

CRITERIA: THE STRUCTURAL SYSTEM FOR THIS PROJECT HAS BEEN DESIGNED TO COMPLY WITH ASCE 7-16 & THE FLORIDA BUILDING CODE, 2020. WIND LOADS HAVE BEEN DETERMINED FOR RISK CATEGORY I, 160 MPH WIND SPEED (EXPOSURE I).

LIVE LOAD: 40 PSF DECK DEAD LOAD: 5 PSF

MATERIALS: UNLESS NOTED OTHERWISE ALL CONSTRUCTION SHALL MEET OR EXCEED REQUIREMENTS OF CHAPTER 23, FBC 2020.

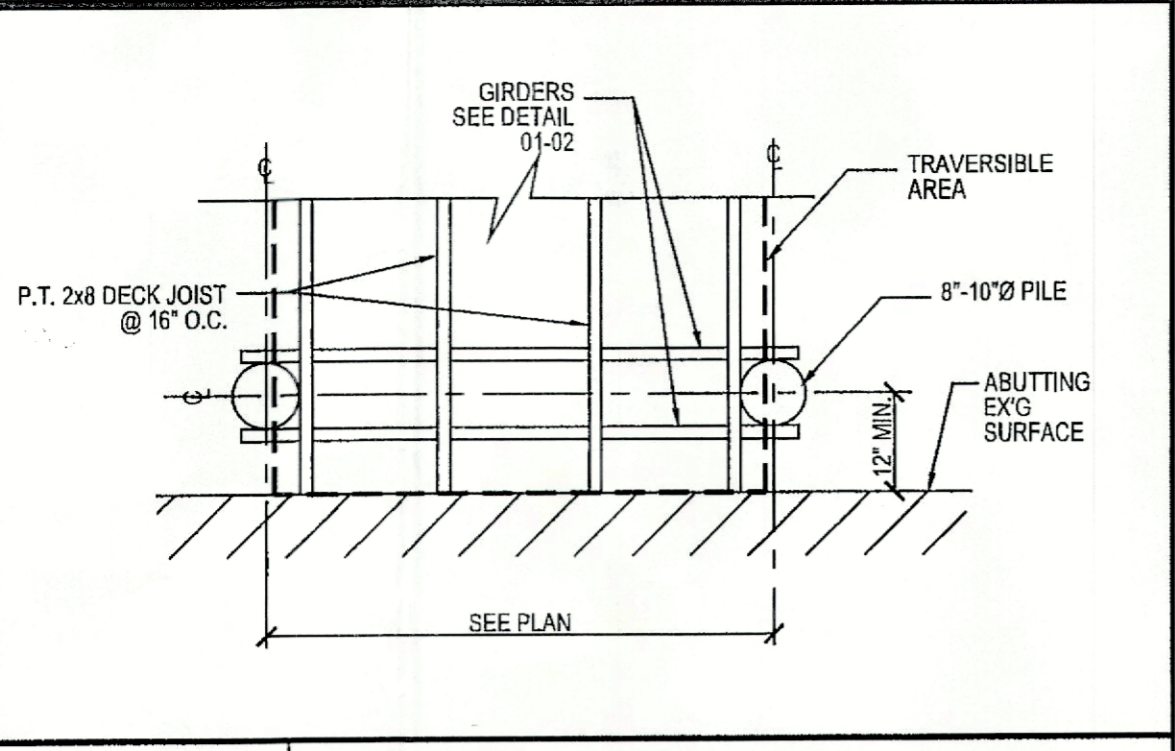
DESIGN: ALL DIMENSIONS SHALL BE RATED IN ACCORDANCE WITH THE STANDARDS OF THE LATEST EDITION OF THE AMERICAN WOOD COUNCIL'S NATIONAL DESIGN SPECIFICATIONS.

WOOD MEMBERS: SHALL BE SYP #2 U.N.O. WOOD EXPOSED TO WEATHER OR IN DIRECT CONTACT WITH CONCRETE SHALL BE EITHER PRESSURE TREATED OR A NATURALLY DURABLE SPECIES.

FASTENERS: IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE STAINLESS STEEL.

