

# PROJECT INFORMATION

**APPLICANT:**  
MERCERWOOD SHORE CLUB

**DRAWINGS BY:**  
ECCO DESIGN INC.  
7413 GREENWOOD AVE N  
SEATTLE, WA 98103  
206-706-3937

**SITE ADDRESS:**  
4150 E MERCER WAY  
MERCER ISLAND, WA 98040

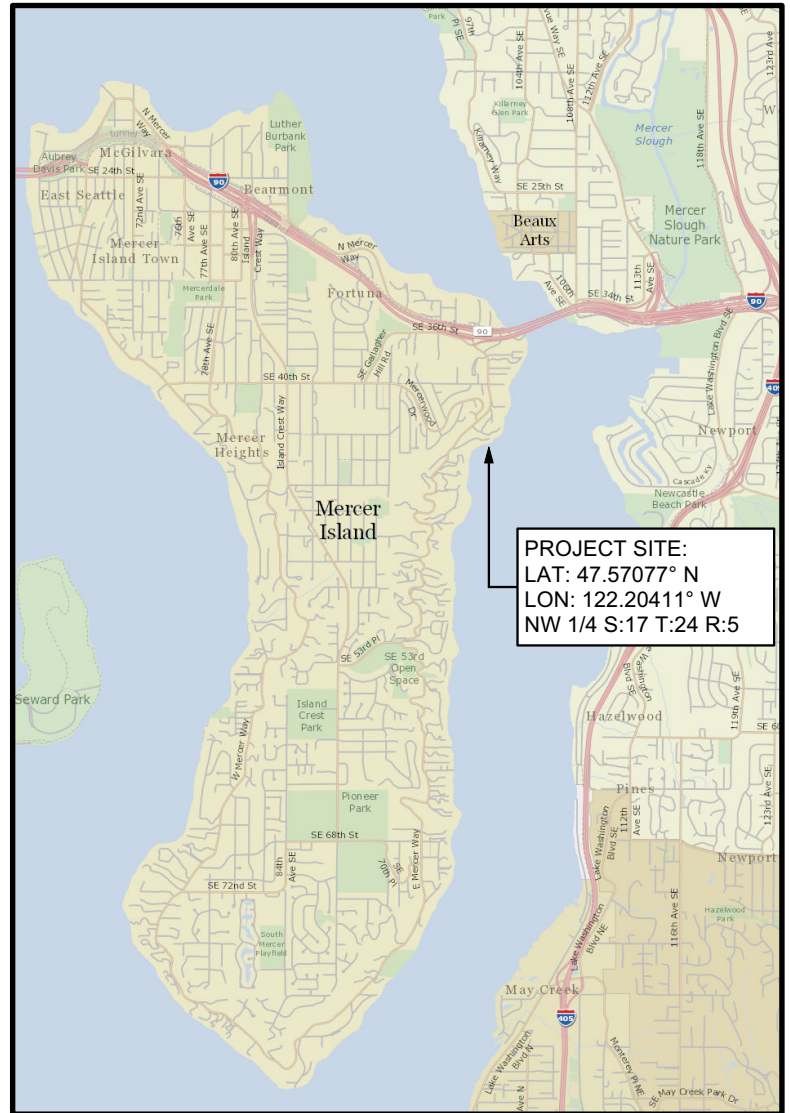
**PARCEL NUMBER:**  
413190-0075

**BODY OF WATER:**  
LAKE WASHINGTON

**LEGAL DESCRIPTION:**  
LAKEHOLM ADD S 60 FT OF 14 ALL 15-16-17 &  
2ND CL SH LDS ADJ & POR VAC ST  
PLAT LOT: 14 TO 17

**PROJECT DESCRIPTION:**  
REPAIR TWO EXISTING PIER BY SLEEVING PILES, RE-FRAMING, AND RE-DECKING WITH GRATED DECKING. A SECTION OF ONE PIER (PIER A) HAS ALREADY BEEN REPAIRED AND THE REMAINING SECTION IS TO BE REPAIRED. INSTALL CONCRETE PANELS FOR AN EXISTING BOAT LAUNCH.

