

Seawall Repair & Soil Stabilization for a Commercial Property



SEAWALL REPAIR & SOIL STABILIZATION FOR A COMMERCIAL PROPERTY

Stratford, CT | September 2022

Project Overview

A commercial property with a four-foot-high seawall was experiencing severe storm surge and water overflow. Each time waves overtopped the wall, soil and grass on the landward side eroded, weakening the property's shoreline protection and creating long-term stability concerns. Savy & Sons was contracted to provide a comprehensive seawall repair and soil stabilization solution to protect the property from ongoing erosion, extend the life of the structure, and safeguard the surrounding landscape.

The Challenge

Erosion from Storm Surge: Water surging over the wall consistently washed away soil and turf. **Unstable Soil Conditions:** Initial testing revealed spongy, loose soil behind the seawall that could not provide adequate support. **Irrigation System Navigation:** The property's lawn featured a complex irrigation system that needed to be carefully mapped and avoided during soil injections. **Large Landscape Features:** Surrounding boulders and established landscaping required precise drilling and injection placement to prevent damage.

Our Solution

To address these challenges, Savy and Sons implemented a targeted soil binding and stabilization process using Acrylate material.

- 1. Stem Application & Grid Drilling** – We drilled holes in a strategic grid pattern behind the seawall. Acrylate material was injected directly into the soil to bind particles together, preventing further erosion and water washout.
- 2. On-Site Soil Monitoring** – All injections were performed and monitored in real time. Our team was able to adjust as needed, ensuring complete coverage without the need for return visits.
- 3. Landscape & Utility Protection** – The irrigation system was fully mapped before drilling to avoid damage. Extra care was taken around large stones and landscaped features to preserve the property's aesthetics.

Results

The project was a complete success. Once injections were completed, the soil behind the seawall transitioned from spongy and unstable to firm and compact, demonstrating immediate stabilization. This strengthened soil will now resist future storm surge and water washout, preventing erosion and protecting the structural integrity of the wall. Equally important, the client's irrigation system and landscaped features were left untouched, ensuring the property's functionality and curb appeal remained intact. Best of all, the entire solution was completed in a single mobilization, eliminating the need for any return visits and minimizing disruption to the commercial property.

Key Takeaways

This project demonstrates that effective sea wall repair extends beyond the structure itself—soil stabilization is essential for long-term protection against erosion and storm surge damage. For commercial properties in particular, proactive erosion control safeguards not only the shoreline but also valuable landscaping and infrastructure investments. By delivering a tailored solution with minimal disruption, Savy & Sons once again reinforced its reputation as a leader in commercial sea wall stabilization and repair.

