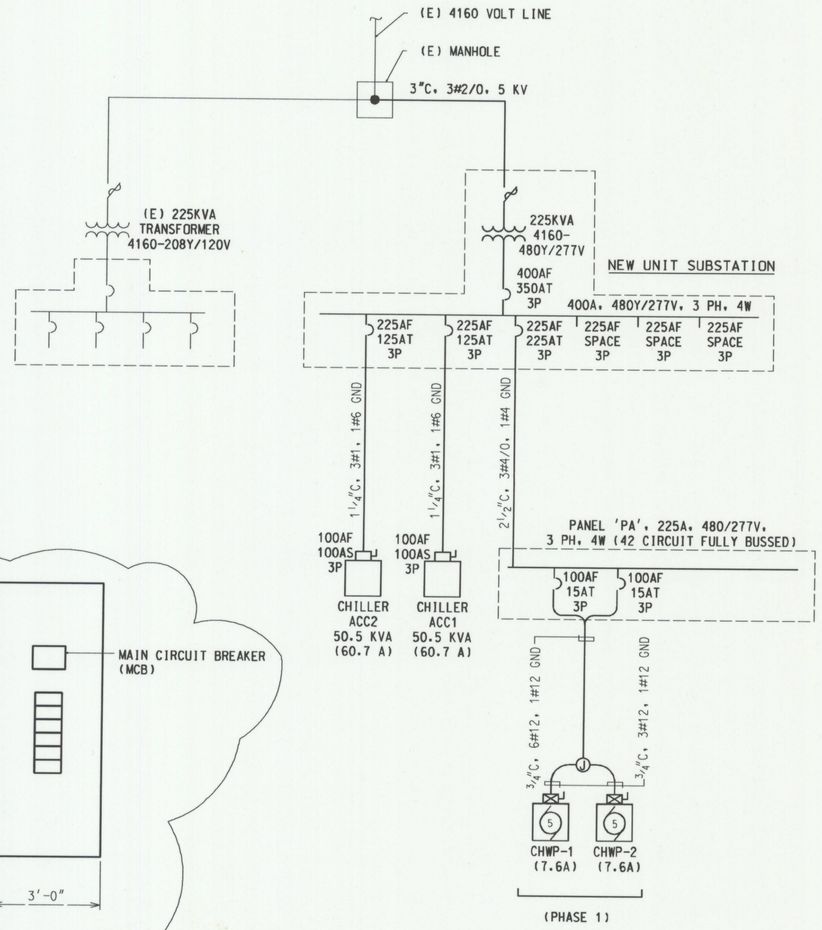
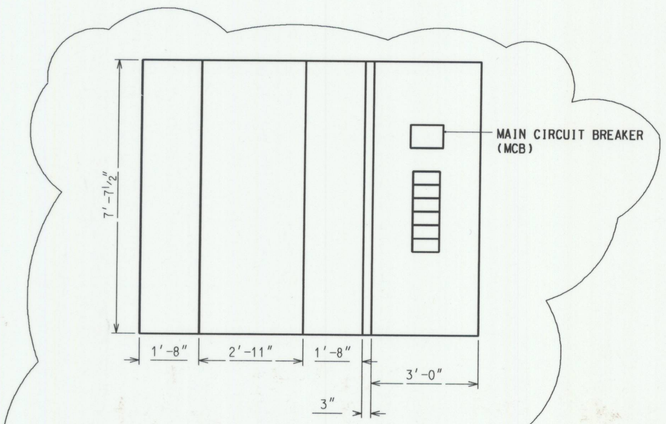
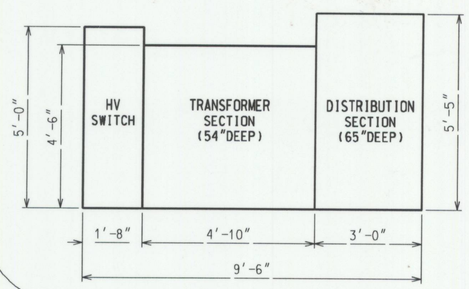


SINGLE LINE DIAGRAM

NO SCALE



ELEVATION



PLAN

BLDG. 403 NEW UNIT SUBSTATION

N.T.S.