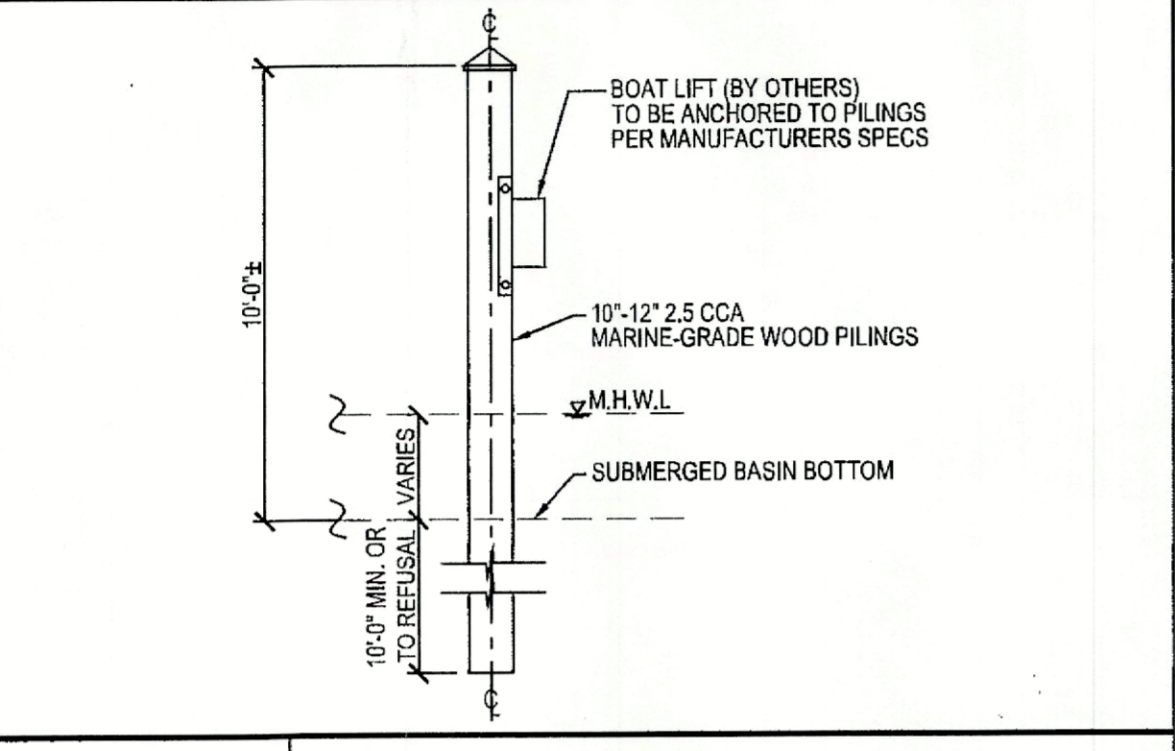
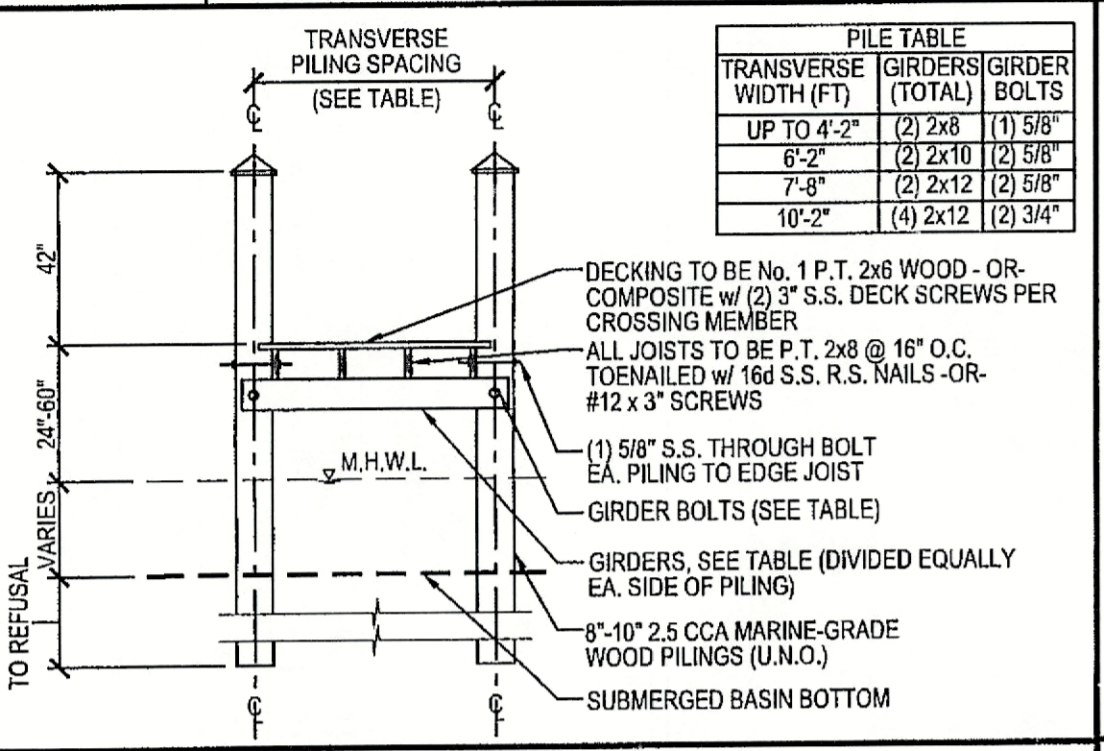
BOLTS: ALL HEX OR CARRIAGE STYLE BOLTS SHALL BE ASTM 1558, GRADE 36 OR GREATER. BOLTS SHALL BE HDG (G185 MARINE GRADE) OR STAINLESS STEEL.

