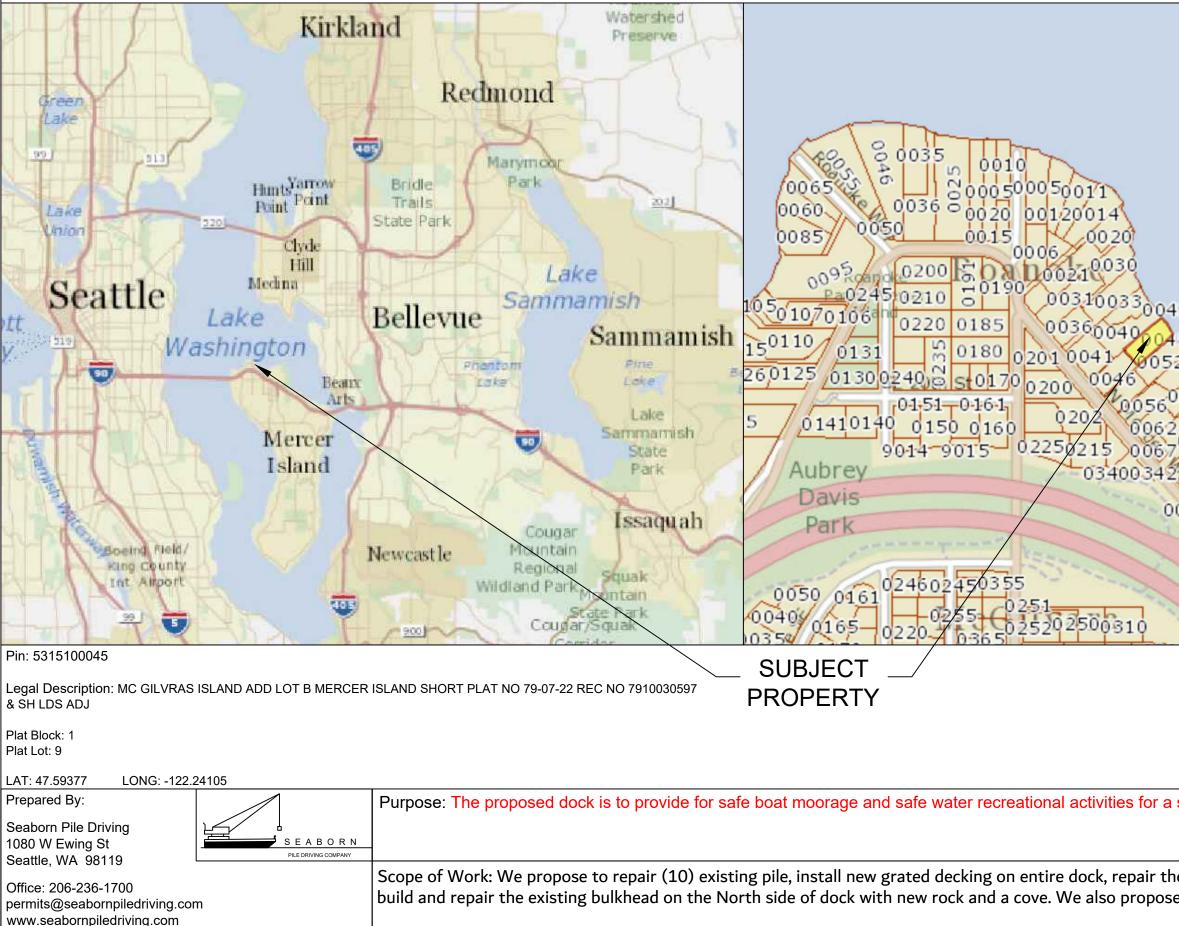
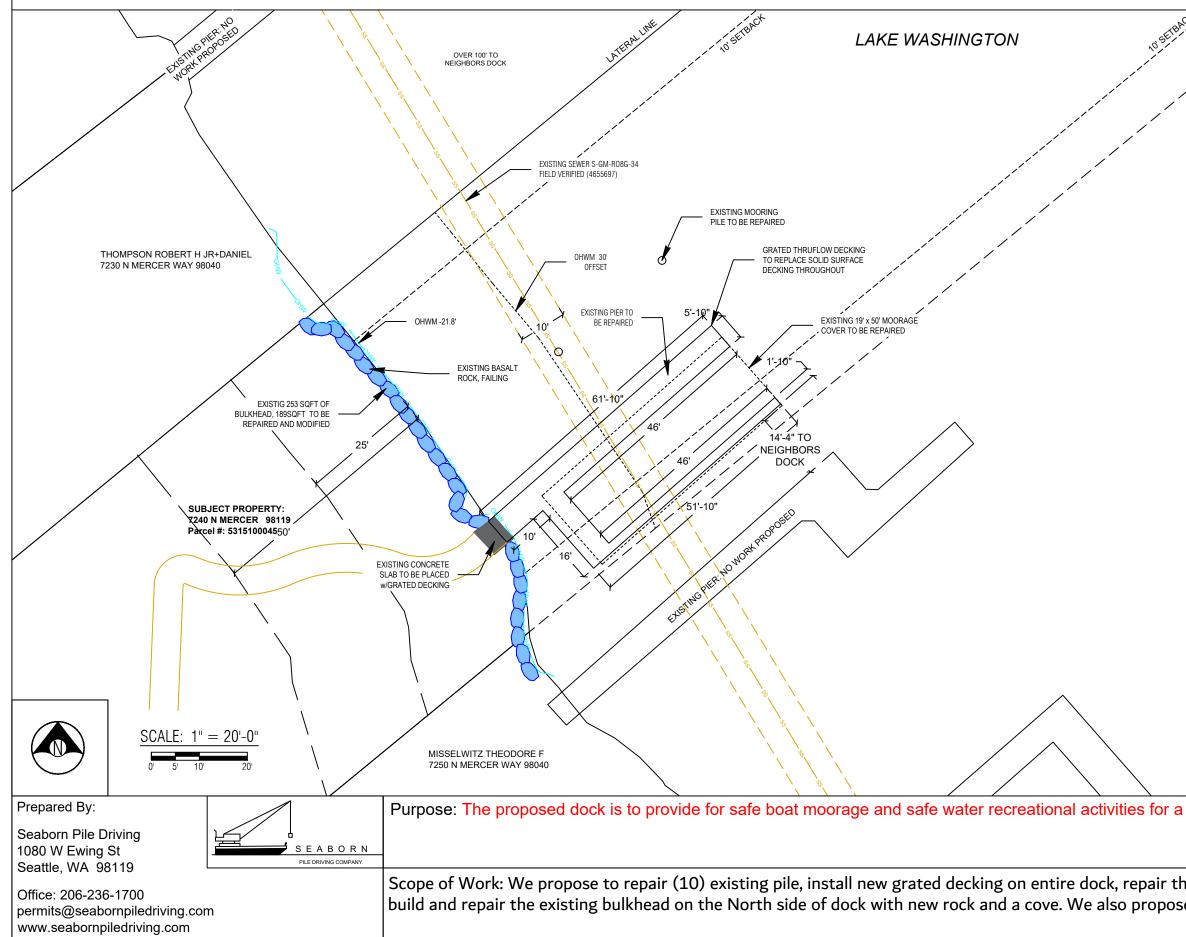
SITE PLAN



