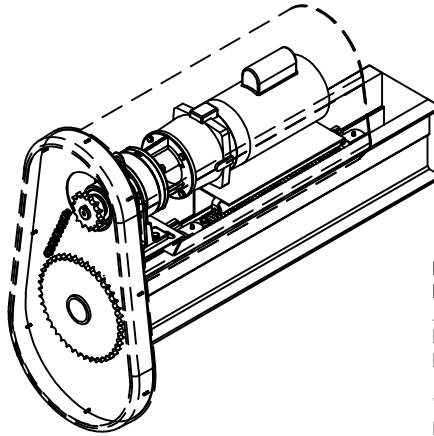
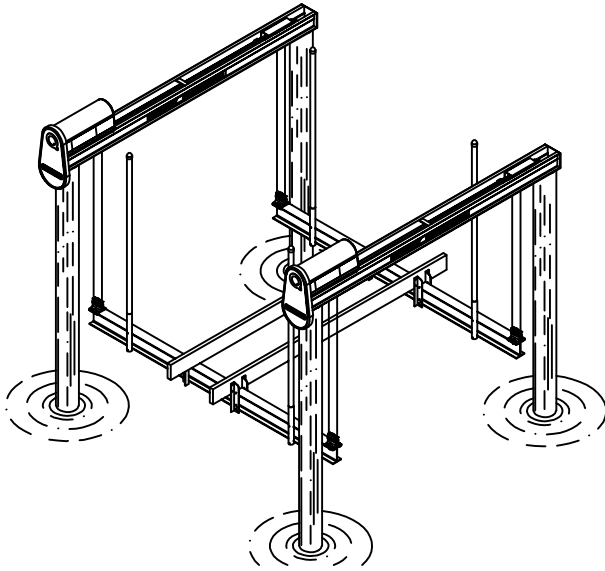


# IMM Quality Boat Lifts

## SUPERLIFT BOAT LIFT SPECIFICATIONS 4 POST BOAT LIFTS WITH 2 CRADLE BEAMS AND 4 CABLES



IMM BOAT LIFTS, INC. IS NOT RESPONSIBLE FOR THE DOCK STRUCTURE, OR ITS ABILITY RESIST THE APPLIED LOADS OF THE SUPERLIFT BOAT LIFT.

THE SITE SHOULD BE VERIFIED BY A LICENSED MARINE CONTRACTOR.

APPLIED LOADS WILL BE PROVIDED UPON REQUEST.

