COMMERCIAL MARINA

NOTE: PERMIT TO ALLOW PLACEMENT OF BOAT LIFTS AT ALL SLIP LOCATIONS

Application # _____

(OFFICIAL USE ONLY)

Fri, 06 Jan 2017 - 10:42am C:\Users\terriskapik\Documents\Loggerhead\Hubers Master 40 slips 12202016dwg.dwg

SHEET 1

WOODS CONSULTING
1714 COUNTY ROAD 1, SUITE 22
DUNEDIN, FL 34698
PH. (727) 786-5747
FAX (727) 786-7479

MUNICIPALITY APPROVAL

Loggerhead Club & Marina - St. Petersburg

EXISTING CONDITIONS

TOTAL SQUARE FEET 3,100

MHW +0.4' MLW -1.3'

ELEVATIONS REFERENCE NAVD-1988

FLORIDA CERTIFICATE OF AUTHORIZATION #27664

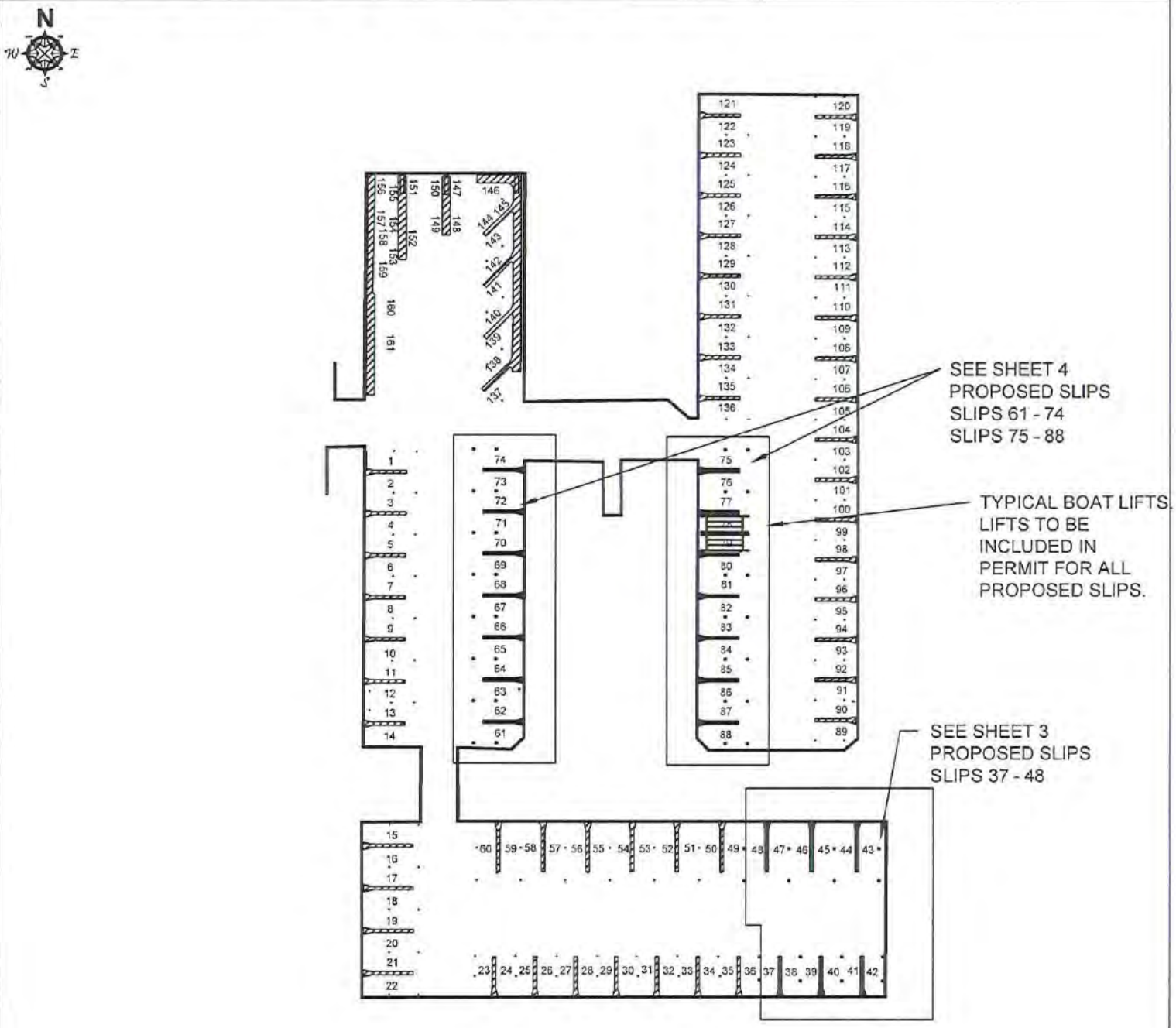
RICHARD WAGNEWSKI LICENSE No 15686 STATE OF FLORIDA PROFESSIONAL ENGINEER

1520 Chateauwood Dr.
Clearwater, FL 33764
Office: 727-580-4341
Fax: 727-530-3790

SCALE: 1" = 150' COMMERCIAL MARINA

NOTE: PERMIT TO ALLOW PLACEMENT OF BOAT LIFTS AT ALL SLIP LOCATIONS

Application # _____ (OFFICIAL USE ONLY)



Fri, 06 Jan 2017 - 10:44am C:\Users\terriskapik\Documents\Loggerhead\Hubers Master 40 slips 12202016dwg.dwg

SHEET 2

WOODS CONSULTING
1714 COUNTY ROAD 1, SUITE 22
DUNEDIN, FL 34698
PH. (727) 786-5747
FAX (727) 786-7479

MUNICIPALITY APPROVAL

Loggerhead Club & Marina - St. Petersburg

PROPOSED SLIPS OVERVIEW

TOTAL SQUARE FEET 3,100

MHW +0.4' MLW -1.3'