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EXISTING CONDITIONS

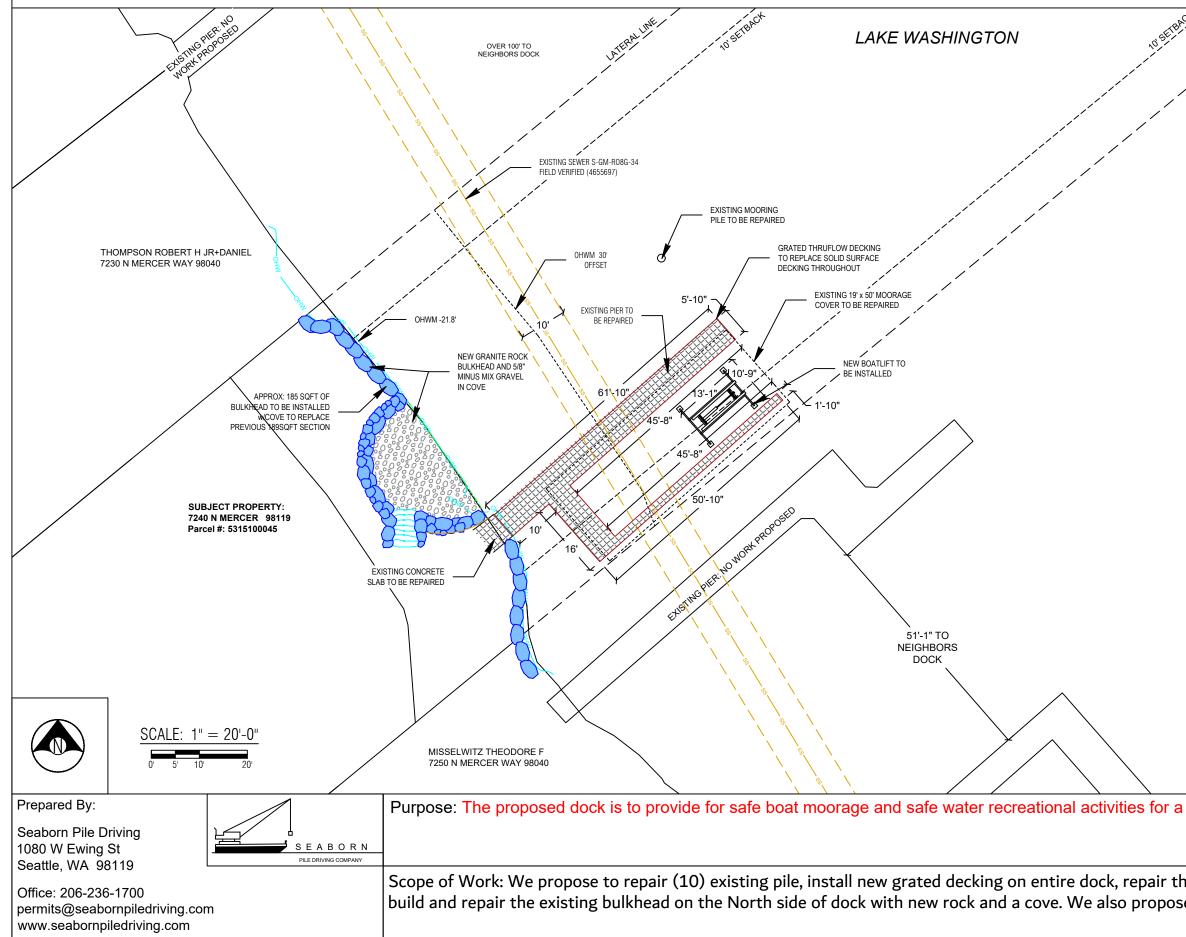
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PROPOSED CONDITIONS

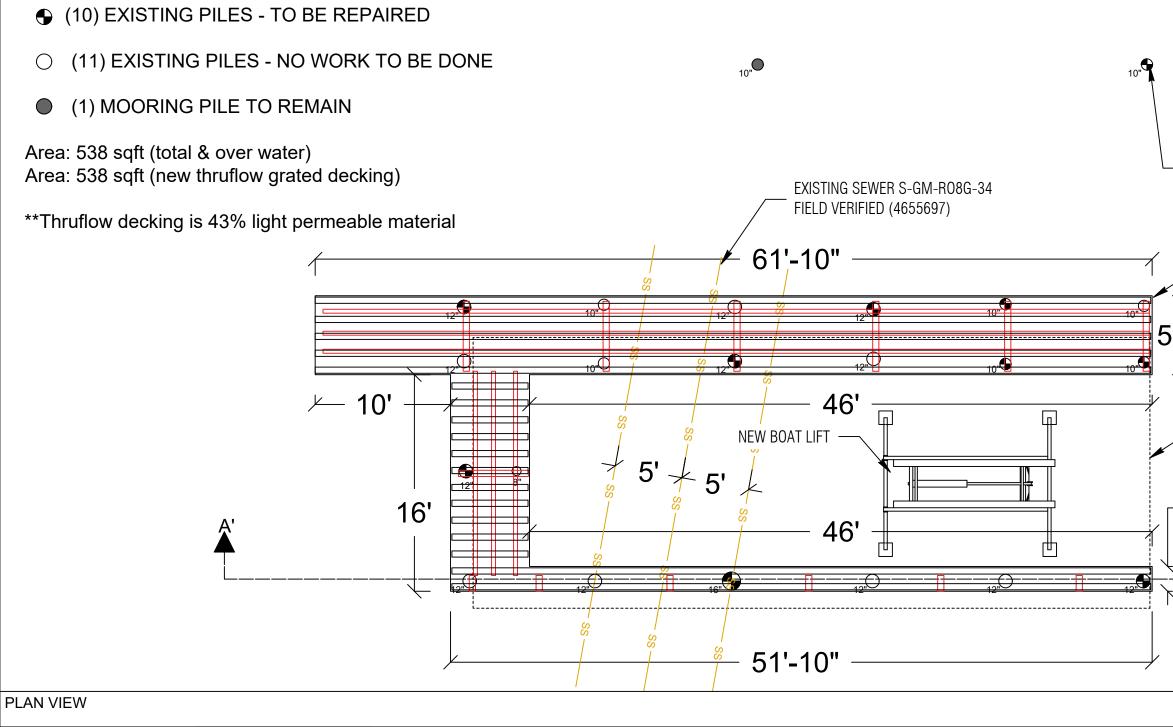
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PIER DETAILS

LEGEND



Prepared By: Seaborn Pile Driving

1080 W Ewing St Seattle, WA 98119

SEABORN PILE DRIVING COMPANY

Purpose: The proposed dock is to provide for safe boat moorage and safe water recreational activities for a

Office: 206-236-1700 permits@seabornpiledriving.com www.seabornpiledriving.com

Scope of Work: We propose to repair (10) existing pile, install new grated decking on entire dock, repair th build and repair the existing bulkhead on the North side of dock with new rock and a cove. We also propos

