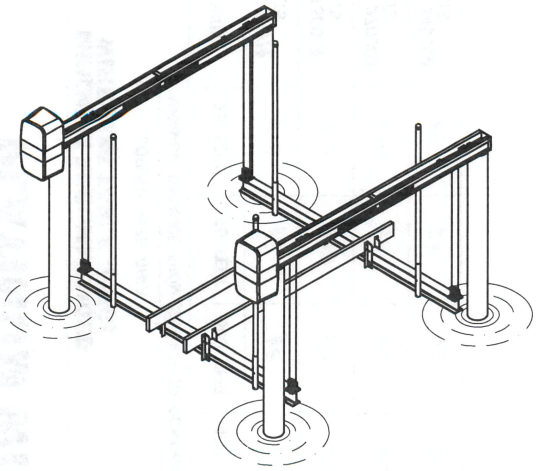
IMM Quality Boat Lifts

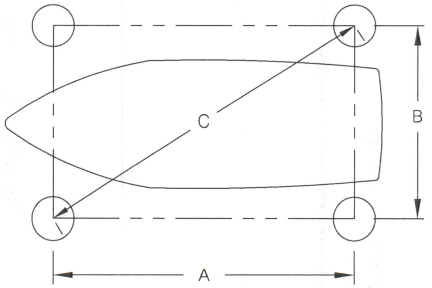
PLATINUM BOAT LIFT SPECIFICATIONS

4 POST BOAT LIFTS WITH 2 CRADLE BEAMS AND 4 CABLES



ALL SPACING TO CENTER OF PILING

LIFT CAPACITY	A	B	C	RECOMMENDED Min. PILE SIZE
4,500 lbs.	132"	120"	178"	8" DIA.
7,000 lbs.	144"	144"	204"	8" DIA.
10,000 lbs.	144"	150"	208"	8" DIA.
13,000 lbs.	144"	150"	208"	8" DIA.
16,000 lbs.	144"	168"	218"	10" DIA.
16,000 XL lbs.	168"	168"	238"	10" DIA.
20,000 lbs.	168"	192"	255"	10" DIA.
27,000 lbs.	192"	192"	272"	10" DIA.



STANDARD PILING SPACING

STRUCTURAL ENGINEERING REVIEW

THIS CONSTRUCTION HAS BEEN DESIGNED AS A MAIN WIND FORCE RESISTING SYSTEM, WITH CALCULATED GRAVITY AND WIND LOADS IN COMPLIANCE WITH THE FLORIDA BUILDING CODE, 6th EDITION, 2017, CHAPTERS 16 & 20, ADM 2015, AND ASCE/SEI 7-10 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" TO WITHSTAND THE WIND LOADS ASSOCIATED WITH AN ULTIMATE WIND SPEED OF 180 MPH, EXPOSURE "D", RISK CATEGORY I. J. L. SANDERS, P.E. HAS NO CONTROL OF THE MANUFACTURING, PERFORMANCE, OR INSTALLATION OF THIS PRODUCT. THESE GENERIC SPECIFICATIONS WERE ENGINEERED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES BASED ON DATA PROVIDED BY THE MANUFACTURER. THIS STRUCTURAL REVIEW IS LIMITED TO THE PRIMARY FRAMING AND CONNECTIONS AND IS NOT INTENDED TO COVER MECHANICAL AND ELECTRICAL COMPONENTS. THESE SPECIFICATIONS ARE BASED ON STRUCTURAL CALCULATIONS TITLED "4 POST BOAT LIFT", WHICH CONTAIN ADDITIONAL DESIGN REQUIREMENTS AND CRITERIA AND ARE AVAILABLE UPON REQUEST. THE BOAT LIFTS DEPICTED IN THESE SPECIFICATIONS AND RELATED CALCULATIONS WERE ENGINEERED AS MANUFACTURED PRODUCT FOR NON-SITE SPECIFIC USE AND NOT INTENDED TO COVER SITE SPECIFIC CONDITIONS, REQUIREMENTS AND LIMITATIONS LISTED IN THE STRUCTURAL CALCULATIONS.