# VICINITY MAP



**REFERENCE:** NWS-2019-972

**DATUM:** C.O.E. Locks Datum

**ADJACENT PROPERTY OWNERS:**

1. Yi Jia
2. Thomas & Kathleen Hatsukami

**APPLICANT:** Mercerwood Shore Club

**LOCATION:** 4150 E Mercer Way  
Mercer Island, WA 98040

**LAT/LONG:** 47.57077°/-122.20411°

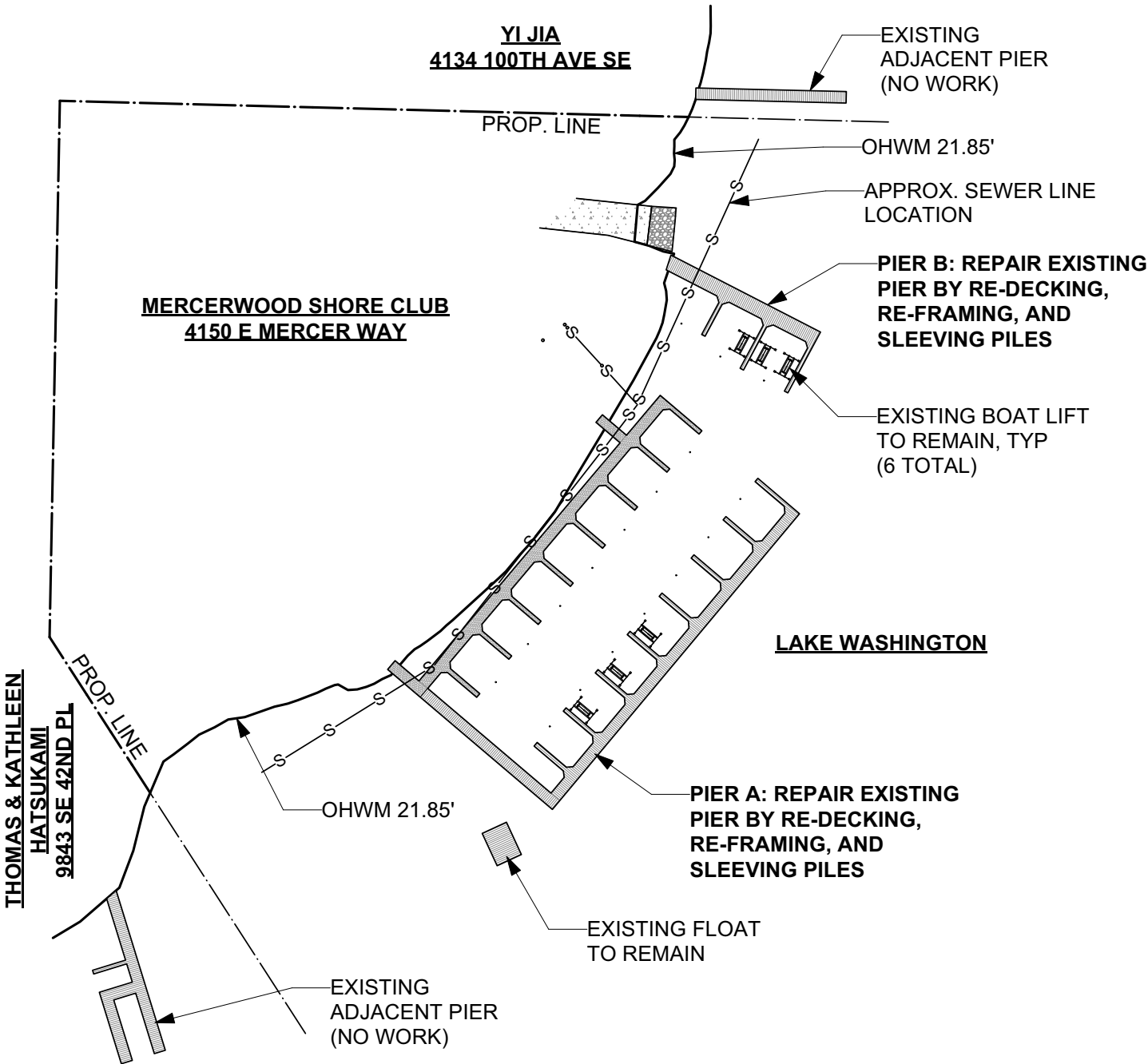
**PROPOSED PROJECT:**

Repair Piers  
**IN:** Lake Washington  
**NEAR/AT:** Mercer Island  
**COUNTY:** King **STATE:** WA

**SHEET** 1 of 16

**DATE:** January 23, 2024

PLEASE NOTE THAT THE SHORELINE CONFIGURATION AND PROPERTY LINE LOCATIONS ARE APPROXIMATE ONLY. PROPERTY LINES ARE BASED ON KING COUNTY GIS.



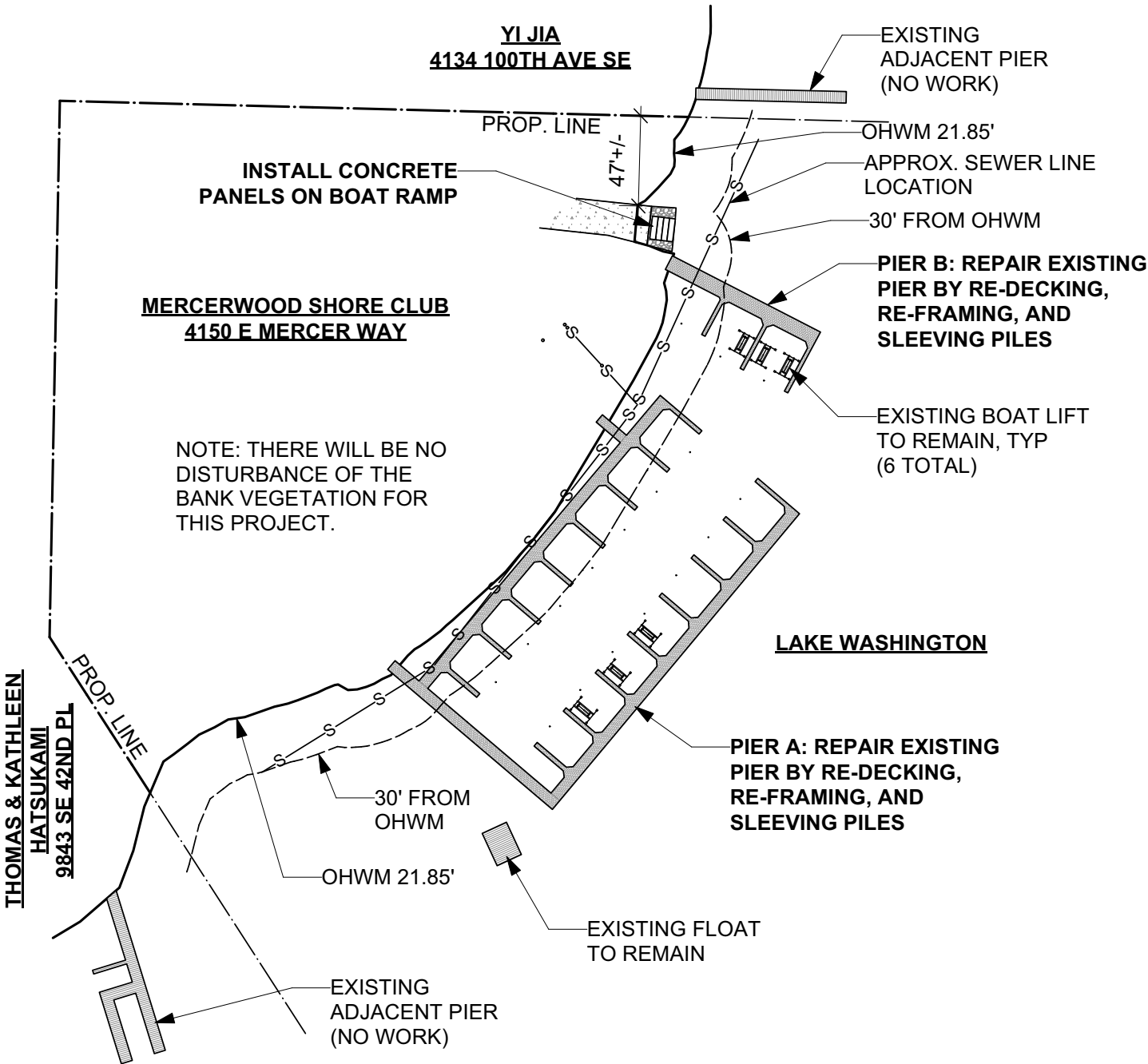
# SITE PLAN (EXISTING)

SCALE 1" = 80'-0"



**Reference:** NWS-2019-972  
**Applicant:** Mercerwood Shore Club  
**Proposed:** Repair Piers  
**Location:** Mercer Island, WA

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**SITE PLAN (PROPOSED)**

SCALE 1" = 80'-0"



