McLAUGHLIN ENGINEERING COMPANY
LB#285
ENGINEERING * SURVEYING * PLATTING * LAND PLANNING
400 N.E. 3rd AVENUE FORT LAUDERDALE, FLORIDA
33301 PHONE (954) 763-7611 * FAX (954) 763-7615

SPECIAL PURPOSE LOCATION SURVEY

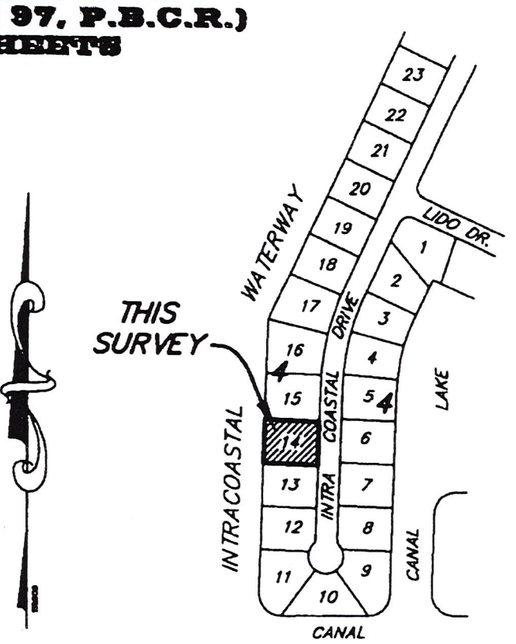
TO ACCOMPANY REQUEST FOR ARMY CORPS OF ENGINEERS PERMIT THE INTRACOASTAL WATERWAY ADJACENT TO LOT 14, BLOCK 4, BEL LIDO (PLAT BOOK 25, PAGE 97, P.B.C.R.)

SHEET 1 OF 2 SHEETS

COORDINATE NOTE:

HORIZONTAL ACCURACY:
The channel location as shown hereon refers to U.S. ARMY CORPS OF ENGINEERS (ACOE) 10ft Project Control Map, File 88-24,258, Sheet 12 of 20. The Channel Cut Reference Stations bearings and coordinates have been transformed to the North American Datum 1983 High Accuracy Reference Network (NAD83(HARN)) as furnished by the ACOE. The coordinates shown on the property are from control that was shot in the field by using the Global Positioning System (GPS) and meet or exceed the one (1) foot tolerance requirements of the AOCE.

VERTICAL ACCURACY:
The Elevations shown hereon refer to North American Vertical Datum 1988, utilizing National Geodetic Survey Bench Mark #DK3510, ELEVATION = 3.46 with a Latitude of 26°24'08.16"N and Longitude of 80°04'20.89"W and meet or exceed the 0.5 foot vertical tolerance requirements of the AOCE and are indicated thus: 5.93+



LOCATION MAP
NOT TO SCALE

UPLAND LEGAL DESCRIPTION:

Lot 14, Block 4, BEL LIDO, according to the plat thereof, as recorded in Plat Book 25, Page 97, of the public records of Palm Beach County, Florida.

Said lands situate lying and being in Section 4, Township 47 South, Range 43 East, Town of Highland Beach, Palm Beach County, Florida.

GENERAL NOTES:

1) This survey reflects all easements and rights-of-way, as shown on above referenced record plat(s). The subject property was not abstracted for other easements road reservations or rights-of-way of record by McLaughlin Engineering Company.
2) Underground improvements if any not located.
3) This drawing is not valid unless sealed with an embossed surveyors seal.
4) Survey information does not infer Title or Ownership.
5) The purpose of this survey is to establish the horizontal positioning of improvements, whether proposed or existing, within the Intracoastal Waterway using the criteria established in that certain Memorandum for Record (CESAJ-RD (1200a)) Dated July 18, 2013.

CERTIFICATION:

We hereby certify that this survey meets the Standards of Practice as set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 5J-17.05 Florida Administrative Code, pursuant to Section 472.027, Florida Statutes.

Dated at Fort Lauderdale, Florida, this 20th day of July 2021.

McLAUGHLIN ENGINEERING COMPANY

JERALD A. McLAUGHLIN
Registered Land Surveyor No. 5269
State of Florida.