ELEVATIONS REFERENCE NAVD-1988

FLORIDA CERTIFICATE OF AUTHORIZATION #27664

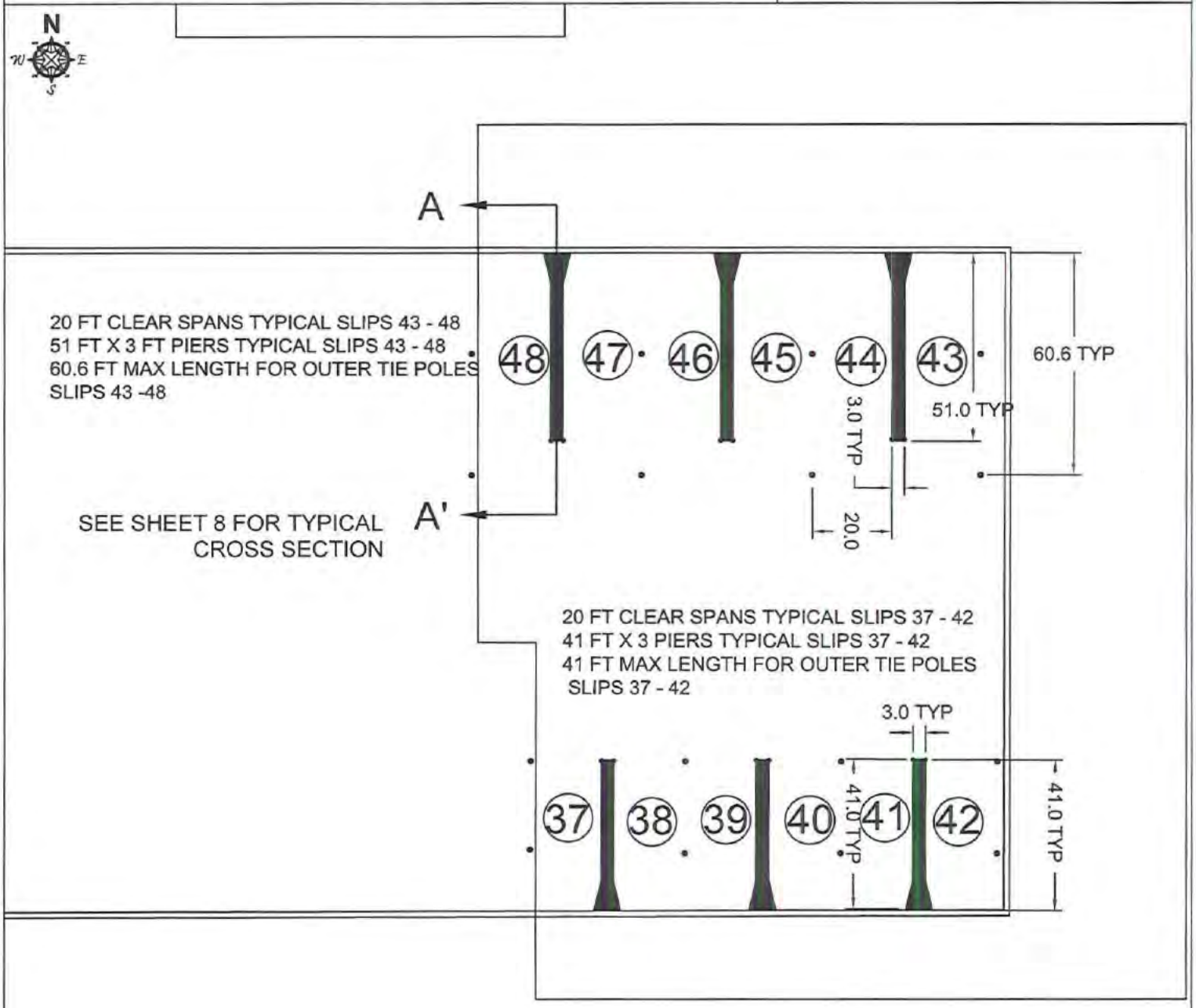
RICHARD WOODS LICENSE No 15586 STATE OF FLORIDA PROFESSIONAL ENGINEER

1520 Chateauwood Dr.
Clearwater, FL 33764
Office: 727-580-4341
Fax: 727-530-3790

SCALE: 1:40 COMMERCIAL MARINA

NOTE: PERMIT TO ALLOW PLACEMENT OF BOAT LIFTS AT ALL SLIP LOCATIONS

Application # _____ (OFFICIAL USE ONLY)



Fri, 06 Jan 2017 - 10:44am C:\Users\terriskapik\Documents\Loggerhead\Hubers Master 40 slips 12202016dwg.dwg

SHEET 3

WOODS CONSULTING
1714 COUNTY ROAD 1, SUITE 22
DUNEDIN, FL 34698
PH. (727) 786-5747
FAX (727) 786-7479

MUNICIPALITY APPROVAL

Loggerhead Club & Marina - St. Petersburg

PROPOSED SLIPS 37 - 48

TOTAL SQUARE FEET 3,100

MHW +0.4' MLW -1.3'