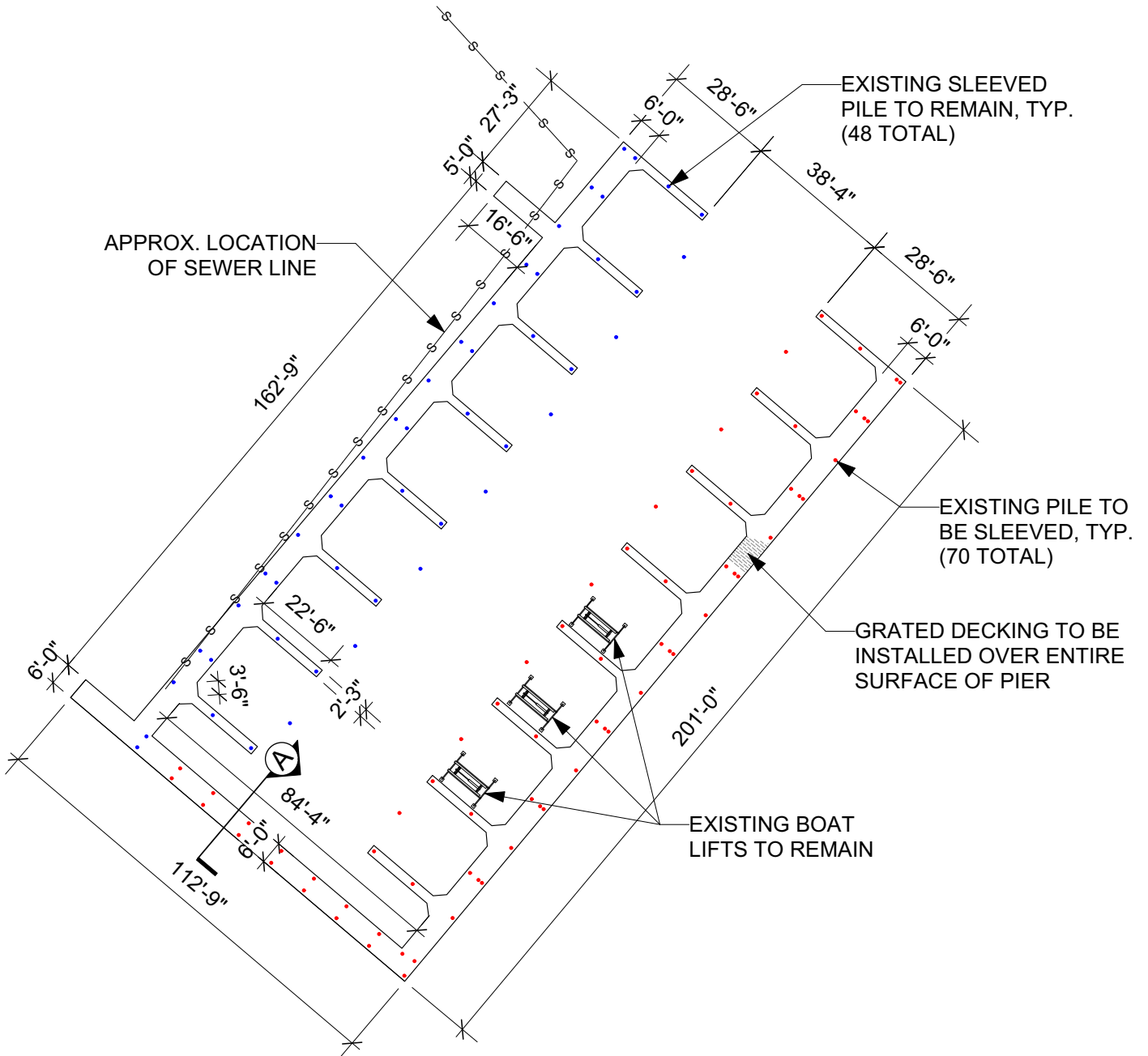
Reference: NWS-2019-972  
Applicant: Mercerwood Shore Club  
Proposed: Repair Piers  
Location: Mercer Island, WA

**PIER A:**

- 63 - PILES TO BE REPAIRED WITH THE PILE AS DETAILED
- 7 - MOORING PILE TO BE REPAIRED WITH THE PILE AS DETAILED
- 41 - EXISTING REPAIRED PILES TO REMAIN (NO WORK)
- 7 - EXISTING REPAIRED MOORING PILES TO REMAIN (NO WORK)
- 3,958 SQ FT - EXISTING OVER WATER COVERAGE

**SKIRTING**

EXISTING SKIRTING IS ALONG THE SOUTHEAST (201') & SOUTHWEST (109.5') WALKWAYS  
201' + 95.5' = 296.5 LINEAR FEET OF SKIRTING TO BE REMOVED





**PIER A - PILE PLAN**

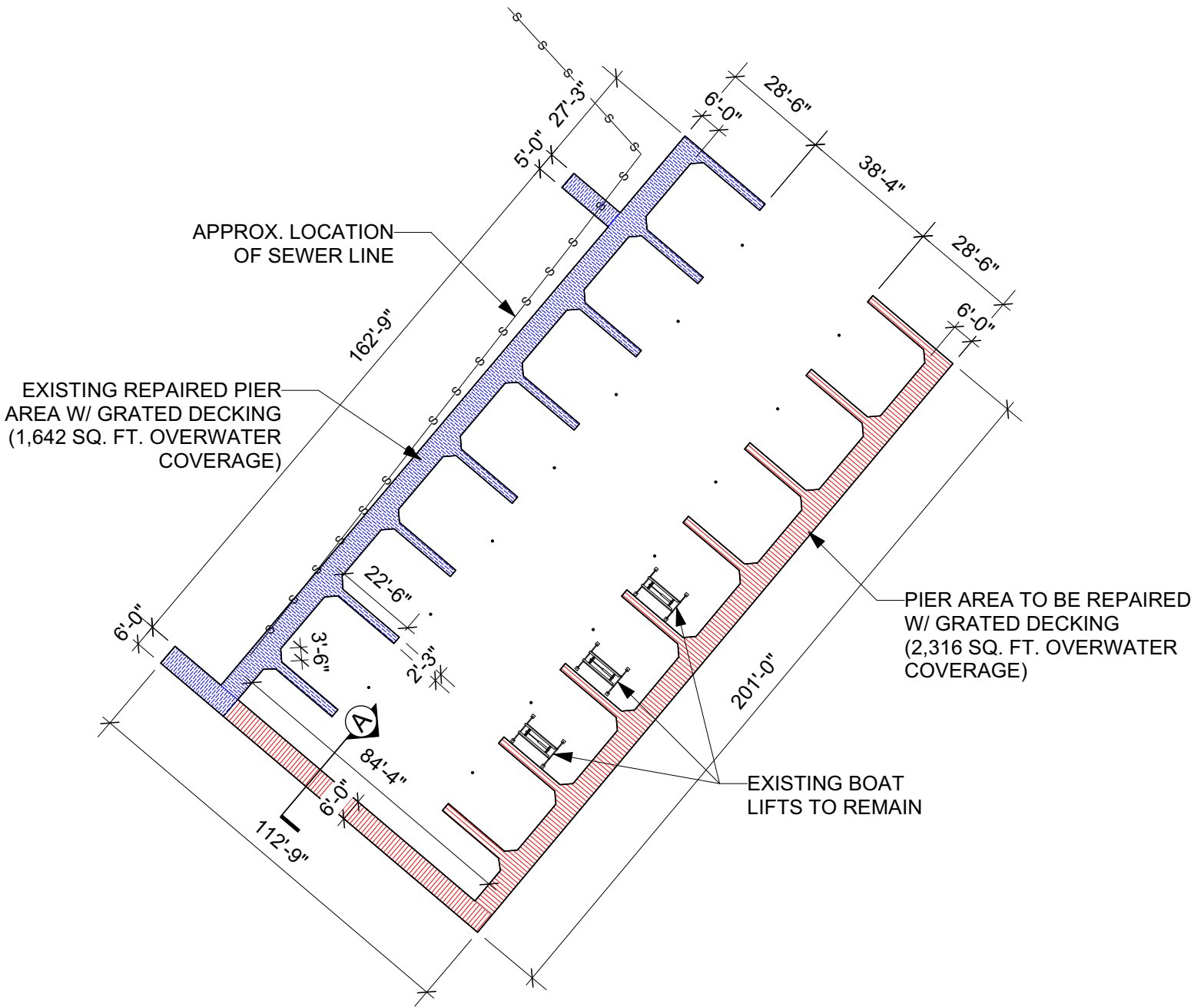
SCALE 1" = 40'-0"



