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 THE LATEST EDITION 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, SWITCHES, DISCONNECT, CONDUITS AND JUNCTION BOXES (ABOVE AND BELOW CEILING) SHALL BE PERMANENTLY MARKED AS TO INDICATE THE CIRCUIT NUMBER AND SOURCE PANELBOARD. PERMANENT MARKING FOR BELOW THE CEILING DEVICES SHALL BE CLEAR 3/16" WIDE STICK-ON LABEL WITH BLACK LETTERING. PERMANENT MARKING FOR ABOVE THE CEILING DEVICES MAY BE HAND LABELED WITH PERMANENT MARKER.
5. UNLESS OTHERWISE INDICATED, POWER AND LIGHTING 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. ALL EQUIPMENT SHALL BE PROPERLY GROUNDED IN STRICT ACCORDANCE WITH THE LATEST NATIONAL ELECTRIC CODE (NEC). PROVIDE EQUIPMENT GROUNDING CONDUCTORS. CONDUIT CANNOT BE USED AS THE ONLY MEANS OF GROUNDING.
7. FIXTURES AND EQUIPMENT SHALL BE SUPPORTED/MOUNTED TO COMPLY WITH THE SEISMIC REQUIREMENTS OF THE IBC, STATE AND COUNTY REGULATIONS.
8. CONDUIT CONNECTIONS TO MOTORS SHALL BE MADE WITH FLEXIBLE METAL OR LIQUID TIGHT FLEXIBLE 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. DRAWINGS SHOWN ARE SCHEMATIC ONLY. THE CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS AND ENSURE SHOP DRAWINGS ARE PROVIDED BEFORE DETAILING COMPLETE UTILITY LAYOUT AND INSTALLATION. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ROUTE NEW CONDUITS, DUCTS, PIPING AND SIMILAR LINES TO AVOID POTENTIAL INTERFERENCES, AND WHERE THIS CANNOT BE ACCOMPLISHED, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REMOVE, REROUTE, ADJUST AND REINSTALL THE INTERFERENCE SUCH THAT IT NO LONGER POSES A PROBLEM. THESE ITEMS ARE TO BE ADDRESSED AND CORRECTED AT NO ADDITIONAL COST TO THE GOVERNMENT.
11. CONTRACTOR SHALL COORDINATE ELECTRICAL WORK WITH OTHER TRADES.
12. LABEL AND IDENTIFY ALL PANEL SCHEDULES.
13. DEDICATED NEUTRAL SHALL BE PROVIDED FOR EACH 120V AND 277V CIRCUITS.
14. ALL CONDUITS SHALL BE CONCEALED WHENEVER POSSIBLE. CONDUITS SHALL RUN ABOVE THE CEILING OR BEHIND THE FINISH WALL, UNLESS OTHERWISE NOTED.
15. "PROVIDE" MEANS "FURNISH AND INSTALL".
16. FOR UTILITY INTERRUPTIONS OF LESS THAN 15 MINUTES IN DURATION, THE CONTRACTOR SHALL SUBMIT A REQUEST TO INTERRUPT ANY SUCH SERVICES TO COTR, IN WRITING, FIVE (5) WORKING DAYS IN ADVANCE OF PROPOSED INTERRUPTION. FOR UTILITY INTERRUPTIONS EXCEEDING 15 MINUTES IN DURATION, THE CONTRACTOR SHALL SUBMIT A REQUEST TO INTERRUPT ANY SUCH SERVICES TO COTR, IN WRITING, TEN (10) WORKING DAYS IN ADVANCE OF PROPOSED INTERRUPTION. REQUEST SHALL STATE REASON, DATE, EXACT TIME OF, AND APPROXIMATE DURATION OF SUCH INTERRUPTION.
17. 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 VETERANS ADMINISTRATION RULES AND REGULATIONS.
18. ROUTE ALL TELECOMMUNICATION CIRCUITS 18" MINIMUM APART FROM ELECTRICAL CIRCUITS. IN LOCATIONS WHERE MINIMUM SEPARATION CAN NOT BE OBTAINED, WRAP TELECOMMUNICATION CIRCUITS WITH GROUNDED METALLIC SHEET TO REDUCE NOISE INTERFERENCE.
19. ALL ABOVE CEILING RACEWAYS, OUTLETS, J.B's AND PULL BOXES SHALL BE HUNG ON THE CONCRETE SLAB. WALL MOUNTING IS NOT PERMITTED.
20. PROVIDE ADDITIONAL ACCESS PANEL, AS REQUIRED, ON HARD CEILING FOR ELECTRICAL DEVICES, EQUIPMENT, J.B. ETC. ACCESS.

