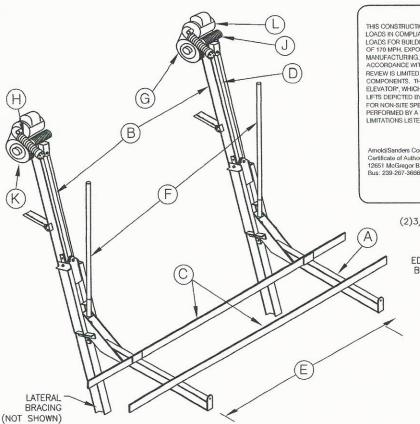
GOLDEN ELEVATOR LIFT



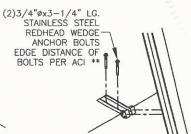
INCLINE MOUNT OR VERTICAL MOUNT

STRUCTURAL ENGINEERING REVIEW

THIS CONSTRUCTION HAS BEEN DESIGNED AS A MAIN WIND FORCE RESISTING SYSTEM, WITH CALCULATED GRAVITY AND WIND LOADS IN COMPILANCE WITH THE FLORIDA BUILDING CODE 2010, SECTION 1609, ADM 2005, 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 170 MPH, EXPOSURE "D", RISK CATEGORY I. ANNOLD/SANDERS CONSULTING ENGINEERS HAS NO CONTROL OF THE MANUFACTURING, PERFORMANCE, OR INSTALLATION OF THIS PRODUCT. THESE GENERIC DESIGN FEATURES 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 DESIGN FEATURES AND EASE AND EASE ON STRUCTURAL CALCULATIONS, TITLED "STRUCTURAL CALCULATIONS FOR ELEVATOR", WHICH CONTAIN ADDITIONAL DESIGN REQUIREMENTS AND CRITERIA AND ARE AVAILABLE UPON REQUEST. THE BOAT LIFTS DEPICTED BY THESE DESIGN FEATURES AND RELATED CALCULATIONS WERE ENGINEERED AS MANUFACTURED PRODUCT FOR NON-SITE SPECIFIC USE AND NOT INTENDED TO COVER SITE SPECIFIC CONDITIONS. SITE SPECIFIC DESIGN SHALL BE PROPERED FRODUCT FOR NON-SITE SPECIFIC DESIGN SHALL BE.

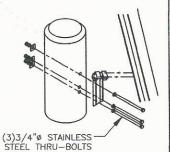
Amold/Sanders Consulting Engineers, Inc. Certificate of Authorization 9461 12651 McGregor Blvd., Bldg. 1, Suite 103, Ft. Myers, FL 33919 Bus: 239-267-3666 Fax: 239-267-2771

J. L. SANDERS, P.E. Reg. Florida No. 66361 SIGNATURE NOT VALID WITHOUT RAISED SEAL



** ON 40K LIFT USE (2) 1" DIA. x 4-1/2" EMBED

TYPICAL HORIZONTAL CONNECTION TO REINFORCED CONCRETE DOCK OR SEAWALL



TYPICAL VERTICAL
CONNECTION TO WOOD
PILE OR HORIZONTAL
WOOD DECK FRAMING

NOTE: THIS STRUCTURE HAS BEEN DESIGNED FOR LOADS ASSOCIATED WITH AN ULTIMATE WIND SPEED OF 170 MPH,EXPOSURE "D", RISK CATEGORY I, CALCULATED PER FLORIDA BUILDING CODE 2010, ASCE/SEI 7-10 AND ADM-2005. BOATS SHALL NOT BE STORED ON LIFTS DURING HIGH WIND EVENTS. ALL PRIMARY STRUCTURAL MEMBERS ARE TO BE 6061-T6 ALUMINUM. TRACKS ARE TO BE DRIVEN TO FIRM BEARING MATERIAL.

