

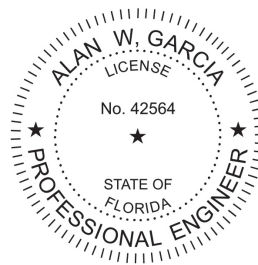
N90°00'00"E (C) 80.00' (P)  
 N89°45'38"W 79.86' (F)

This item, consisting of 7 sheets, has been digitally signed and sealed by Alan W. Garcia, PE on 4/3/24. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

NE 19TH ST  
 (50' R/W PER PLAT)

**Existing**

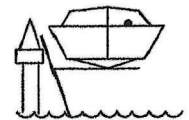
- 8' x 70' wood dock and wood dock piles to be removed.



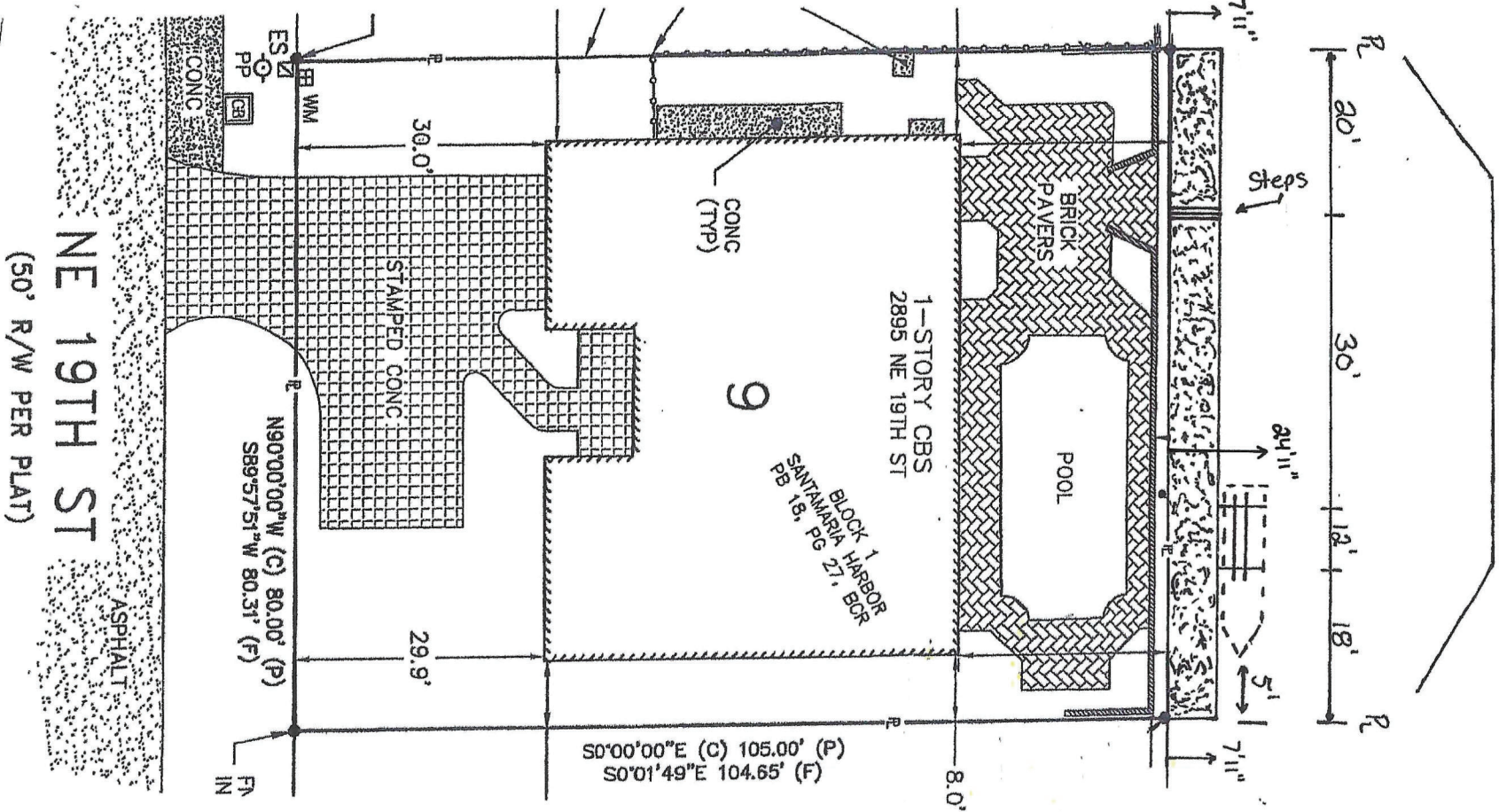
Richard Clawges 2895 NE 19th St Pompano Beach, FL 33062