SYMBOLS

EXISTING TO BE REMOVED.	EXISTING TO REMAIN	NEW	
MCC2-5	MCC2-5	MCC2-5	HOMERUN TO MCC2-5
			CONDUIT & WIRE, SIZE AS INDICATED. NO SIZE INDICATES 3/4"C, 2#12.
			3/4"C, 3#12 (HASH MARK INDICATES NUMBER OF # 12 WIRES)
25	25	25	MOTOR, 25 HORSEPOWER
			CIRCUIT BREAKER, SIZE AS INDICATED
J	J	J	JUNCTION BOX.
		VFD	VARIABLE FREQUENCY DRIVE WITH MAIN BREAKER. (SINGLE LINE)
		MS	COMBINATION CIRCUIT BREAKER MAGNETIC STARTER (SINGLE LINE).
		VFD	VARIABLE FREQUENCY DRIVE WITH MAIN BREAKER. (PLAN)
			DISCONNECT SWITCH, 30AS, 3P UNLESS NOTED OTHERWISE.
			COMBINATION MAGNETIC STARTER, FUSED DISCONNECT.
T	T	T	TRANSFORMER, RATING AS INDICATED. (PLAN).
			120V, EXIT SIGN, SINGLE FACE, WALL MOUNTED ABOVE DOOR WITH EMERGENCY POWER PACK, GREEN LETTERS ON WHITE STENCIL/HOUSING. DUALITE EZ-SNAP LED SERIES #KSG-LPLED-EP OR EQUAL.
			2 LAMP INDUSTRIAL TYPE FLUORESCENT FIXTURE, SURFACE MOUNTED.

ABBREVIATIONS

ACC	AIR COOLED CHILLER	H-O-A	HAND-OFF-AUTO SWITCH
AHU	AIR HANDLER UNIT	HTU	HEATING UNIT
AIC	AMPS INTERRUPTING CAPACITY	KVA	KILOVOLT AMPERE
AF	AMPERE FRAME	VFD	VARIABLE FREQUENCY DRIVE
AT	AMPERE TRIP	(N)	NEW
CHWP	CHILLED WATER PUMP	(R)	RELOCATED
EXIST'G. OR (E)	EXISTING	N.E.C.	NATIONAL ELECTRICAL CODE

GENERAL ELECTRICAL NOTES:

1. SCHEDULE SHUT-DOWN OF ELECTRICAL SERVICES, EXISTING CIRCUITS, SYSTEMS AND EQUIPMENT TO REDUCE OUT-OF-SERVICE TO A MINIMUM. PREPARE A WRITTEN SCHEDULE OF DATES, TIME AND NUMBER OF HOURS NEEDED FOR SHUTDOWNS FOR APPROVAL. ALL POWER OUTAGES SHALL BE ARRANGED AS REQUIRED BY DIVISION 1 OF THE SPECIFICATION.
2. ALL MISCELLANEOUS IRON WORK AND STEEL WORK REQUIRED TO COMPLETE AND PROPERLY INSTALL THE ELECTRICAL WORK AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THIS INCLUDES ALL HANGERS, SUPPORTS, SWITCH RACKS, BRACKETS AND ANY WELDING REQUIRED.
3. NO WELDING WILL BE DONE WITHOUT A PERMIT.
4. CONDUITS ON WALLS AND CEILINGS MUST RUN IN PARALLEL TO OR AT RIGHT ANGLES TO NEARBY SURFACES OR STRUCTURAL MEMBERS, AND FOLLOW THE SURFACE CONTOURS AS MUCH AS POSSIBLE.
5. CONTROL WIRE TERMINATIONS MUST BE ON TERMINAL BLOCKS AND LABELED.
6. MINIMUM SIZE OF CONDUITS SHALL BE 3/4 INCH.
7. ALL CONDUITS AND WIRING SHALL BE CONCEALED.

SPECIFIC NOTES:

1

REV. NO.	DATE	DESCRIPTION	AGENCY	BY
1	9-3-97			

		DATE
PROJECT MANAGER		
SECURITY		
ENVIRONMENTAL		
SAFETY DIVISION		
CHIEF FIRE PROTECTION		
COMMUNICATIONS ENGINEER		
BIOENVIRONMENTAL ENGINEER		
CHIEF OPERATION & MAINTENANCE		

		DATE
APPROVED	USING AGENCY	
	BASE CIVIL ENGINEER	
	CONTRACT MGT.	
DESIGNED BY	W. BERMUDEZ	6-15-97
DRAWN BY	W. BERMUDEZ	6-15-97
CHECKED BY	C. BARROSO	6-15-97
SUBMITTED BY	J. HOLLAND	6-15-97

JOB No. 10-50104-18B

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UNITED STATES AIR FORCE
61 AIR BASE GROUP (ABG)
LOS ANGELES AIR FORCE BASE

PROJECT TITLE: BLDG 403 HVAC COMMUNITY CENTER FORT MccARTHUR

SHEET TITLE: SYMBOL LIST, GENERAL NOTES & 1 LINE DIAGRAM

DRAWING NO. HHEK - 95-0019

DATE: SEPT. 3, 1997

SCALE: 1/8" = 1'-0"

E-1

SHEET: 14 OF 16