FIELD BOOK NO. _____ DRAWN BY: JMMjr

JOB ORDER NO. V-6217 CHECKED BY: _____

C:\JMMjr/2021/V6217(XY)

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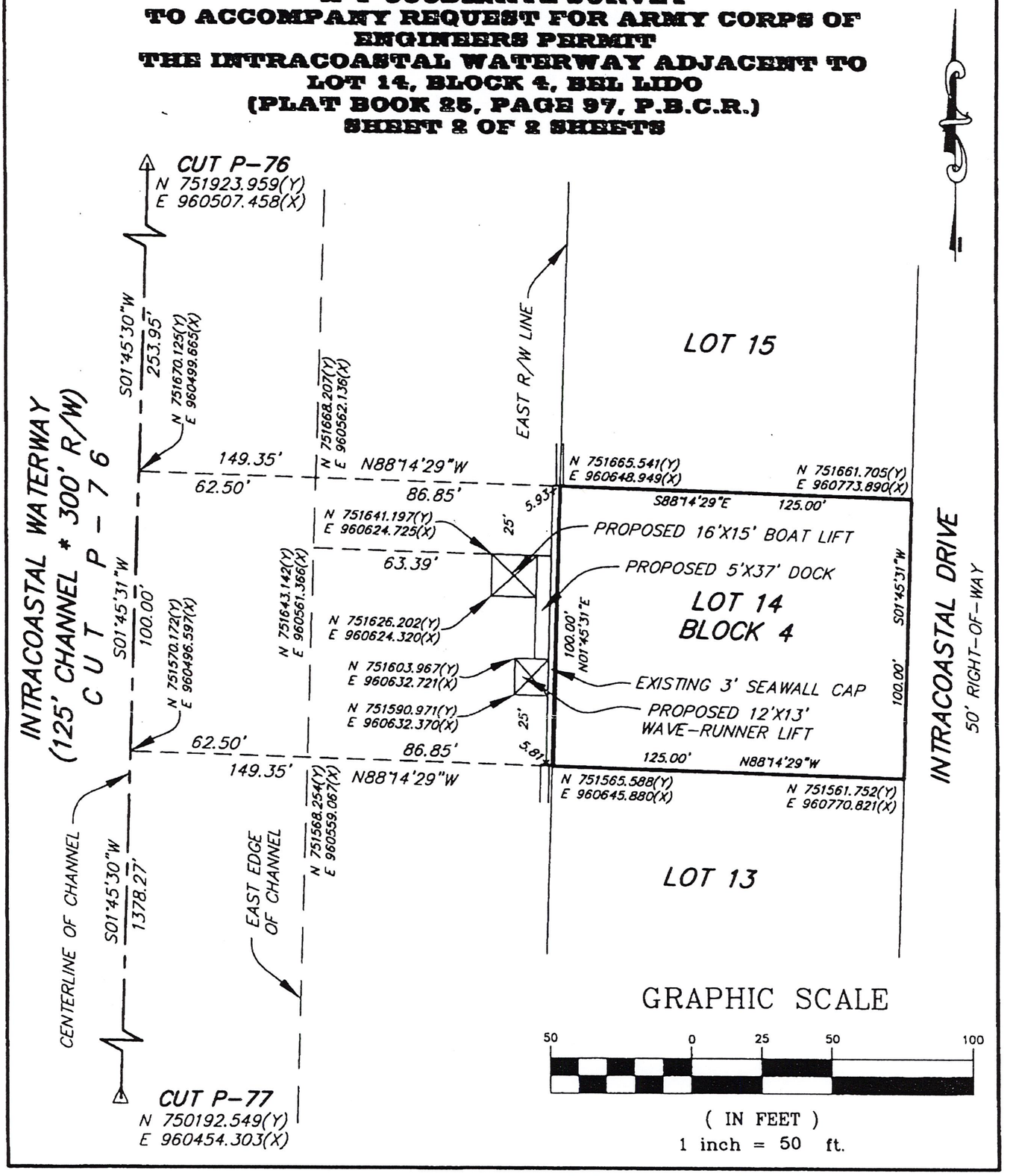
X-Y COODINATE SURVEY
TO ACCOMPANY REQUEST FOR ARMY CORPS OF ENGINEERS PERMIT
THE INTRACOASTAL WATERWAY ADJACENT TO LOT 14, BLOCK 4, BEL LIDO (PLAT BOOK 25, PAGE 97, P.B.C.R.)
SHEET 2 OF 2 SHEETS



FIELD BOOK NO. _____ DRAWN BY: JMMjr

JOB ORDER NO. V-6217 CHECKED BY: _____

C: \JMMjr/2021/V6217(XY)

See attached survey supplied by owner for exact property information.