**Alan W Garcia**  
 Digitally signed by Alan W Garcia  
 Date: 2024.04.03 11:09:54 -04'00'

ALAN GARCIA, P.E.  
 LICENSE #42564  
 4202 NW 54th Street  
 Coconut Creek, FL



**S.E. CUSTOM LIFT SYSTEMS INC.**

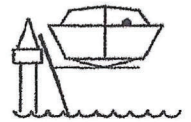


NO PART OF THE BOAT SHALL BE WITHIN THE 5' SETBACK

**Scope of Work**

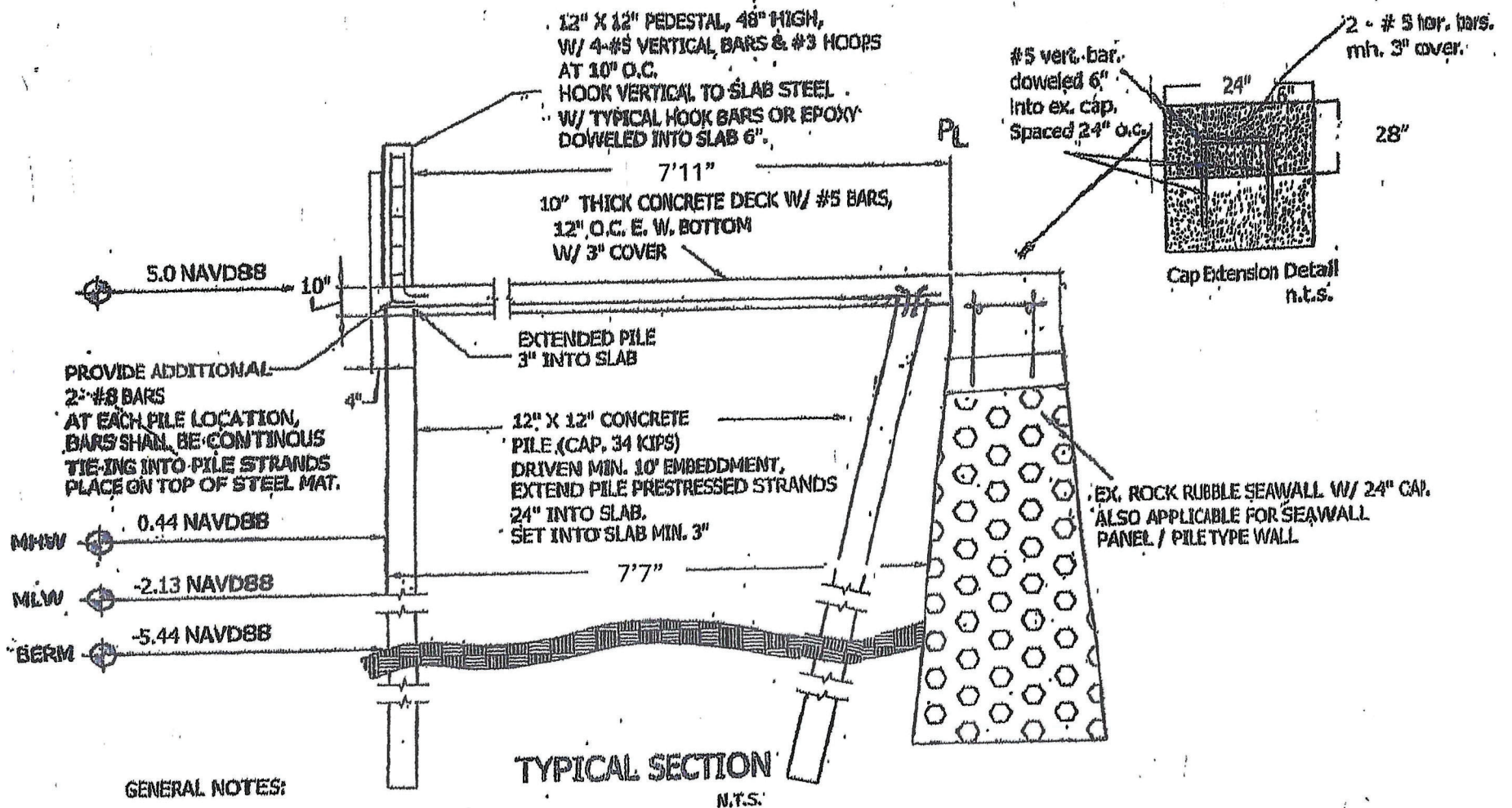
- Remove existing wood dock and wood dock piles
- Install (12) twelve concrete batter piles
- Construct a new 80' long seawall cap
- Install (9) nine concrete dock piles
- Construct a 6.5' x 80' concrete dock
- Install a 20,000 lbs elevator boat lift

