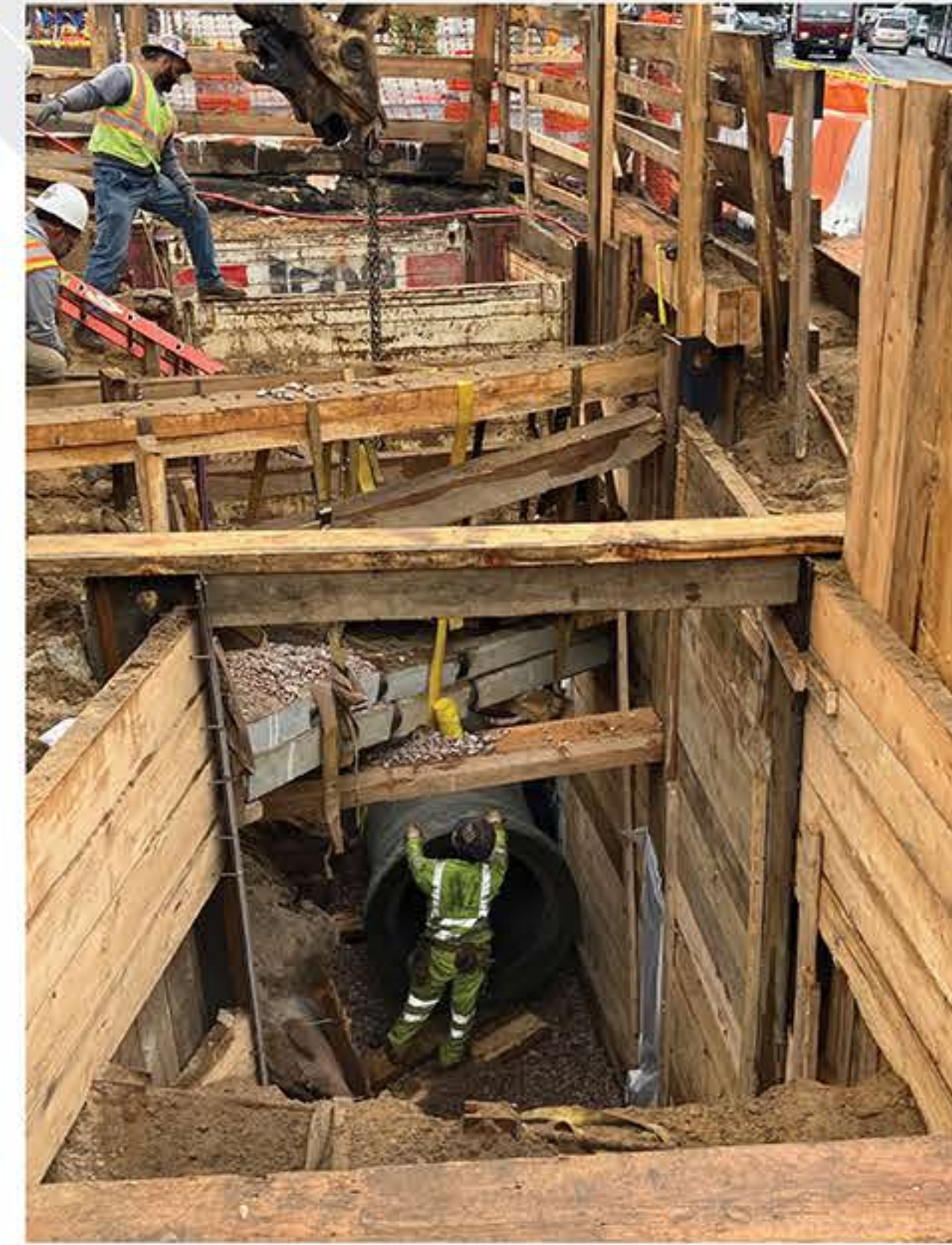
Infrastructure and Safety Improvements, Plus Landscaping for EMPIRE BOULEVARD

BROOKLYN
NEW YORK

The Firm provided engineering services for this special infrastructure project to address and resolve the most dangerous 10% of Brooklyn streets in Crown Heights, which happens to be a portion of Empire Boulevard, in order to make it safer for pedestrians to cross the streets. The work for this important project included constructing Greenstreet Triangles throughout the project, providing safety improvements such as bulb-outs, ADA-compliant pedestrian ramps, updating and replacing the aging underground infrastructure, and planting trees for cleaner air. The project has two separate locations along Empire Boulevard.

The infrastructure was vastly upgraded with a new, larger capacity combined sewer system to reduce the flooding in the area, install new water mains, and roadway improvements to make it safer for both vehicles and pedestrians. Now the entire area of the project has ADA-compliant ramps. Another safety aspect of the project involved the design of a retaining wall and ornamental railing for pedestrian safety on Franklin Avenue. The design addressed the relatively steep slope between a sidewalk and the adjacent McDonald's parking lot. Other work included tree mitigation and tree planting in the newly-built Greenstreet Triangles throughout the project area.

The combination of this upgraded infrastructure, building of Greenstreet Triangles throughout the project area, and design of street safety has greatly improved the aesthetics of the area. Most importantly, this completed project will save hundreds of lives by providing safer and widened sidewalks for pedestrians passing through the area for many years to come.



POST-CONSTRUCTION



PRE-CONSTRUCTION



POST-CONSTRUCTION



POST-CONSTRUCTION

Project: Infrastructure and Safety Improvements, Plus Landscaping for Empire Boulevard Brooklyn, NY

Client: **NYC DDC** Department of Design and Construction Long Island City, NY

Entrant: **KSE** KS Engineers, P.C. New York, NY