Location Address	4326 INTRACOASTAL DR
Municipality	HIGHLAND BEACH
Parcel Control Number	24-43-47-04-02-004-0140
Subdivision	BEL LIDO IN
Official Records Book/Page	31844 / 1516
Sale Date	OCT-2020
Legal Description	BEL LIDO LT 14 BLK 4

INTRACOASTAL WATERWAY
(125' CHANNEL * 300'R/W)

Existing seawall and cap to remain

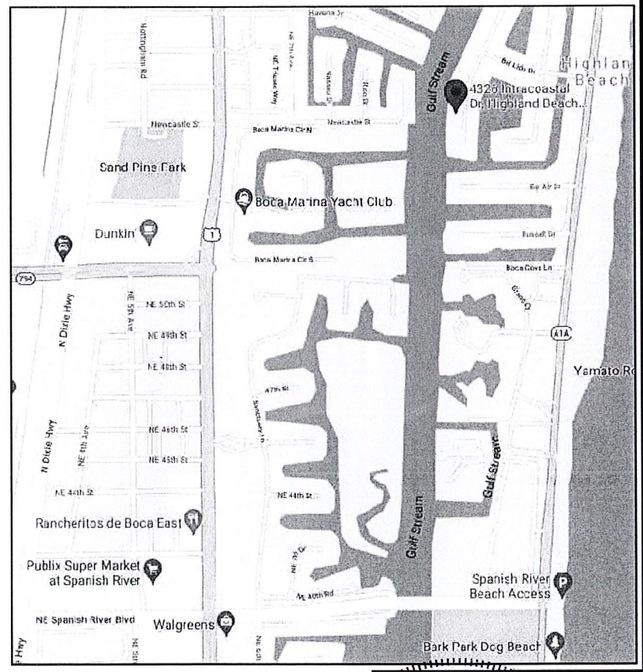
S88°14'29"E 125.00'

LOT 14
BLOCK 4

S01°45'31"W 100.00'

100'

125.00' N88°14'29"W



Location Map

MARK E. WEBER
LICENSE
No. 53895
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Sheet 1 of 1

Existing Site Plan

Scale: 1" = 20'

PREPARED FOR:
EAST COAST BOATLIFT, INC
1040 NE 44 CT SUITE C
OAKLAND PARK, Fl 33334
(954) 772-6810

Project:
Proposed Dock
Anthony Delprete
4326 Intracoastal Drive
Highland Beach, Florida 33487

MARK E. WEBER, P.E.
LICENSE #53895 | CA 30702
MW ENGINEERING, INC
902 NE 1 Street Suite #2
Pompano Beach, Florida 33060
Ofc: 754-333-0877
WWW.MwEngineering.net

Provide 2 ladders, 1 at or near end of dock

See attached survey supplied by owner for exact property information.