Richard Clawges 2895 NE 19th St Pompano Beach, FL 33062



**S.E. CUSTOM LIFT  
SYSTEMS INC.**

ALAN GARCIA, P.E.  
LICENSE #42564  
4202 NW 54th Street  
Coconut Creek, FL

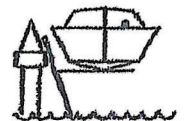


**GENERAL NOTES:**

1. ALL CONCRETE TO BE 5000 psi. 28 DAY COMP. STRENGTH.
2. ALL STEEL REBAR TO BE GRADE 60
3. CONCRETE SHALL BE PROPERLY CURED.
4. CONTRACTOR TO OBTAIN UTILITY CLEARANCE PRIOR TO PILE DRIVING. CALL 1-800-432-4770.

Design is per 8<sup>th</sup> Edition FBC (2023) and  
Wind loads per ASCE 7-22 HVHZ 170 mph

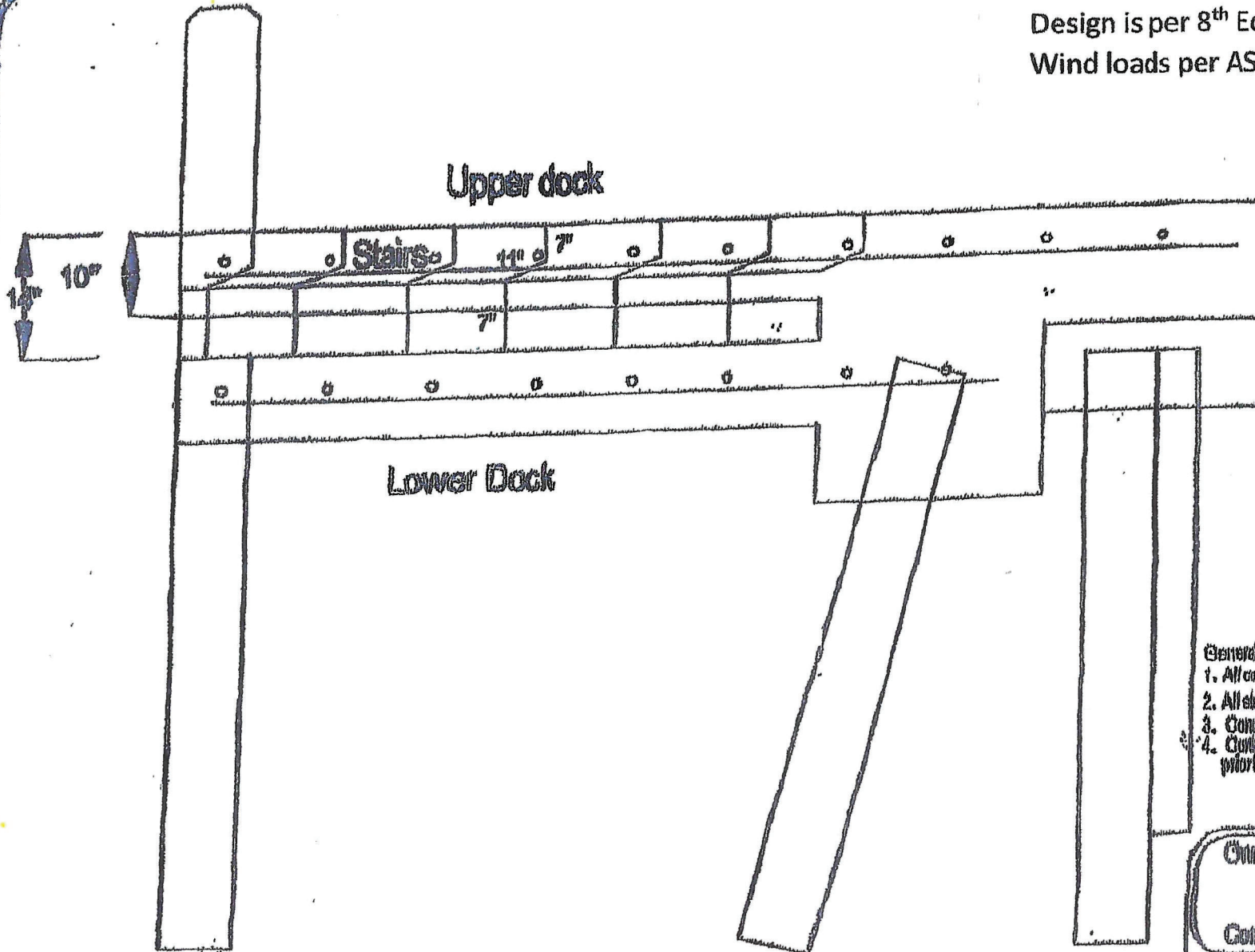
Richard Clawges 2895 NE 19th St Pompano Beach, FL 33062



