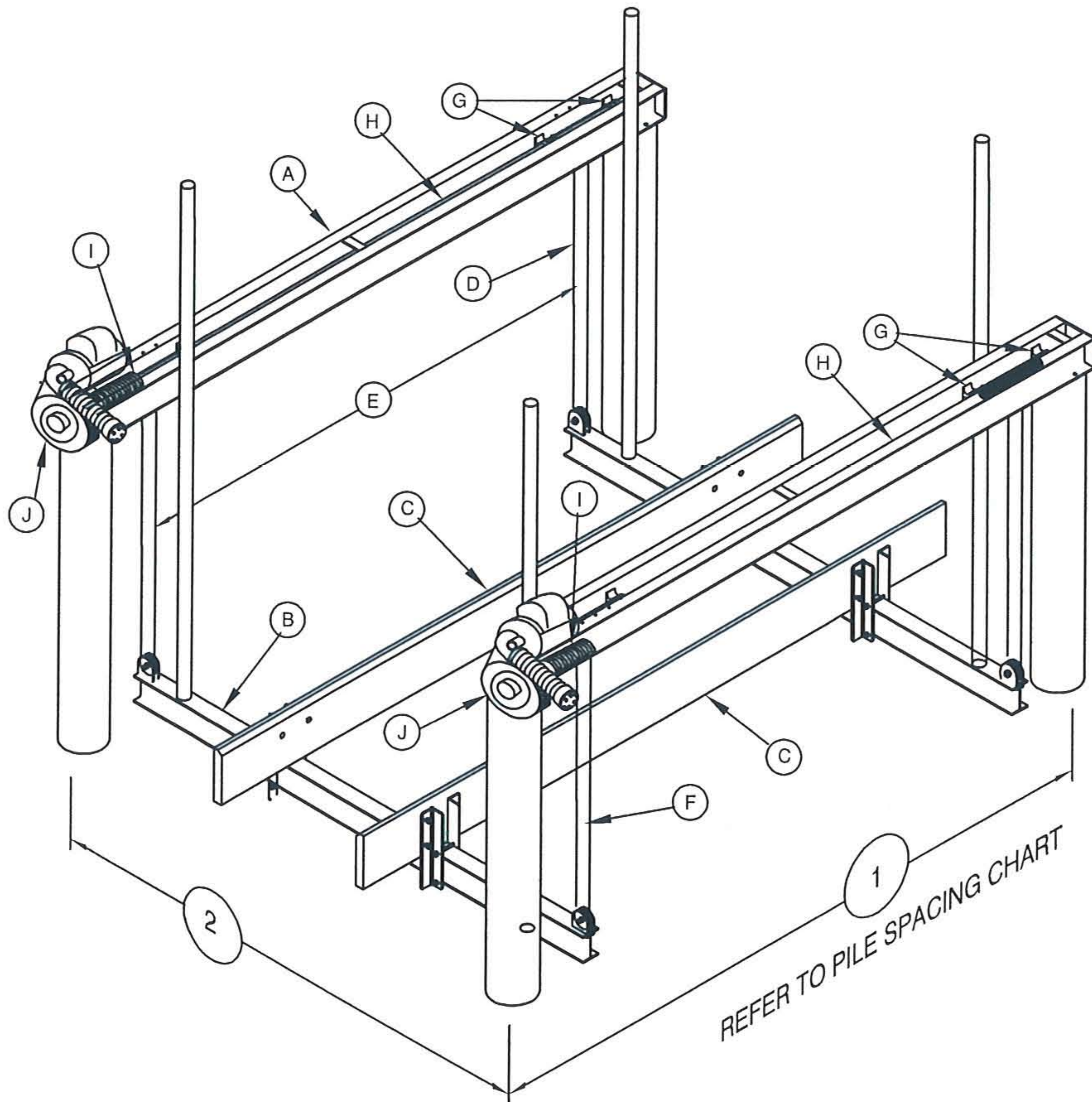


GOLDEN ENGINEERED 4 POST, 2 MOTOR SEA DRIVE BOAT LIFTS

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. |
| 5,000 | 11 | 10 | 8 |
| 7,500 | 12 | 12 | |
| 10,000 | | 12.5 | 10 |
| 14,000 | | 14 | |
| 16,000 | 14 | 16 | |
| 20,000 | | | |
| 24,000 | 16 | | |



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 2007, WITH 2009 SUPPLEMENTS, SECTION 1609, ADM 2005, AND ASCE 7-05 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" TO WITHSTAND THE WIND LOADS ASSOCIATED WITH A BASIC WIND SPEED OF 150 MPH, EXPOSURE "C". ARNOLD/SANDERS CONSULTING ENGINEERS 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

