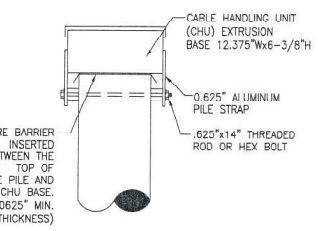


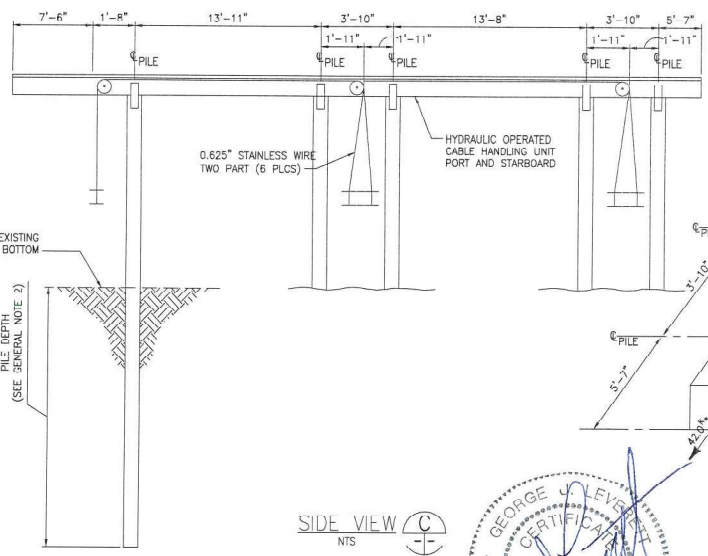
MPH	EXPOSURE (2)	WIND PRESSURE	PILE REACTIONS (5)	
			PERPENDICULAR TO CHU (3)	PARALLEL TO CHU (4)
180	C	52.1 PSF	2929#	1302#
180	D	63.0 PSF	3541#	1574#
170	C	46.4 PSF	2612#	1181#
170	D	49.7 PSF	3159#	1404#
160	C	41.1 PSF	2314#	1028#
160	D	56.2 PSF	2798#	1244#
150	C	36.2 PSF	2034#	904#
150	D	43.7 PSF	2459#	1093#
140	C	31.5 PSF	1772#	787#
140	D	38.1 PSF	2142#	952#
130	C	27.2 PSF	1528#	679#
130	D	32.8 PSF	1847#	821#
120	C	23.1 PSF	1302#	579#
120	D	28.0 PSF	1574#	699#

WIND LOADS
NIS

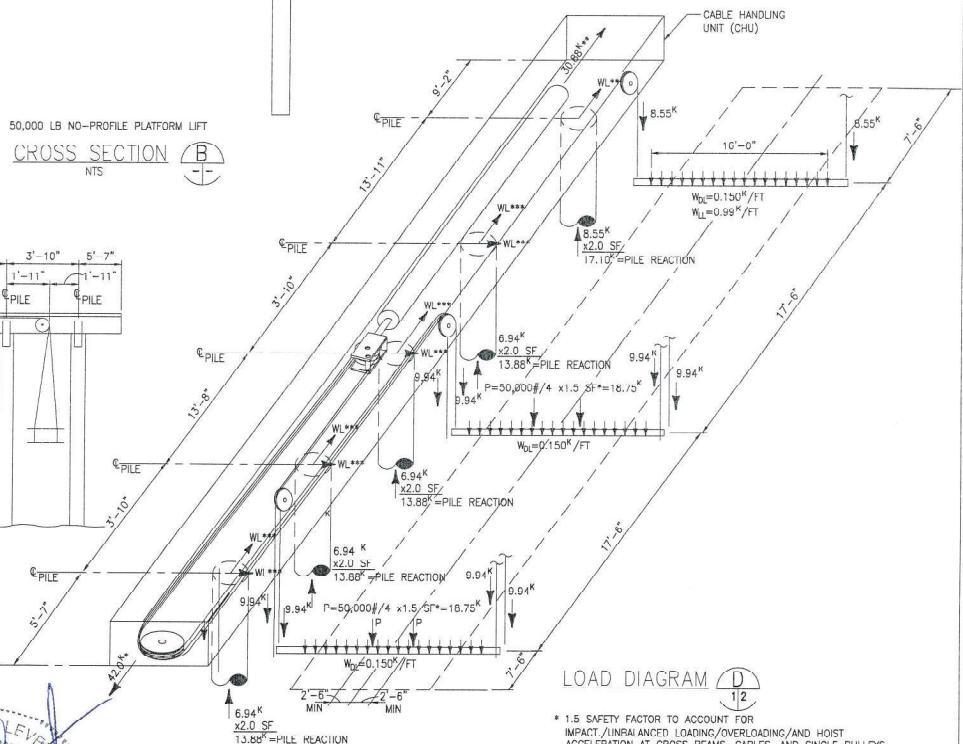
- NOTES:
1. THE ALUMINUM BOAT HOIST STRUCTURE HAS BEEN DESIGNED FOR 180 MPH, RISK CATEGORY II EXPOSURE D.
 2. EXPOSURE C APPLIES TO WATER EXPOSURE FOR AN UPWIND DISTANCE BETWEEN 1,500 AND 5,000 FEET. EXPOSURE D APPLIES TO WATER EXPOSURE FOR AN UPWIND DISTANCE OF 5,000 FEET OR GREATER.
 3. WIND SPEED APPLIED TO 450 SQUARE FOOT SURFACE AREA AND DISTRIBUTED TO 4 PILES SUPPORTING THE BOAT CRADLE.
 4. WIND PRESSURE APPLIED TO 250 SQUARE FOOT SURFACE AREA AND DISTRIBUTED TO 6 PILES.
 5. PERPENDICULAR & PARALLEL PILE REACTIONS ARE NOT APPLIED SIMULTANEOUSLY.