J. L. Sanders, P.E.
2515 Gratis Road NW
Monroe, GA 30656
Phone: 239-671-1578

2-5-20

J.L. SANDERS, P.E. Date:
Reg. Florida No. 66361

SIGNATURE NOT VALID WITHOUT RAISED SEAL

LIFT CAPACITY lbs.	CABLE BEAM SIZE CUSTOM CHANNEL 6061-T6, 6005A-T5	CRADLE SIZE I-BEAM 6061-T6,6005A-T5	GROOVED CABLE WINDER SIZE inches	DRIVE SHAFT SIZE inches	GEAR RATIO	NO. OF MOTORS & H.P.	CABLES	CABLE SPREAD INCHES	LIFT SPEED ft/min	GUIDE POST HEIGHT	BOAT BUNKS WOOD OPTION	BOAT BUNKS ALUM. OPTION
4,500	5 x .230 H 2 x .160 W	6 x .190 H 4 x .290 W 120 L	2.375 DIA. 17" Length LIFTS 14 FT.	1.9 Ø TUBE 9 ga	375:1	(2)3/4H.P-115V/22A 230V/11A	5/16 SSAC 7x19 304, 1P 20'	101	36	7	2 x 8 x 144	144
7,000	6 x .230 H 2 x .160 W	6 x .190 H 4 x .290 W 144 L	2.375 DIA. 17" Length LIFTS 14 FT.	1.9 Ø TUBE 9 ga	375:1	(2)3/4H.P-115V/22A 230V/11A	5/16 SSAC 7x19 304, 1P 20'	113	36	7	2 x 8 x 144	144
10,000	7 x .230 H 2 x .160 W	8 x .230 H 5 x .350 W 150 L	2.375 DIA. 20" Length LIFTS 12 FT.	1.9 Ø TUBE 9 ga	375:1	(2)3/4H.P-115V/22A 230V/11A	5/16 SSAC 7x19 304, 2P 38'	110	18	7	2 x 8 x 144	144
13,000	8 x .230 H 2 x .160 W	8 x .230 H 5 x .350 W 150 L	2.375 DIA. 20" Length LIFTS 12 FT.	1.9 Ø TUBE 9 ga	375:1	(2)1H.P 230V/13A	5/16 SSAC 7x19 304, 2P 38'	110	18	7	2 x 8 x 144	144
16,000	11 x .230 H 2 x .160 W	10 x .250 H 6 x .410 W 168 L	2.375 DIA. 20" Length LIFTS 12 FT.	1.9 Ø TUBE 8 ga	375:1	(2)1H.P 230V/13A	5/16 SSAC 7x19 304, 2P 38'	110	18	10	3 x 10 x 168	192
16,000 XL	11 x .230 H 2 x .160 W	10 x .250 H 6 x .410 W 168 L	2.375 DIA. 20" Length LIFTS 12 FT.	1.9 Ø TUBE 8 ga	375:1	(2)1H.P 230V/13A	5/16 SSAC 7x19 304, 2P 38'	134	18	10	3 x 10 x 192	192
20,000	12 x .266 H 2 x .172 W	12 x .290 H 7 x .470 W 192 L	2.375 DIA. 25" Length LIFTS 12 FT.	1.9 Ø TUBE 8 ga	375:1	(2)1H.P 230V/13A	5/16 SSAC 7x19 304, 3P 60'	123	12	10	3 x 10 x 192	192
27,000	14 x .313 H 2 x .313 W	12 x .290 H 7 x .470 W 192 L	3.5 DIA. 21" Length LIFTS 12 FT.	2.875 Ø TUBE 8 ga	450:1	(2)1-1/2 H.P 230V/18A	5/16 SSAC 7x19 304, 4P 74'	147	11	10	3 x 10 x 192	192

IMM BOAT LIFTS, INC. IS NOT RESPONSIBLE FOR THE DOCK STRUCTURE OR ITS ABILITY RESIST THE APPLIED LOADS OF THE BOAT LIFT. THE SITE SHOULD BE VERIFIED BY A LICENSED MARINE CONTRACTOR. APPLIED LOADS WILL BE PROVIDED UPON REQUEST.