ELEVATIONS REFERENCE NAVD-1988

FLORIDA CERTIFICATE OF AUTHORIZATION #27664

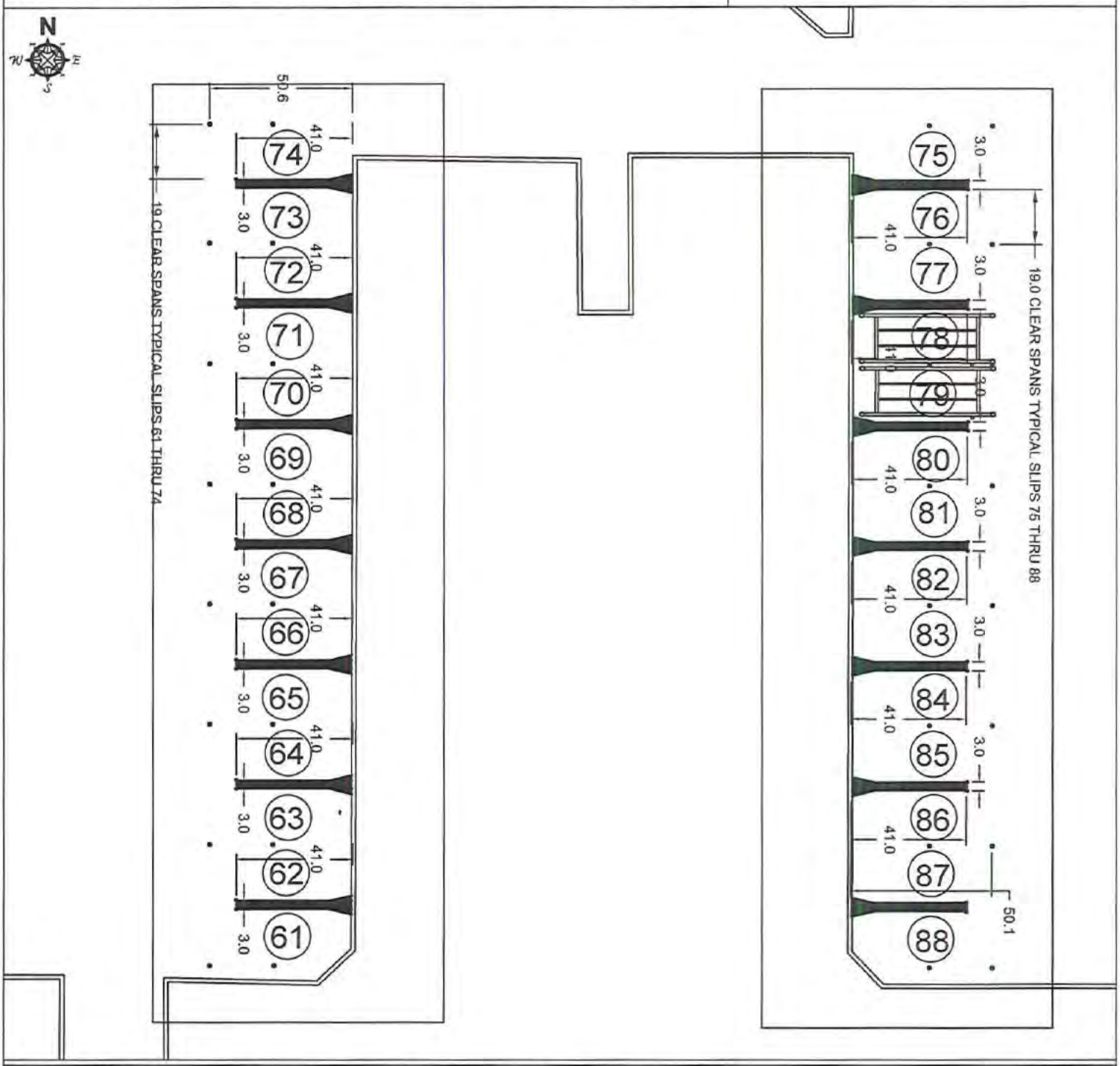
RICHARD WASILEWSKI LICENSE No. 15586 STATE OF FLORIDA PROFESSIONAL ENGINEER

1520 Chateauwood Dr.
Clearwater, FL 33764
Office: 727-580-4341
Fax: 727-530-3790

SCALE: 1:50 COMMERCIAL MARINA

NOTE: PERMIT TO ALLOW PLACEMENT OF BOAT LIFTS AT ALL SLIP LOCATIONS

Application # _____ (OFFICIAL USE ONLY)



Fri, 06 Jan 2017 - 10:45am C:\Users\terriskapik\Documents\Loggerhead\Hubers Master 40 slips 12202016dwg.dwg

SHEET 4

WOODS CONSULTING
1714 COUNTY ROAD 1, SUITE 22
DUNEDIN, FL 34698
PH. (727) 786-5747
FAX (727) 786-7479

MUNICIPALITY APPROVAL

Loggerhead Club & Marina - St. Petersburg

PROPOSED SLIPS 61 - 88

TOTAL SQUARE FEET 3,100

MHW +0.4' MLW -1.3'