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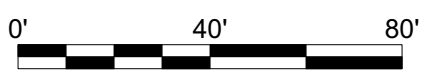
**LEGEND**

-  SECTION OF PIER THAT HAS ALREADY BEEN REPAIRED WITH GRATED DECKING
-  SECTION OF PIER TO BE REPAIRED



**PIER A - REPAIR PLAN**

SCALE 1" = 40'-0"



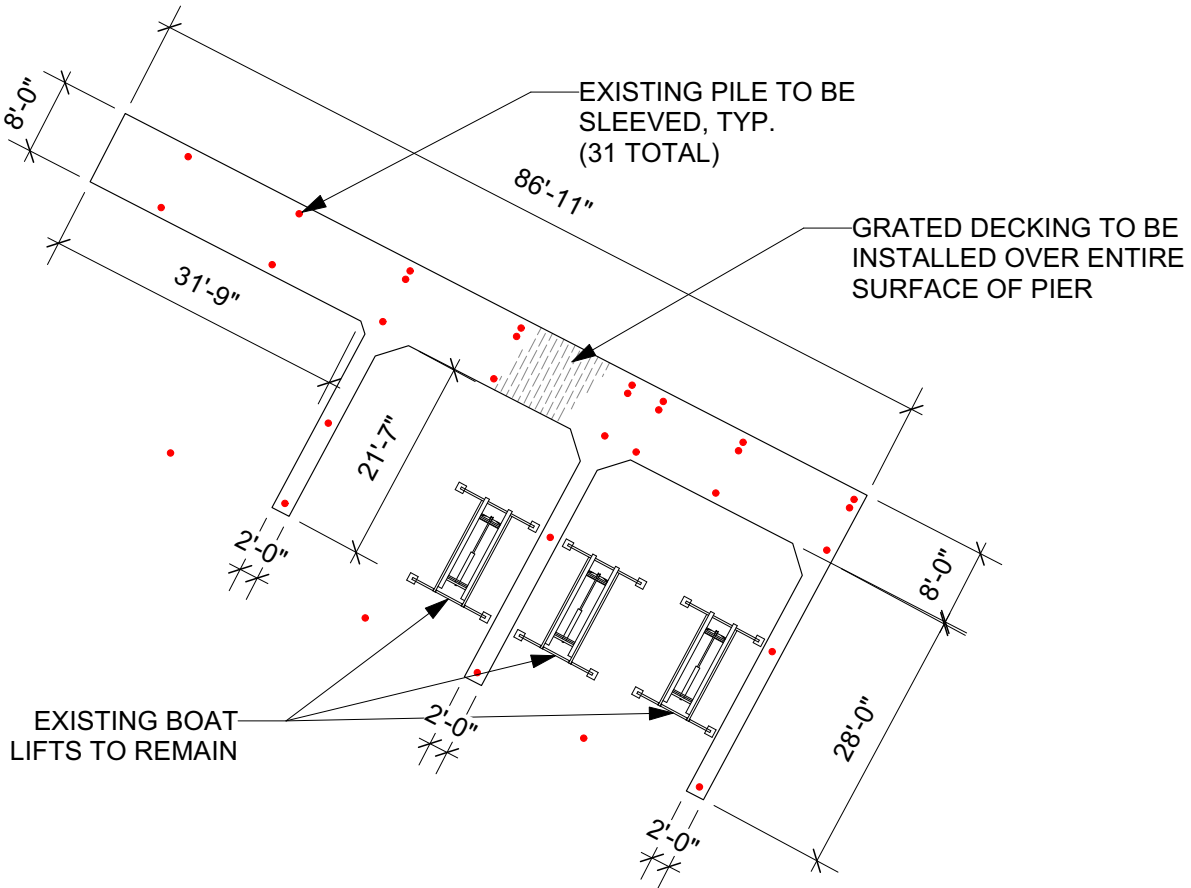
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**PIER B:**

28 - PILES TO BE REPAIRED AS DETAILED

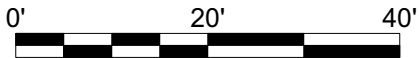
3 - MOORING PILE TO BE REPAIRED AS DETAILED

867 SQ FT - EXISTING OVER WATER COVERAGE

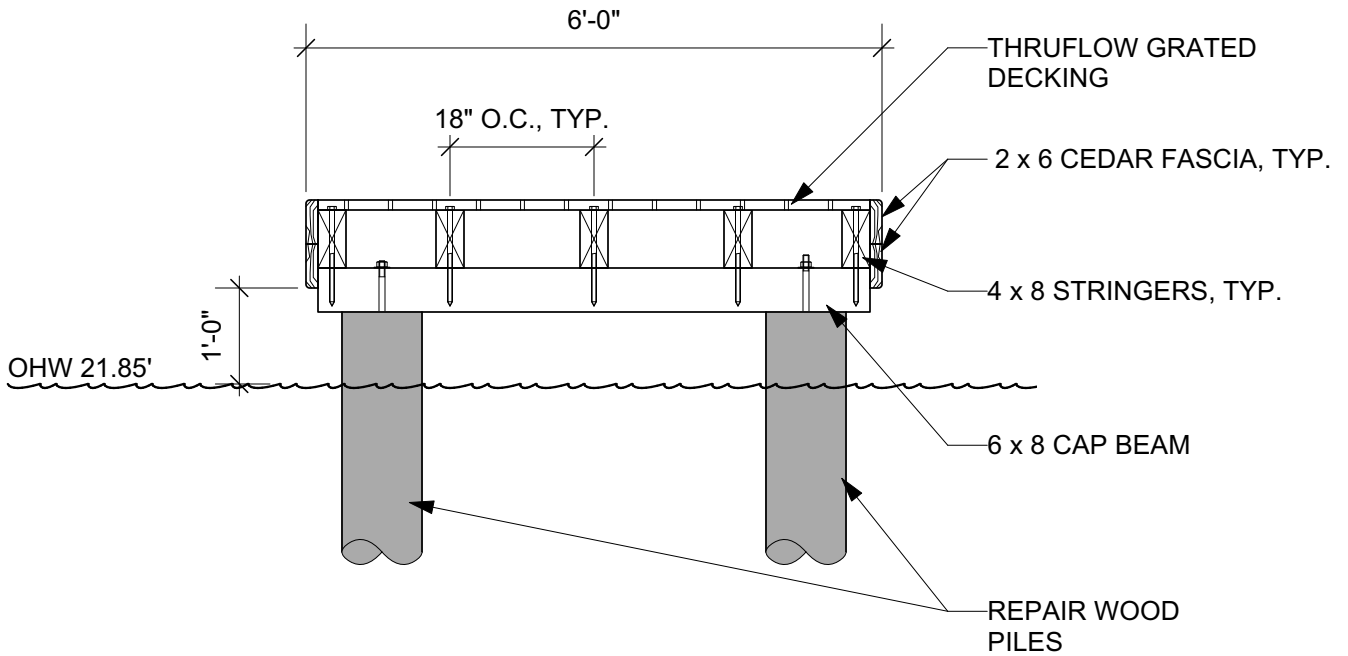


**PIER B - PILE PLAN**

SCALE 1" = 20'-0"



