

Prepared By: Mark Liebel
941-809-6410
Duncan Seawall Dock & Boat Lift, LLC
1714 Independence Blvd.
Sarasota, FL 34234



Scale:
1" = 10'
Date:
3/21/24

Prepared For: David Kappos
876 Tarawitt Drive
Longboat Key, FL 34228

REVIEWED FOR
CODE COMPLIANCE



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PB24-0290
Jonathan Pettus

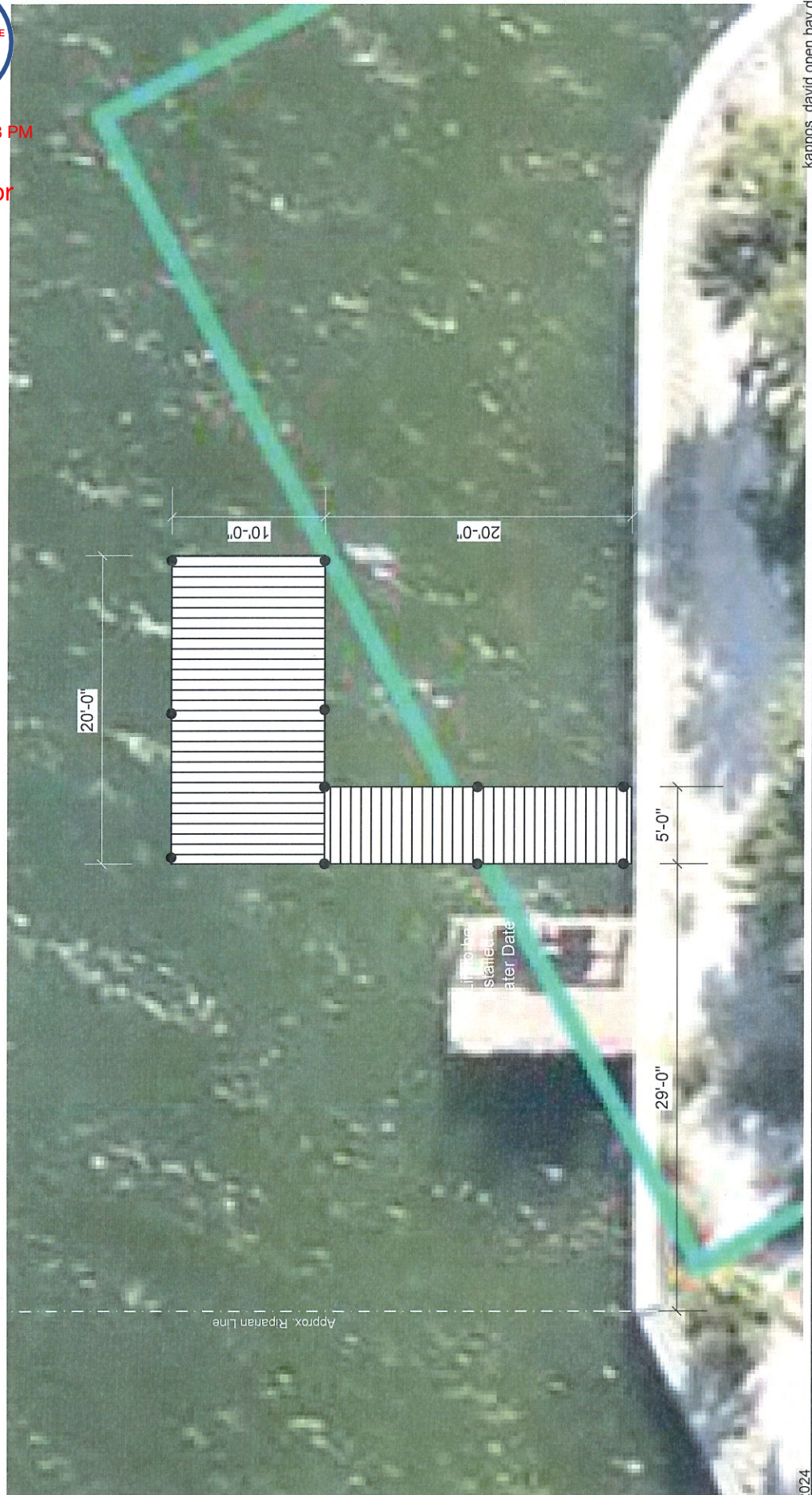
Open Sarasota
Bay

Scope of Work:
Remove existing g dock.
Install new 300 sq. ft. dock.
Dock to be level with cap.

