

Waterfront Construction, Inc.
Project Description & Construction Sequence
Pritt, Melanie – New Joint Use Dock

A. Project Location

The project is located on the property line between two single-family residences. The project site is located at 6025 SE 32nd St. AND 6027 SE 32nd St., Mercer Island, WA 98040. The project lot sizes are 25,278 s/f and 16,450 s/f respectively. The properties are situated in the SE Quarter of Section 11, Township 24, Range 04 at 47.5811 N Latitude and -122.2498 W Long. Tax lot# 3708900042 & 3708900040 respectively.

B. Project Description

Construct a new 650.75 s/f joint-use dock with a concrete shore mount. Proposed ACZA-treated glu-lam beam fixed pier construction with 2x4" nailers, 2x6" joist, 2x6" rim joist, 3x4" ledgers, and galvanized "I" cap beams. Piles driven will include (2) 4" steel pin piles, (2) 6" steel piles, and (10) 8" steel piles. All piles will be epoxy-treated. Decking will be fully grated molded plastic with stainless steel screws to allow 40% light transmittal. New dock accessories to be installed include (28) vertical fenders, (14) cleats, and (1) safety/swim ladder. Install two (2) new boat lifts.

C. Construction Technique & Sequencing

1. Pre-Fabrication

All construction materials will be loaded onto the crane barge in the contractor's Seattle yard and transported to the site for installation.

2. Site Preparation

The site requires no preparation prior to construction.

3. Onsite Construction

- The proposed dock will be prefabricated and transported from the contractor's Seattle yard to the site via barge.
- Total proposed footprint 650.75 s/f.
- Drive two (2) 4" epoxy-treated steel pin piles to the point of refusal.
- Drive two (2) 6" epoxy-treated steel piles to the point of refusal.
- Drive ten (10) 8" epoxy-treated steel piles to the point of refusal.
- Install galvanized "I" steel cap beams.
- Using a barge crane, hoist dock sections into place and bolt to cap beams.
- Install twenty-eight (28) vertical fenders 6' o/c and fourteen (14) cleats 12' o/c.
- Install one (1) new s/s ladder.
- Install two (2) new boat lifts during next work window.
- Collect construction debris and place on barge for upland disposal.
- Mobilize to WCI Seattle yard.

See attached plans for reference.

4. Equipment used

All construction equipment and materials used in this project will be stationed on the construction barge.

5. Materials used

Materials used during construction will consist of molded plastic grated decking, epoxy-treated steel piling, galvanized steel cap beams, ACZA-treated timber, and stainless/hot-dip galvanized hardware.

6. Work Corridor

The construction barge will operate offshore to avoid bottom and shoreline disturbances that could occur with ground-based equipment. All staging will take place on the barge.

7. Staging Area

The barge will hold all construction materials during the project and all construction debris will be held in a 20 c/y steel debris container that is secured on the barge for upland disposal later.

8. Running of Equipment During Construction

Equipment will be running off and on during the construction phase, only when required, and only during allowed work hours.

9. Clean-Up

All construction debris will be removed and loaded into a 20 c/y steel debris container secured on the construction barge during construction. Debris is then transported by barge to the contractor's Seattle yard, off-loaded, and shipped to an approved upland disposal site.

10. Project Timing

All proposed construction will take place during daylight hours in approved work windows unless work needs to be coordinated with evening hours to facilitate construction in the approved work window.

11. Duration of Construction

On site construction will take between two to four weeks.