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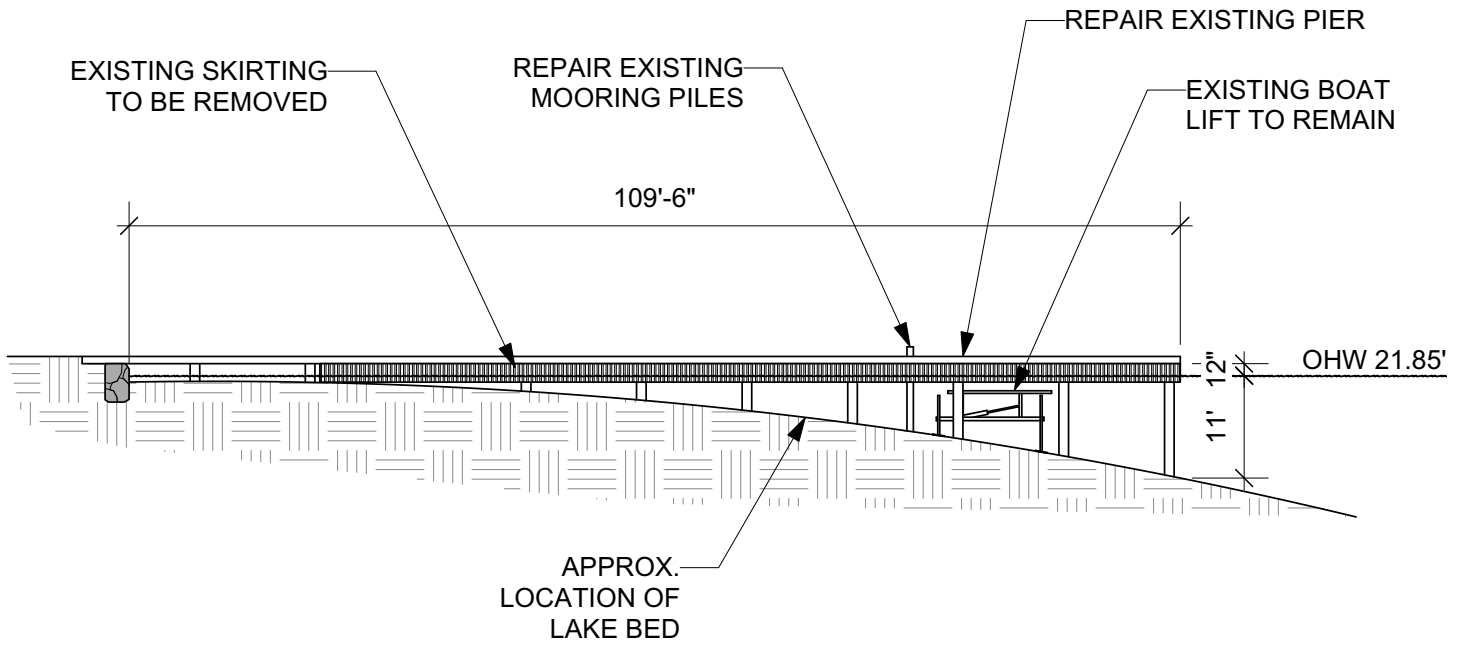


**PIER SECTION A**

SCALE 1/2"=1'-0"



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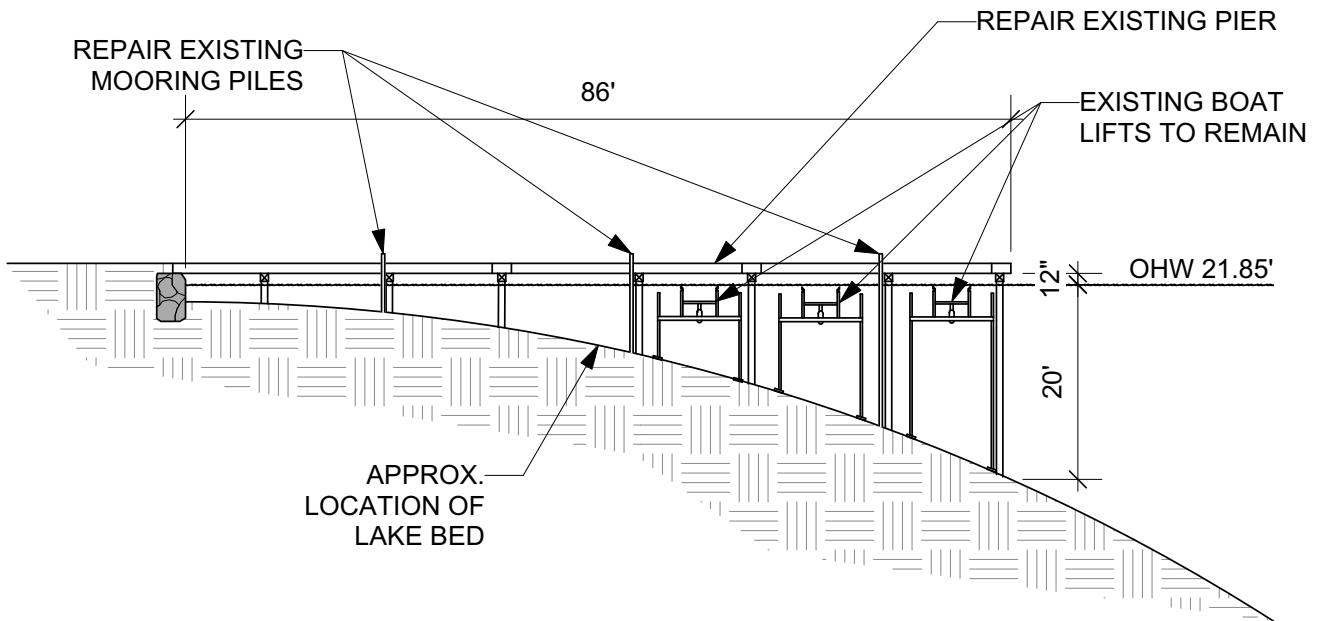
# **PIER A - ELEVATION**