LEGEND

- (J) / [J] — JUNCTION BOX
- DUPLEX RECEPTACLE, NEMA 5-20R, GROUNDING TYPE
- QUAD-RECEPTACLE (DOUBLE DUPLEX), NEMA 5-20R, GROUNDING TYPE
- GFCI — DUPLEX RECEPTACLE, NEMA 5-20R, GROUNDING TYPE WITH GROUND FAULT CIRCUIT INTERRUPTER (GFCI)
- GFCI — QUAD-RECEPTACLE (DOUBLE DUPLEX), NEMA 5-20R, GROUNDING TYPE WITH GROUND FAULT CIRCUIT INTERRUPTER
- RECEPTACLE, NEMA 6-20R, GROUNDING TYPE
- C — COMBINATION ON CEILING DUPLEX RECEPTACLE AND TELECOMMUNICATION RECEPTACLE (4 OUTLETS MINIMUM-1 VOICE & 3 DATA TELECOM OUTLET.)
- F — COMBINATION IN FLOOR DUPLEX RECEPTACLE AND TELECOMMUNICATION RECEPTACLE (4 OUTLETS MINIMUM-1 VOICE & 3 DATA TELECOM OUTLET.)
- CONDUIT OR WIRE RUN EXPOSED OR ABOVE THE CEILING
- CONDUIT OR WIRE RUN UNDERGROUND
- GROUND / NEUTRAL / PHASE CONDUCTOR — A-1,3 — BRANCH CIRCUIT HOMERUN TO PANELBOARD; LETTER AND NUMBER NOTATION IDENTIFIES PANEL AND CIRCUIT NUMBER(S). HASH MARKS INDICATES NUMBER OF PHASE, NEUTRAL AND GREEN GROUND WIRES
- [E] — EXIT SIGN
- TELEPHONE RECEPTACLE (1 VOICE)
- TELECOMMUNICATION RECEPTACLE, QUAD (1 VOICE, 3 DATA)
- 1 — TELECOMMUNICATION RECEPTACLE, QUAD (1 VOICE, 2 DATA AND 1 BLANK)
- TELECOMMUNICATION RECEPTACLE, DUPLEX (2 DATA)
- TELECOMMUNICATION RECEPTACLE, DUPLEX (1 DATA AND 1 VIDEO)
- (T) / S — THERMOSTAT; SWITCH, 20A, 1 POLE, 120/277 V, UNLESS OTHERWISE INDICATED
  SUFFIX OF:
  - A, B, C — INDICATES SEPARATE CONTROL OF CIRCUITS AS DESIGNATED
  - 3 — 3 WAY SWITCH
  - 4 — 4 WAY SWITCH
  - D — DIMMER
- (PC) — PHOTOCELL
- (M) — MOTOR, NUMBER INDICATES HORSEPOWER
- DISCONNECT SWITCH, UNFUSED
- [F] — DISCONNECT SWITCH, FUSED
- [F] / [X] — COMBINATION MOTOR STARTER, FUSED TYPE
- [CB] / [X] — COMBINATION MOTOR STARTER, CIRCUIT BREAKER TYPE
- [CB] — CIRCUIT BREAKER, ENCLOSED
- ELECTRIC PANELBOARD, SURFACE MOUNTED
- ELECTRIC PANELBOARD, FLUSH MOUNTED
- CONDUIT/WIRE TURN UP
- CONDUIT/WIRE TURN DOWN
- [MS] — MOTION SENSOR
- [PB] / — PUSHBUTTON
- [PS] — POWER SUPPLY
- [T] — TRANSFORMER
- [TC] — 24 HOUR TIMECLOCK
- [CR] — CARD READER
- TV COAXIAL CABLE OUTLET
- (OS) — OCCUPANCY SENSOR - CEILING MOUNTED
- [OS] — OCCUPANCY SENSOR - WALL MOUNTED
- [VFD] — VARIABLE FREQUENCY DRIVE

LEGEND (CONTINUED)

- LIGHT FIXTURE, SEE LIGHTING SCHEDULE
- LED FIXTURE ON NORMAL POWER (TYP.)
- LED FIXTURE ON EMERGENCY POWER (TYP.)

1. RECEPTACLE SHALL BE MOUNTED 18" AFF AND SWITCH SHALL BE MOUNTED 48" AFF, UNLESS OTHERWISE NOTED.
2. RECEPTACLE, TELECOMMUNICATION OUTLET AND SWITCH SUFFIX OF:

-A	MOUNTED 6" ABOVE COUNTERTOP OR BACKSPLASH.
-B	MOUNTED 6" ABOVE AND 6" FROM THE EDGE OF THE SINK TOP
-C	MOUNTED ON CEILING
-F	MOUNTED ON FLOOR
-W	MOUNTED 48" AFF
-H	MOUNTED 12" BELOW CEILING LINE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
SC	SAFETY TYPE
WP	WEATHER PROTECTED (NEMA 3R) ENCLOSURE

- HATCHED GRAY THIN LINE INDICATES DEMOLISH PER DRAWING NOTES
- BOLD LINE INDICATES NEW WORK
- (1) — NOTE REFERENCE
- 3 / E-1E-3 — DETAIL NUMBER; DRAWING NUMBER ON WHICH DETAIL IS DRAWN; DRAWING NUMBER ON WHICH DETAIL IS TAKEN

ELECTRICAL ABBREVIATIONS:

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

MECHANICAL EQUIPMENT:

(T)	THERMOSTAT
(SD)	SMOKE DAMPER
TU	TERMINAL UNIT

Revisions	Date

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Building Number: MCC-88

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Office of Facilities Management

Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

three inches = one foot 6" 0 1
one and one half inches = one foot 6" 0 2
one inch = one foot 6" 0
three quarters inch = one foot 6" 0 2
one half inch = one foot 0 4
three eighths inch = one foot 0 4
one quarter inch = one foot 0 8 4
one eighth inch = one foot 0 16 8 4