Location Address	4326 INTRACOASTAL DR
Municipality	HIGHLAND BEACH
Parcel Control Number	24-43-47-04-02-004-0140
Subdivision	BEL LIDO IN
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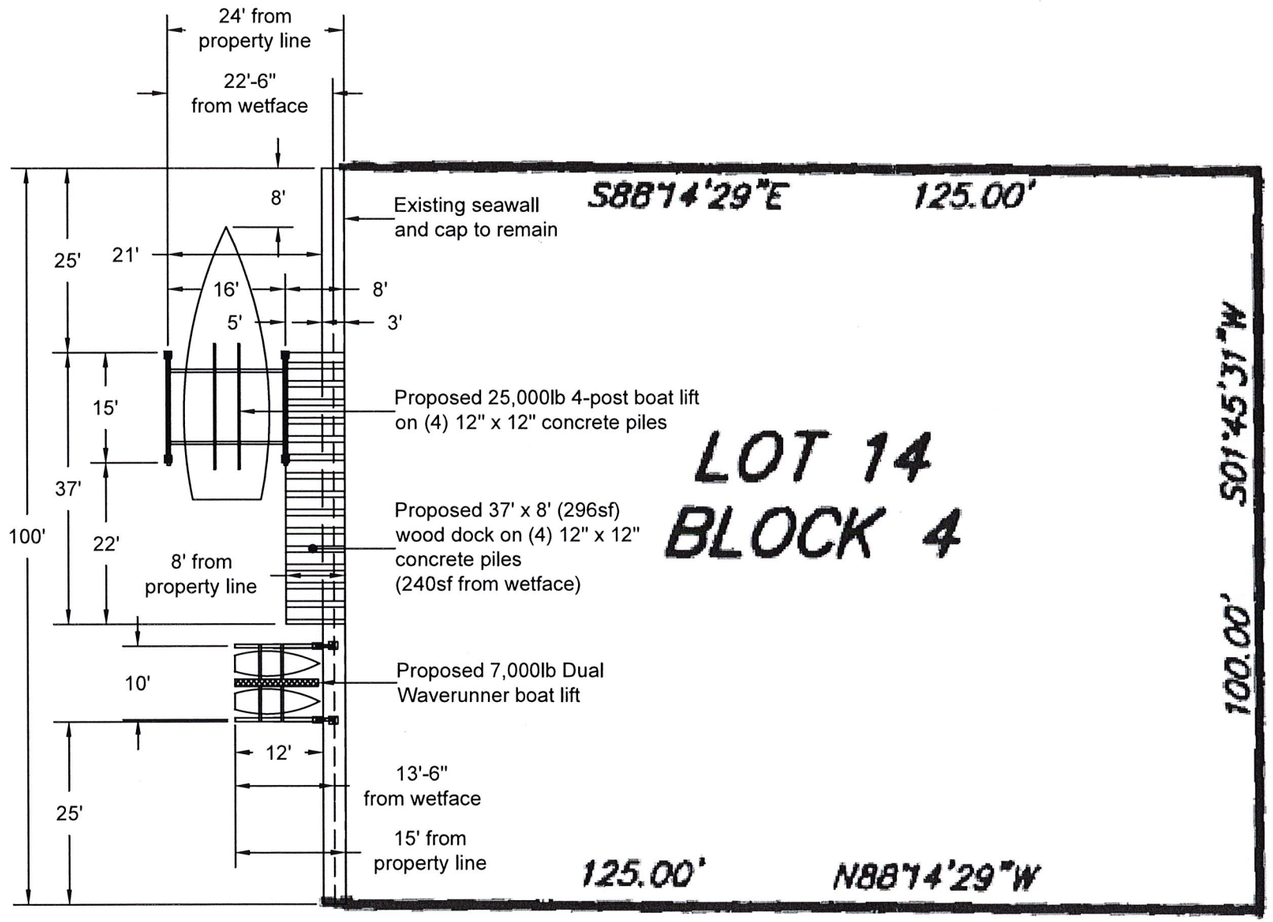
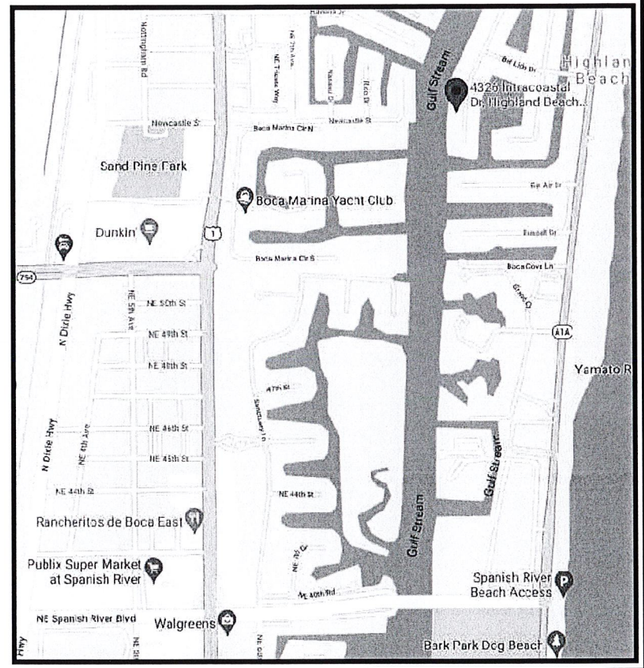
HIGHLAND BEACH
BUILDING DEPARTMENT

INTRACOASTAL WATERWAY
(125' CHANNEL * 300'R/W)





Location Map

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BUILDING DEPARTMENT

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PROFESSIONAL ENGINEER

Sheet 2 of 6

Proposed Site Plan

Scale: 1" = 20'