	NWS-2020-104 PAGE 4 OF 1	
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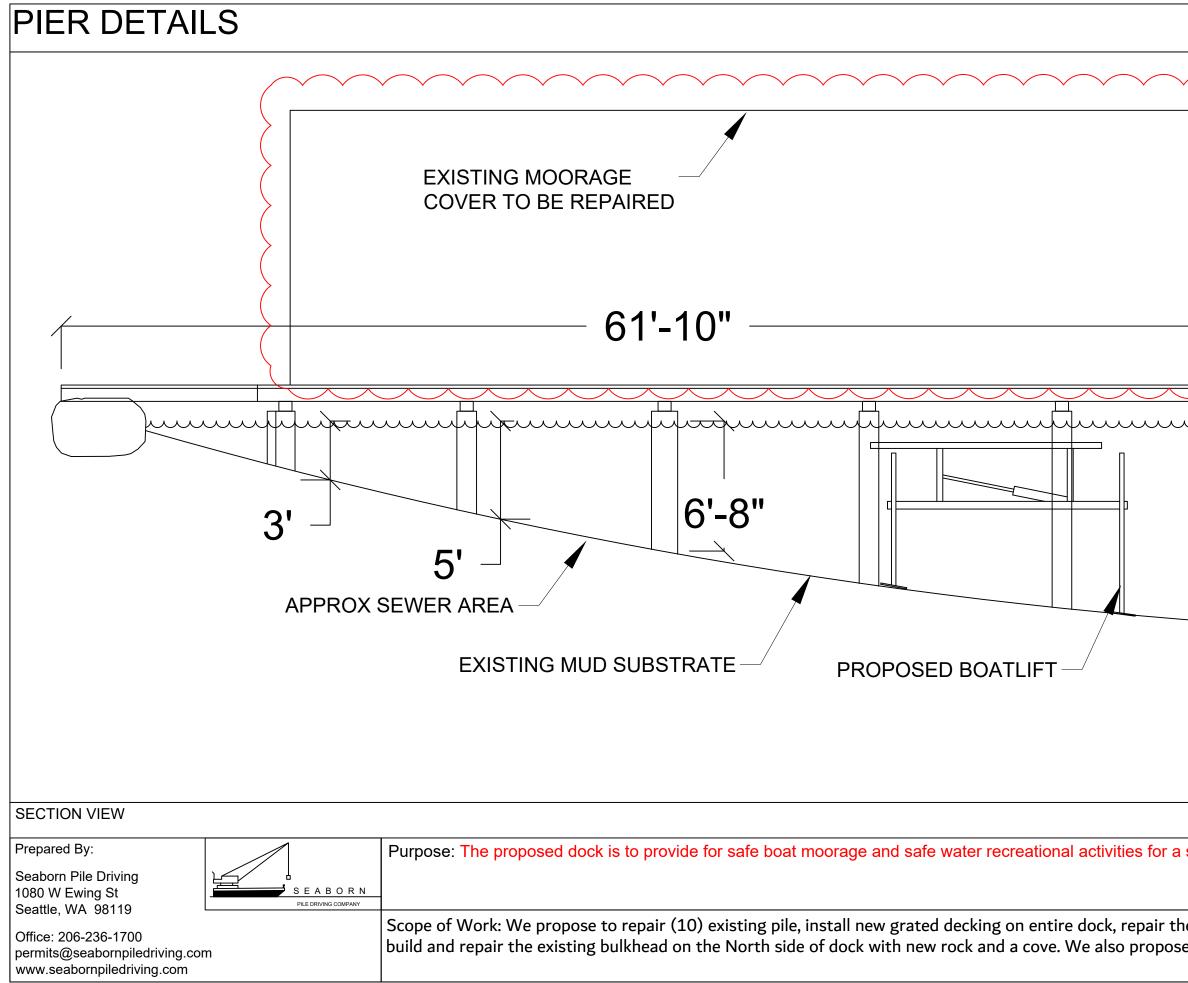
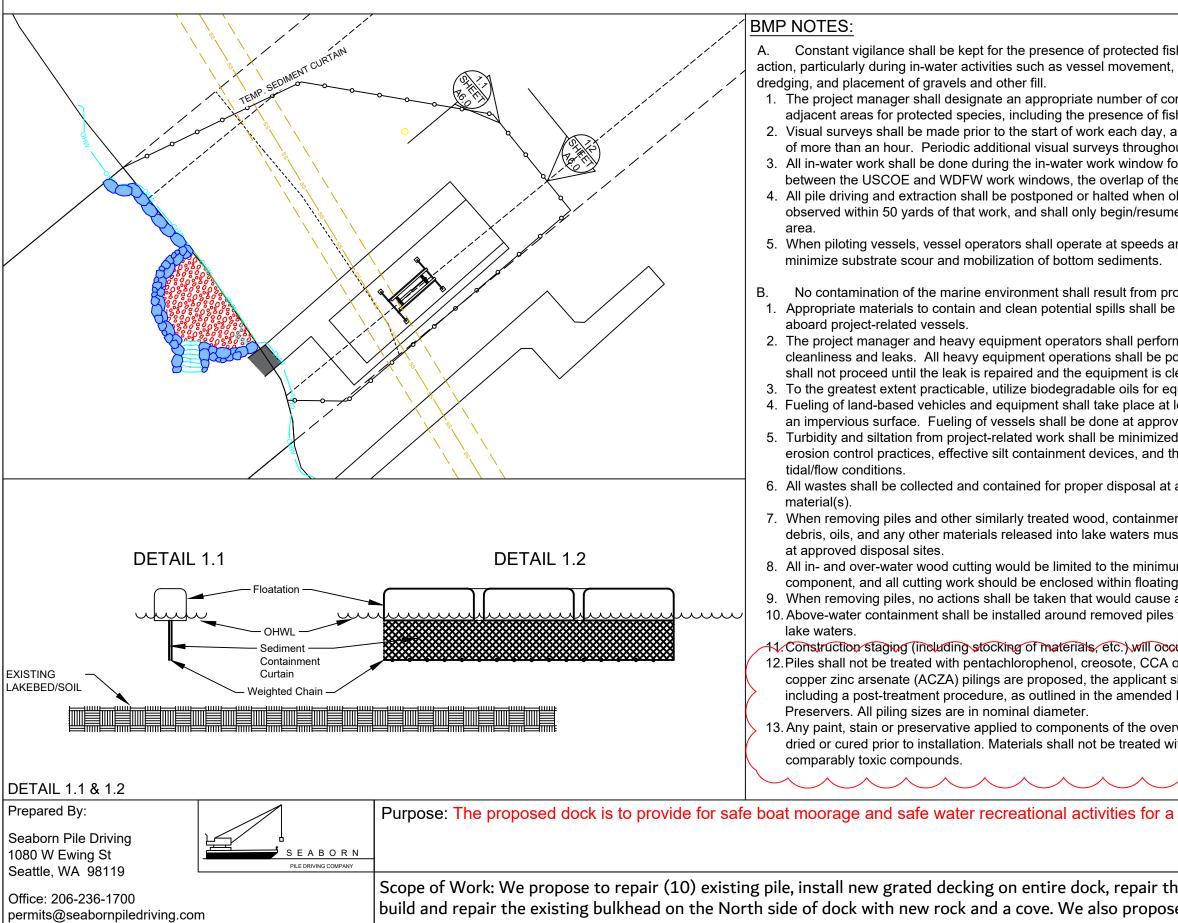


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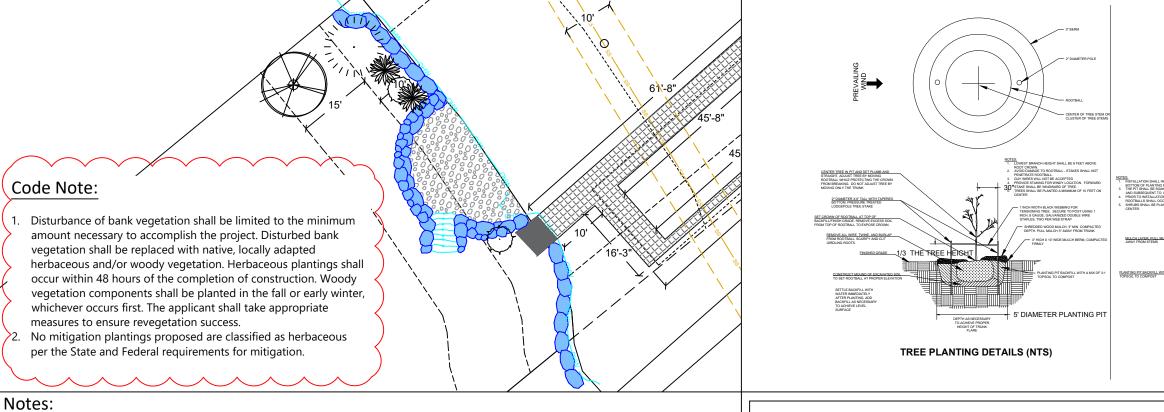
BMP INFORMATION