SCALE 1" = 20'-0"



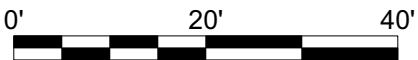
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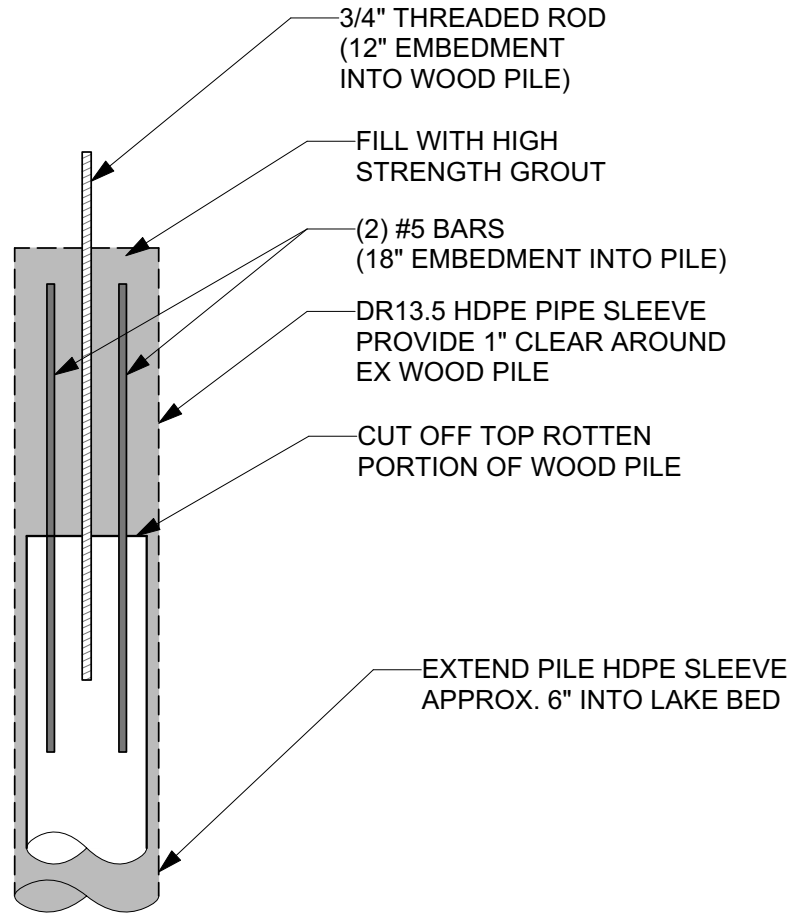


# **PIER B - ELEVATION**

SCALE 1" = 20'-0"



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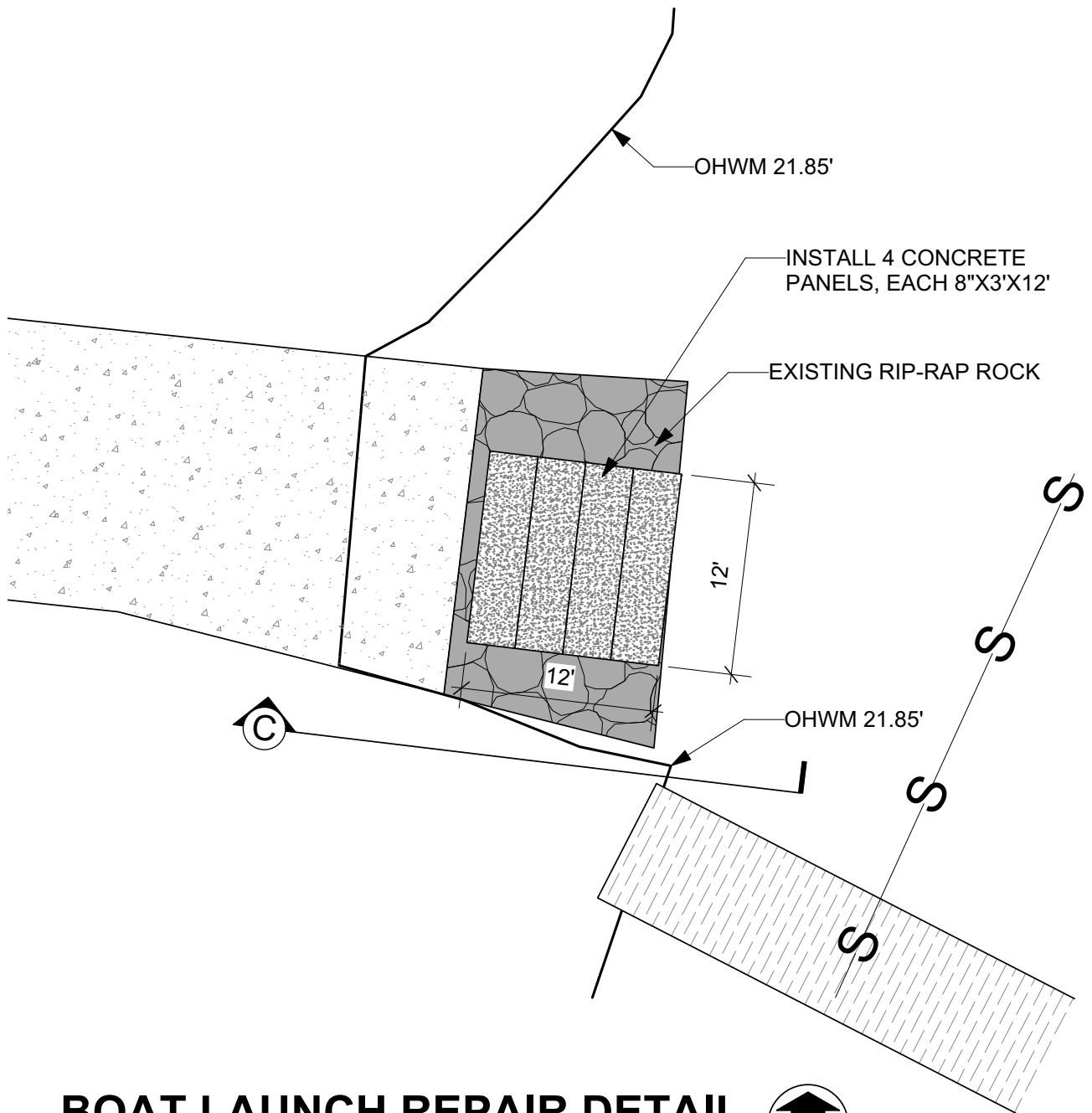


## **PILE SLEEVE DETAIL**

SCALE 3/4" = 1'-0"