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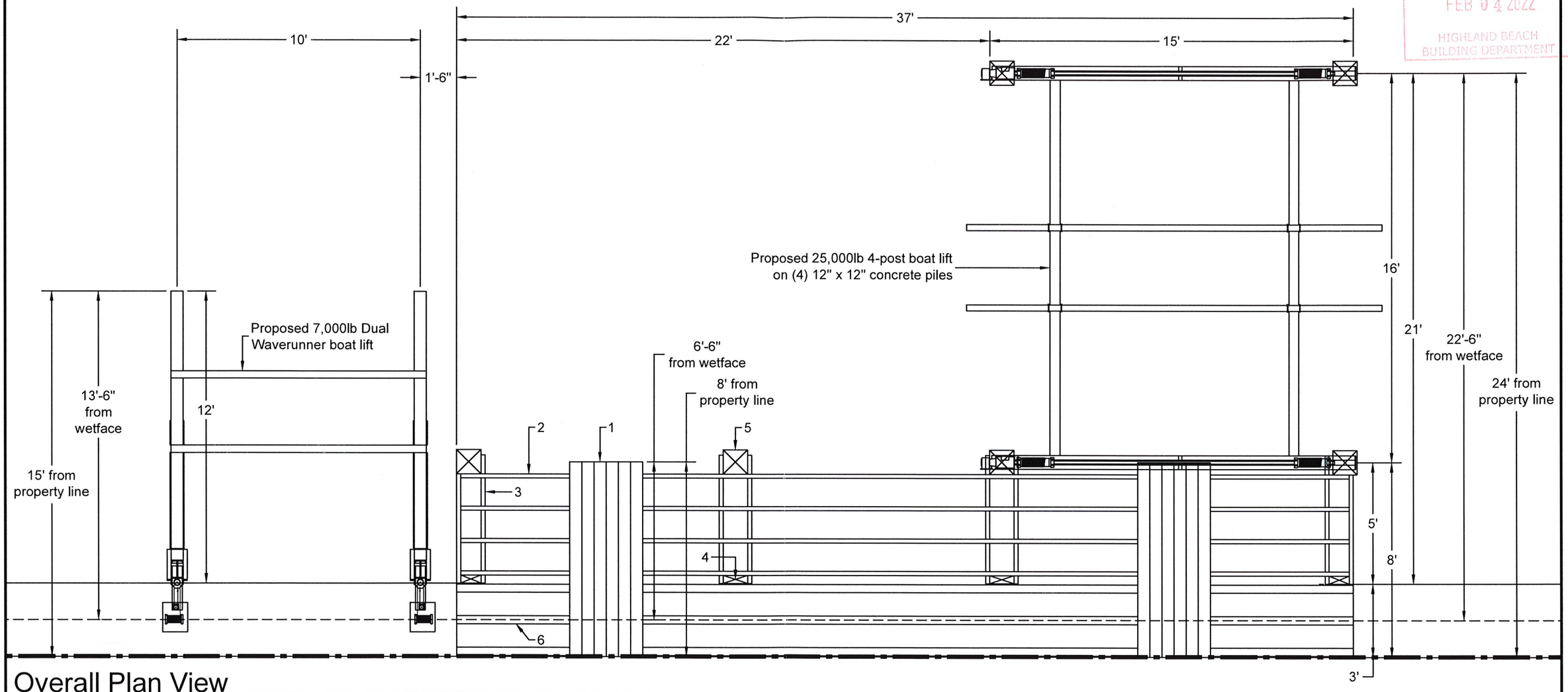

Overall Plan View

Scale 1/4"= 1'-0"

1. 1x6 wood HDPE decking with 2 $\frac{3}{4}$" captor s.s. deck screws (2) per stringer
2. 2x8 stringers @ 16" max spacing with (2) 16d toe nails into substringers
3. 2x8 substringers with (2) $\frac{1}{2}$"Ø s.s. lag bolts @ piles and drop hangers, minimum embedment = 4"
4. 4x12 drop hanger with (2) $\frac{1}{2}$"Ø s.s. wedge anchors into existing seawall cap, minimum embedment = 4"
5. New 12" x 12" concrete piles
6. 2x4 sleepers with $\frac{1}{2}$"Ø wedge anchors @ 36" on center into existing seawall cap, minimum embedment = 4"