M.H.W.L.: MEAN HIGH WATER LEVEL.



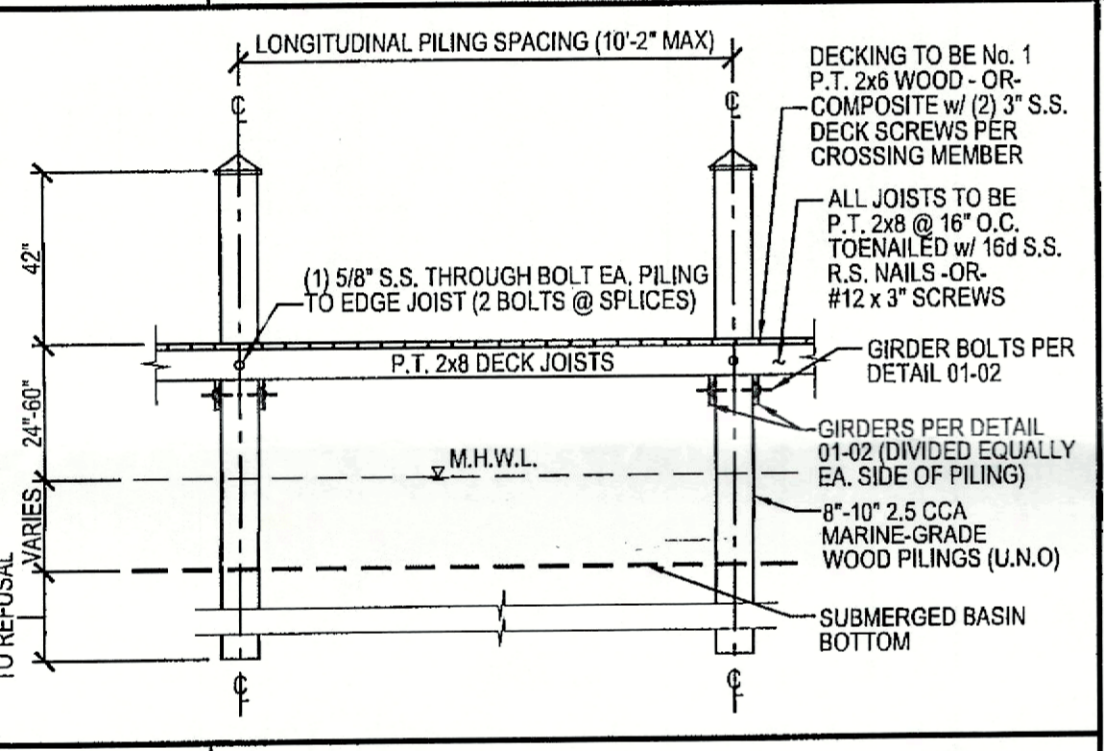
01-01 GENERAL SPECIFICATIONS
SCALE: N.T.S. PEDESTRIAN WOOD DOCKS

01-06 ABUTTING EX'G SURFACE