www.seabornpiledriving.com

sh species during all aspects of the proposed deployment of anchors & spuds, pile driving, mpetent observers to survey the project site and sh as conditions allow. and prior to resumption of work following any break out the work day are strongly recommended. for the waterbody. Where there is a difference e two shall apply. obvious aggregations or schooling of fish are e after the animals have voluntarily departed the nd power settings to avoid grounding vessels, and	Conctractor: Seaborn Pile Driving Company 1080 W Ewing St Seattle, WA 98119	Last Updated: 7/15/2021 3:45 PM Kelse
oject-related activities. stored and readily available at the work site and/or m daily pre-work equipment inspections for ostponed or halted should a leak be detected, and eaned. uppment that would be operated in or near water. least 50 feet away from the water, preferably over ved fueling facilities. d and contained through the appropriate use of ne curtailment of work during adverse weather and	Applicant: Sun Residence 7240 N MERCER WAY Mercer Island, WA 98119 County: King County	Created: 7/15/2021
approved upland disposal sites appropriate for the nt booms must fully enclose the work area. Wood st be collected, removed, and properly disposed of im required to remove the subject wood g containment booms. adhering sediments to return to lake waters. to prevent sediment laden waters from returning to our on the supply barge. For comparably toxic compounds. If ammoniacal shall meet all of the best management practices, Best Management Practices of the Western Wood water structure must be leach resistant, completely ith pentochlorophenol, creosote, CCA or	Datum: CORPS OF ENGINEERS 1919 SW Quarter Of Section 01, Township 24, Range 04 Adiacent Owners	′ ∭ ≤
single family residence. ne existing moorage cover to the original e to install a new boatlift.	A6.0 MREET	042
	PAGE 6 OF	

PROPOSED MITIGATION



- 1. Shrubs are show, and shall be planted, at least five feet on center. Trees are show, and shall be planted, at least ten feet to center.
- 2. The property owner will implement and abide by the shoreline planting plan. The plants shall be installed before or concurrent with the work authorized by this permit. A report, as-built drawing and photographs demonstrating the plants have been installed or a report on the status of project construction will be submitted to the U.S. Army Corps of Engineers, Seattle District, Regulatory Branch, within 12 months from the date of permit issuance. This reporting requirement may be met by completing and submitting a U.S. Army Corps of Engineers approved Report for Mitigation Work Completion form.
- 3. The property owner will maintain and monitor the survival of installed shoreline plantings for five years after the U.S. Army Corps of Engineers accepts the as-built report. Installed plants shall achieve 100% survival during monitoring Years 1 and 2. Installed plants shall achieve at least 80% survival during monitoring Years 3, 4 and 5. Percent survival is based on the total number of plants installed in accordance with the approved riparian planting plan. Individual plants that die will be replaced with native riparian species in order to meet the survival performance standards.
- 4. The property owner will provide annual monitoring reports for five years (Monitoring Years 1-5). Each annual monitoring report will include written and photographic documentation on plant mortality and replanting efforts and will document whether the performance standards are being met. Photos will be taken from established points and used repeatedly for each monitoring year. In addition to photos at designated points, photo documentation will include a panoramic view of the entire planting area. Submitted photos will be formatted on standard 8 1/2 x 11" paper, dated with the date the photo was taken, and clearly labeled with the direction from which the photo was taken. The photo location points will be identified on an appropriate drawing. Annual shoreline planting monitoring reports will be submitted to the U.S. Army Corps of Engineers, Seattle District, Regulatory Branch, by November 31 of each monitoring year. This reporting requirement may be met by completing and submitting a U.S. Army Corps of Engineers approved Mitigation Planting Monitoring Report form.

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	PROPOSI	ED PLANTING SP	PECIES/QUA		ITIES	Applicant:	County: Location:	Created:
	SYMBOL		COMMON NAME	QTY	SIZE	Range 04	JORE F	8040
	\bigotimes	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	1	3 ft		Z THEODOF	RCER WAY 9
		PINUS CONTORTA `CONTORTA`	SHORE PINE	1	3 ft	IEERS Towns	MISSELWIT	7250 N MERCER WA
		CORNUS SERICEA	DOGWOOD	2	1 Gallon	OF ENGINEERS Section 01, Towns	FS: DANIEL	
	(·)	RIBES SANGUINEUM	RED FLOWERING CURRANT	2	1 Gallon		¢ OWN€ Bert H JR+	R WAY 98040
		be installed 5ft on center and trees				Datum: CORPS SW Quarter Of S	Adjacent Owners: THOMPSON ROBERT H JR+DANIEL	7230 N MERCE
fe boat moorage and safe water recreational activities for a single family residence. ng pile, install new grated decking on entire dock, repair the existing moorage cover to the original rth side of dock with new rock and a cove. We also propose to install a new boatlift.			NWS-	0.24 2020-1042 2020-1042				

Prepared By:

Seaborn Pile Driving 1080 W Ewing St Seattle, WA 98119



Purpose: The proposed dock is to provide for safe

Office: 206-236-1700 permits@seabornpiledriving.com www.seabornpiledriving.com

Scope of Work: We propose to repair (10) existin build and repair the existing bulkhead on the Nort

GENERAL NOTES

MATERIALS SPEC LIST:

Boat Lifts:

* SL8012ARW - 129" x 157"

Decking Material: FRPP - Fiberglass reinforced polypropylene

Light permeable percentage:

- * Surface 43%
- * 18" Dock Height 61%
- * 60" Dock Height 84%

SEWER:

* All sewer is field verified by probing the lake bed manually during the allowed work windows for the area.

PILES:

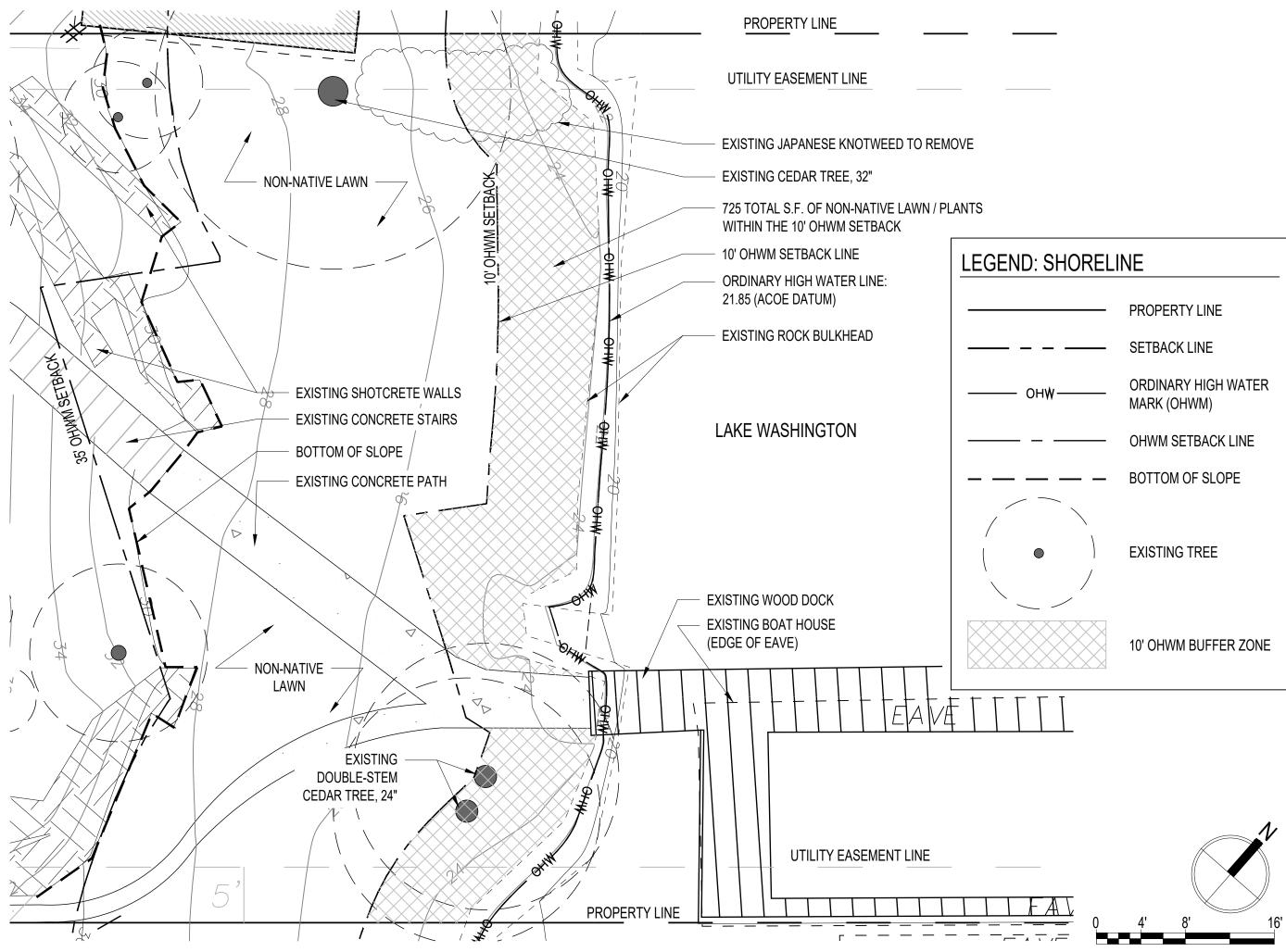
- * Repair piles are done as a sleeve/strap method
- * All Pile tops exposed will have a conical cap placed on toP