**S.E. CUSTOM LIFT  
SYSTEMS INC.**

ALAN GARCIA, PE  
LICENSE #42864

Design is per 8<sup>th</sup> Edition FBC (2023) and  
Wind loads per ASCE 7-22 HVHZ 170 mph



- General Notes:
- 1. All concrete to be 5000 psi, 28 day comp.
  - 2. All steel rebar to be Grade 60
  - 3. Concrete shall be properly cured.
  - 4. Contractor to obtain utility elevations prior to pile driving. Call 1-800-432-0770.

Owner: Richard Clawges 2895 NE 19<sup>th</sup> St  
Pompano Beach, FL 33062

Contractor: SE Custom Lift

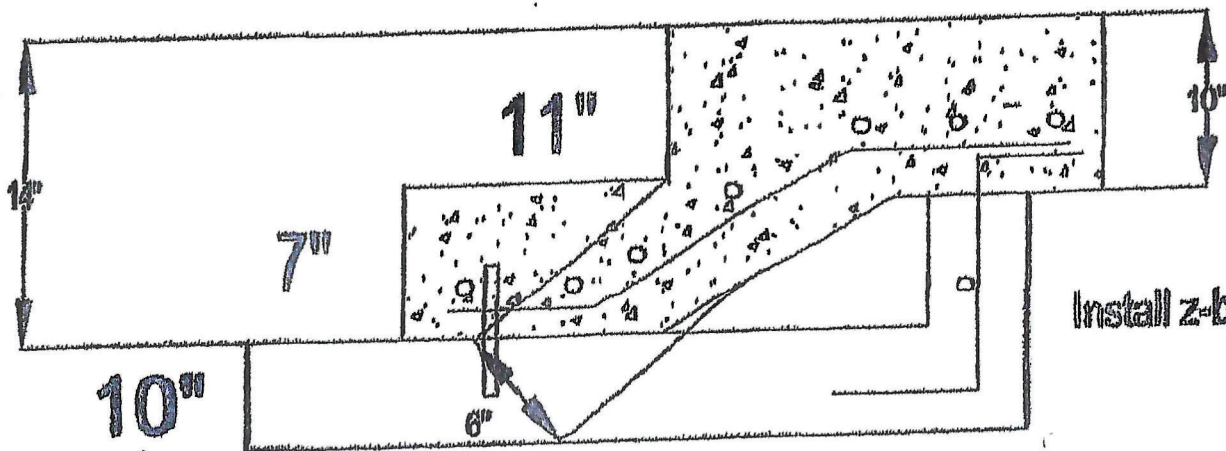
Engineer: Alan W. Garcia, P.E.  
4202 NW 54th Street  
Coconut Creek, FL 33073