SCALE: N.T.S. TYP. DOCK DETAIL



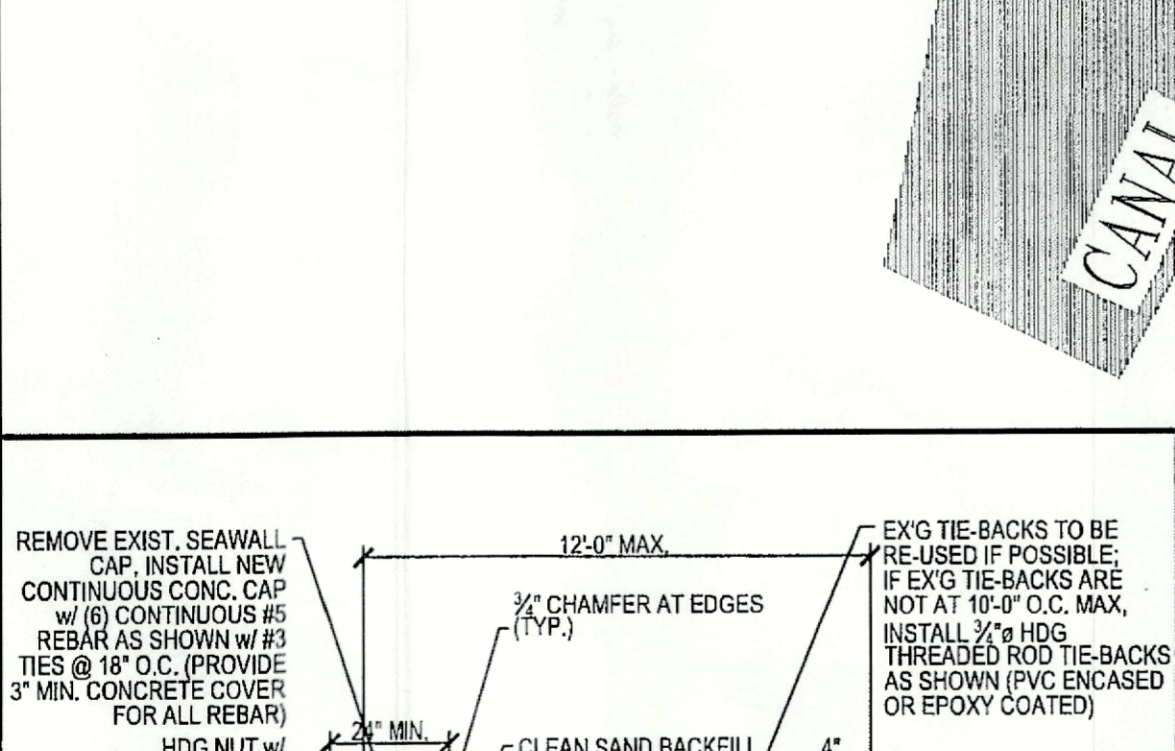
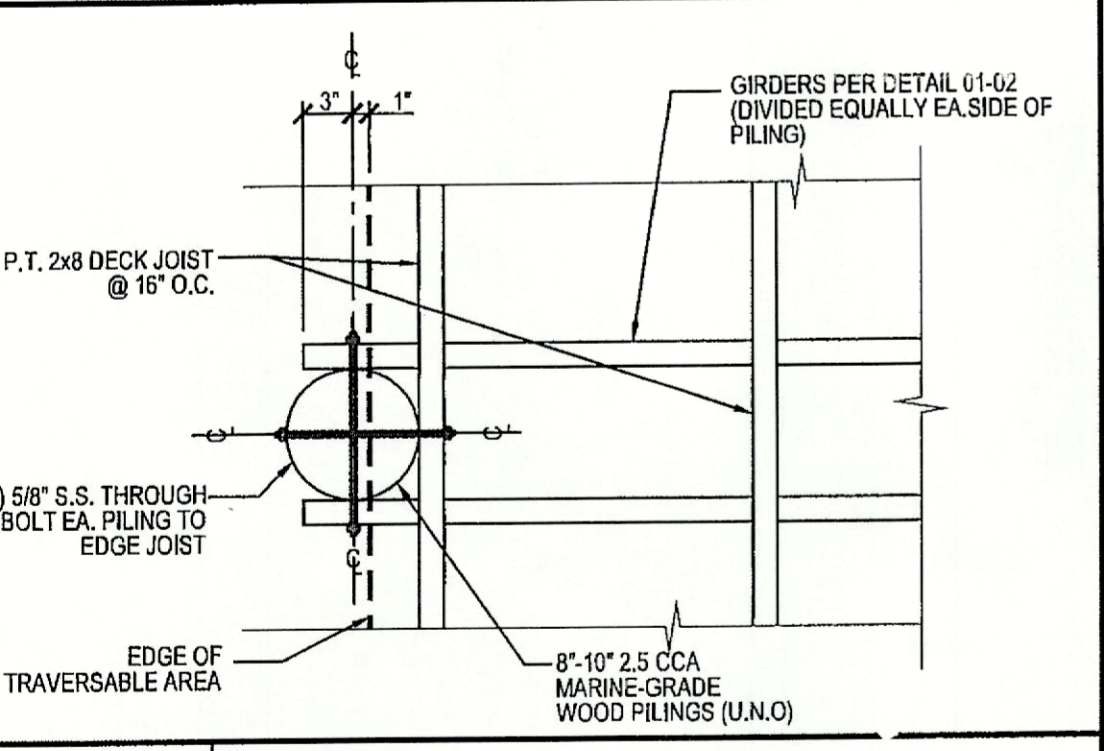
01-02 TRANSVERSE PILE SECTION
SCALE: N.T.S. TYP. UNLESS NOTED OTHERWISE