SUMMARY OF DESIGN FEATURES

| | A | B | © | D | E | F | <u>G</u> | $\overline{\mathbb{H}}$ | J | (K) | L | |
|-----------------------|--|---|---|-------------------------------------|--------------------|----------------------|---------------------------------|--|--|---------------|--|----------------------------|
| LIFT CAPACITY | CRADLE I-BEAM | TRACK I-BEAM | BUNK BOARDS FEET | CABLE SIZE | TRACK SPREAD | GUIDE POST HEIGHT | BRGS | DRIVE SHAFT | WINDER DIA | GEAR RATIO | MOTOR HP/VOLTAGE | INCHES OF LIFT PER MIN. |
| 3,000# | (2) 6 H x .19 4 W x .29 x 7' LG @ 4.03#/FT | (2) 8 H x .23 5 W x .35 x 25' LG. @ 6.18#/FT | | (2) 5/16" Ø x 30' S.S. 2 PART | 7' THRU | | | 48" WALL HSS | | | (2) 3/4 HP 120V/20A 240V/10A | |
| 5,000# & 7,000# | (2) 8 H x .25 5 W x .41 x 8' LG. @ 7.02#/FT | (2) 8 H x .25 5 W x .41 x 25' LG. @ 7.02#/FT | (2) 2 x 8 x 144 ROUGH SAWN CARPETED | (2) 5/16°Ø x 30' S.S. 2 PART | 10' | 80" | (4) 2" EXTRUDED 6061-T6 ALUM | (2) 1.900° O.D. x. 148° WALL GALVANIZED HSS | 1.99° I.D. | 480:1 | 5,000# (2) 3/4 HP 7,000# (2) 1 HP | 13-1/2" |
| 10,000# | (2) 9 H x .27 5.5 W x .44 x 8' LG. @ 8.36#/FT | (2) 9 H x .27 5.5 W x .44 x 25' LG. @ 8.36#/FT | | (2) 3/8"Ø x 30' S.S. 2 PART | 8' THRU 11' | | | | | | (2) 3/4 HP 120V/20A | |
| 12,000# | (2) 10 H x.25 6 W x .41 x 8' LG. @ 8.65#/FT | (2) 10 H x .25 6 W x .41 x 25' LG. @ 8.65#/FT | | | | | | | | | 240V/10A | 9" |
| 15,000# | (2) 10 H x.29 6 W x .50 x 8' LG @ 10.3#/FT | (2) 10 H x.29 6 W x .50 x 25' LG @ 10.3#/FT | | (2) 3/8"Ø x 38' S.S. 3 PART | | | | | | | | |
| 17,000# | (2) 12 H x.29 7 W x .47 x 10' LG. @ 11.7#/FT | (2) 12 H x.29 7 W x .47 x 25' LG. @ 11.7#/FT | (2) 3 x 10 x 192 ROUGH SAWN | (2) 3/8"Ø | | | (4) 2" EX | 5° WALL | FLAT PLATE DRIVE: 3'Ø O.D. X 1.99" I.D. SEA DRIVE: 3.5" Ø O.D. X 1.99" I.D. | | | 6,75" |
| 20,000# | (2) 12 H x.31 7 W x .62 x 11' LG. @ 14.3#/FT | (2) 12 H x.31 7 W x .62 x 25' LG. @ 14.3#/FT | CARPETED | x 56' S.S. 4 PART | 8' THRU 14' | 120" | | (2) 1.900" O.D. x.165" WALL GALVANIZED HSS | TE DRIVE: | | (2) 1 HP 120V/20A 240V/10A | 0.73 |
| 24,000# | (4) 10 H x.29 6 W x.50 x 10' LG. @ 10.3#/FT | (4) 10 H x.29 6 W x .50 x 25' LG @ 10.3#/FT | (2) 10 H x .25 6 W x .41 x 20' LG. CAPPED W/ WOOD & CARPET | (2) 7/16"Ø x 60' S.S. 4 PART | | | DED | (2) 1.900 GAL | FLAT PLA SEA DRIV | | (0) 1 5 110 | 9" |
| 30,000# | (4) 12 H x.31 7 W x .62 x 11' LG. | (4) 12 H x.31 7 W x .62 x 25' LG. | (2) 10 H x .25 6 W x .41 × 20' LG, CAPPED W/ | (2) 1/2"Ø x 68' S.S. | 10' THRU 16' | | (6) 2" EXTRUDED 6061-T6 ALUM | | | | (2) 1.5 HP 120V/20A 240V/10A | 6.75" |
| 40,000# | X 11' LG. @ 14.3#/FT | x 25' LG. @ 14.3#/FT | CAPPED W/ WOOD & CARPET | 4 PART | | | (6) | | | 500:1 | | 6.5" |

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