

# Applicant Information

Project Address: 6855 W. Mercer Way, Mercer Island, WA 98040

Parcel Number: 2524049080

Applicant: Seaborn Pile Driving Co, 1080 W Ewing Pl #300, Seattle, WA 98119 206-236- 1700

Property Owner: Marty Lott

Legal Description: CONSOLIDATED LOT PER MERCER ISLAND LOT CONSOLIDATION # MI SUB 09-004 REC# 20091202900012 SD LOT DAF- LOT C-3 TGW UND INT IN TR X MI SP #85-06-16 REC #8511139001 TGW LOTS A & B MI SP #MI-79-03-08 REC #7911130595 BEING POR N 1/2 GLS 2 & 3 & S 1/4 OF GL 1 LY W OF MERCER WAY & NELY OF MCLEAN ADD TGW SH LDS ADJ

Description of Work:

We propose to remove 289 sqft of the existing dock, remove the existing moorage cover, relocate the existing boat lift, repair 259 sqft of the existing dock, install 263 sqft of new dock, drive (12) new piles, remove (16) existing piles, repair (4) existing piles, and drive (1) new mooring pile.

## Job Specific Comments

### Purpose

The proposed dock is to provide safe boat moorage and safe water recreational activities for a single-family residence.

### Habitat Enhancement

The proposed planting plan has been designed to mitigate the existing and proposed pier.

### Water Quality

In order to prevent debris from entering the lake during the demolition stage of the project, a containment boom will surround the crane barge and work area.

## Permits

Mercer Island Substantial Development Permit:

We are applying for the permit to be reviewed under the:

“Development Standards for New and Expanded Moorage Facilities” per MIMC 19.13.050(F)(1).

## Permits

The non-conformity created by the consolidation of parcels under SUB09-004 may continue under 19.01.050 - Nonconforming structures, sites, lots and uses.

### A.General.

#### 1.Purpose.

The purpose of this section is to allow for the continuance and maintenance of legally established nonconforming structures, sites, lots and uses, and to provide standards delineating the circumstances in which nonconforming structures, sites, lots and uses must be brought into conformance with the provisions of all applicable code requirements.

## Mitigation

Shoreline Plantings: The shoreline plantings have been designed to provide the spread of tree and shrub nutrients into the adjacent waters of Lake Washington.

Fully grated deck: The proposed dock will have a fully grated deck to provide light penetration below the dock where there is no light penetration with the existing structure.

Piles: The proposed pier has been designed to maximize the distance between pile bents and minimize the number of piles. The proposed 8" piles meet local building codes and reduce the pile footprint.

## Contact

Contractor: Seaborn Pile Driving Company License #: SEABOPD942CG

Address: 1080 W Ewing Pl #300, Seattle WA 98119

Office: 206.236.1700

Contact: Zion Napier

Email: [permits@seabornpiledriving.com](mailto:permits@seabornpiledriving.com)

# Construction Narrative

## Mobilization

1. Mobilize crew, crane barge, supply, and material barge to the site.

## Pile Repair Standard Pile Sleeve Method

2. Set out a Sediment Containment Curtain around the work area waterward of the bulkhead to contain any silt and debris that may be generated during construction.
3. Cut the pile below the waterline until you reach good wood.
4. Attach the epoxy-coated steel sleeve to the existing stub with epoxy-coated steel thru-bolts and nuts.
5. Confirm the pilings are straight and solid.

6. Cut the pilings to elevation.
7. Attach the new pile repair to the existing pile cap.
8. Clean the work area and remove the sediment curtain.

#### Pile Removal (dock and mooring)

1. Set out a Sediment Containment Curtain around the work area waterward of the bulkhead to contain any silt and debris that may be generated during construction.
2. Attach a chain to the base of the existing pile.
3. Using the crane, pull the pile from the lakebed and place it on the debris barge for disposal in an approved upland disposal site.
4. If unable to pull, use an underwater chainsaw, and cut the pile at the mudline.
5. Clean the work area and remove the sediment curtain.