01-07 EQUIPMENT PILINGS
SCALE: N.T.S. TYP. UNLESS NOTED OTHERWISE



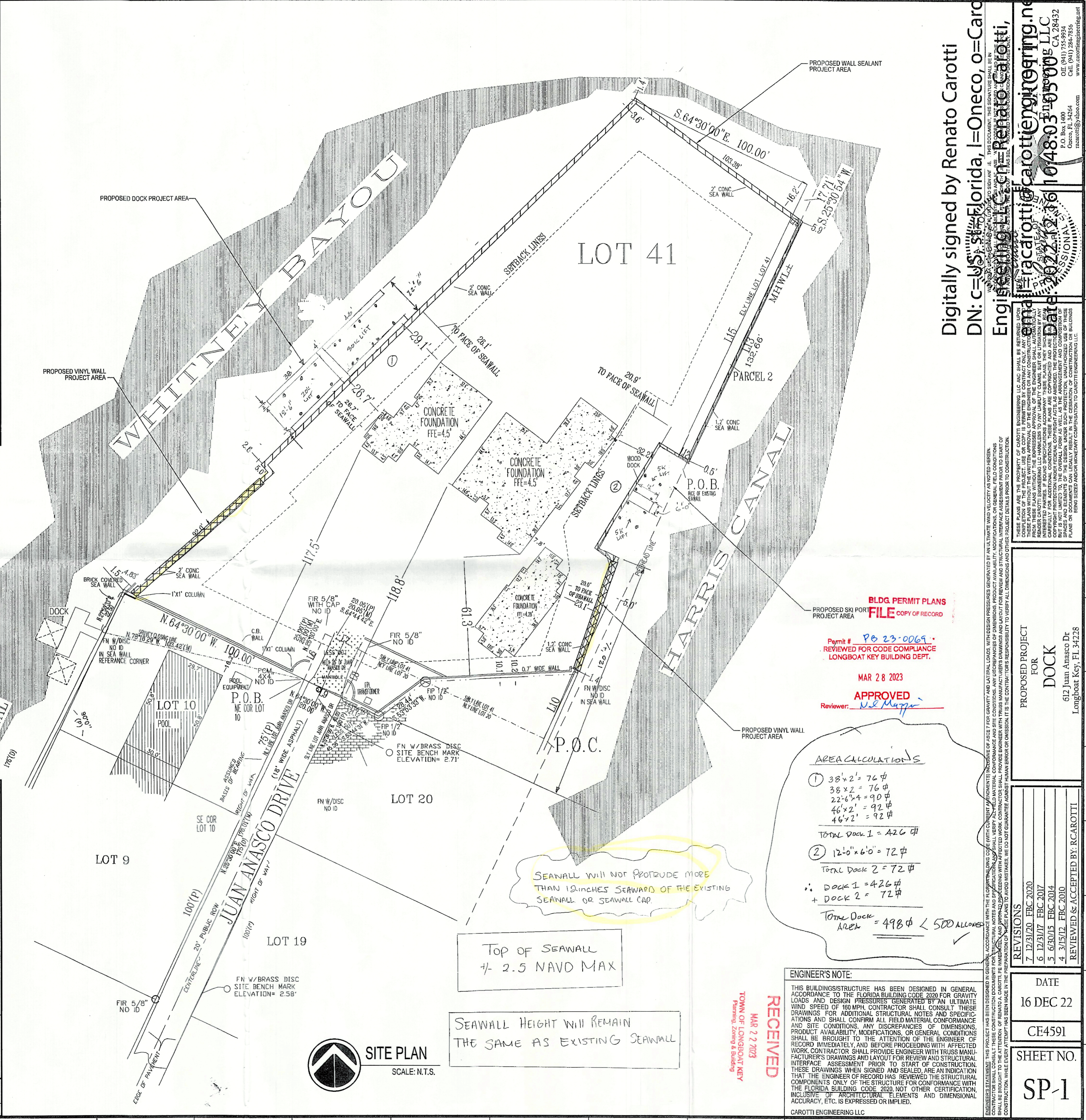
01-03 LONGITUDINAL PILE SECTION
SCALE: N.T.S. TYP. UNLESS NOTED OTHERWISE

01-04 MID-SPAN CONNECTION
SCALE: N.T.S. TYP. UNLESS NOTED OTHERWISE



01-05 CORNER CONNECTION
SCALE: N.T.S. TYP. UNLESS NOTED OTHERWISE

01-51 CROSS SECTION AT SEAWALL
SCALE: N.T.S. TYP. REPAIR UNLESS NOTED OTHERWISE



AREA CALCULATIONS

① $38' \times 2' = 76 \phi$
 $38' \times 2' = 76 \phi$
 $22' \times 4' = 90 \phi$
 $46' \times 2' = 92 \phi$
 $46' \times 2' = 92 \phi$
TOTAL DOCK 1 = 426 ϕ

② $12' \times 6' = 72 \phi$
TOTAL DOCK 2 = 72 ϕ

**\therefore DOCK 1 = 426 ϕ
 + DOCK 2 = 72 ϕ
 TOTAL DOCK AREA = 498 ϕ < 500 ALLOWS**

ENGINEER'S NOTE:

THIS BUILDING/STRUCTURE HAS BEEN DESIGNED IN GENERAL ACCORDANCE TO THE FLORIDA BUILDING CODE 2020 FOR GRAVITY LOADS AND DESIGN PRESSURES GENERATED BY AN ULTIMATE WIND SPEED OF 160 MPH. CONTRACTOR SHALL CONSULT THESE DRAWINGS FOR ADDITIONAL STRUCTURAL NOTES AND SPECIFICATIONS AND SHALL CONFIRM ALL FIELD MATERIAL CONFORMANCE AND SITE CONDITIONS. ANY DISCREPANCIES OF DIMENSIONS, PRODUCT