Sheet 3 of 4

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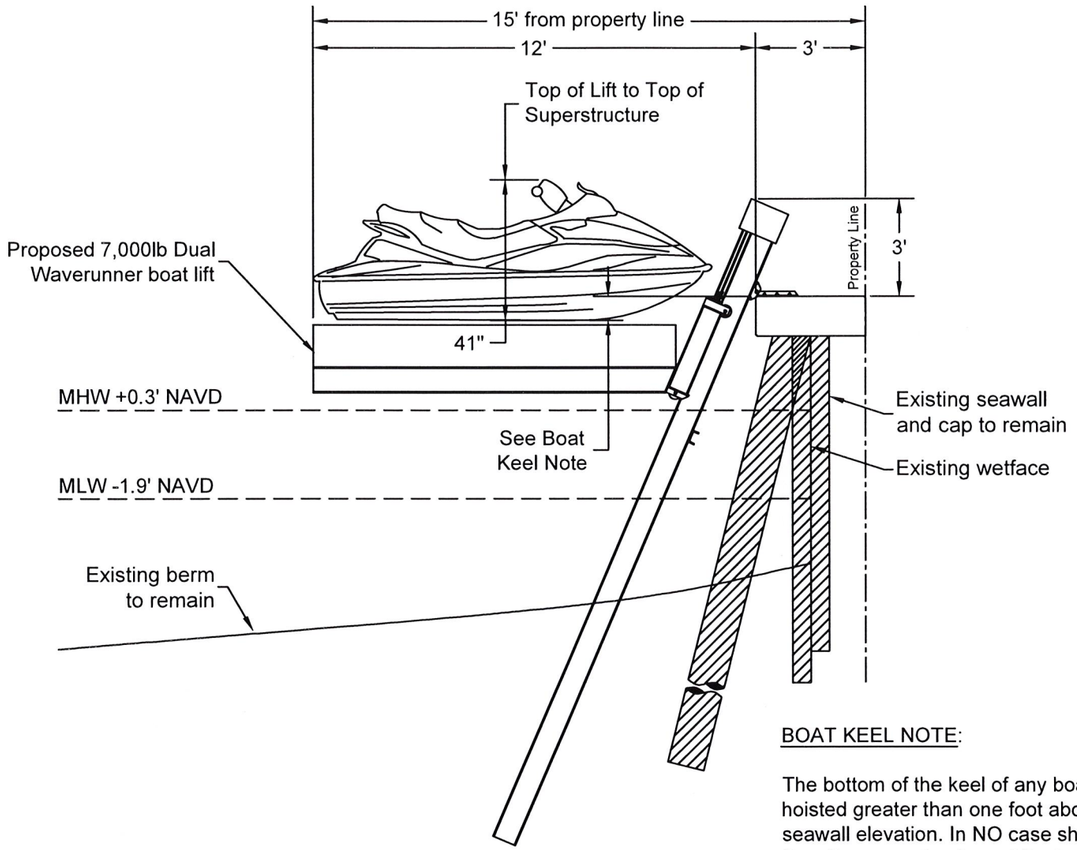
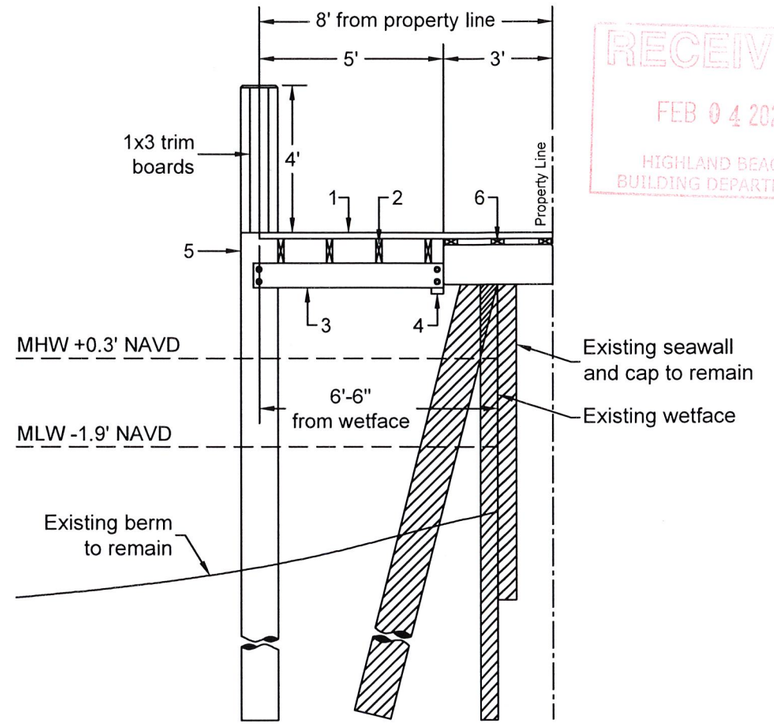


Dual Waverunner Boat Lift Section

Scale 1/4"= 1'-0"

BOAT KEEL NOTE:

The bottom of the keel of any boat shall not be hoisted greater than one foot above the minimum seawall elevation. In NO case shall the lift be higher than the superstructure of the boat when lifted. (Per Town of Highland Beach Code Ordinances, Section 30-131, - Definition of Terms)



Dock Section

Scale 1/4"= 1'-0"

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HIGHLAND BEACH BUILDING DEPARTMENT