ELEVATIONS REFERENCE NAVD-1988

FLORIDA CERTIFICATE OF AUTHORIZATION #27664

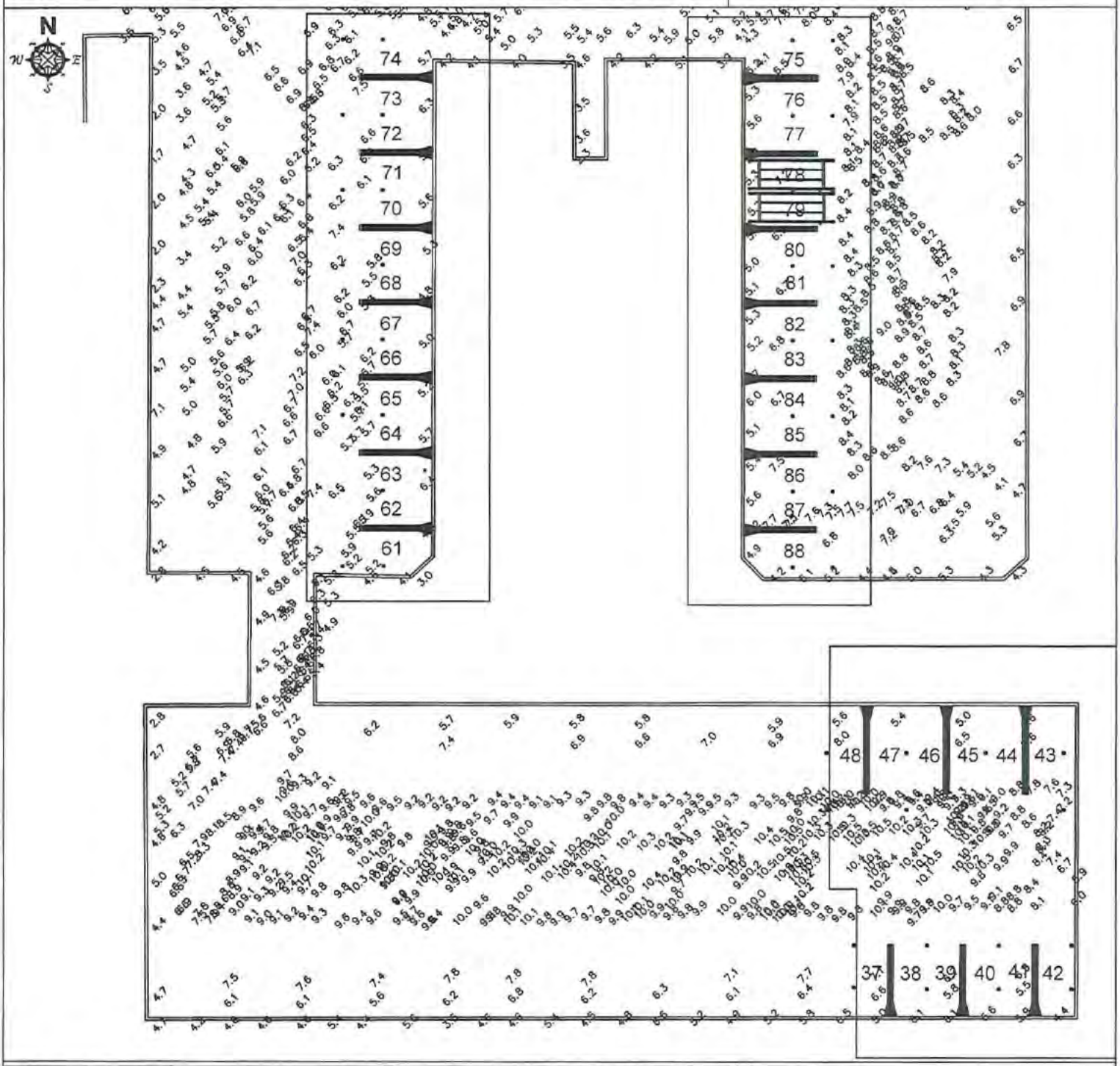
RICHARD WALTERSKI LICENSE No. 15586 STATE OF FLORIDA PROFESSIONAL ENGINEER

1520 Chateauwood Dr.
Clearwater, FL 33764
Office: 727-580-4341
Fax: 727-530-3790

SCALE: Custom COMMERCIAL MARINA

NOTE: PERMIT TO ALLOW PLACEMENT OF BOAT LIFTS AT ALL SLIP LOCATIONS

Application # _____ (OFFICIAL USE ONLY)



Fri, 06 Jan 2017 - 10:45am C:\Users\terriskapik\Documents\Loggerhead\Hubers Master 40 slips 12202016dwg.dwg

SHEET 5

WOODS CONSULTING
1714 COUNTY ROAD 1, SUITE 22
DUNEDIN, FL 34698
PH. (727) 786-5747
FAX (727) 786-7479

MUNICIPALITY APPROVAL

Loggerhead Club & Marina - St. Petersburg

WATER DEPTHS (FT) AT MEAN LOW

TOTAL SQUARE FEET 3,100

MHW +0.4' MLW -1.3'

ELEVATIONS REFERENCE NAVD-1988

FLORIDA CERTIFICATE OF AUTHORIZATION #27664

RICHARD J. SILESWSKI LICENSE No 15586 STATE OF FLORIDA PROFESSIONAL ENGINEER

1520 Chateauwood Dr.
Clearwater, FL 33764
Office: 727-580-4341
Fax: 727-530-3790

SCALE: NONE COMMERCIAL MARINA

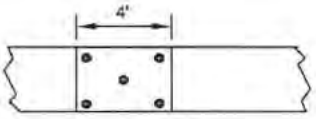
NOTE: PERMIT TO ALLOW PLACEMENT OF BOAT LIFTS AT ALL SLIP LOCATIONS

Application # _____ (OFFICIAL USE ONLY)

It is the intent of the following construction details to be a reference guide for quality, structural and safety standards. All structures to meet local, and or state guidelines for aquatic and marine construction.

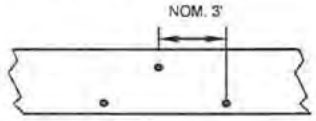
GENERAL DOCK NOTES:

1. ALL DECKING TO BE TRIMMED, BOTH SIDES.
2. ALL PILINGS TO BE SEATED WITH A FREE FALLING HAMMER IF WATER JETTING IS INSTALLATION METHOD. ALL PILES TO BE TRIMMED SAME HEIGHT.
3. PILING CENTER TO CENTER SPACING ON ALL FIXED DOCKS TO BE 10' NOMINAL. AND NOT TO EXCEED 12'.
4. DOCK FRAMING AND DECKING TO BE CONSTRUCTED USING STAINLESS STEEL SCREWS (SCREWS TO BE TYPE SPECIFIC FOR MATERIAL UTILIZED).
5. WOOD DECK BOARD SPACING AT TIME OF INSTALLATION NOT TO EXCEED 1/8" TO ALLOW FOR CURING, COMPOSITE DECK SPACING NOT TO EXCEED 1/4".
6. ALL DOCK FRAMING OTHER THAN DECKING TO BE MINIMUM GRADE 2 LUMBER.
7. RASP OR FEATHER ALL SAWCUTS.
8. ALL CONSTRUCTION TO MEET OR EXCEED COUNTY REQUIREMENTS LISTED IN SECTIONS 166-(332, 333, & 334) OF THE PINELLAS COUNTY WATER AND NAVIGATION CONTROL AUTHORITY REGULATIONS MANUAL.
9. CCA WOOD NOT ACCEPTABLE FOR DECKING OR RAILING MATERIALS. WOOD TREATMENT AS FOLLOWS ARE ACCEPTABLE: ALKALINE COPPER QUATERNARY (ACQ), IF ACQ TREATMENT IS UTILIZED, THEN THE WOOD NEEDS TO BE SEALED WITH AN ENGINEER-APPROVED SEALANT.
   BRAZILIAN HARDWOOD OR COMPOSITE DECKING MATERIAL IS PREFERRED.
10. 5/8" GALVANIZED FASTENERS ARE NOT TO BE USED IN WOOD WITH AZOLE TREATMENTS. USE 5/8" STAINLESS STEEL FASTENERS ONLY (TYPE 304 OR 316).
11. PILES TO BE WRAPPED FROM THE MUD (SILT) LINE TO 2.0' ABOVE THE MEAN HIGH WATER LINE (MHWL). WITH PRIME HIGH DENSITY POLYETHYLENE 30 MILS OR .040" THICK



