



Varying bottom conditions necessitated the use of several pile driving techniques, including the use of impact and vibratory hammers, and auguring. In all, the marina features 113 slips ranging in size from 24' to 62' long, and can accommodate several larger boats along the wave attenuator.

The new owners of Heron Harbor Marina (formerly Penn's Beach Marina) in Havre de Grace, MD, had a vision, a vision that included a state-of-the-art marina to accompany their luxurious, waterfront condominiums on Chesapeake Bay. However, to realize this vision, serious work needed to be done. Although still popular with local fishermen, the existing facility had long since fallen into disrepair.

Boardwalk

The job also included a timber boardwalk and decorative paved sidewalk – a continuation of the Havre de Grace Promenade, a pedestrian walkway that meanders through the City Yacht Basin and neighboring museum area. Founded on timber piles, the 300' long boardwalk extended into the river to create a crabbing/fishing pier.

client:

Penn's Beach Marina, LLP, Inc.
Havre de Grace, MD

project:

Heron Harbor Marina
Havre de Grace, MD

engineer:

Frederick Ward Associates, Inc.
Bel Air, MD

Dredging

The first order of business was to dredge 5,000 CY of silt, clay and gravel from the bottom of the boat basin, along with 2,500 CY of landside excavation.



Bulkhead & Stone Revetment

The inside perimeter of the basin was lined with over 2,000 LF of dilapidated bulkhead that was replaced with a new, steel and timber structure. In addition, over 13,000 tons of stone revetment was installed along the toe of the bulkhead and adjacent shoreline. A concrete culvert passing through the bulkhead to the bay, facilitated flushing of the basin.

Floating Docks

Over 16,000 SF of floating docks and wave attenuator were assembled, and secured with a combination of steel and timber piles.



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