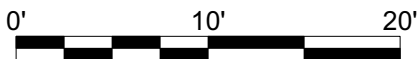


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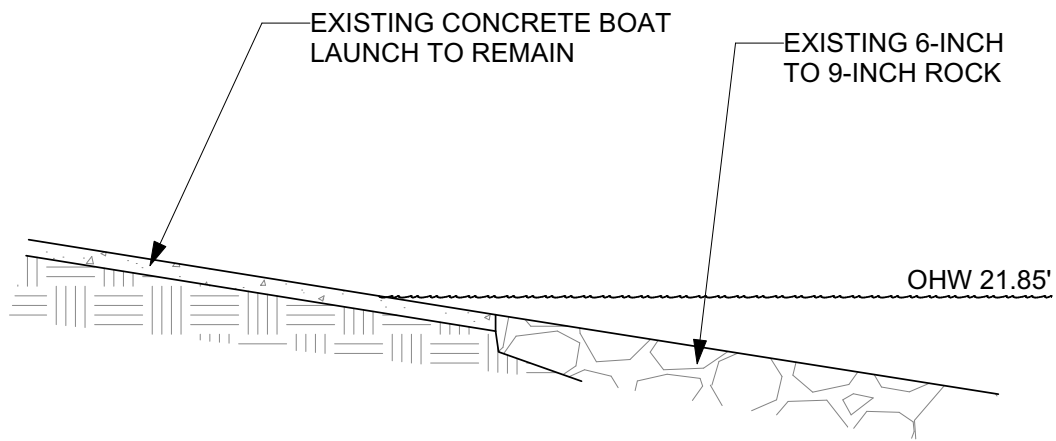


# **BOAT LAUNCH REPAIR DETAIL**

SCALE 1" = 10'-0"

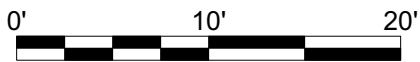


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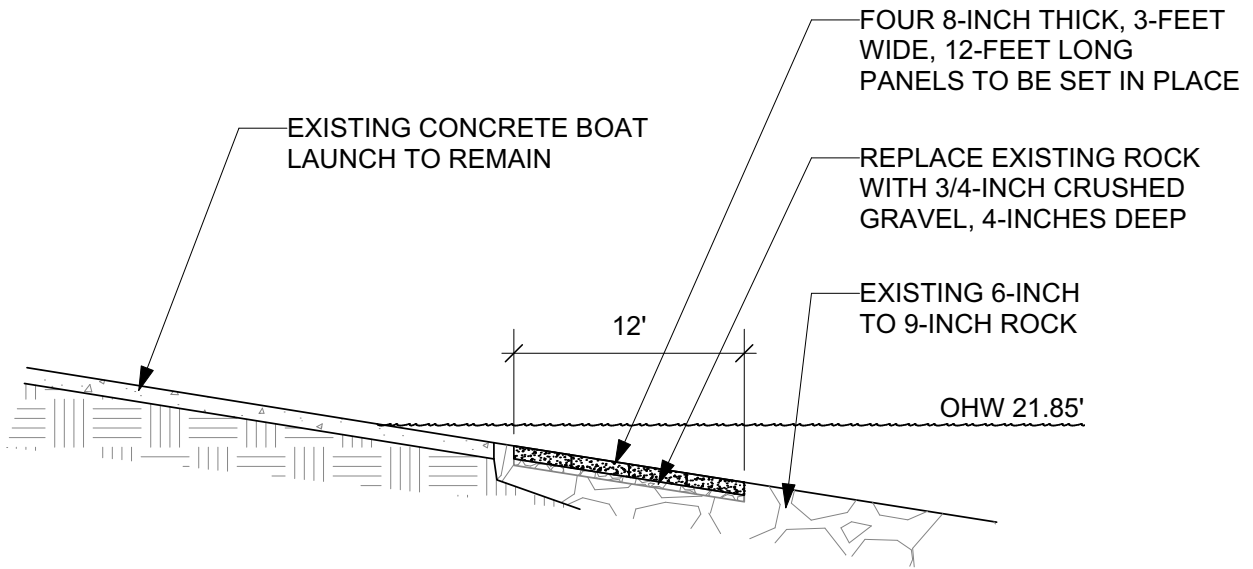


## **BOAT LAUNCH SECTION C - EXISTING**

SCALE 1" = 10'-0"



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## **BOAT LAUNCH SECTION C - PROPOSED**

SCALE 1" = 10'-0"

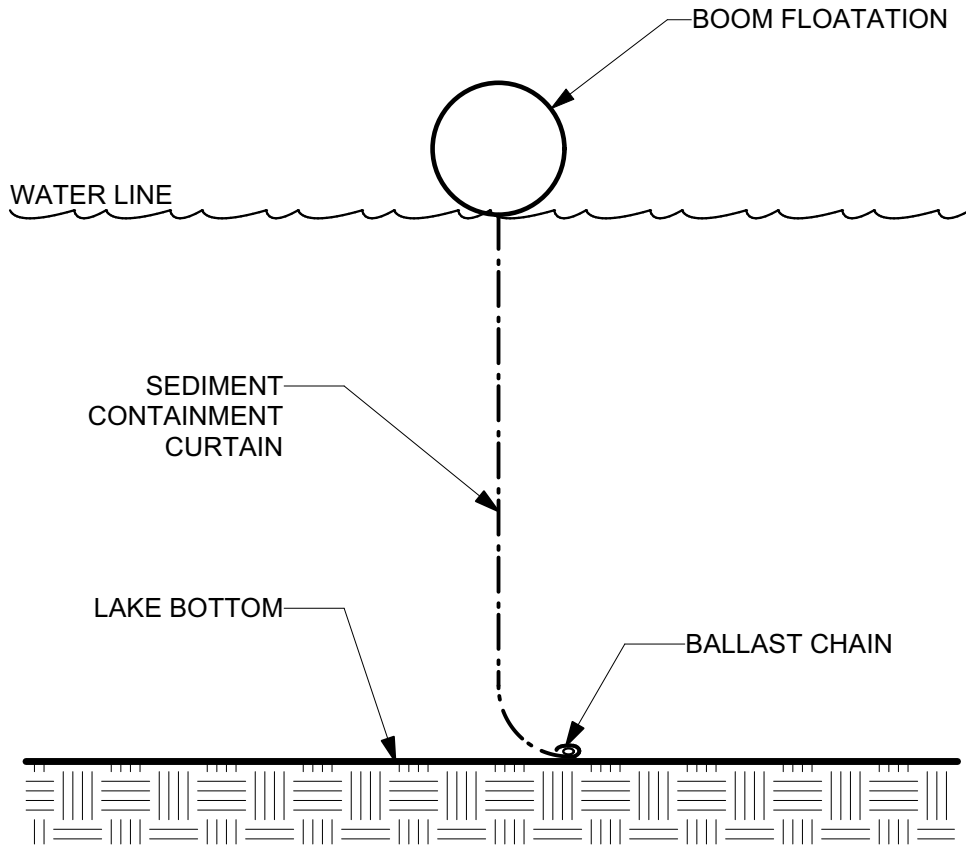


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**Proposed:** Repair Piers  
**Location:** Mercer Island, WA