SECTION A-A

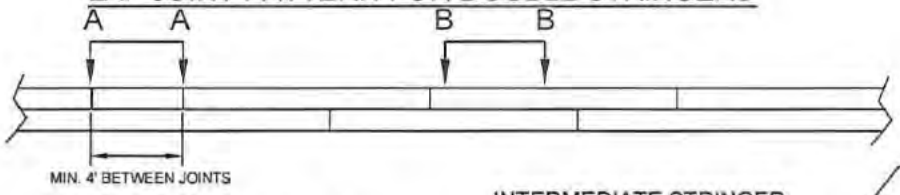
NAILING PATTERN AT LAP JOINTS



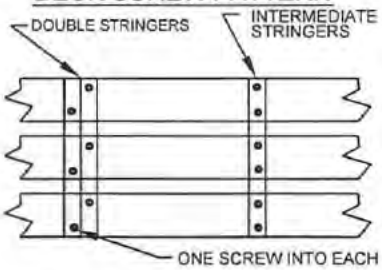
SECTION B-B

NAILING PATTERN FOR DOUBLE STRINGER

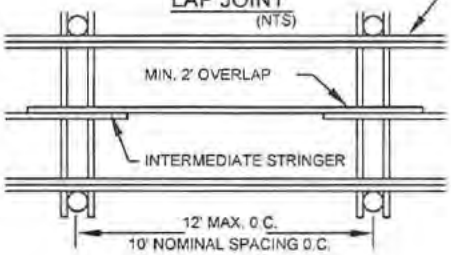
LAP JOINT PATTERN FOR DOUBLE STRINGERS

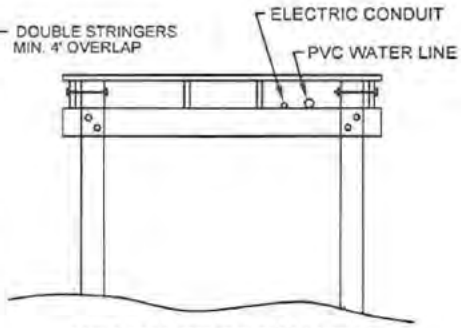


DECK SCREW PATTERN



INTERMEDIATE STRINGER LAP JOINT (NTS)





UTILITY SECTION VIEW

Fri, 06 Jan 2017 - 10:46am C:\Users\terriskapik\Documents\Loggerhead\Hubers Master 40 slips 12202016dwg.dwg

SHEET 6

WOODS CONSULTING
1714 COUNTY ROAD 1, SUITE 22
DUNEDIN, FL 34698
PH. (727) 786-5747
FAX (727) 786-7479

MUNICIPALITY APPROVAL

Loggerhead Club & Marina - St. Petersburg

PROPOSED DOCK DETAILS

TOTAL SQUARE FEET 3,100

MHW +0.4' MLW -1.3'

ELEVATIONS REFERENCE NAVD-1988

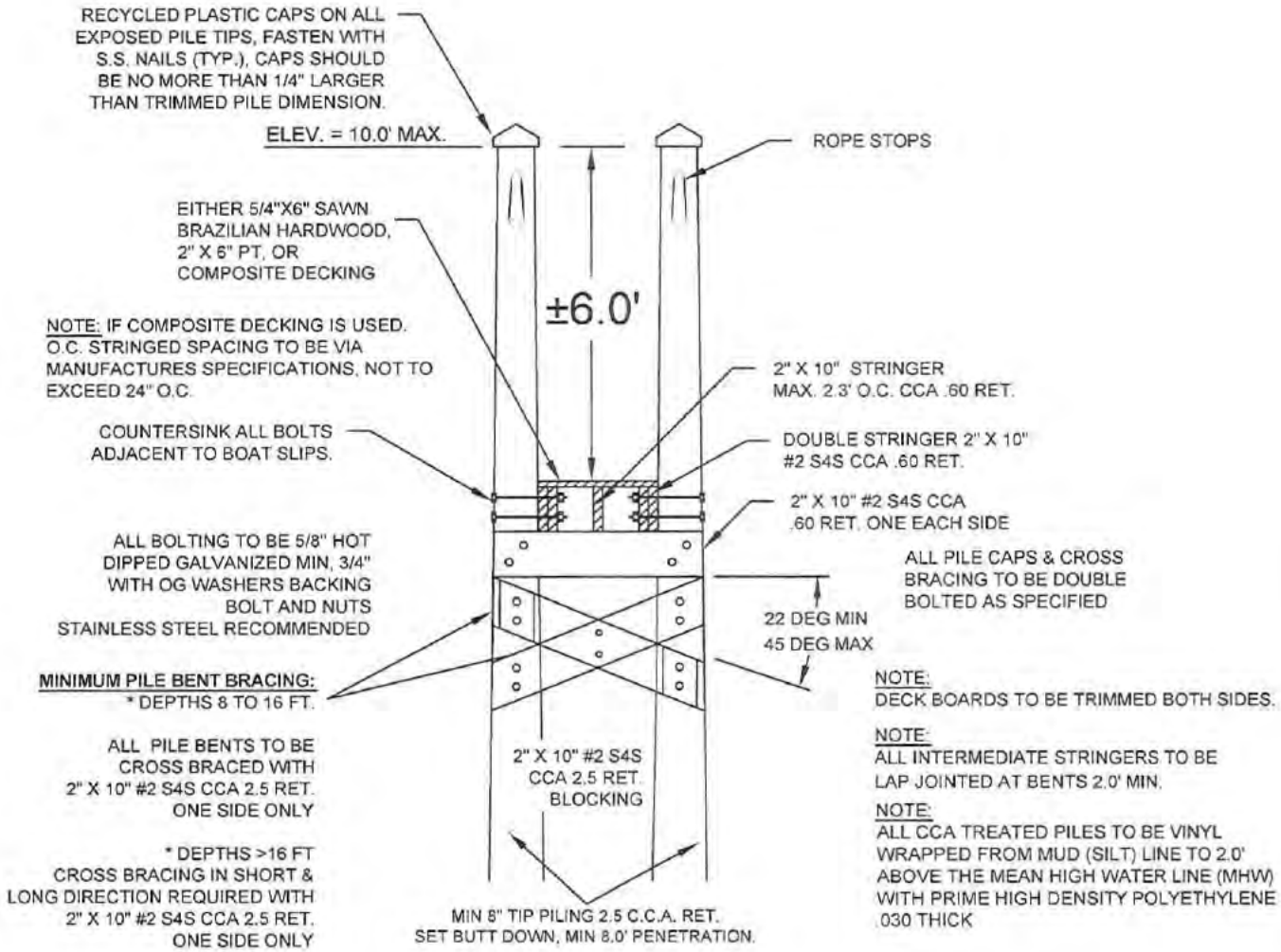
FLORIDA CERTIFICATE OF AUTHORIZATION #27664