**NOTE: BOATS SHALL NOT BE STORED ON LIFTS DURING HIGH WIND EVENTS.**

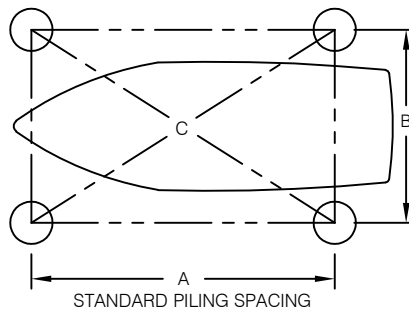
| LIFT CAPACITY | CABLE BEAM SIZE<br>CUSTOM CHANNEL<br>INCHES | GROOVED CABLE<br>WINDER SIZE<br>INCHES | DRIVE SHAFT<br>SIZE<br>INCHES | DRIVE SHAFT<br>SPROCKET | CHAIN<br>SIZE | GEAR DRIVE<br>SPROCKET | GEAR<br>DRIVE<br>RATIO | NO. OF MOTORS<br># H.P.    | MOTOR<br>BRAKE<br>TORQUE | NO. OF CABLES<br>AND SIZE<br>INCHES | CABLE<br>SPREAD<br>INCHES | INCHES OF<br>LIFT PER<br>MINUTE | GUIDE<br>POST<br>HEIGHT | BOAT BUNKS<br>ALUM.<br>INCHES | CRADLE BEAM<br>SIZE<br>"x" BM - INCHES |
|---------------|---------------------------------------------|----------------------------------------|-------------------------------|-------------------------|---------------|------------------------|------------------------|----------------------------|--------------------------|-------------------------------------|---------------------------|---------------------------------|-------------------------|-------------------------------|----------------------------------------|
| 5,000         | 5 x .230 H<br>2 x .160 W                    | 3.5 DIA.<br>11" LG<br>LIFTS 22 FT.     | 2.875 TUBE                    | 43 TOOTH                | #60           | 22 TOOTH               | 87:1                   | (2) 1 H.P.<br>240V/17A     | 6 FT-LBS                 | 5/16 SSAC 7x19<br>304, 1P 28"       | 107                       | 117                             | 7                       | 144                           | 6 x .190 H<br>4 x .290 W<br>120 L      |
| 7,000         | 6 x .230 H<br>2 x .160 W                    | 3.5 DIA.<br>11" LG<br>LIFTS 22 FT.     | 2.875 TUBE                    | 43 TOOTH                | #60           | 17 TOOTH               | 87:1                   | (2) 1 H.P.<br>240V/17A     | 6 FT-LBS                 | 5/16 SSAC 7x19<br>304, 1P 28"       | 119                       | 90                              | 7                       | 144                           | 6 x .190 H<br>4 x .290 W<br>144 L      |
| 10,000        | 7 x .230 H<br>2 x .160 W                    | 3.5 DIA.<br>19" LG<br>LIFTS 22 FT.     | 2.875 TUBE                    | 43 TOOTH                | #60           | 22 TOOTH               | 87:1                   | (2) 1 H.P.<br>240V/17A     | 6 FT-LBS                 | 5/16 SSAC 7x19<br>304, 2P 56"       | 111                       | 57                              | 7                       | 144                           | 8 x .230 H<br>5 x .350 W<br>150 L      |
| 14,000        | 8 x .230 H<br>2 x .160 W                    | 3.5 DIA.<br>19" LG<br>LIFTS 22 FT.     | 2.875 TUBE                    | 43 TOOTH                | #60           | 17 TOOTH               | 87:1                   | (2) 1 H.P.<br>240V/17A     | 6 FT-LBS                 | 5/16 SSAC 7x19<br>304, 2P 56"       | 111                       | 44                              | 7                       | 144                           | 10 x .250 H<br>6 x .410 W<br>150 L     |
| 18,000        | 11 x .230 H<br>2 x .160 W                   | 3.5 DIA.<br>19" LG<br>LIFTS 18 FT.     | 2.875 TUBE                    | 30 TOOTH                | #80           | 12 TOOTH               | 87:1                   | (2) 1-1/2 H.P.<br>240V/22A | 6 FT-LBS                 | 3/8 SSAC 6x36<br>304, 2P 50"        | 135                       | 45                              | 10                      | 192                           | 10 x .250 H<br>6 x .410 W<br>168 L     |
| 22,000        | 12 x .266 H<br>2 x .172 W                   | 3.5 DIA.<br>19" LG<br>LIFTS 18 FT.     | 2.875 TUBE                    | 30 TOOTH                | #80           | 10 TOOTH               | 87:1                   | (2) 1-1/2 H.P.<br>240V/22A | 6 FT-LBS                 | 3/8 SSAC 6x36<br>304, 2P 50"        | 135                       | 38                              | 10                      | 192                           | 12 x .290 H<br>7 x .470 W<br>192 L     |
| 27,000        | 14 x .313 H<br>2 x .313 W                   | 3.5 DIA.<br>28" LG<br>LIFTS 19 FT.     | 2.875 TUBE                    | 30 TOOTH                | #80           | 12 TOOTH               | 87:1                   | (2) 1-1/2 H.P.<br>240V/22A | 6 FT-LBS                 | 3/8 SSAC 6x36<br>304, 2P 75"        | 142                       | 30                              | 10                      | 192                           | 12 x .290 H<br>7 x .470 W<br>192 L     |
| 33,000        | 14 x .313 H<br>2 x .313 W                   | 3.5 DIA.<br>28" LG<br>LIFTS 19 FT.     | 2.875 TUBE                    | 30 TOOTH                | #80           | 10 TOOTH               | 87:1                   | (2) 1-1/2 H.P.<br>240V/22A | 6 FT-LBS                 | 3/8 SSAC 6x36<br>304, 3P 75"        | 166                       | 25                              | 10                      | 240                           | 12 x .310 H<br>7 x .620 W<br>216 L     |