MITIGATION:

- * All All gravel used by Seaborn Pile Driving for coves, beaches or as mitigation will be fish friendly spawning gravel (naturally occurring water rounded aggregates) The sizes will be noted as:
 - ** 100% less than 1 inch, 85% less than 0.5 inch, and 40% less than 0.25 inch for areas outside of documented sockeye spawning zone
- 5/8 minus mix for spawning zones
- Bulhead repair will be at the same OHWM as existing or set back. We will not place the material further into the lake
- * All debris around job site will be removed from the lake bed as part of this project
- * Bulhead repair will be at the same OHWM as existing or set back. We will not place the material further into the lake
- * Any logs noted on site will stay as necessary and we will avoid touch the log at all costs per the requirement of WDFW.

g pile, install new grated decking on entire dock, repair the existing moorage cover to the original th side of dock with new rock and a cove. We also propose to install a new boatlift.	LINKS-2020-1	
e boat moorage and safe water recreational activities for a single family residence.		
 a. One hundred percent of the decking area of the pier, dock, and any platform lifts must be fully grated with materials that allow a minimum of 40 percent light transmittance; <i>N/A</i> b. The height above the OHWM for moorage facilities, except floats, shall be a minimum of one and one-half feet and a maximum of five feet; and <i>N</i>/A c. An existing moorage facility that is five feet wide or more within 30 feet waterward from the OHWM shall be replaced or repaired with a moorage face <i>N</i>/A Last permit issued for property: 2011 Dock established/constructed: 1959 aerial date 	Datum: CORPS OF ENGINEERS 191 SW Quarter Of Section 01, Township Adiacent Owners	THOMPSON ROBERT H JR+DANIEL 7230 N MERCER WAY 99040
Will follow work window provided by CORPS viii. Disturbance of bank vegetation shall be limited to the minimum amount necessary to accomplish the project. Disturbed bank vegetation shall be replaced with native, locally adapted herbaceous and/or woody vegetation. Herbaceous plantings shall occur within 48 hours of the completion of construction. Woody vegetation components shall be planted in the fall or early winter, whichever occurs first. The applicant shall take appropriate measures to ensure revegetation success; Ch. 19.13 Shoreline Master Program Mercer Island City Code Page 29 of 34 The Mercer Island City Code is current through Ordinance 20C-13, passed June 16, 2020. Mitigation noted on plan set ix. Structural Repair. The structural repair, which may include replacement of framing elements, of moorage facilities that results in the repair of more than 50 percent of the structure's framing elements within a five-year period shall comply with subsections (F)(2)(ix)(a) through (F)(2)(ix)(c) of this section. For this section, framing elements include, but are not limited to, stringers, pile, pile caps, and attachment brackets, as shown in Figure D: We are repairing less than 50% of the dock project	NEERS 1919 I, Township 24, Range 04	MISSELWITZ THEODORE F 7250 N MERCER WAY 98040
Proposed piles will be expoxy coated steel for repair. vii. The applicant shall abide by the work windows for listed species established by the U.S. Army Corps of Engineers and Washington Fish and Wildlife;	Applicant: County:	Created:
 iv. The location of any structure is not changed unless the applicant demonstrates to the director's satisfaction that the proposed change in location results in: (A) a net gain in ecological function, and (B) a higher degree of conformity with the location standards for a new overwater structure; <i>Location of structure is not changing</i> iw. Piles shall not be treated with pentachlorophenol, creosote, CCA or comparably toxic compounds. If ammoniacal copper zinc arsenate (ACZA) pilings are proposed, the applicant shall meet all of the best management practices, including a post-treatment procedure, as outlined in the amended Best Management Practices of the Western Wood Preservers. All piling sizes are in nominal diameter; Any paint, stain or preservative applied to compounds of the overwater structure must be leach resistant, completely dried or cured prior to installation. Materials shall not be treated with pentochlorophenol, creosote, CCA or comparably toxic compounds; 	Sun Residence 7240 N MERCER WAY Mercer Island, WA 98119 King County	7/15/2021
 ii. The area, width, or length of the structure is not increased, but may be decreased; Dock area, width, and length will not be increased iii. The height of any structure is not increased, but may be decreased; provided, that the height above the OHWM may be increased as provided in subsection (F)(2)(ix)(b) of this section; Height will not be increased 		Last Updated:
CODE REFERENCES: Mercer Island We are applying for the permit to be reviewed under the: "Development Standards for Replacement, Repair and Maintenance of Overwater Structures, Including Moorage Facilities" per MIMC 19.13050(F)(2). 2) Development Standards for Replacement, Repair and Maintenance of Overwater Structures, Including Moorage Facilities. The maintenance, repair and complete replacement of legally existing overwater structures is permitted; provided, that: i. All permit requirements of federal and state agencies are met; Permits in review with CORPS (NWS-2020-1042) and WDFW (23939)	Conctractor: Seaborn Pile Driving Company 1080 W Ewing St Seattle, WA 98119	: 7/15/2021 3:45 PM Kelse

Prepared By: Purpose: The proposed dock is to provide for safe Seaborn Pile Driving SEABORN 1080 W Ewing St PILE DRIVING COMPANY Seattle, WA 98119 Scope of Work: We propose to repair (10) existin Office: 206-236-1700 build and repair the existing bulkhead on the North permits@seabornpiledriving.com www.seabornpiledriving.com





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Scale:	1/8" = 1'-0"

