

MARINE AND WATERFRONT FACILITIES

PSM's experience in the design of waterfront structures spans more than three decades. In addition to timber and concrete decks supported by steel, timber and concrete piles, our experience includes the design of floating structures, dolphins, bulkheads, and boat ramps. We have designed many facilities for the fish processing industry, most of which included provisions for berthing large and small ships, decks with heavy wheel loads, and pile-supported warehouses and sheds. Some of our representative projects are the following:

BORNSTEIN SEAFOODS FISH PROCESSING FACILITY Astoria, Oregon USA



This facility, located at the mouth of the Columbia River on the Pacific Ocean, processes crab, shrimp, and other ocean catch. In addition to processing and



cold storage, the plant includes retail and visitor accommodations

HIGHLINE COMMUNITY COLLEGE PIER REHABILITATION Seattle, Washington USA

PSM originally repaired earthquake damage to this valuable pier on Puget Sound, near Seattle. We then designed new facilities supported by the pier, which is used by a local college.



Marine and Waterfront Facilities (continued)

PIER 57 REHABILITATION AND RENOVATION Seattle, Washington USA

PSM has performed various engineering services for this historic pier, including underdock repair of storm-damaged and deteriorated piling, design of a new access walk and cruise ship berthing pier, rehabilitation of the heavy timber superstructure, and investigation of the structure for new loads.



PIER 86: GRAIN CONVEYOR TOWERS EVALUATIONS AND UPGRADES Seattle, Washington

PSM designed several frames and hoists at this extensive facility, owned by the Port of Seattle and operated by Louis Dreyfus. Most recently we aided in the investigation of a failed grain conveyor tower, and climbed and reported on the condition of all five towers at the site.



PORT OF EVERETT 12TH STREET MARINA BUILDING Everett, Washington

This recently constructed building serves as the Harbormaster's Office. Poor soils necessitated special foundation design. Features included framing to accommodate sight lines for security.