1520 Chateauwood Dr.
Clearwater, FL 33764
Office: 727-580-4341
Fax: 727-530-3790

SCALE: NONE COMMERCIAL MARINA

NOTE: PERMIT TO ALLOW PLACEMENT OF BOAT LIFTS AT ALL SLIP LOCATIONS

Application # _____ (OFFICIAL USE ONLY)



TYPICAL FINGER PIER

NOTE:
FINGER PIER PILE BENT AT MAIN DOCK INTERSECTION TO HAVE DOUBLE PILE CAP ON WATERSIDE OF BENT.
INTERMEDIATE PILE BENT TO HAVE SINGLE CAP EACH SIDE OF BENT.
OUTBOARD PILE BENT TO HAVE DOUBLE PILE CAP ON MAIN DOCK SIDE, NO CAP ON WATERSIDE.

Fri, 06 Jan 2017 - 10:46am C:\Users\terriskapik\Documents\Loggerhead\Hubers Master 40 slips 12202016dwg.dwg

SHEET 7

WOODS CONSULTING
1714 COUNTY ROAD 1, SUITE 22
DUNEDIN, FL 34698
PH. (727) 786-5747
FAX (727) 786-7479

MUNICIPALITY APPROVAL

Loggerhead Club & Marina - St. Petersburg

PROPOSED DOCK DETAILS

TOTAL SQUARE FEET 3,100

MHW +0.4' MLW -1.3'

ELEVATIONS REFERENCE NAVD-1988

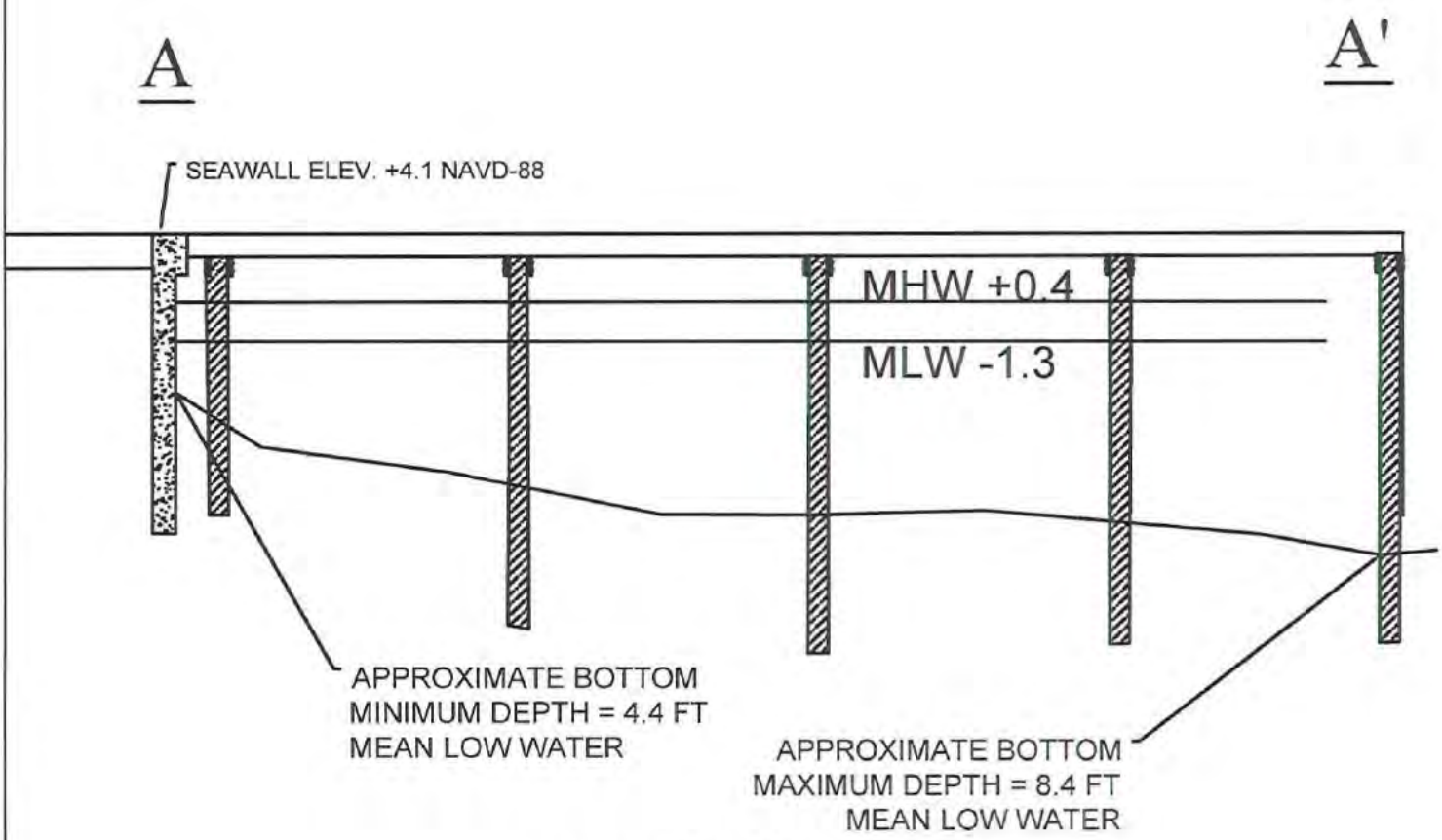
FLORIDA CERTIFICATE OF AUTHORIZATION #27664