Date:	10/01/2020

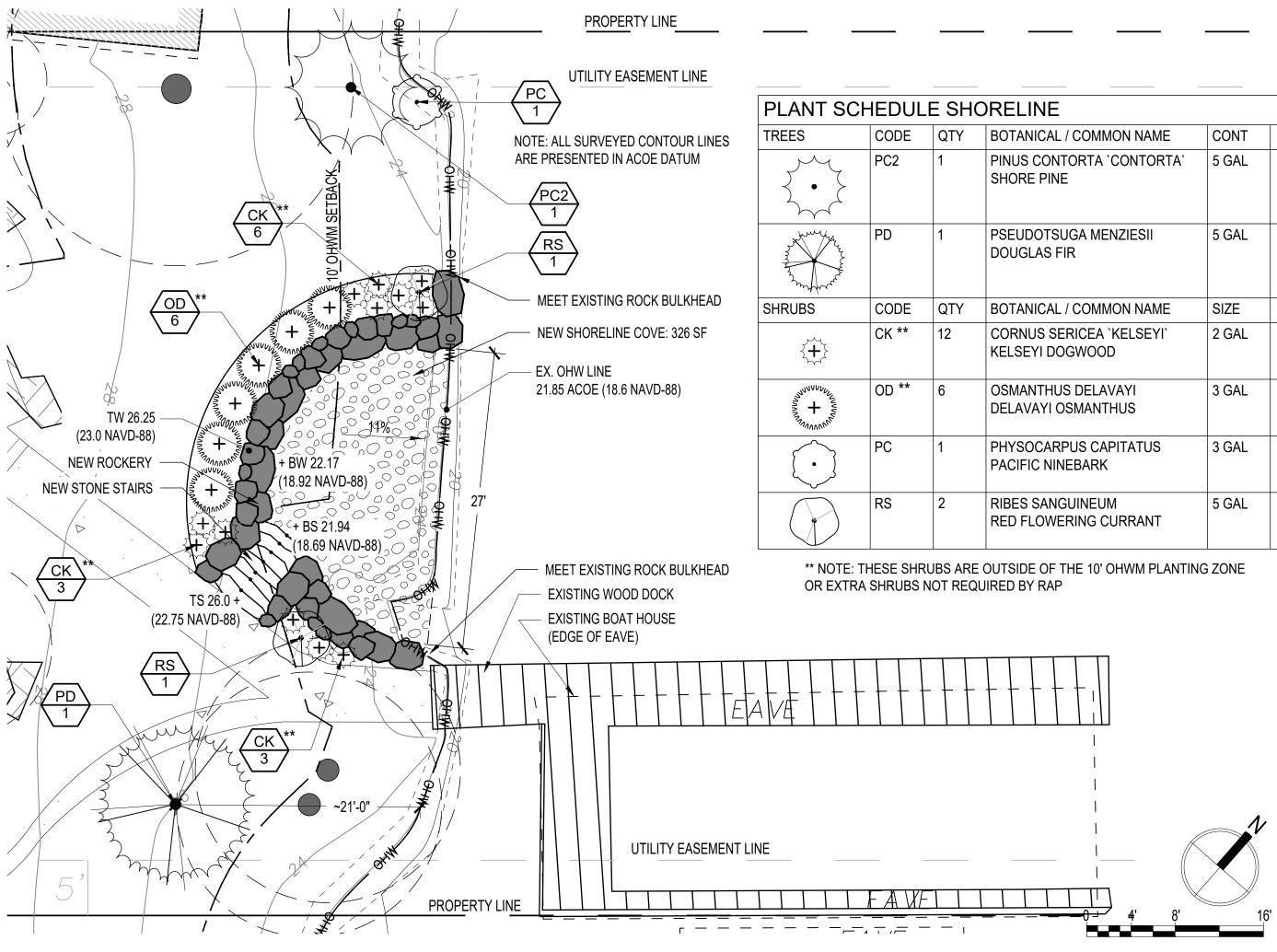
Drawn By:	MJ

Checked By:	RF

Revisions:

Sheet:

L-1.0 EX. VEG. PLAN



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MENZIESII	5 GAL
OMMON NAME	SIZE
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ELAVAYI ANTHUS	3 GAL
CAPITATUS ARK	3 GAL
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Scale:	1/8" = 1'-0"

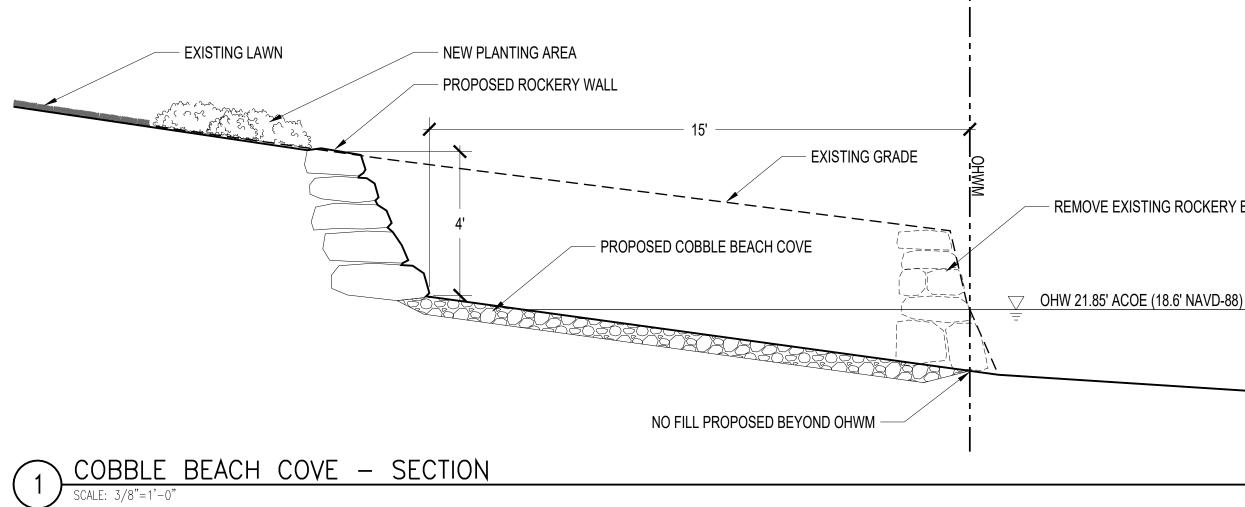
Date:	10/01/2020

Drawn By:	MJ

RF Checked By:

Revisions:

Sheet: L-1.1 PLANTING PLAN





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- REMOVE EXISTING ROCKERY BULKHEAD

Scale:	3/8" = 1'-0"	
Date:	10/01/2020	

Drawn By:	MJ

Checked By:	R	F

Revisions:

Sheet:

L-1.2 SECTIONS

STRUCTURAL NOTES

GENERAL REQUIREMENTS

BUILDING CODE & REFERENCE STANDARDS: The "International Building Code" (IBC), 2015 Edition, as adopted and modified by the City of Mercer Island, governs the design and construction of this project. Reference to a specific section in the Code does not relieve the contractor from compliance with the entire materials reference standards noted below. The latest edition of the materials reference standards shall be used.

SCOPE OF STRUCTURAL WORK: Dock repair project involving the repair of (19) existing piles and redecking of the entire dock

<u>DEFINITIONS</u>: The following definitions apply to these general notes:

• "Structural Engineer of Record" (EOR) - The Structural Engineer who is legally responsible for stamping & signing the structural documents for the project. The EOR is responsible for the design of the Primary Structural System.

STRUCTURAL DETAILS: The structural drawings are intended to show the general character and extent of the project and are not intended to show all details of the work.

STRUCTURAL RESPONSIBILITIES: The EOR is responsible for the strength and stability of the Primary Structure in its completed state.

CONTRACTOR RESPONSIBILITIES: The contractor is responsible for the means and methods of construction and all job-related safety standards such as OSHA and WISHA. The contractor is responsible for the strength and stability of the structure during construction and shall provide temporary shoring, bracing and other elements required to maintain stability until the structure is completed. It is the contractor's responsibility to be familiar with the work required in the construction documents and the requirements for executing it properly.

DISCREPANCIES: In case of discrepancies between these general notes, the contract drawings and specifications, and/or reference standards, the EOR shall determine which shall govern. Discrepancies shall be brought to the attention of the EOR before proceeding with the work. Accordingly, any conflict in or between the Contract Documents shall not be a basis for adjustment in the Contract Price.

SITE VERIFICATION: The contractor shall verify all dimensions and conditions at the site prior to fabrication and/or construction. Conflicts between the drawings and actual site conditions shall be brought to the attention of the EOR before proceeding with the work. All underground utilities shall be determined by the Contractor prior to excavation or drilling. Any utility information shown on the drawings and details is approximate and not necessarily complete.

ADJACENT UTILITIES: The contractor shall determine the locations of all adjacent underground utilities prior to pile placement. Any utility information shown on the drawings and details is approximate and not necessarily complete.