1. 1x6 wood HDPE decking with 2 ¾" captor s.s. deck screws (2) per stringer
2. 2x8 stringers @ 16" max spacing with (2) 16d toe nails into substringers
3. 2x8 substringers with (2) ½"Ø s.s. lag bolts @ piles and drop hangers, minimum embedment = 4"
4. 4x12 drop hanger with (2) ½"Ø s.s. wedge anchors into existing seawall cap, minimum embedment = 4"
5. New 12" x 12" concrete piles
6. 2x4 sleepers with ½"Ø wedge anchors @ 36" on center into existing seawall cap, minimum embedment = 4"

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HIGHLAND BEACH BUILDING DEPARTMENT

FEB - 3 2022

MARK E. WEBER LICENSE No. 53895 STATE OF FLORIDA PROFESSIONAL ENGINEER

Sheet 4 of 6

PREPARED FOR:

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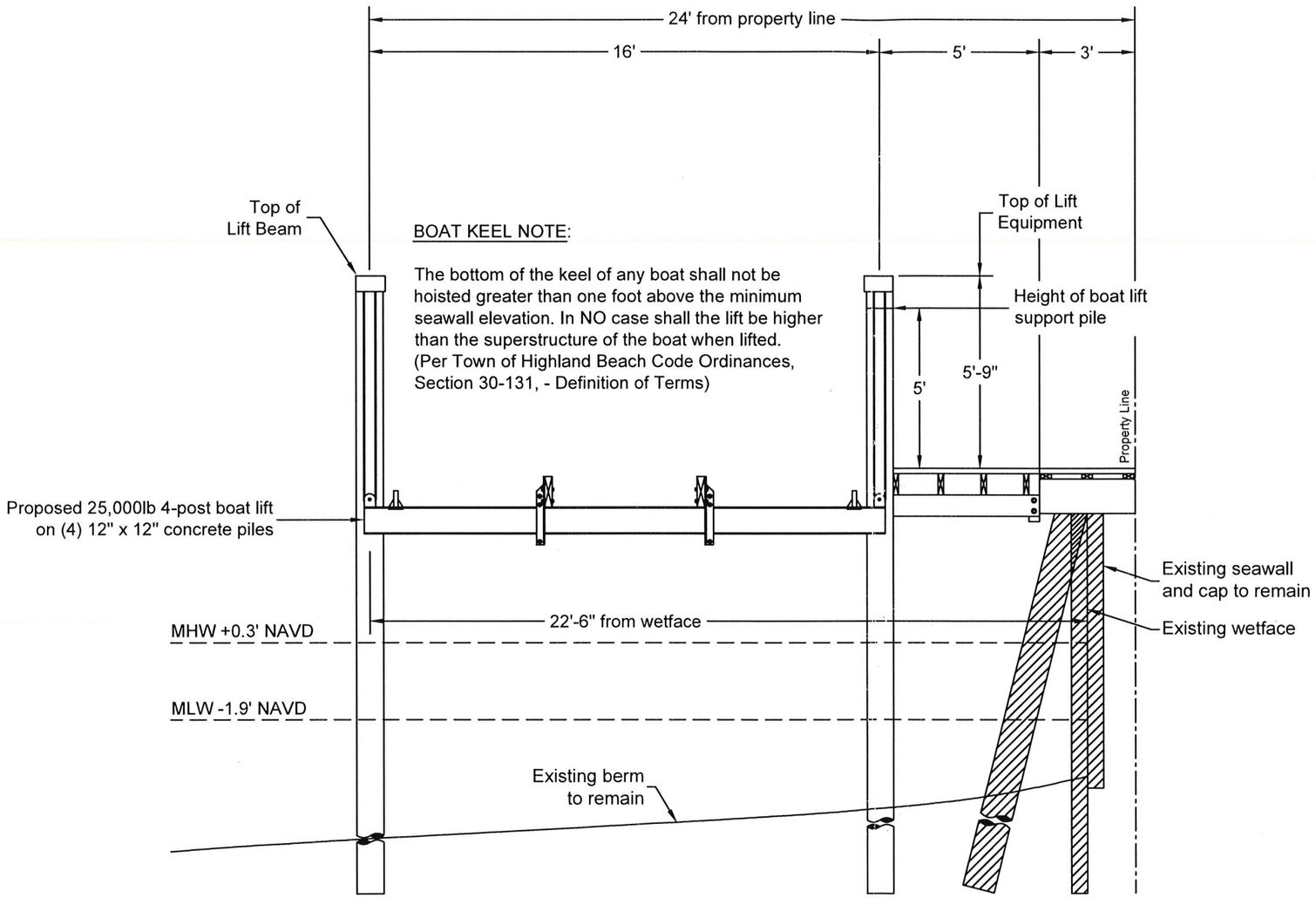