Typical Dock Elevation Section  
n.t.s.

ALAN W. GARCIA, P.E.  
FL REG. #22654

Concrete Dock Elevation  
Sheet 1 of 1

Design is per 8<sup>th</sup> Edition FBC (2023) and  
Wind loads per ASCE 7-22 HVHZ 170 mph



Upper Dock

Install z-bars 6" o.c. and one #5 horizontal

Lower Dock

#4 transverse and  
#5 bottom, both 9" o.c.  
(2) #5 in footer  
Epoxy dowell #5 into lower dock  
12" o.c.

Typical Stair Section  
n.t.s.

- General Notes:
1. All concrete to be 5000 psi, 28 day comp.
  2. All steel rebar to be Grade 60.
  3. Concrete shall be properly cured.
  4. Contractor to obtain utility clearance prior to pile driving. Call 1-800-432-4770.

Owner: Richard Clawges 2895 NE 19<sup>th</sup> St  
Pompano Beach, FL 33062

Contractor: SE Custom Lift

Engineer: Alan W. Garcia, P.E.  
4202 NW 54<sup>th</sup> Street  
Coconut Creek, FL 33073

Concrete Dock Stairs  
Sheet 1 of 1

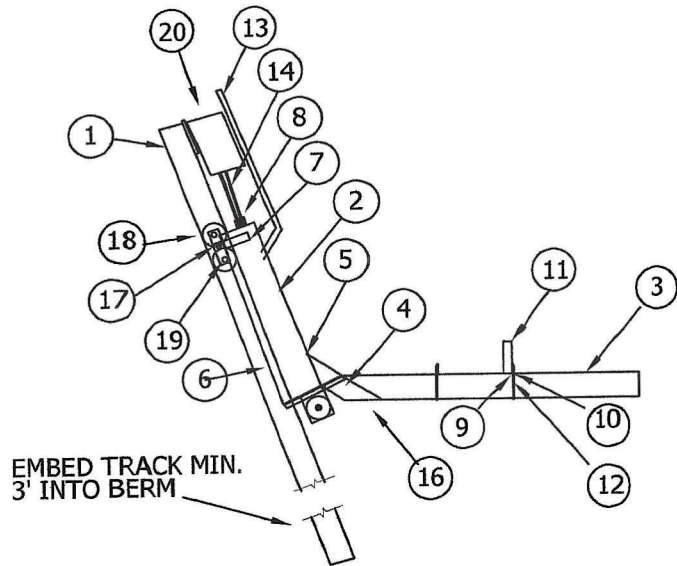
ALAN W. GARCIA, P.E.  
FL REG. #12651

DATE: 08/20/2024

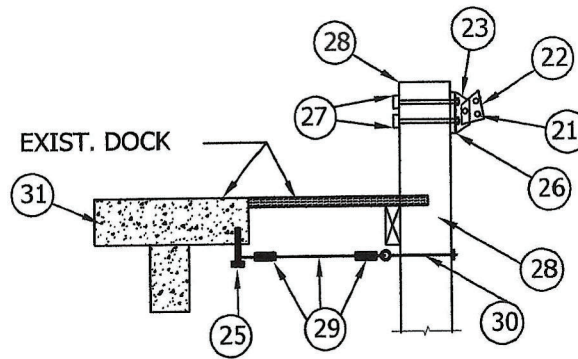
# BOAT LIFT TM 20,000 SE CUSTOM LIFT

(20,000 lb LIFT)

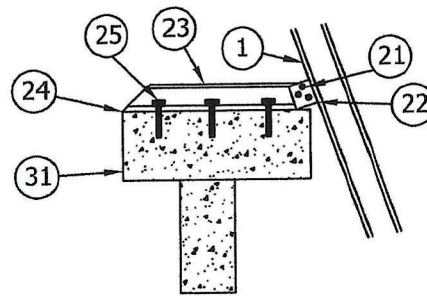
N.T.S.