● = Pilings cut above the decking
○ = Pilings cut below the decking



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Canal Width= 28'
30% = 8.4' max. out.
Lift will extend 8' from the seawall

Scope of Work:
Install new 89 sq. ft. dock.
Dock to be level with cap.
Install new 10,000-lb capacity lift.
No portion of the lift with the exception of the guide posts will exceed 5' above the decking of the dock.

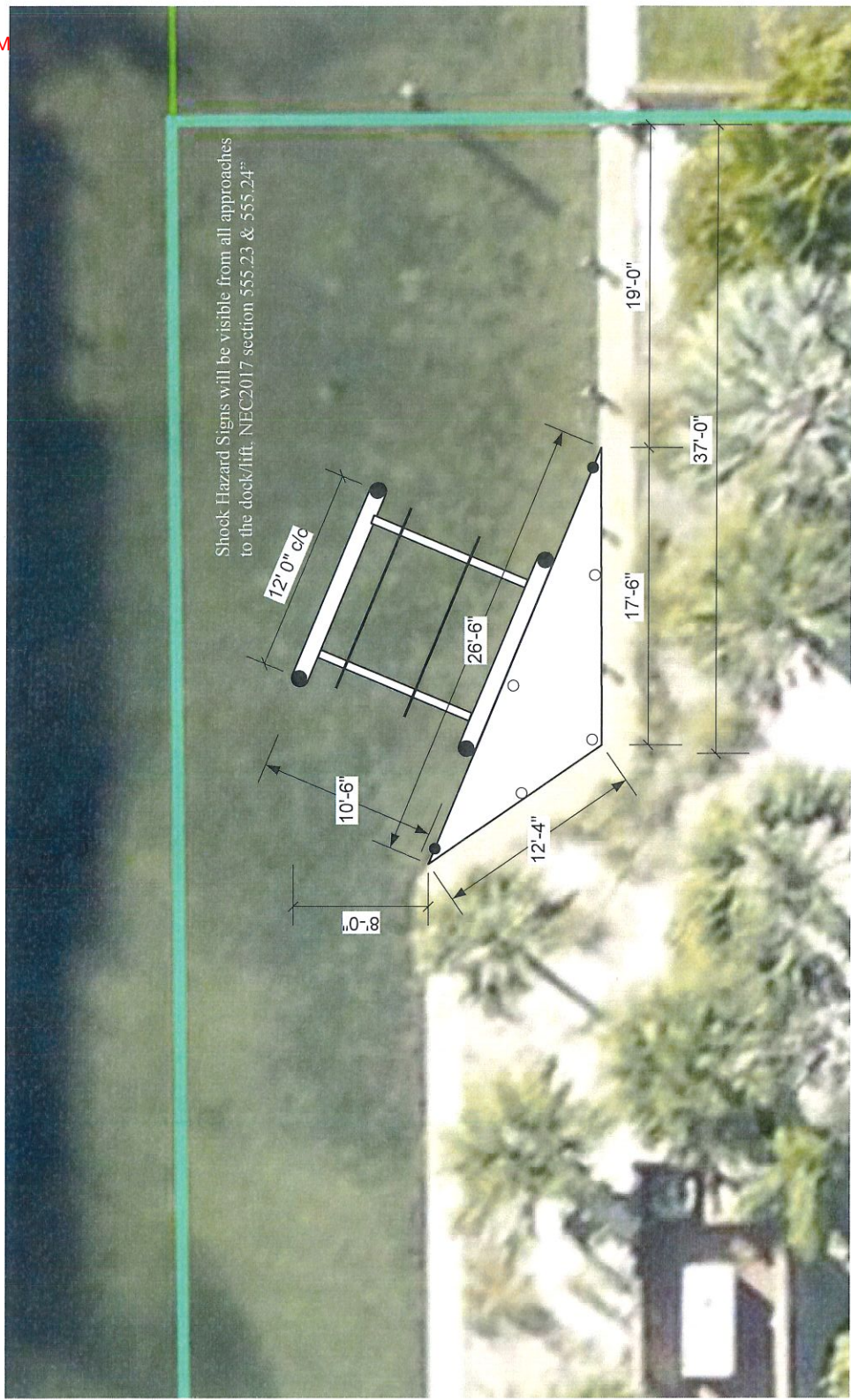
● = Pilings cut above the decking
○ = Pilings cut below the decking