DESIGN CRITERIA

CONSTRUCTION LOADS: Loads on the structure during construction shall not exceed the design loads or the capacity of the partially completed construction.

WIND DESIGN: Wind load is determined using Chapter 27 of ASCE 7-10 in accordance with IBC Section 1609 with the following factors:

V = 110 MPH Risk-Category = II

Basic Wind Speed (3-Second Gust) Wind Importance Factor Iw = 1.0 Exposure Category = D

Analysis Procedure - ASCE 7-10 Chapter 28.

LATERAL LOADS:

P = 21.08 PSF (Unfactored) Max Sail Area = 110 ft² or 20'x5.5' (Assumed) Max Load = 0.873 K/Pile (ASD)

LIVE LOADS:

Dock (Live)	40 PSF
Dock (Snow)	20 PSF

SUBMITTALS:

NON-STRUCTURAL COMPONENTS: Design, detailing and anchorage of all nonstructural components shall be in accordance with ASCE 7-10, Chapter 13 and the project specifications. Nonstructural components designed by others shall not induce torsional loading into supporting steel structural members without additional bracing of those members to eliminate torsional forces. Torsional bracing shall be designed by the nonstructural component designer and approved by the EOR. Anchorage to the primary structure is per the bidder-design contractor or supplier.

TESTS & INSPECTIONS

INSPECTIONS: All construction is subject to inspection by the Building Official in accordance with IBC Sec 110. The contractor shall coordinate all required inspections with the Building Official. Submit copies of all inspection reports to the Architect/EOR for review. The Building Official may accept inspection of and reports by approved inspection agencies in lieu of Building Official's inspections. The contractor shall obtain approval of Building Official to use the third-party inspection agency and contractor shall alert the Architect/EOR as such.

Soils & Foundations

During driving and testing of piles.

PILES

REFERENCE STANDARDS: Conforms to IBC Sections 1810.3.2.4.

SUBMITTALS: Conform to drawings indicating location, steel strength, diameter, and minimum embedment length.

MATERIALS: Conform to notes for STRUCTURAL STEEL and WOOD FRAMING, this sheet.

SIZE: Pile size shall be as noted on the framing plan drawings.

CAPACITY: Pile capacities shall be as follows: Dock Piles - Lateral loading per tributary area per pile layout on dock for wind pressures, and moisture exposure for appropriate use based on the method of preservative treatment of the wood.

STRUCTURAL STEEL

DESIGN STANDARDS: Structural steel for this project is designed in accordance with the latest edition of the AISC Steel Construction Manual.

REFERENCE STANDARDS: Conform to:

(1) AISC "Code of Standard Practice for Steel Buildings & Bridges."

(2) RCSC "Specification for Structural Joints using ASTM A325 or A490 Bolts." (3) AWS D1.1 "Structural Welding Code - Steel."

SUBMITTALS:

(1) Submit shop drawings in accordance with AISC Specification Sec M1 "Shop and Erection Drawings."

MATERIALS: Structural WF Shapes Other Structural Shapes Bars & Plates Steel Pipe Bolts in Wood Nuts	ASTM A992, Fy = 50 ksi ASTM A36, Fy = 36 ksi ASTM A36, Fy = 36 ksi ASTM A53, Grade B, Fy = 35 ksi ASTM A307 ASTM A563 or ASTM A194, Grade 2H	
Washers (flat or beveled)	ASTM F436	
Welding Electrodes	E70XX, 70 ksi, low hydrogen, typical	

WELDING: Conform to AWS D1.1, D1.3 & D1.8. Welders shall be certified in accordance with AWS and WABO requirements. Use E70 electrodes of type required for materials to be welded.

FABRICATION/ERECTION: Conform to AISC Specification Sec M2 "Fabrication," AISC Code Sec 6 "Fabrication and Delivery" and AISC Code Sec 8 "Quality Control." The fabricator and erector shall maintain a quality control program to the extent deemed necessary so that all of the work is performed in accordance with this Code, the AISC Specification, contract documents, and project specifications.

SHOP PAINTING: Conform to AISC 360, AISC Specification Sec M3, and AISC Code Sec 6.5. Do not paint surfaces to be field welded or where slip-critical bolts are specified. All other interior steel shall be painted with one coat of grey shop primer. All exposed exterior steel shall be painted with an exterior multi-coat system as per the Architect or project specifications or galvanized per section below. Field touch-up painting shall be with primer for exposed interior surfaces and as per the Architect or project specifications for exposed exterior surfaces.

GALVANIZING: Where required, all exposed steel outside the building envelope shall be hot-dipped galvanized. Apply field touch-ups per project specifications. It is acceptable for the contractor to use epoxy coated steel members in lieu of galvanized steel.

ERECTION: Conform to AISC Specification Sec M4 "Erection" and AISC Code Sec 7 "Erection." Steel work shall be carried up true and plumb within the limits defined in AISC Code Sec 7.11.

BRACING: The contractor shall provide temporary bracing by AISC Specification Sec M4.2 "Bracing" and AISC Code Sec 7.10 "Temporary Support of Structural Steel Frames."

WOOD FRAMING

REFERENCE STANDARDS: Conform to: (1) IBC Chapter 23 "WOOD."

ALTERNATES: Alternates for specified item may be submitted to the EOR for review. Contractor shall submit a current ICC-ESR/IAPMO-ER report identifying that an alternative component has the same or greater load capacity than the specified item.

IDENTIFICATION: All sawn lumber and pre-manufactured wood products shall be identified by the grade mark or a certificate of inspection issued by the certifying agency.

MATERIALS:

Member Use	Size	Species
Joists, Ledger	2x, 4x	P.T. DF
Beams	5 1/8 x 10 ½	AC/AC GLB
Round Timber	All Diameter	Pacific Coast DF

Lag Bolts/Thru-Bolts: Conform to ASTM A307. Provide plate washers under the heads and nuts of all bolts and lag screws bearing on wood.

MOISTURE CONTENT: Wood material used for this project shall have maximum moisture content of 19%. PRESERVATIVE TREATMENT: Wood materials are required to be "treated wood" under certain conditions in accordance with IBC Sec 2304.12 "Protection against decay and termites." Conform to the appropriate standards of the American Wood-Preservers Association (AWPA) for sawn lumber, glued laminated timber, round poles, wood piles, and marine piles. Follow American Lumber Standards Committee (ALSC) quality assurance