**\*\*HI-SPEED OPTION\*\***

| GEAR<br>DRIVE<br>RATIO | NO. OF MOTORS<br># H.P. | MOTOR<br>BRAKE<br>TORQUE | INCHES OF<br>LIFT PER<br>MINUTE |
|------------------------|-------------------------|--------------------------|---------------------------------|
| 43:1                   | (2) 2 H.P.<br>240V/25A  | 6 FT-LBS                 | 237                             |
| 43:1                   | (2) 2 H.P.<br>240V/25A  | 6 FT-LBS                 | 182                             |
| 43:1                   | (2) 2 H.P.<br>240V/25A  | 6 FT-LBS                 | 115                             |
| 43:1                   | (2) 2 H.P.<br>240V/25A  | 6 FT-LBS                 | 89                              |
| 43:1                   | (2) 3 H.P.<br>240V/38A  | 9 FT-LBS                 | 90                              |
| 43:1                   | (2) 3 H.P.<br>240V/38A  | 9 FT-LBS                 | 77                              |
| 43:1                   | (2) 3 H.P.<br>240V/38A  | 9 FT-LBS                 | 60                              |
| 43:1                   | (2) 3 H.P.<br>240V/38A  | 9 FT-LBS                 | 51                              |

ALL SPACING TO CENTER OF PILING

| LIFT<br>CAPACITY | A    | B    | C        | RECOMMENDED<br>PILING SIZES |
|------------------|------|------|----------|-----------------------------|
| 5,000 LB         | 132" | 120" | 178.375" | 8" DIA.                     |
| 7,000 LB         | 144" | 144" | 203.625" | 8" DIA.                     |
| 10,000 LB        | 144" | 150" | 208"     | 8" DIA.                     |
| 14,000 LB        | 144" | 150" | 208"     | 8" DIA.                     |
| 18,000 LB        | 168" | 168" | 237.50"  | 10" DIA.                    |
| 22,000 LB        | 168" | 192" | 255.125" | 10" DIA.                    |
| 27,000 LB        | 192" | 192" | 271.50"  | 10" DIA.                    |
| 33,000 LB        | 216" | 216" | 305.50"  | 10" DIA.                    |



### 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, 8th EDITION 2023, SECTIONS 16 & 20, ADM 2020, ASCE/SEI 7-22, AND "MINIMUM DESIGN LOADS AND OTHER CRITERIA 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, PE HAS NO CONTROL OF THE MANUFACTURING, PERFORMANCE, OR INSTALLATION OF THIS PRODUCT. THESE GENERIC PLANS WERE ENGINEERED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES AND DATA PROVIDED BY THE MANUFACTURER.

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY J.L. SANDERS, PE ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

J. L. SANDERS, PE  
2515 GRATIS ROAD NW  
MONROE, GA 30656  
239-671-1578

J.L. SANDERS  
Reg. Florida No. 66361 Date:



# SUPERLIFT WIRING SCHEMATIC

| MINIMUM RECOMMENDED<br>WIRE SIZE TABLE (AWG) |                                             |          |          |          |
|----------------------------------------------|---------------------------------------------|----------|----------|----------|
| COPPER WIRE ONLY                             |                                             |          |          |          |
| LIFT CAPACITY                                | MAXIMUM DISTANCE FROM SERVICE TO CONTROLLER |          |          |          |
|                                              | 75 FEET                                     | 150 FEET | 300 FEET | 400 FEET |
| 5000# TO 14000#<br>AT 120 VOLTS              | #8                                          | #6       | #4       | #4       |
| 5000# TO 14000#<br>AT 240 VOLTS              | #10                                         | #8       | #6       | #4       |
| 18000# TO 33000#<br>AT 240 VOLTS             | #8                                          | #6       | #4       | #2       |
| 44000# TO 66000#<br>AT 240 VOLTS             | #4                                          | #2       | #0       | #00      |