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4-post Boat Lift Section

Scale 1/4"= 1'-0"

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GENERAL NOTES:

1. Construction to follow the Florida Building Code 7th Edition (2020) and amendments as applicable and all Local, State and Federal Laws.
2. Licensed contractor shall verify the existing conditions prior to the commencement of the work. Any conflicts or omissions between existing conditions or the various elements of the working drawing shall be brought to the attention of the Engineer prior to the commencement of the work. The Licensed Contractor and all subcontractors are responsible for all lines, elevations, and measurements in connection with their work.
3. Do not scale drawings for dimensions.
4. Any deviation and/or substitution from the information provided herein shall be submitted to the Engineer for approval prior to commencement of work.
5. All unanticipated or unforeseen demolition and/or new construction conditions which require deviation from the plans and notes herein shall be reported to the Engineer prior to commencement of work.
6. All new work and/or materials shall conform to all requirements of each administrative body having jurisdiction in each appertaining circumstance.
7. All new materials and/or patchwork shall be provided to match existing materials and/or adjoining work where practical except as specifically noted herein.
8. Licensed Contractor to shall use all possible care to protect all existing materials, surfaces, and furnishings from damage during all phases of construction.
9. Licensed Contractor to verify location of existing utilities prior to commencing work.
10. The Licensed contractor to install and remove all shoring and bracing as required for the proper execution of the work.
11. Licensed Contractor to obtain all permits as necessary from all Local, State, and Federal agencies.
12. Turbidity barriers to be marked with site contractor's company name using permanent markings no smaller than 3 inches in height on the top of the barrier.

PILE DRIVING:

1. Piles shall be driven using an approved cushion block consisting of material so arranged so as to provide the transmission of hammer energy.
2. Piles shall be driven to required capacity (min. 10 tons) a minimum of 8' into berm or refusal.
3. Piles shall be driven with a drop hammer or gravity hammer provided the hammer shall weight no less than 3,000 pounds, and the fall of the hammer shall not exceed 6'.
4. Piles shall be driven with a variation of not more than $\frac{1}{4}$ inch per foot from the vertical, or from the batter line indicated, with a maximum variation of the head of the pile from the position shown on the plans of not more than three inches.
5. Where piling must penetrate strata offering high resistance to driving, the structural engineer of record or special inspector may require that the piles be set in pre-drilled or punched holes. The piles shall reach their final penetration by driving.

CONCRETE NOTES:

1. Concrete shall conform to ACI 318-14 and shall be regular weight, sulfate resistant, with a design strength of 5000 psi at 28 days with a maximum water-cementitious materials ratio, by weight aggregate concrete of 0.40.
2. Owner shall employ and pay for testing services from an independent testing laboratory for concrete sampling and testing in accordance with ASTM.
3. Licensed contractor is responsible for the adequacy of forms and shoring and for safe practice in their use and removal.
4. Concrete cover shall be 3" unless otherwise noted on the approved drawings.
5. Reinforcing steel shall be in conformance with the latest version of ASTM A615 Grade 60 specifications. All reinforcement shall be placed in accordance with ACI 315 and ACI Manual of Standard Practice.
6. Splices in reinforcing bars shall be not be less than 48 bar diameters and reinforcing shall be continuous around all corners and changes in direction. Continuity shall be provided at corners or changes in direction by bending the longitudinal steel around the corner 48 bar diameters.
7. Defective, cracked or loose concrete areas must be cut out, the rebar must be cleaned, coated with zinc and repaired with at least 3" of expoxy-concrete mix or gunnite concrete with sulfate-resistant cement.

PILE NOTES:

1. Concrete piles shall attain 6000 psi compressive strength in 28 days.
2. Concrete piles shall be reinforced with four - $\frac{7}{16}$"Ø lo-lax strands, 270 kips, and 5 ga. spiral ties.
3. Concrete piles shall be 12"x12" square, minimum length of 20'.
4. Concrete piles shall be cut to leave strands exposed a min. of 18" and tied to dock or cap steel or drill and epoxy (2) #5 8"x12" hook bars 6" into pile.

WOOD DOCK NOTES:

1. All materials to be pressure treated pine unless otherwise noted.
2. All frame work materials to be Southern Pine Grade #1
3. All Decking materials to be grade #1 unless otherwise noted.
4. All hardware to be Stainless Steel or Galvanized unless otherwise noted.

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Sheet 6 of 6

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