SEAWALL REPAIR NETWORK

Case Study

Repairing a Marina Seawall in Venice, Florida



Soil depressions behind 655 linear feet of marina seawall, settling walkways, voids in asphalt roadways, cracking concrete, sinking boat cranes, and premature failure of infrastructure are just a few things that the Crows Nest Marina in Venice, Florida reached out to us for help with. Helicon (of Tampa Bay/Saint Petersburg, Florida) is a Seawall Repair Network preferred marine contractor. They were called to the marina and immediately performed a comprehensive seawall assessment and overall geotechnical evaluation. Helicon's crew examined all of the damage caused by soil erosion, soil migration, soil sheering, and void formations related to the seawall. The technicians identified the aging seawall as the root cause of most of the damage. Specifically, the seawall was allowing soil on the landward side to migrate into the water through defects in the structure. Subsequent soil instability on the landward side then caused damage to ancillary structures (i.e., roadways, concrete, boat cranes, and some of the buildings).

Repair Materials

The crew repaired the structure with Seawall Repair Network's proprietary repair material SW-RP1. This high-strength resin is environmentally friendly and ideal for filling voids, stopping leaks, and stabilizing the supporting soil around seawalls.

Procedures

Helicon technicians executed Seawall Repair Network's proprietary seawall stabilization process to restore strength and integrity to the structure. Once the seawall was permanently stabilized and sealed to prevent further soil erosion, the Helicon team then addressed the remainder of the marina's infrastructure repair needs (i.e., slab lifting, void filling under slabs, etc).

Results

In the end, the team at Helicon was able to provide permanent solutions that were critical for the preservation of the property. And they were able to provide this service at about 70% to 80% less than the cost of replacing the damaged structures.