#### Pile Driving

1. Set out a Sediment Containment Curtain around the work area waterward of the bulkhead to contain any silt and debris that may be generated during construction.
2. Locate the new piles to be driven per the building permit drawings.
3. Using the crane and a vibro-hammer, drive the piles to the required refusal.
4. Cut the piles to elevation.
5. Clean the work area and remove the sediment curtain.

#### Existing pier removal

1. Set out a Sediment Containment Curtain around the work area waterward of the bulkhead to contain any silt and debris that may be generated during construction.
2. Mobilize crew, crane barge, supply and debris barges, and materials to the site.
3. Remove the cleats, fenders, and any other accessory to set aside for re-installation after the deck is installed.
4. Demo the current dock and load all debris onto the debris barge.
5. Tow the debris barge to the yard and dispose of it in an approved upland disposal site.
6. Clean the work area and remove the sediment curtain.

#### Dock construction (Track Dock)

1. Set out a Sediment Containment Curtain around the work area waterward of the bulkhead to contain any silt and debris that may be generated during construction.
2. Install new piles where applicable.
3. Install new steel I-beam pile caps and attach them to the piles by welding.
4. Install metal brackets on the edge of the cap by welding them to the I-beam to support glulam beams.
5. Install dock section made of Glulam Beams and angle iron framing with 2x4 nailers to support the Surestep grated decking.
6. Install the electrical conduit and water lines under the deck along the dock. Wiring and re-connection to be completed by others.

7. Install the SureStep grated decking with epoxy-coated steel screws making sure the screws are aligned and flush with the surface.
8. Install any boat or PWC lifts.
9. Clean the work area and remove the sediment curtain.

## Structural Notes

### General

- All materials, workmanship, design, and construction shall conform to the submitted drawings and the International Building Code.
- The contractor will be responsible for all safety precautions and methods and processes to perform the designated work.

### Design Criteria

- The existing design and construction meet the live load specification of a minimum of 40 PSF.

### Materials

- All materials used in the construction of the dock will be for use on the water and of the highest quality available on the market. All materials will conform to the International Building Code.

For example:

- Steel piles/ Sleeves – ASTM A53 GrB with Devran 261QC low temperate cure epoxy (16 mils) finish coated full length.
- Structural Lumber – All lumber will be graded and marked in conformance with WCLIB standard grading rules.
- Fasteners – All fasteners, bolts, nuts, and nails will be epoxy-coated.
- Decking – The decking will consist of Surestep fiberglass grating which is pet and children- friendly and will provide years of safe and comfortable use.

# Best Management Practices

## Above the Water Line Work

- Seaborn Pile Driving Company will employ one crane barge, one supply, and one debris barge to complete the scope of work. A tug will tow the barges on and off the job site.
- Seaborn Pile Driving Company personnel working in, near, or over the water will at all times wear either USCG approved life vests or work vests as well as hard hats and safety glasses.

## Material Handling

- While at the job site, a floating containment boom will completely surround the work area.
- All removed piles and the existing dock structure will be placed on the debris barge where they will be contained and kept out of the lake.

## Hazardous Materials

- No hazardous materials will be mixed or stored in or near the water. No cleaning of materials will be performed in or near the water.

## Polluting Materials in Water

- Seaborn Pile Driving Company will take extra precautions to ensure materials don't fall into or pollute the water. Any material that enters the water will be removed immediately. Any hazardous material such as oily rags will not be handled near or over the water.
- A spill kit will be employed on the barges at the job site.
- If any pollutants enter the water, Seaborn Pile Driving Company will contact the appropriate agencies and report the spill immediately.

## Material Disposal

- Seaborn Pile Driving Company will dispose of the rotten wood and pile sections in an approved legal disposal site in accordance with all applicable laws and permit requirements.