# BMP DETAILS

- A. Constant vigilance shall be kept for the presence of protected fish species during all aspects of the proposed action, particularly during in-water activities such as vessel movement, deployment of anchors & spuds, pile driving, dredging, and placement of gravels and other fill.
1. The project manager shall designate an appropriate number of competent observers to survey the project site and adjacent areas for protected species, including the presence of fish as conditions allow.
  2. Visual surveys shall be made prior to the start of work each day, and prior to resumption of work following any break of more than an hour. Periodic additional visual surveys throughout the work day are strongly recommended.
  3. All in-water work shall be done during the in-water work window for the waterbody. Where there is a difference between the USCOE and WDFW work windows, the overlap of the two shall apply.
  4. All pile driving and extraction shall be postponed or halted when obvious aggregations or schooling of fish are observed within 50 yards of that work, and shall only begin/resume after the animals have voluntarily departed the area.
  5. Impact pile driving shall employ “soft-start” techniques. At the start of driving operations (or after any break in operations of more than an hour), the hammer will be operated at the lowest practicable power setting for the first few strikes, and gradually increased to full power after that.
  6. When piloting vessels, vessel operators shall operate at speeds and power settings to avoid grounding vessels, and minimize substrate scour and mobilization of bottom sediments.
- B. No contamination of the marine environment shall result from project-related activities.
1. Appropriate materials to contain and clean potential spills shall be stored and readily available at the work site and/or aboard project-related vessels.
  2. All project-related materials and equipment to be placed in the water shall be free of pollutants.
  3. The project manager and heavy equipment operators shall perform daily pre-work equipment inspections for cleanliness and leaks. All heavy equipment operations shall be postponed or halted should a leak be detected, and shall not proceed until the leak is repaired and the equipment is cleaned.
  4. To the greatest extent practicable, utilize biodegradable oils for equipment that would be operated in or near water.
  5. Fueling of land-based vehicles and equipment shall take place at least 50 feet away from the water, preferably over an impervious surface. Fueling of vessels shall be done at approved fueling facilities.
  6. Turbidity and siltation from project-related work shall be minimized and contained through the appropriate use of erosion control practices, effective silt containment devices, and the curtailment of work during adverse weather and tidal/flow conditions.
  7. All wastes shall be collected and contained for proper disposal at approved upland disposal sites appropriate for the material(s).
  8. When removing creosote piles and other similarly treated wood, containment booms must fully enclose the work area. Wood debris, oils, and any other materials released into lake waters must be collected, removed, and properly disposed of at approved disposal sites.
  9. All in- and over-water wood cutting would be limited to the minimum required to remove the subject wood component, and all cutting work should be enclosed within floating containment booms.
  10. Above-water containment shall be installed around removed piles to prevent sediment laden waters from returning to lake waters.
  11. Construction staging (including stocking of materials, etc.) will occur on the supply barge.

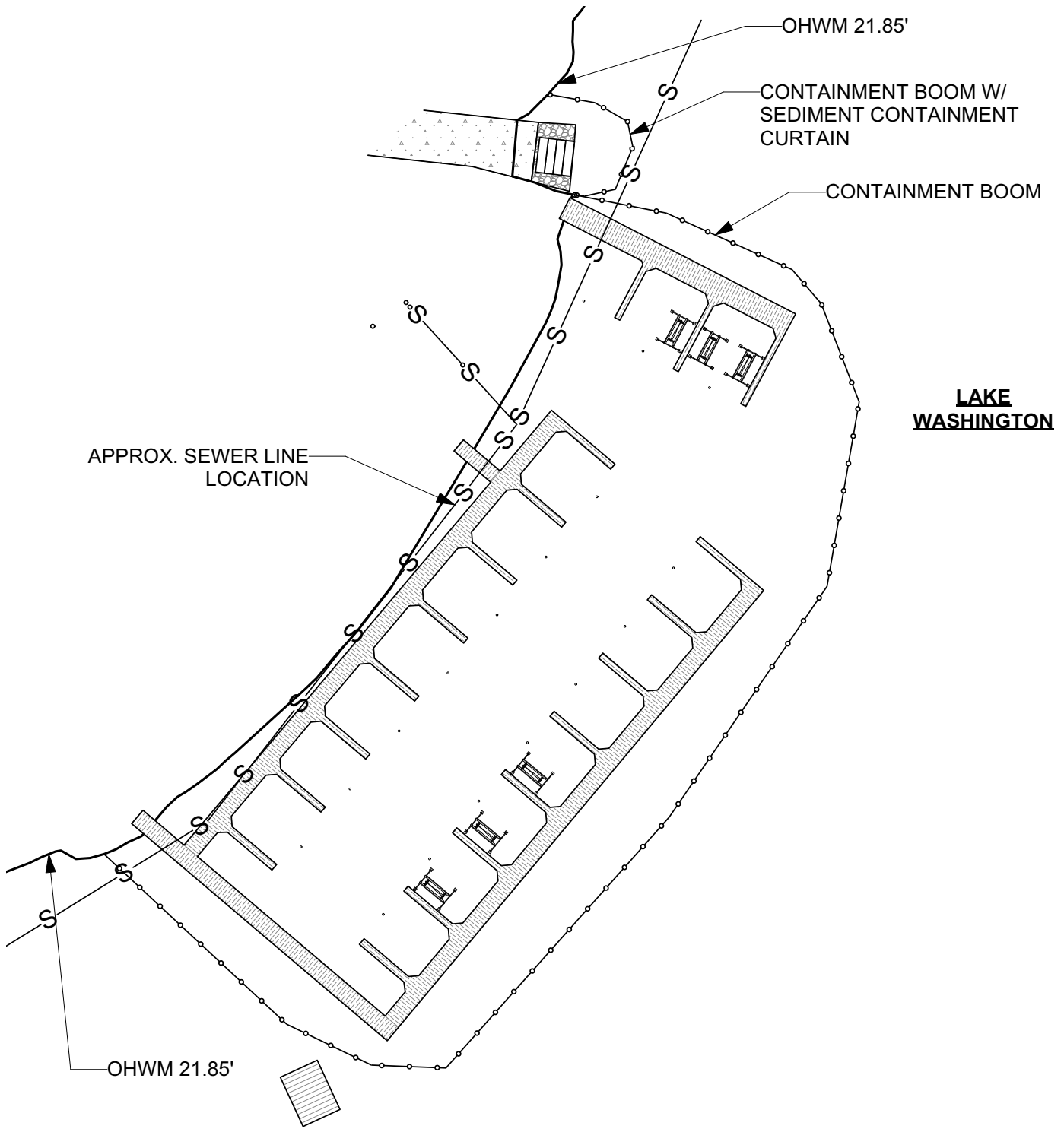
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**CONTAINMENT BOOM W/  
SEDIMENT CURTAIN DETAIL**

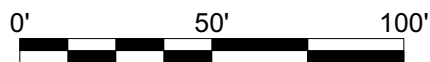
NO SCALE

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**BMP PLAN**

SCALE 1" = 50'-0"



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