AVAILABILITY, MODIFICATIONS, OR GENERAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY, AND BEFORE PROCEEDING WITH AFFECTED WORK. CONTRACTOR SHALL PROVIDE ENGINEER WITH TRUSS MANUFACTURER'S DRAWINGS AND LAYOUT FOR REVIEW AND STRUCTURAL INTERFACE ASSESSMENT PRIOR TO START OF CONSTRUCTION. THESE DRAWINGS WHEN SIGNED AND SEALED, ARE AN INDICATION THAT THE ENGINEER OF RECORD HAS REVIEWED THE STRUCTURAL COMPONENTS ONLY OF THE STRUCTURE FOR CONFORMANCE WITH THE FLORIDA BUILDING CODE 2020. NOT OTHER CERTIFICATION, INCLUDING ARCHITECTURAL ELEMENTS AND DIMENSIONAL ACCURACY, ETC. IS EXPRESSED OR IMPLIED.

CAROTTI ENGINEERING LLC

Digitally signed by Renato Carotti
 DN: c=US, st=Florida, l=Oneco, o=Carotti Engineering LLC, email=renato@carottiengineering.com, ou=Carotti Engineering LLC, cn=Renato Carotti

RECEIVED
 MAR 2 2023
 TOWN OF LONGBOAT KEY
 Planning, Zoning & Building

PROPOSED PROJECT FOR DOCK
 612 Juan Anasco Dr.
 Longboat Key, FL 34228

REVISIONS

NO.	DATE	DESCRIPTION
1	7/23/20	FBC 2020
2	12/31/17	FBC 2017
3	6/30/15	FBC 2014
4	3/15/12	FBC 2010

DATE 16 DEC 22
CE 4591
SHEET NO. SP-1