

CASE STUDY

280 Richards Street

Brooklyn, New York



PROJECT PARTNERS

Engineer

Langan – Parsippany, NJ

Driving Contractor

American Pile and Foundation, LLC –
Somerville, NJ

PRODUCTS

Sheet Pile: NZ 19 sheet piles (200 tons),
NZ 26 sheet piles (1,880 tons), SKZ sheet
piles (250 tons)

Threaded bars: #24 threaded bars
(approximately 5,000 linear feet)

Walers: 2,000 feet

HISTORY

The Revere Sugar Company was once one of the largest and most powerful sugar companies in the United States. It ended up headquartered in Brooklyn, NY, on the waterfront, where the ships that helped get the sugar from NY to other parts of the world could easily dock. Brooklyn, once the sugar capital of the US, is going through a renaissance, with older buildings being repurposed.

The buildings of the now-defunct Revere Sugar Company are part of that growth and renewal. The 8-acre man-made site is being completely revamped and will be home to a new Amazon warehouse.

PROBLEM

The crib wall that stood at the waterfront needed to be replaced to shore up the land for the new buildings. Years of storm surge and

other natural occurrences had taken their toll on the bulkhead.

SOLUTION

Langan, an engineering and environmental consulting service, provided the civil engineering, including surveying services, for this redevelopment project. The project included the replacement of the existing wall, along with construction of the new buildings.

American Pile and Foundation, was subcontracted to build a new bulkhead wall to replace the current crib wall. They reached out to Nucor Skyline for the steel products needed for the new bulkhead.

Nucor Skyline worked with American Pile and Foundation to manufacture the products needed. Nucor Skyline supplied both NZ 19 and NZ 26 sheet piles, SKZ sheet piles for a deadman wall, approximately 5,000 linear feet

of #24 threaded bars, and 2,000 feet of walers for the 1,800 linear foot bulkhead wall.

American Pile utilized a Manitowoc 888 crawling crane and an ICE 50B vibratory hammer to drive the sheets at the site. Once driven, they took precise measurements for the fabrication of the walers, to be delivered by Nucor Skyline.

Nucor Skyline worked on the fly to produce custom-made walers from the measurements that were provided by American Pile. With their own in-house engineering group to double-check measurements and create drawings, Nucor Skyline could assure their partner of the correct and accurate placement of the tie backs.

American Pile completed the project safely and ahead of the initial schedule.