

# Waterfront Construction

## PROJECT DESCRIPTION & CONSTRUCTION SEQUENCE

### Rosen Dock & Pile Repair

#### **A. Project Location**

The proposed project is located at 5995 SE 30<sup>th</sup> St, Mercer Island, WA 98040. The property is situated within NE Section 11, Township 24, Range 4, at Lat: 47.58337, Long: -122.25223. Parcel #217450-0100 & 217450-0095. The project is on Lake Washington at a private marina. The project lot size is 33,140 s/f.

**Owner** - Douglas Rosen, 5995 SE 30<sup>th</sup> St, Mercer Island, WA 98040

#### **B. Project Description**

This proposal is to replace the decking and fascia on the subject 1,600 square foot dock as well as make repairs to any damaged timbers and repair by splicing new upper sections. In addition, there will be (4) new roof support piles installed as full-length splices or driven and (13) piles repaired by splicing on new upper sections.

(See project drawings for more details.)

#### **C. Construction Technique & Sequencing**

##### **SITE PREPARATION**

There is no site preparation required prior to construction crew accessing site.

##### **1. OFF-SITE PRE-FABRICATION**

None.

##### **2. ON SITE CONSTRUCTION**

- Mobilization of all materials and equipment necessary to perform the work as described. This includes all loading, unloading and handling.
- Remove and dispose of the dock decking fascia and fenders.
- Splice damaged piles as shown on drawings;
- Drive new piles as shown on drawings;
- Install new 4x8 stringers to properly support the grated decking.
- Replace moorage cover with light-penetrating materials.
- Install new decking using light permeable Sunwalk grating.
- Install single IPE 4/4 by 10" hardwood fascia.
- Reinstall the existing cleats and ladders.
- Collect construction debris and place on barge for upland disposal;
- Mobilize to WCI Seattle Yard;

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- Dispose of demolition debris at an approved upland site.

## **3. MITIGATION**

Proposed project contains the following mitigation:

- Portion of pier to be repaired will be fully grated.
- Moorage cover wood roof replaced with translucent polycarbonate material

## **4. EQUIPMENT USED**

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

## **5. MATERIALS USED**

Pier decking is treated wood frame with molded plastic grating. Pile splices will be either treated wood or galvanized steel pipe with galvanized steel splice plates. Roof material for moorage cover will be bronze crystallite or similar polycarbonate material.

## **6. WORK CORRIDOR**

The vessel will operate offshore, and avoid bottom and shoreline disturbances that could occur with ground-based equipment.

## **7. STAGING AREA AND EQUIPMENT WASH OUTS**

All staging area activities will occur on the construction vessel, with no need for equipment washouts.

## **8. STOCKPILING AREAS**

The construction vessel will hold all construction materials during the project.

## **9. RUNNING OF EQUIPMENT DURING CONSTRUCTION**

Equipment will be running off and on throughout the on-site construction phase. All equipment will be kept in good running order and will only be running when required.

## **10. CLEAN-UP AND RE-VEGETATION**

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.

## **11. PROJECT TIMING**

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All proposed construction will take place in approved work windows during daylight hours to facilitate construction. In-water work windows to be determined by USACE and WDFW.

## **12. DURATION OF CONSTRUCTION**

Project expected to be completed in 3-4 weeks.