IMM QUALITY BOAT LIFTS
17030 Alico Center Rd. Ft. Myers, Fl. 33967 Phone: (800) 669-3515 Fax: (239) 454-8641

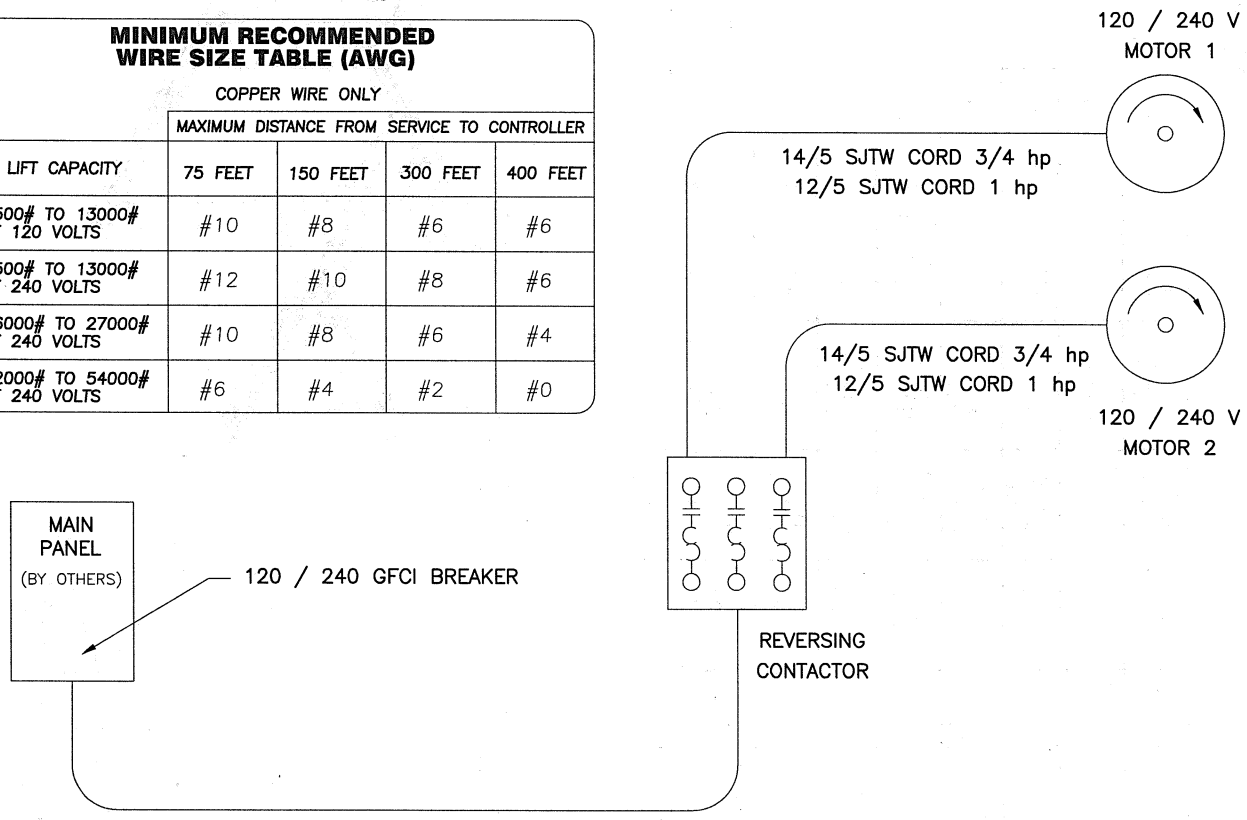
DWG: 600100 PUB Feb 5, 2020

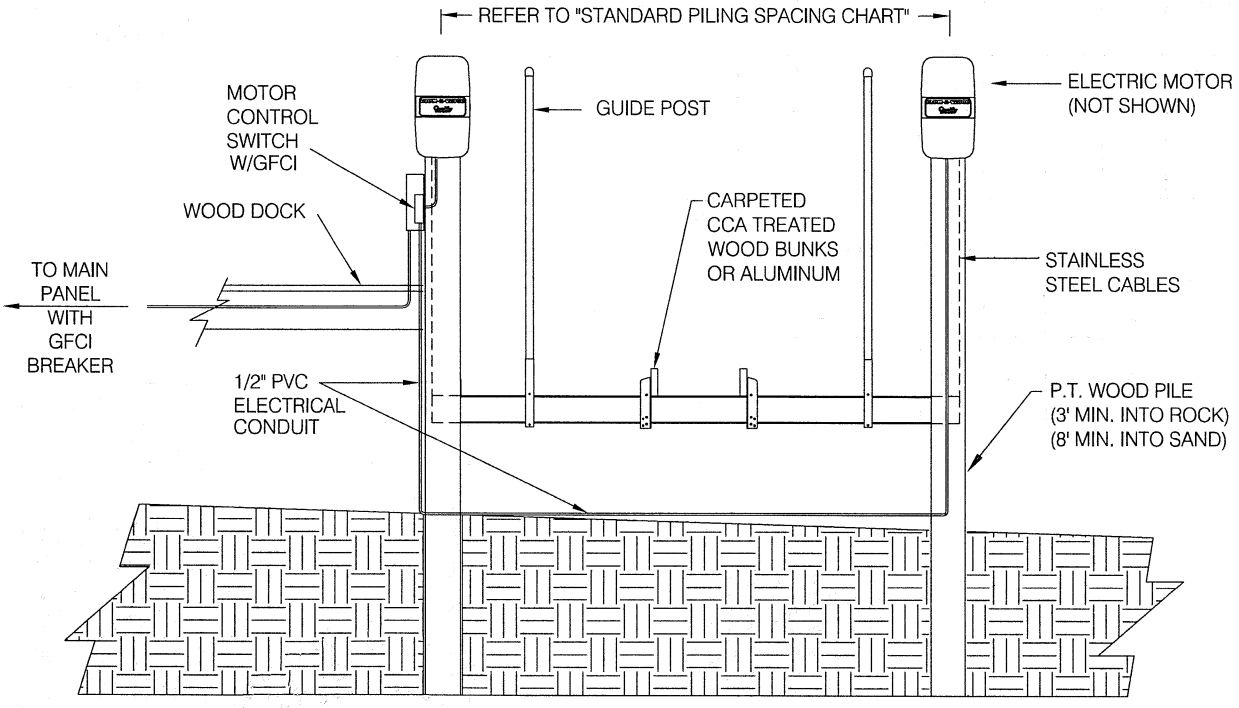
PLATINUM WIRING SCHEMATIC

MINIMUM RECOMMENDED WIRE SIZE TABLE (AWG)

COPPER WIRE ONLY

LIFT CAPACITY	MAXIMUM DISTANCE FROM SERVICE TO CONTROLLER			
	75 FEET	150 FEET	300 FEET	400 FEET
4500# TO 13000# AT 120 VOLTS	#10	#8	#6	#6
4500# TO 13000# AT 240 VOLTS	#12	#10	#8	#6
16000# TO 27000# AT 240 VOLTS	#10	#8	#6	#4
32000# TO 54000# AT 240 VOLTS	#6	#4	#2	#0





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