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Dock and Lift on Canal



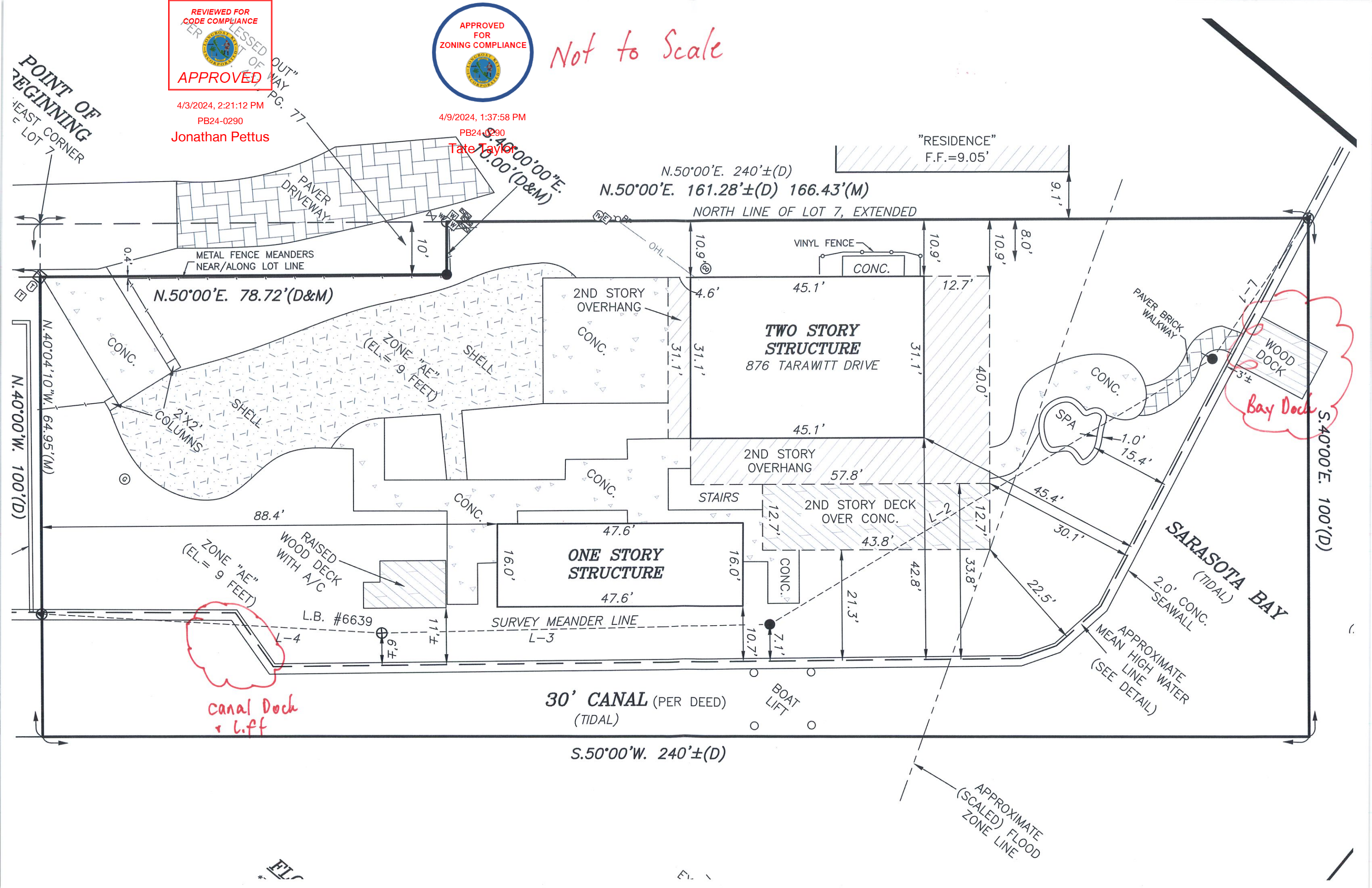


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Not to Scale





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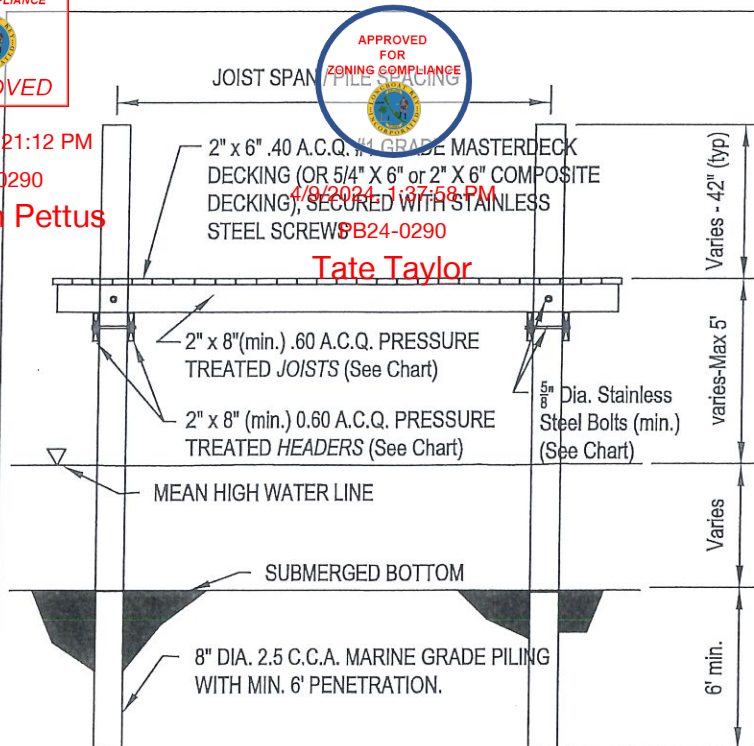
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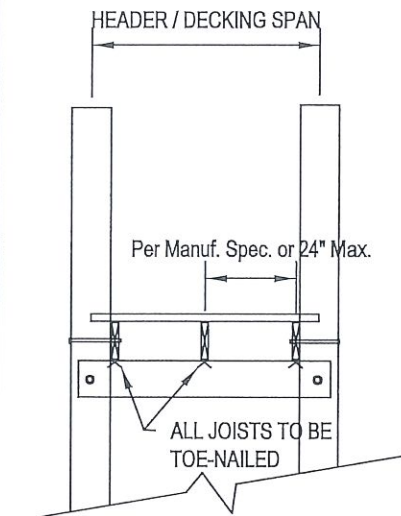


LONGITUDINAL DOCK CROSS SECTION

HEADER SPAN (Feet)	JOIST SPAN (Feet)	HEADER SIZE (Nominal Inches)	JOIST SIZE (Nominal Inches)	BOLT SIZE (Qty, Inches)
<6	10	2X8	2x8	1-5/8
8	10	2x8	2x8	2-5/8
10	10	2x10	2x8	2-5/8
12	10	2x12	2x10	2-5/8
<6	12	2X8	2x8	1-5/8
7	12	2x8	2x8	2-5/8
9	12	2x10	2x8	2-5/8
11	12	2x12	2x10	2-3/4

GENERAL NOTES:

- IN LIEU OF SPECIFIC CODE REQUIREMENTS, RESIDENTIAL DOCK HAS BEEN DESIGNED FOR THE FOLLOWING MINIMAL CONDITIONS:
 - LIVE LOAD: 40 PSF
 - DEAD LOAD: 10 PSF
 - HURRICANE UPLIFT: 30 PSF
 - DEFLECTION LIMITS: L/360 (LIVE LOAD)
- ALL DIMENSIONAL LUMBER SHALL BE MINIMUM NO. 2 SOUTHERN YELLOW PINE.
- DESIGN MEETS MINIMUM REQUIREMENTS OF THE 2023 8th Edition FLORIDA BUILDING CODE. WIND SPEED 170 MPH EXP. D.



TRANSVERSE DOCK CROSS SECTION

TYPICAL CROSS SECTIONS FOR
RESIDENTIAL DOCKS

DUNCAN SEAWALL
1714 INDEPENDENCE BLVD, SRQ 34234

SHEET #

1 OF 1



GOLDEN

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4 POST, 2 MOTOR SEA DRIVE BOAT LIFTS

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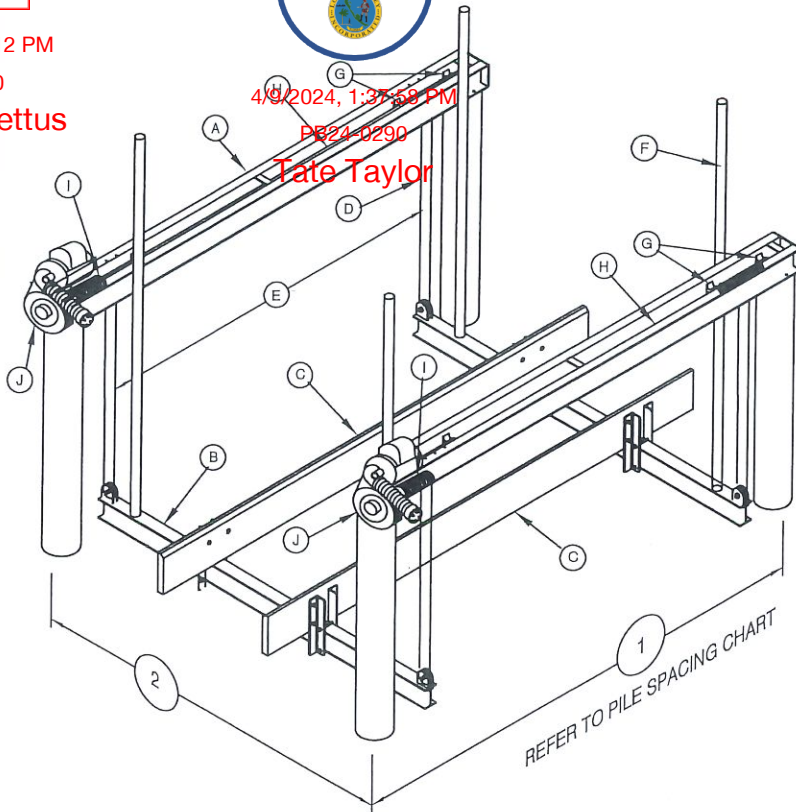
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PILE SPACING CHART
The boat center of gravity
needs to be set in the center
of the top beam

Lift Capacity	*1* Dimension	*2* Dimension	Recommended Pile Diameters
Lb.	Ft.	Ft.	In.
5,000	11	10	8
7,500		12	
10,000			
12,000	12	12.5	10
14,000			
16,000		14	
20,000	14		
24,000		16	
28,000	16		12

STAINLESS STEEL PILING MOUNT BRACKET-
RECOMMENDED ATTACHMENT BASED ON BRACKET
CONFIGURATION. VERIFY ADEQUACY BASED ON
ACTUAL SITE CONDITIONS:
4-3/8" STAINLESS STEEL LAG SCREWS USED TO
CONNECT THE BRACKETS TO THE PILING AND
2-3/8" STAINLESS STEEL CARRIAGE BOLTS USED TO
CONNECT THE BRACKETS TO THE LIFT CHANNELS

NOTE: THIS STRUCTURE HAS BEEN DESIGNED FOR LOADS ASSOCIATED WITH AN ULTIMATE WIND SPEED OF 180 MPH, EXPOSURE "D", RISK CATEGORY I,
CALCULATED PER FLORIDA BUILDING CODE 8th EDITION, 2023, ASCE/SEI 7-22 AND ADM-2020. BOATS SHALL NOT BE STORED ON LIFTS DURING HIGH
WIND EVENTS.

