



- ### SHEET NOTES
- PILE DESIGN WAS PREPARED IN COMPLIANCE WITH RECOMMENDATIONS PROVIDED BY NODARSE AND ASSOCIATES IN THEIR "GEOTECHNICAL EXPLORATION AND EVALUATION, PROPOSED INPATIENT AND OUTPATIENT IMPROVEMENTS, VA MEDICAL CENTER BAY PINES, BAY PINES, FLORIDA", DECEMBER 17, 2009; PROJECT NUMBER 04-09-0009-101A. BORINGS OBTAINED AND RECOMMENDATIONS PROVIDED IN THIS REPORT (FOR THE CEP ADDITION AND WAREHOUSE) WERE DETERMINED TO BE THE MOST APPLICABLE FOR THIS PROJECT. ON PAGE 9 OF THE REFERENCED REPORT, NODARSE SAYS: "WE RECOMMEND... BE SUPPORTED BY A DEEP FOUNDATION CONSISTING OF AUGERCAST PILES." AFTER DRIVING, THE PILES SHALL BE FILLED WITH GROUT AND A REBAR CAGE SHALL BE PLACED IN THE GROUTED HOLE PER DETAIL 8/S205. A LOAD TEST SHALL BE PERFORMED TO VERIFY THAT EACH OF THE AUGERCAST PILES HAVE ACHIEVED A MINIMUM CAPACITY OF 35 TONS.
 - IN THE FOLLOWING PARAGRAPH OF THE NODARSE REPORT, IT IS NOTED: "AS AN ALTERNATIVE, DUCTILE IRON PIPE PILES CAN BE CONSIDERED. WHILE THESE PILES ARE DRIVEN, THEY ARE NOT DRIVEN WITH A CONVENTIONAL HAMMER. THEY ARE DRIVEN WITH A HIGH FREQUENCY IMPACT HAMMER AND THE PROCESS PRODUCES LITTLE TO NO VIBRATIONS. ... THEY ACHIEVE CAPACITY THROUGH END BEARING IN A LOAD BEARING STRATUM SUCH AS LIMESTONE OR UNTIL A SUFFICIENT DEPTH IS OBTAINED TO ACHIEVE DESIGN CAPACITY THROUGH SIDE FRICTION ALONG THE PILE. THE PIPE IS GENERALLY 4.65 INCHES IN DIAMETER AND CAN BE DRIVEN WITH AN ENLARGED SHOE TO PRODUCE AN 8 INCH DIAMETER PILE." AFTER DRIVING, THE PILES SHALL BE FILLED WITH GROUT. 4 #5 REINFORCING BARS (WITH STANDARD HOOKS ABOVE AND 24" MINIMUM EMBEDMENT) SHALL BE PLACED INTO THE GROUTED PILES. A LOAD TEST SHALL BE PERFORMED TO VERIFY THAT EACH OF THE GROUT-FILLED PIPE PILES HAVE ACHIEVED A MINIMUM CAPACITY OF 35 TONS.
 - DUE TO THE POSSIBILITY OF OVERHEAD OBSTRUCTIONS, IT MAY BE NECESSARY TO DRIVE PIPE PILES IN SECTIONS, SCREWED OR WELDED TOGETHER.
 - REGARDLESS OF WHICH SYSTEM IS BEING INSTALLED, THE INSTALLATION SHALL BE MONITORED ON A FULL TIME BASIS BY AN EXPERIENCED GEOTECHNICAL PROFESSIONAL. TESTING SHALL ALSO BE PERFORMED BY A GEOTECHNICAL PROFESSIONAL.
 - CONTRACTOR SHALL ENGAGE THE SERVICES OF A REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER. ANY REVISIONS OR IMPROVEMENTS TO THE EXISTING DESIGN SHALL BE SUBMITTED FOR APPROVAL OF THE ENGINEER OF RECORD. THE COST OF ANY ADDITIONAL GEOTECHNICAL TESTING NEEDED TO MEET DESIGN OR SPECIFICATION REQUIREMENTS SHALL BE BORNE BY THE CONTRACTOR.

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
A	EXISTING 5'-6" X 2'-6" X 24" DEEP REINFORCED CONCRETE CAP W/ 2 CONCRETE PILES
B	EXISTING SINGLE PILE W/ 2'-6"± X 2'-6"± X 24" DEEP THICKENED SLAB
C	EXISTING 21'-0" X 8'-0" X 24" DEEP REINFORCED CONCRETE PILE CAP W/ 4 CONCRETE PILES
D	EXISTING FOUNDATION FOR STEEL COLUMNS & ELEVATED WALKWAY
E	NOT USED
F	EXISTING TRENCH
G	NEW TRENCH
H	NEW PILING, SEE NOTE # 1
I	NEW CURBS CAST ON EXISTING PADS TO ELEVATE & SUPPORT NEW BOILERS
J	NEW CONCRETE BOILER PAD, 24" THICK
K	NEW CURBS CAST W/ NEW PADS TO ELEVATE & SUPPORT NEW BOILERS

one eighth inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
three inches = one foot

100% DESIGN
APPROVED FOR CONSTRUCTION

ADDENDUM #1		5/24/2018	CONSULTANTS:		ENGINEER-OF-RECORD RICHARD G. WHEELER FL P.E. NO. 23064		ARCHITECT/ENGINEERS:		Drawing Title		Project Title		Project Number		Office of Construction and Facilities Management			
							AKEA Design, Inc. 3603 NW 98th Street, Suite B Gainesville, FL 32606 Phone: (352) 474-6124 Fax: (352) 533-4437 COA: FL #29578 AKEA Project No. 128-16		STRUCTURAL KEYPLAN		DESIGN TO REPLACE BOILERS, BLDG 100 ENERGY CENTER		516-15-107					
											Building Number 100							
									Approved: Project Director		Location BAY PINES, FLORIDA		Drawing Number S201					
											Date MAY 15, 2017		Checked RGW		Drawn JG		Department of Veterans Affairs	