

**GENERAL NOTES:**

1. PENETRATION OF CONDUITS, RACEWAYS AND WIRING THROUGH FIRE RATED WALLS AND CEILINGS SHALL BE FIRE-STOPPED. FIRE STOPPING MATERIALS AND METHODS SHALL BE A U.L. LISTED ASSEMBLY.
2. METHODS AND MATERIALS SHALL BE IN ACCORDANCE WITH NEC. EQUIPMENT SHALL BE IN ACCORDANCE WITH THE STANDARDS OF NEMA AND ANSI. EQUIPMENT SHALL BE NEW AND LISTED BY U.L. AND INSTALLED IN ACCORDANCE WITH THE CONDITIONS STATED IN THAT LISTING.
3. BEFORE ENERGIZING, EQUIPMENT SHALL BE TESTED TO BE FREE OF GROUNDS AND SHORTS.
4. RECEPTACLES, OUTLETS AND JUNCTION BOXES (ABOVE AND BELOW CEILING) SHALL BE PERMANENTLY MARKED AS TO INDICATE THE CIRCUIT NUMBER AND SOURCE PANELBOARD. JUNCTION BOXES MAY BE HAND LABELLED WITH PERMANENT MARKER.
5. UNLESS OTHERWISE INDICATED, POWER CONDUCTORS SHALL BE TYPE THHN/THWN, 600 VOLT, SOLID OR STRANDED COPPER AND NOT SMALLER THAN #12 AWG FOR POWER AND LIGHTING CIRCUITS AND #14 AWG FOR CONTROL CIRCUITS.
6. EQUIPMENT GROUNDING IS REQUIRED. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR IN ALL NEW RACEWAYS; THE CONDUIT SHALL NOT SERVE AS THE ONLY GROUNDING MEANS.
7. EQUIPMENT AND DEVICES SHALL BE SUPPORTED/MOUNTED TO COMPLY WITH THE SEISMIC REQUIREMENTS OF THE UBC, STATE AND COUNTY REGULATIONS.
8. CONDUIT CONNECTIONS TO MOTORS SHALL BE MADE WITH FLEXIBLE METAL OR LIQUID TIGHT CONDUIT NOT MORE THAN 6 FEET LONG.
9. MECHANICAL ELECTRICALLY OPERATED EQUIPMENT SHALL BE PROVIDED WITH "WITHIN SIGHT" DISCONNECTING SWITCH CONSISTING OF HORSEPOWER RATED SWITCH OR MOLDED CASE CIRCUIT BREAKER. OUT OF SIGHT LOCKABLE DISCONNECTING DEVICES ARE NOT ACCEPTABLE TO MEET THIS REQUIREMENT.
10. CONDUIT RUNS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. THE ROUTING OF CONDUITS MAY BE ALTERED IN THE FIELD TO SUIT BETTER LAYOUT, MECHANICAL AND STRUCTURAL CONDITIONS.
11. CONTRACTOR SHALL COORDINATE ELECTRICAL WORK WITH OTHER TRADES.
12. LABEL AND IDENTIFY ALL PANEL SCHEDULES.
13. SITE LOCATION IS UBC SEISMIC ZONE 3.
14. "PROVIDE" MEANS "FURNISH AND INSTALL".
15. ALL RECEPTACLES IN DAMP, WET AND OUTDOOR LOCATIONS SHALL BE GFCI.
16. POWER RECEPTACLES SHALL BE HOSPITAL GRADE.
17. ANY OUTAGES WILL BE DONE AT A TIME THAT IS LEAST DISRUPTIVE TO THE MEDICAL CENTER AND AS DIRECTED BY THE CONTRACTING OFFICER OR THE VA DESIGNATED REPRESENTATIVE. A WRITTEN REQUEST AND CO WRITTEN APPROVAL IS REQUIRED TWO (2) WEEKS BEFORE THE ACTUAL OUTAGE.
18. ALL ELECTRICAL CONSTRUCTION WORK, METHODS AND MATERIALS SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE GOVERNMENT AND VETRANS ADMINISTRATION RULES AND REGULATIONS.
19. PROVIDE DEDICATED NEUTRAL ON ALL NEW 120V AND 277 CIRCUITS.
20. OUTDOOR LOCATIONS USE NEMA 3R ENCLOSURES AND RGS CONDUITS, UNLESS OTHERWISE NOTED.
21. INDOOR LOCATIONS USE NEMA 1 ENCLOSURES AND EMT CONDUITS, UNLESS OTHERWISE NOTED.