PROFILE VIEW OF ELEVATOR LIFT  
N.T.S.



INSTALLATION DETAIL "B"  
N.T.S.



INSTALLATION DETAIL "A"  
N.T.S.

20000

1	I-Beam 12"x 7" .62
2	12" x 2.96" AS Channel
3	I-Beam 12"x 7" .62
4	1/2" x 12" x 50" flat stock
5	1/2" x 7 3/4" x 12" flat plate
6	3/8" x 3" x 4" x 12" angle
7	3/8" x 3" x 6" x 13 1/2" angle
8	Pulley Box 6" Nylon Wheels
9	2.5" x 2.5" x 1/4 Aluminum Angle
10	3/8" x 9" SS bolt and nut
11	Aluminum Bunks 10" x 16"
12	3/8" x 4" SS bolt and nut
13	2 1/2" PVC Sch. 40 pipe
14	3/8" SS Cable
15	OMIT
16	3/8" x 3" SS bolt and nut
17	7/8" x 2" SS bolt
18	8" wheel
19	1 3/16" Aluminum pin
20	Drive Unit 8500FB or 7000-600.1ED
21	5/8" x 6" SS bolt, nut, lock washer
22	Track mounting clip
23	6061 T6 Aluminum Channel
24	1/2" x 12" x 16" Angle
25	3/4" SS wedge anchor bolts
26	Pile mount brackets
27	5/8" ThreadRod SS bolt, nut, lw, fw
28	12" Wood or Concrete pile
29	5/16" SS cable, Cable clamps
30	EyeHook Welded to 5/8" Thread Rod nut, lw, fw
31	Existing seawall cap

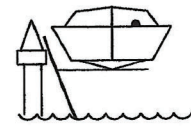
**\*\*CONTRACTOR HAS OPTION OF USING WOOD OR CONCRETE PILES IN AREAS WHERE REGULATORY POLICY APPLIES.**

