

Applicant Information

Project Address 7422 E. Mercer Way, Mercer Island, WA. 98040

Parcel Number: 2579500102

Applicant: Ted Burns, Seaborn Pile Driving Company, 9311 SE 36th Street, Mercer Island, Wa. 98040 206-236-1700

Property Owner: Xiangping Ren 7422 E. Mercer Way, Mercer Island, WA. 98040

Legal Description: FLOODS LAKE SIDE TRS LOT C TGW SH LDS ADJ MERCER ISLAND SHORT PLAT NO 81-6-07 REC #8304079001 SD PLAT DAF - ALL LOT 14 & S 35 FT OF 13

Description of Work: Normal repair to an existing shared pier, consisting of permanently removing 720 sq ft moorage cover, remove the inshore 17' X 6' pier section and (13) associated piles, drive (9) wood piles and construct the 40' X 4' pier entrance and a 15' X 6' finger pier extension.

Job specific comments

Purpose

The proposed finger pier is to provide the shared owner with safe boat moorage on his side of the shared dock.

Habitat Enhancement

The proposed planting plan has been designed to mitigate for the proposed finger 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 Exemption Permit:

We are applying for the permit to be reviewed under the “Alternative Development Standards” per MIMC 19.07.110(6)(c).

Per WAC 173.27.040(2)(a)

The proposed extension meets current Shoreline Exemption standards based on a total construction cost of \$6,040 plus sales tax (\$604) for a total cost of \$6,644.00.

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.

Contractor: Seaborn Pile Driving Company License #: SEABOPD942CG
Address: 9311 SE 36th Street Mercer Island, Wa. 98040
Phone: 206.236.2700 Fax: 206.236.2700
Contact: Dustin Howe Mobile: 503.706.1764
Email: dustin@seabornpiledriving.com

Scope of Work

We propose to furnish all labor, material and equipment in order to repair and construct your dock as follows:

Mobilization and existing pile removal

1. Mobilize crew, crane barge, debris barges, and tools on site.
2. Make sure the barges are secure and don't contact the lakebed.
3. Using the crane and a chain, pull the existing support piles from the lakebed and place on the debris barge.
4. Using the crane and a chain, pull the existing unused piles from the lakebed and place on the debris barge.
5. Tow the debris barge to the yard in Seattle and dispose in an approved upland disposal site.

Pile Driving

1. Locate the new piles per the approved building permit drawings.
2. Using a vibratory hammer, drive the wood pile to firm bearing or refusal.
3. Using a laser, cut the piles to elevation.

Dock construction

1. Install new 6" X 8" treated Doug-Fir pile caps to the wood piles with a 3/4" galv drift pin.
2. Attach new 4" X 8" treated Doug-Fir stringers to the pile caps to support the ThruFlow grating.
3. Install electrical conduit and water lines under the deck along the dock. Wiring and re-connection are excluded and to be completed by others.
4. Install the ThruFlow grating with stainless steel "button head" screws making sure the screws are aligned and flush with the surface.
5. Reinstall all cleats, fenders and the swim ladder.
6. Clean the work area.

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 meets the live load specification of a minimum of 60 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:

- Wood piles. The proposed wood pile stub will be Class B (12" @ 3' from Butt) – 40' Douglas Fir pilings per ASTM D-25, treated 1# ACZA per AWPA C-3 and Best Management Practices.
- Structural Steel – All steel plates and beams will conform to ASTM A-53 grade B and either be epoxy coated or galvanized to resist rust.
- Structural Lumber – All lumber will be graded and marked in conformance with WCLIB standard grading rules and will be wood pressure treated with ACZA.
- Exterior Fascia – Consists of custom 2" X 8" select boards treated with CCA and routed at the top to give the dock a finished look.
- Fasteners – All fasteners, bolts, nuts and nails will be hot-dip galvanized.
- Decking – The decking will consist of ThruFlow fiberglass grating which is pet and children friendly and will provide years of safe and comfortable use.

Preservatives

- All wood preservatives to be state approved and will be applied and fully cured prior to installation over the water.
- All hardware and fasteners to be hot dipped galvanized.

Best Management Practices

1. Above the Water Line Work

1. Seaborn Pile Driving Company will employ one each 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.
2. Seaborn Pile Driving Company personnel working in, near or over the water will at all time wear either USCG approved life vests or work vest as well as hard hats and safety glasses.

2. Material Handling

1. While at the job site, a floating containment boom will completely surround the work area.
2. 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.

3. 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.

4. 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.

5. Materials 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.