IN GENERAL, PILING PENETRATION TO BE A MINIMUM OF 10' INTO THE SAND BOTTOM OR 5' INTO THE ROCK STRATA. SUB-SURFACE CONDITIONS CAN VARY
GREATLY, THE CONTRACTOR SHALL VERIFY ALL PILE CAPACITIES. ALL PILINGS TO BE 2.5 C.C.A. PRESSURE TREATED WOOD. ALL STRUCTURAL MEMBERS TO
BE 6061-T6 ALUMINUM.



SUMMARY OF DESIGN FEATURES

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)			
LIFT CAPACITY	TOP BEAM CHANNEL 2 EACH	CRADLE I-BEAM 2 EACH	BUNK BOARDS (PT)	CABLE SIZE	CABLE SPREAD	GUIDE POST HGTH	BRGS	DRIVE SHAFT	WINDER DIA	MOTOR HP VOLTAGE	INCHES OF LIFT PER MIN	RECOM PILING SIZES	
Lbs	INCHES	INCHES		INCHES	IN								
5,000#	4 H x .15 2 W x .23 141" OAL	6 H x .19 4 W x .29 120" LGTH	2x8x144 ROUGH SAWN CARPETED	4 - 5/16" x15" ST ST 1 PART	107.75	80"	10 - 2" H.D. EXTRUDED 6061-T6 ALUM.	1-15/16" DIA. SCH 40 GALV PIPE	3-1/2" DIA SCH 80 ALUM PIPE W/ CABLE GROOVES	2 - 3/4 HP 120V/20A 240V/10A	39.70"	8" DIA	
7,500#	5 H x .15 2.25 W x .26 x 153" OAL	6 H x .19 4 W x .29 144" LGTH			120.75					2 - 1 HP 120V/28A 240V/14A			
10,000#	6 H x .17 2.5 W x .29 x 153" OAL	8 H x .23 5 W x .35 150" LGTH		4 - 5/16" x30" ST ST 2 PART	116.75					2 - 3/4 HP 120V/20A 240V/10A	19.85"	10" DIA	
12,000#	7 H x .17 2.75 W x .29 x 153" OAL	8 H x .25 5 W x .41 150" LGTH											
14,000#	7 H x .17 2.75 W x .29 x 153" OAL	8 H x .25 5 W x .41 150" LGTH											
16,000#	8 H x .19 3 W x .35 x 153" OAL	10 H x .25 6 W x .41 168" LGTH	3x10x192 ROUGH SAWN CARPETED	4 - 5/16" x45" ST ST 3 PART	127.75	120"		1-15/16" DIA. SCH 80 GALV PIPE			2 - 1 HP 120V/28A 240V/14A	13.20"	
20,000#	8 H x .25 3.75 W x .41 x 177 OAL	10 H x .25 6 W x .41 192" LGTH									151.75		
24,000#	8 H x .25 3.75 W x .41 x 201 OAL	10 H x .29 6 W x .50 192" LGTH											
28,000#	10 H x .526 2.88 W x .437 x 206 OAL	12 H x .29 7 W x .47 192" LGTH			4 - 5/16" x60" ST ST 4 PART						150.3125		

Letter ANSI A Landscape

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Street Names

Parcel Search

2023

Red: Band_1

Green: Band_2

Parcel Lines

Parcel Dimensions

Easement Lines

1:984

0 0.01 0.01 0.02 0.02 mi

0 0.01 0.01 0.02 0.04 km

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Manatee County Property

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