1520 Chateauwood Dr.
Clearwater, FL 33764
Office: 727-580-4341
Fax: 727-530-3790

SCALE: 1" = 8' COMMERCIAL MARINA

NOTE: PERMIT TO ALLOW PLACEMENT OF BOAT LIFTS AT ALL SLIP LOCATIONS

Application # _____ (OFFICIAL USE ONLY)



SECTION A-A'

Fri, 06 Jan 2017 - 10:47am C:\Users\terriskapik\Documents\Loggerhead\Hubers Master 40 slips 12202016dwg.dwg

SHEET 8

WOODS CONSULTING
1714 COUNTY ROAD 1, SUITE 22
DUNEDIN, FL 34698
PH. (727) 786-5747
FAX (727) 786-7479

MUNICIPALITY APPROVAL

Loggerhead Club & Marina - St. Petersburg

TYPICAL CROSS SECTION

TOTAL SQUARE FEET 3,100

MHW +0.4' MLW -1.3'

ELEVATIONS REFERENCE NAVD-1988

FLORIDA CERTIFICATE OF AUTHORIZATION #27664

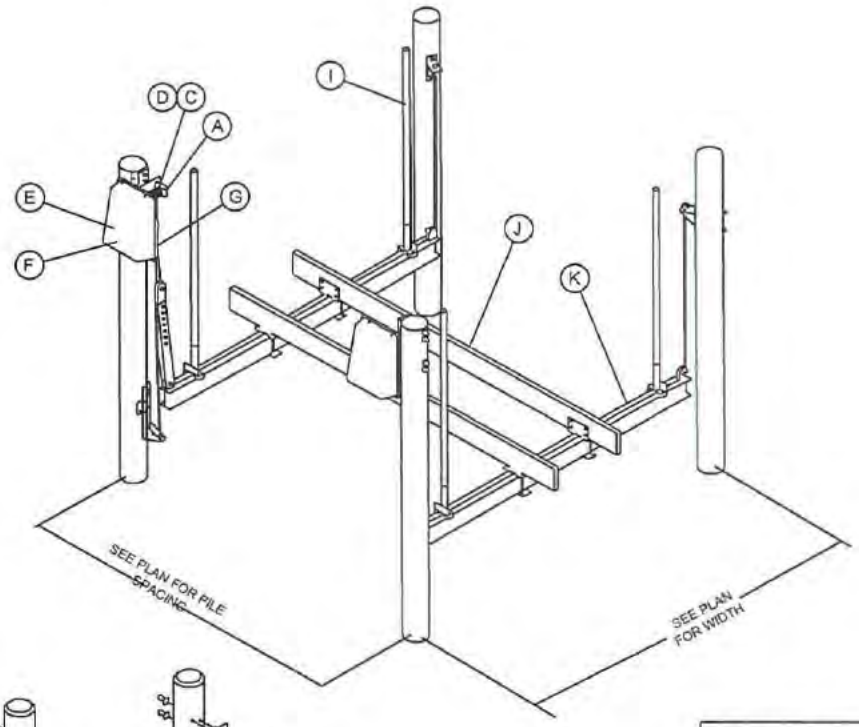
GERARD W. SILEWSKI LICENSE No 15586 STATE OF FLORIDA PROFESSIONAL ENGINEER

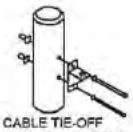
1520 Chateauwood Dr.
Clearwater, FL 33764
Office: 727-580-4341
Fax: 727-530-3790

SCALE:NONE COMMERCIAL MARINA

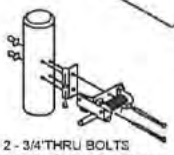
NOTE: PERMIT TO ALLOW PLACEMENT OF BOAT LIFTS AT ALL SLIP LOCATIONS

Application # _____ (OFFICIAL USE ONLY)





CABLE TIE-OFF PILE MOUNTING DETAIL 2 - 3/4" THRU BOLTS



2 - 3/4"THRU BOLTS REQUIRED FOR MOUNTING CABLE WINDER PILE MOUNTING DETAIL

NOTE: ALL PILINGS TO BE 2.5 CCA TREATED 12-22-00

NOTE: CRADLE LENGTHS TO BE 6" TO 8" SHORTER THAN THE CENTER TO CENTER MEASUREMENT OF THE PILINGS

NOTE: THIS STRUCTURE WILL WITHSTAND LOADS ASSOCIATED WITH WIND SPEEDS OF 130 MPH CALCULATED PER F.B.C.(01 ED) CH. 16 & ASCE DOCUMENT 7-98

		Ⓐ	Ⓑ	Ⓒ		Ⓓ		Ⓔ	Ⓕ	Ⓖ		Ⓗ		Ⓘ		Ⓙ		Ⓚ			
LIFT CAPACITY		NO. OF BRGS	CABLE CONFIG.	SLEEVED OR GROOVED WINDERS		DRIVE SHAFT		FLAT PLATE DRIVE RATIO	NO. OF MOTORS & HP	LIFTING CABLE		LIFT PER MIN.		GUIDE POST HEIGHT		BOAT BUNK		CRDL BM / "I" BM SIZE		RECOMMENDED MINIMUM PILING SIZES	
LBS	KG			IN.	MM	IN.	MM			IN.	MM	IN.	MM	IN.	M	IN.	M	IN.	MM	IN.	MM
7,000	3,171	4	2 PART	3.5 ø x 8"	88.9 ø x 203.2 mm	1.93 ø SCH 80 PIPE	49 ø mm SCH 80 PIPE	96:1	(2) 3/4 HP	(2) 0.31 ø	(2) 7.9 ø	16" / MIN 2 PART	406mm / MIN 2 PART	80"	2	144"	3.7	6x0.21 H 4x0.35 W 144" L	152.4x5.3 H 101.6x8.9 W 3.6 M L	8 ø	203 ø
10,000	4,540			3.5 ø x 10"	88.9 ø x 254 mm					(2) 0.38 ø	(2) 9.7 ø							6x0.21 H 5x0.35 W 144" L	203x5.8 H 127x8.9 W 3.6 M L	10 ø	254 ø
14,000	6,356			3.5 ø x 12"	88.9 ø x 304.8 mm				(2) 1 HP	(2) 0.43 ø	(2) 10.9 ø							8x0.35 H 5x0.41 W 144" L	203x8.4 H 127x10.4 W 3.6 M L		

