NUCOR® SKYLINE

CASE STUDY

Jenkinson's Pavilion

Point Pleasant Beach, New Jersey

HISTORY

On October 29th, 2012, a storm that had been slowly making its way from the Caribbean, turned westward due to a cold air mass off the coast of New Jersey, and made land in Atlantic City, NJ. Superstorm Sandy, as the storm was known, packed winds of 80 miles per hour as it hit the coast.

Flash flooding from the storm's relentless rainfall, high winds, and coastal storm surges killed 147 people and produced widespread property damage. An estimated 8.5 million people lost electrical service as a result of the storm. Several cities and towns along the Atlantic coast of New Jersey and New York were devastated. The storm surge was amplified by the full moon that occurred on October 29, causing higher than usual tides.

Along the coastline of New Jersey, damage was extensive. Part of Atlantic City's world-famous Boardwalk was destroyed, as well as the boardwalks of Seaside Heights, Point Pleasant, and other seaside cities, including many coastal developments along New Jersey's shoreline.

PROBLEM

The effects of Superstorm Sandy continue to be felt today. Jenkinson's Pavilion, in Point Pleasant Beach, NJ, is still rebuilding, and one of the projects that will help prevent such devastation with the next storm is a continuous storm surge protection wall that is being built along the boardwalk.

Burke Construction, located in Ocean Township, NJ, was awarded the project for the wall at Jenkinson's Pavilion, and reached out to Nucor Skyline for their years of experience with storm surge protection systems along the East Coast, as well as other regions of the United States.

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PROJECT PARTNERS

Owner
Jenkinson's Pavilion –
Point Pleasant, NJ

General Contractor
Burke Construction Inc. –
Ocean Township, NJ

PRODUCT

Sheet Pile: SKZ 20 cold formed sheet piles (1,200 tons)
Connectors: SKLC-90 x 30 foot corner connectors

PROJECT TIME FRAME

August 2019 to May 2020

SOLUTION

Initially, the storm surge protection wall was specified to use Nucor Skyline's AZ 18 sheet piles. However, the AZ 18 sheet piles were no longer a stocked item, so the engineering department at Nucor Skyline came up with an option to save time and money on the project by using cold formed SKZ 20 sheet piles. Cold formed sheet piles are wide, efficient, and allow for a greater swing angle than hot rolled sheets. Nucor Skyline's cold formed sheet piles are produced from steel coil, making the rolling schedule more flexible than hot rolled sheets.

Burke Construction felt comfortable going with the cold formed sheets because of the 20-year history Nucor Skyline has in manufacturing these sheets and the relationship that they've built with Nucor Skyline over the years.

The SKZ sheet piles, manufactured in Nucor Skyline's Belpre, OH facility, were coated with coal tar epoxy on the upper 10 feet to prolong their life. The sheets were driven into the sandy soils of the beach using both an RT19 Bauer pile driving rig and a Hercules side-grip vibratory hammer.

The sheet piles for this project required the use of 55 trucks to ship from the Ohio facility to the jobsite in New Jersey. Nucor Skyline provided on-time delivery, engineering support, and project management throughout the process, making them a True Project Partner.