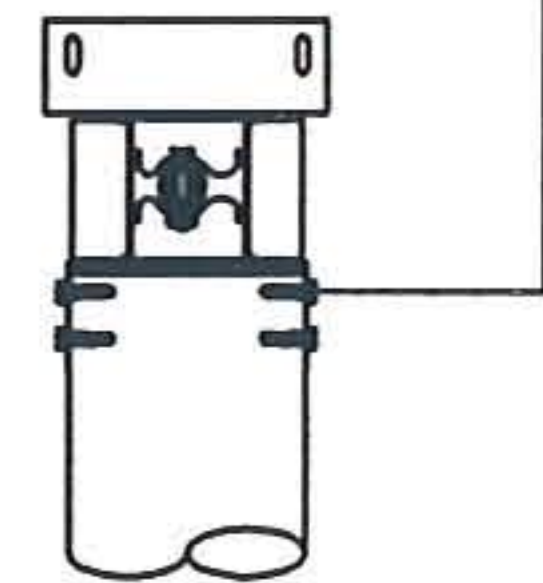
Arnold/Sanders Consulting Engineers, Inc.
Certificate of Authorization 9451
16681 McGregor Blvd, Suite 102, Ft. Myers, FL 33908
239-267-3666 Fax: 239-267-2771

J.L. SANDERS
Reg. Florida No. 65361

Date:

SIGNATURE NOT VALID WITHOUT RAISED SEAL

STAINLESS STEEL PILING MOUNT BRACKET, 4-³/₈" STAINLESS STEEL LAG SCREWS USED TO CONNECT THE BRACKETS TO THE PILING AND 2-³/₈" CARRIAGE BOLTS USED TO CONNECT THE BRACKETS TO THE LIFT CHANNELS



NOTE: THIS STRUCTURE WILL WITHSTAND WIND LOADS ASSOCIATED WITH BASIC WIND SPEEDS OF 150MPH CALCULATED PER F.B.C. 2007 AND ASCE 7-05. BOATS SHALL NOT BE STORED ON LIFT DURING HIGH WIND EVENTS

IN GENERAL, PILING PENETRATION TO BE 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.

(A) (B) (C) (D) (E) (F) (G) (H) (I) (J)

| LIFT CAPACITY | TOP BEAM CHANNEL | CRADLE I-BEAM | BUNK | CABLE | CABLE | GUIDE | BRGS | DRIVE | WINDER | MOTOR | INCHES | RECOM |
|---------------|---|--------------------------------------|---------------------------------|-----------------------------------|--------|-------|-------------------------------------|-----------------------------------|---|------------------------------------|---------|---------|
| Lbs | 2 EACH | 2 EACH | BOARDS | SIZE | SPREAD | POST | | SHAFT | DIA | HP | OF LIFT | PILING |
| | INCHES | INCHES | (PT) | INCHES | IN | HGTH | | | | VOLTAGE | PER MIN | SIZES |
| 5,000# | 4 H x .15 2 W x .23 140" OAL | 6 H x .19 4 W x .29 120" LGTH | 2x8x144 ROUGH SAWN CARPETED | 4 - 5/16" x15' ST ST 1 PART | 98" | 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 .28 x 153" OAL | 6 H x .19 4 W x .29 144" LGTH | | 4 - 5/16" x30' ST ST 2 PART | 110" | | | | | 2 - 1 HP 120V/20A 240V/10A | | |
| 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" x45' ST ST 3 PART | 122" | | | | | 2 - 3/4 HP 120V/20A 240V/10A | | |
| 14,000# | 7 H x .17 2.75 W x .29 x 153" OAL | 8 H x .25 5 W x .41 150" LGTH | 3x10x192 ROUGH SAWN CARPETED | | | 120" | | 1-15/16" DIA. SCH 80 GALV PIPE | | | 19.85" | 10" DIA |
| 16,000# | 8 H x .19 3 W x .35 x 153" OAL | 10 H x .25 6 W x .41 168" LGTH | | | 122" | | | | | 2 - 1 HP 120V/20A 240V/10A | | |
| 20,000# | 8 H x .25 3.75 W x .41 x 177" OAL | 10 H x .25 6 W x .41 192" LGTH | | | 134" | | | | | | | |
| 24,000# | 8 H x .25 3.75 W x .41 x 201" OAL | 10 H x .29 6 W x .50 192" LGTH | | | | | | | | | 13.20" | |

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