## LEGEND

	JUNCTION BOX
	DUPLEX RECEPTACLE, NEMA 5--20R, GROUNDING TYPE
	QUAD--RECEPTACLE (DOUBLE DUPLEX), NEMA 5--20R, GROUNDING TYPE
	DUPLEX RECEPTACLE, NEMA 5--20R, GROUNDING TYPE WITH GROUND FAULT INTERRUPTER (GFCI)
	QUAD--RECEPTACLE (DOUBLE DUPLEX), NEMA 5--20R, GROUNDING TYPE WITH GROUND FAULT INTERRUPTER
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	CONDUIT OR WIRE RUN EXPOSED OR ABOVE THE CEILING
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	NEUTRAL CONDUCTOR
	BRANCH CIRCUIT HOMERUN TO PANELBOARD; LETTER AND NUMBER NOTATION IDENTIFIES PANEL AND CIRCUIT NUMBER(S). HASHMARKS INDICATES NUMBER OF PHASE, NEUTRAL AND GREEN GROUND WIRES
	TEMPERATURE CONTROLLER
	TEMPERATURE INDICATOR
	MOTOR, NUMBER INDICATES HORSEPOWER
	DISCONNECT SWITCH, UNFUSED
	DISCONNECT SWITCH, FUSED
	COMBINATION MOTOR STARTER, FUSED TYPE
	COMBINATION MOTOR STARTER, CIRCUIT BREAKER TYPE
	MOTOR STARTER
	CONTACTOR
	CIRCUIT BREAKER, ENCLOSED
	HIGH VOLTAGE BOX
	ELECTRIC PANELBOARD, SURFACE MOUNTED
	ELECTRIC PANELBOARD, FLUSH MOUNTED
	CONDUIT/WIRE TURN UP
	CONDUIT/WIRE TURN UP
	MANUAL MOTOR STARTER
	SWITCH, 20A, 2 POLE, 120/277V
	F/A STROBE AND HORN
	F/A BELL
	F/A PULL STATION

## ELECTRICAL ABBREVIATIONS:

A/AMP	AMPERE	ABOVE FINISHED FLOOR	NEC	NATIONAL ELECTRICAL
AFF	AMPS	INTER interrupting CAPACITY	NEMA	NATIONAL ELECTRICAL
AIC	AMERICAN NATIONAL STANDARDS	INSTITUTE		MANUFACTURERS' ASSOCIATION
ANSI	AMERICAN WIRE GAUGE		NF	NON—FUSED
AWG	BARE COPPER		NO	NUMBER
B.C.	BUILDING		NTS	NOT TO SCALE
BLDG	CONDUIT		O.L.	OVERLOAD
C	CIRCUIT BREAKER		P	POLE
C.B.	CATALOG		PA	PUBLIC ADDRESS
CAT	CEILING		PA	PANEL
CLG	COMMUNICATION		PNL	PAIR
COMM	CONNECTED		PH	PHASE
CONN	CONTRACTING OFFICER	TECHNICAL REPRESENTATIVE	PR	PRIMARY
COTR	CIRCUIT		PVC	POLYVINYL CHLORIDE
CKT	CURRENT TRANSFORMER		PWR	POWER
CT	COPPER		RECEPT	RECEPTACLE
CU	DISCONNECT		RGS	RIGID GALVANIZED STEEL
DISC	DISTRIBUTION		RM	ROOM
DIST	DRAWING		SCHED	SCHEDULE
DWG	ELECTRIC		ST	STREET
ELECT	ELEVATION		SW	SWITCH
ELEV	ELECTRICAL	METALLIC TUBING	SWBD	SWITCHBOARD
EXT	EQUIPMENT		TELE/TEL.	TELEPHONE
EQUIP	EXISTING		TV	TELEVISION
EXIST	FIRE ALARM		TEMP	TEMPORARY
F/A	FOOT, FEET		TERM	TERMINAL
FT	FULL LOAD AMPS		TWP	TWISTED WIRE PAIR, SHIELDED
FLA	FLOOR		TYP	TYPICAL
FLD	GALVANIZED		U/G	UNDERGROUND
FLR	GROUND FAULT CIRCUIT—INTERRUPTER		UBC	UNIFORM BUILDING CODE
GALV	GROUND FAULT PROTECTION		UL	UNDERWRITERS' LABORATORIES
GCCI	GROUND		UON	UNLESS OTHERWISE NOTED
GFCI	GOVERNMENT		V	VOLT
GFP	GREEN		VA	VOLT AMPS
GND	HIGH PRESSURE	SODIUM	W	WIRE
GOV	HEIGHT		WP	WEATHERPROOF
GRN	HERTZ		WT	WIRE TROUGH
HPS	JUNCTION BOX		XFMR	TRANSFORMER
HT	KILO—AMPERES		+12" A.F.F.	MOUNTING HEIGHT ABOVE FINISHED
HZ	KILOVOLT—AMPERE		ø	FLOOR OR GRADE
J.B.	KILOVOLT			PHASE
KA	KILOWATT			
KVA	LOCATION			
KV	LIGHT			
KW	MAXIMUM			
LOC	MECHANICAL			
LTG	MINIMUM			
MAX	MISCELLANEOUS			
MECH	MOUNTED			
MIN	MOUNTING			
MISC	NOT APPLICABLE			
MTD				
MTG				
N/A				

<div>Revisions:</div> <div><div><div></div></div><div>DATED 11/10/08</div></div>	Drawing Title: <div>GENERAL NOTES, LEGEND &amp; ABBREVIATIONS</div>		Project Title: <div>BLDG 650 REPLACE AIR HANDLERS 1 THRU 4, 7 and 9 – 15</div>		Date: <div>08/25/08</div>
	Approved:	Approved: Medical Center Director	Drawn: <div>MSA</div>	Building Number:	Project No.: <div>6124-07-342</div>
	Approved:	Approved: Chief, Engineering Service	Checked: <div>AL</div>	Location: <div>MATHER VAMC MATHER CALIFORNIA</div>	Examining No. <div>E1.1</div>
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