Fri, 06 Jan 2017 - 10:47am C:\Users\terriskapik\Documents\Loggerhead\Hubers Master 40 slips 12202016dwg.dwg

SHEET 9

WOODS CONSULTING
1714 COUNTY ROAD 1, SUITE 22
DUNEDIN, FL 34698
PH. (727) 786-5747
FAX (727) 786-7479

MUNICIPALITY APPROVAL

Loggerhead Club & Marina - St. Petersburg

TYPICAL BOAT LIFT

TOTAL SQUARE FEET 3,100

MHW +0.4' MLW -1.3'

ELEVATIONS REFERENCE NAVD-1988

FLORIDA CERTIFICATE OF AUTHORIZATION #27664

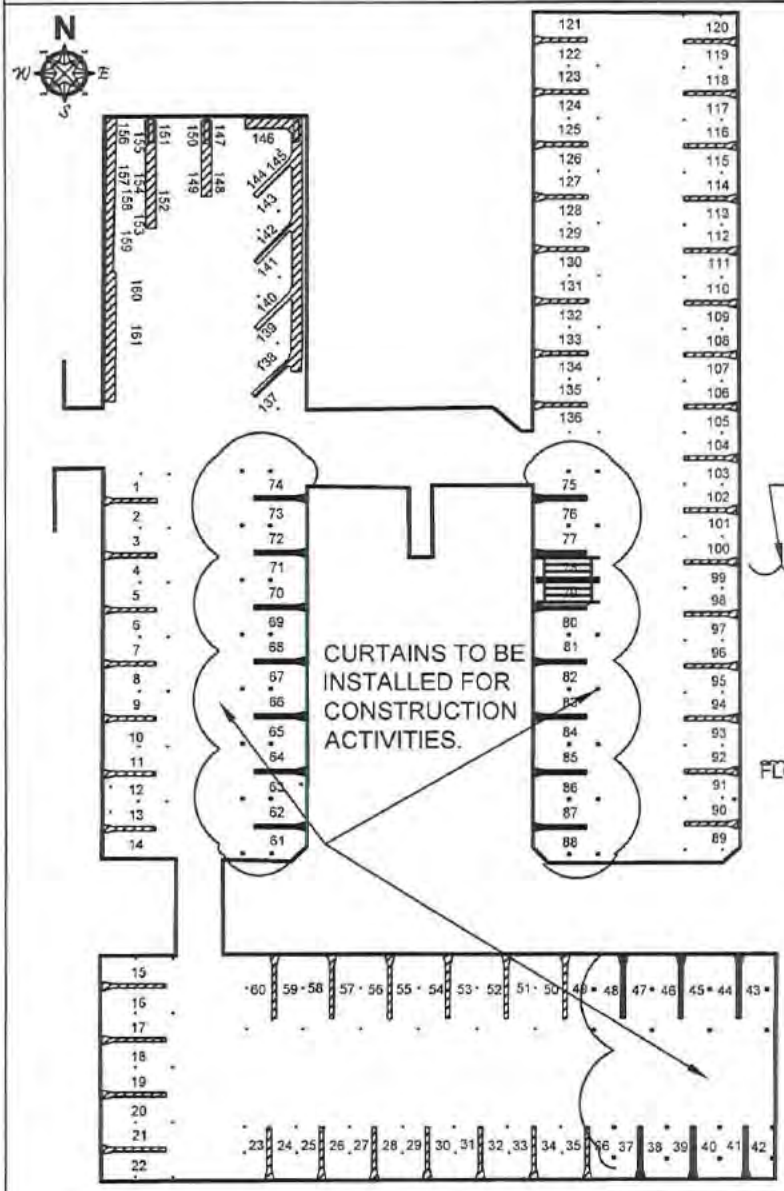
RICHARD WASILEWSKI LICENSE No 15586 STATE OF FLORIDA PROFESSIONAL ENGINEER

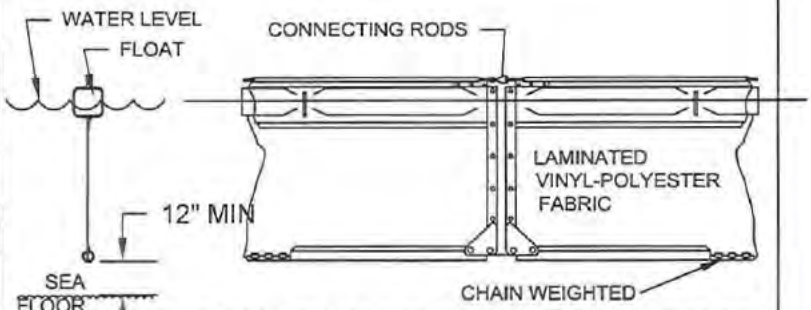
1520 Chateauwood Dr.
Clearwater, FL 33764
Office: 727-580-4341
Fax: 727-530-3790

SCALE: 1" = 150' COMMERCIAL MARINA

NOTE: PERMIT TO ALLOW PLACEMENT OF BOAT LIFTS AT ALL SLIP LOCATIONS

Application # _____ (OFFICIAL USE ONLY)





TYPICAL FLOATING TURBIDITY CURTAINS (DESIGN BY AER-FLO INC.)

NOT TO SCALE

Fri, 06 Jan 2017 - 10:58am C:\Users\terriskapik\Documents\Loggerhead\Hubers Master 40 slips 12202016dwg.dwg

SHEET 10

WOODS CONSULTING
1714 COUNTY ROAD 1, SUITE 22
DUNEDIN, FL 34698
PH. (727) 786-5747
FAX (727) 786-7479

MUNICIPALITY APPROVAL

Loggerhead Club & Marina - St. Petersburg

TURBIDITY CONTROL

TOTAL SQUARE FEET 3,100

MHW +0.4' MLW -1.3'

ELEVATIONS REFERENCE NAVD-1988

FLORIDA CERTIFICATE OF AUTHORIZATION #27664

RICHARD A. BASILEWSKI LICENSE No 15586 STATE OF FLORIDA PROFESSIONAL ENGINEER

1520 Chateauwood Dr.
Clearwater, FL 33764
Office: 727-580-4341
Fax: 727-530-3790