## GENERAL NOTES:

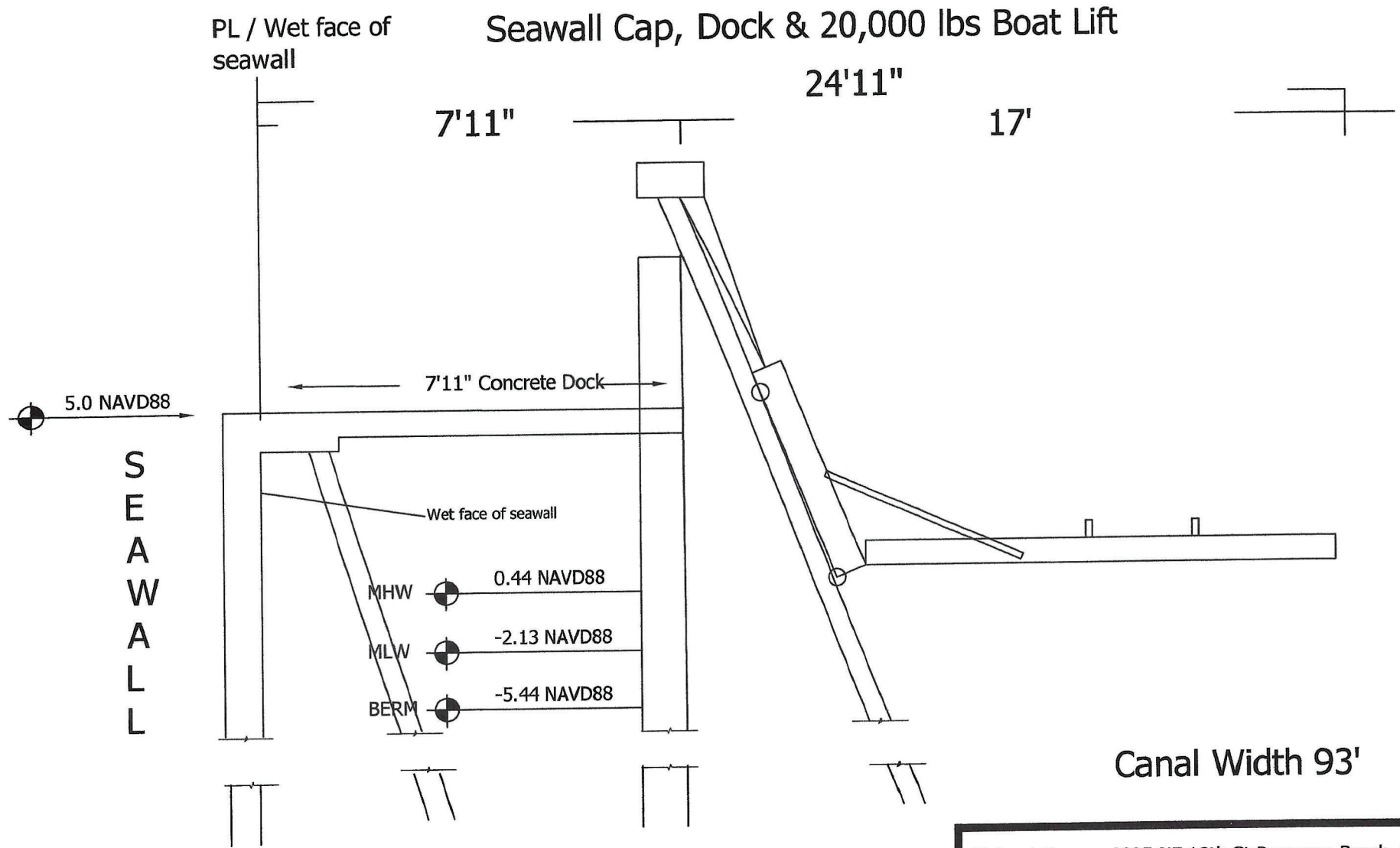
1. ALL CONNECTIONS ARE WELDED UNLESS OTHERWISE NOTED.
2. ALL MATERIALS TO BE 6061 T6 UNLESS OTHERWISE NOTED.
3. ALTERNATIVE INSTALLATION W/ 30° ANGLE (PART #7)
4. CONTRACTOR TO OBTAIN UTILITY CLEARANCE PRIOR TO PILE DRIVING. CALL 1-800-432-4770.
5. CONTRACTOR SHALL INSPECT EXIST. CONC. PILES FOR SPALLS & CRACKS & SHALL NOTIFY ENGINEER IN WRITING OF PILE DAMAGE OR DETERIORATION.
6. SHALL NOTIFY ENGINEER IN WRITING OF PILE DAMAGE OR DETERIORATION.
7. 9"-12" MIN. BUTT DIA. PILINGS, 10' EMBEDDMENT W/ 10 TON BEARING CAPACITY.
8. Design is per 8th Edition FBC (2023) and Wind loads per ASCE 7-22 HVHZ 170 mph.

Richard Clawges 2895 NE 19th St Pompano Beach, FL 33062

ALAN GARCIA, P.E.  
LICENSE #42564  
4202 NW 54TH STREET  
COCONUT CREEK, FL 33073



**S.E. CUSTOM LIFT  
SYSTEMS INC.**



**TYPICAL SEAWALL CAP , DOCK & BOATLIFT  
CROSS SECTION**

N.T.S.

Design is per 8th Edition FBC (2023) and Wind loads per ASCE 7-22 HVHZ  
170 mph.

Canal Width 93'

Richard Clawges 2895 NE 19th St Pompano Beach, FL 33062

SOUTHEAST CUSTOM LIFT  
SYSTEMS, INC.

ALAN GARCIA P.E.  
LICENSE #42564  
4202 NW 54TH STREET  
COCONUT CREEK, FL 33073

MARINE CONSTRUCTION INC.  
ESTABLISHED IN 1996