

Executive Summary

Southport Truckaway Vehicle Storage Lot
Category I

In 2012, Superstorm Sandy tore through the US causing billions of dollars in property damage. In Philadelphia, land along the Delaware River was flooded under several feet of water. Just a few years later, the busy Southport Auto Terminal was using this dirt and gravel lot just two feet above high tide to store thousands of new vehicles.

As an integral part of Pennsylvania's \$300-Million Port Development Plan, the Philadelphia Regional Port Authority (PhilaPort) engaged WBCM to develop a multi-faceted land development design to expand and optimize operations at the site.

Whitney, Bailey, Cox & Magnani, LLC was tasked with the redevelopment of 75 acres to accommodate vehicular movement and storage, a new Vehicle-Processing-Center, and a new Truckaway Dispatch zone. It was crucial that the existing site be elevated for protection from the 100-year floodplain.

Whitney, Bailey, Cox & Magnani, LLC innovative and client-driven solution provided an efficient, durable facility that maximized the development footprint. The design required the systematic importing of over 400,000 cubic yards of fill to elevate the surface and incorporated a state-of-the-art system of underground Aqua-filter® water-quality treatment chambers that removed pollutants and sediment from stormwater flow. Whitney, Bailey, Cox & Magnani, LLC also integrated four outfalls, into the existing concrete and timber seawall with Tide-Gates designed and installed to prevent backwater during high-tide and flooding into the stormwater management system.

This \$24 million dollar Improvement project was completed over a 33-month span and divided into two Base Bid Phases and six Alternate Bid Phases. The reconstruction was completed without disrupting day-to-day operations of the terminal.