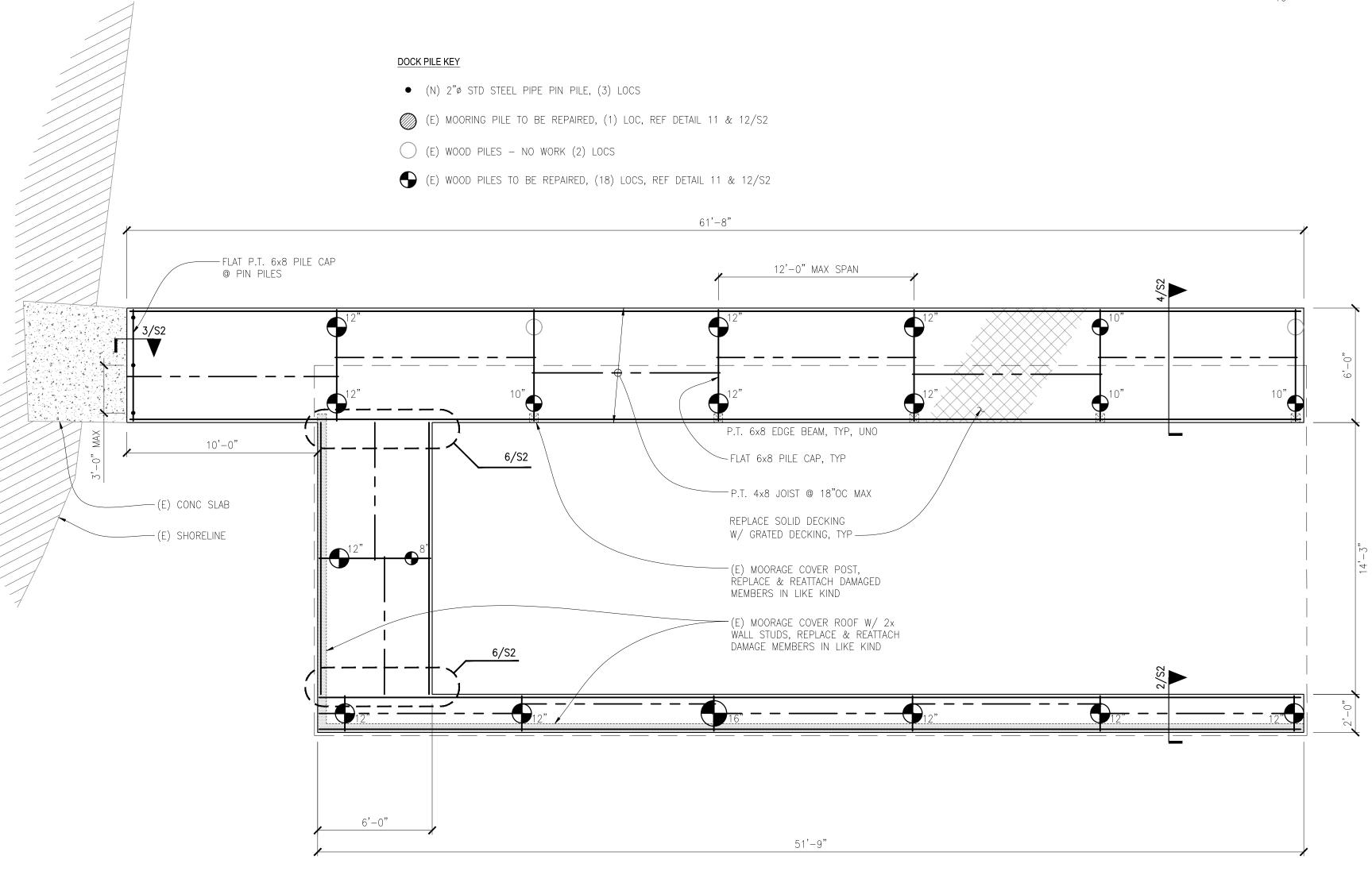
procedures. Products shall bear the appropriate mark.

(2) NDS and NDS Supplement - "National Design Specification for Wood Construction."

Sawn Lumber: Conform to grading rules of WWPA, WCLIB, or NLGA. Finger jointed studs acceptable at interior non-structural walls only.

No. 1 20F-V12 Marine

METAL CONNECTORS/PT WOOD: All metal hardware and fasteners in contact with pressure treated lumber shall be stainless steel Type 316L. At the Owner's risk and discretion, hot-dipped galvanized metal hardware and fasteners may be investigated for use in lieu of stainless steel provided that the finish has a minimum zinc content of at least 1.85 oz./SF and its use is coordinated by the Contractor and Wood Supplier for the expected environment and moisture exposure for appropriate use based on the method of preservative treatment of the wood.

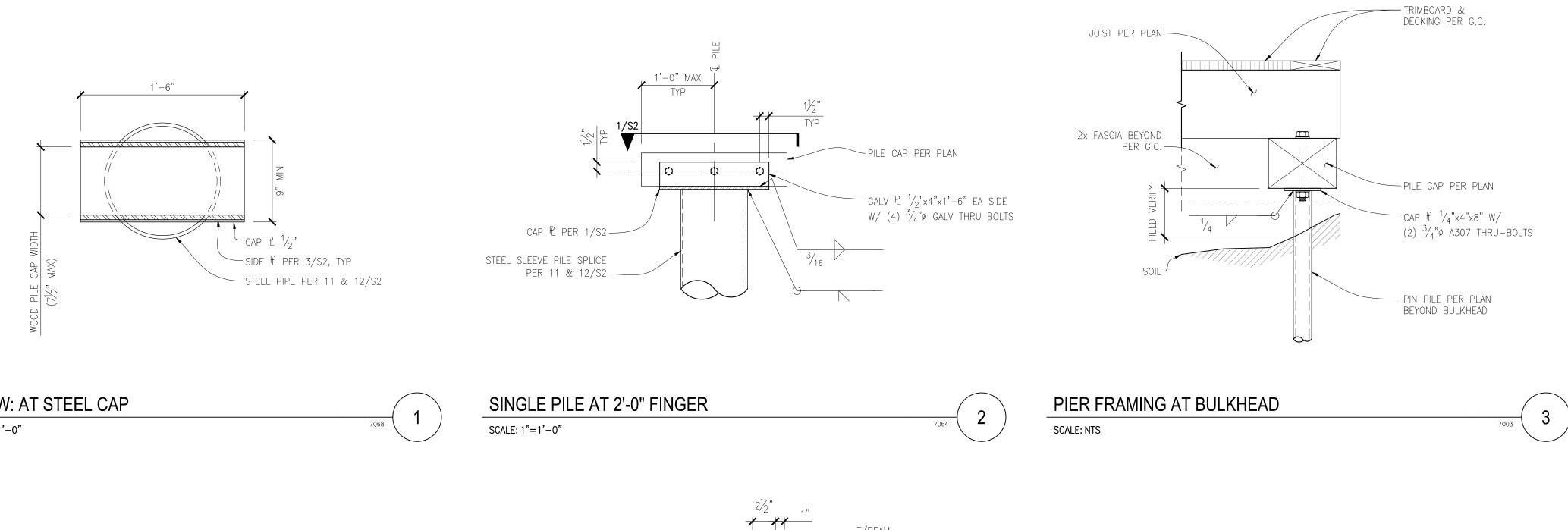




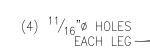


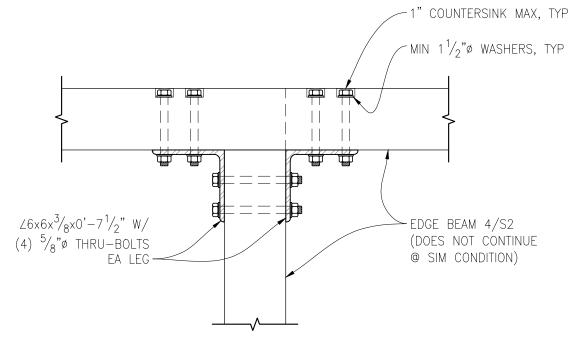
DEL DIBLE ENGINEERS INC www.dibbleengineers.com 1029 Market Street, Kirkland, WA 98033	425.828.4200
SEAL:	
SUN DOCK DOCK REPAIR 7240 N MERCER WAY	
PROJECT #: 20-940 DRAWN BY: BGJ DESIGNED BY: MWD DATE: DESCRIPTION 11.02.2020 PERMIT	
JURISDICTIONAL STAMP:	
SHEET TITLE: STRUCTURAL GENERAL NOTE PLAN SHEET NUMBER:	
S 1	

(E) MOORING PILE TO BE REPAIRED -----







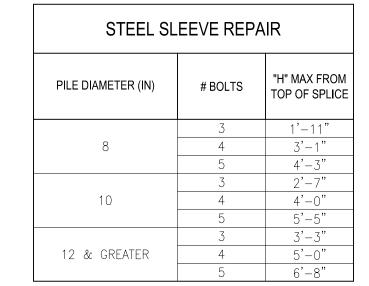


PLAN VIEW - BEAM-TO - BEA

SCALE: NTS



١M	CONNECTION



NOTES:

6

7006

1. MAX PILE LOAD = 1091#/PILE (BOAT LOAD PARALEL TO DOCK). CONTACT DEI IF BOAT SIZE EXCEEDS GSN MAXIMUM ALLOWABLE.

2. MINIMUM BOLT SPACING = 3"