PILE CONNECTION DETAIL A
1 1/2"=1'-0"



SIDE VIEW C
NIS



LOAD DIAGRAM D
1/2

- * 1.5 SAFETY FACTOR TO ACCOUNT FOR IMPACT/INRAI AND/O LOADING/OVERLOADING/AND HOIST ACCELERATION AT CROSS BEAMS, CABLES, AND SINGLE PULLEYS
- ** 1.1 SAFETY FACTOR FOR HOIST ACCELERATION AT MULTIPLE CABLE PULLEYS AND PISTON.
- *** W1 FORMULA'S WINDLOAD. SEE SCHEDULE ABOVE.
- **** 60 PSF LIVE LOAD NOT APPLIED CONCURRENT WITH BOAT LOADS AND IS NOT A HOIST REQUIREMENT.

- GENERAL NOTES:**
1. ALL HARDWARE TO BE STAINLESS STEEL UNLESS OTHERWISE NOTED.
 2. PILE MATERIAL, DIAMETER, AND DEPTH TO BE DETERMINED BY GEOTECHNICAL ENGINEER RETAINED BY THE GENERAL CONTRACTOR BASED ON LOCAL SOIL CONDITIONS.
 3. IF WOOD PILING IS USED, IT SHALL BE TREATED WITH 2.5lb CCA. IF STEEL PILING IS USED, A CATHODIC ISOLATION BARRIER SHALL BE PROVIDED BETWEEN THE STEEL PILE AND THE ALUMINUM CHU.
 4. APPROVED CONTRACTOR SHALL DETERMINE SUITABILITY OF THE EXISTING STRUCTURES AND VERIFY ALL DIMENSIONS.
 5. APPROVED CONTRACTOR IS RESPONSIBLE FOR ALL MEANS, METHODS, SEQUENCES AND PROCEDURES.
 6. LIFT DESIGNED PER FLORIDA BUILDING CODE 6TH EDITION (2017).

- a) DECK LIVE LOAD = 60 PSF.
- b) WIND LOAD--THE ALUMINUM BOAT HOIST STRUCTURE HAS BEEN DESIGNED PER ASCE 7-10 SOLID SIGN CRITERIA FOR 180 MPH, RISK CATEGORY II EXPOSURE D.
- c) SEE TABLE FOR PILE REACTIONS FOR LATERAL WIND LOADS OF VARYING SPEEDS AND EXPOSURE CLASSIFICATIONS.
- d) HOIST LIVE LOAD = 50,000 POUNDS




GEORGE J. LEVERETT PE
 STRUCTURAL ENGINEERING, LLC
 3606 RIVER HALL DRIVE JACKSONVILLE FL 32217
 CERTIFICATE OF AUTHORIZATION No 28761
 (904) 923-5407

NO PROFILE BOAT LIFT		50,000 lb PLATFORM	
SCALE: AS NOTED	APPROVED BY:	DATE: 07/01/18	DRAWN BY: ARN
OWNER:		REVISION:	
GEORGE J. LEVERETT, P.E. FL PE# 38336		ADDRESS: WIND 500PL PERM	

GEORGE J. LEVERETT
FLORIDA R.E. 38336