ELECTRICAL SYMBOLS - POWER PLAN

- MOTOR, SINGLE–PHASE
- MOTOR, THREE–PHASE
- T — TRANSFORMER, PLAN
- WYE CONNECTION
- DUCT, CELL FLOOR HEADER
- T T — DUCT, TROLLEY
- DUCT, UNDERFLOOR JUNCTION BOX
- EARTH GROUND
- J — JUNCTION BOX
- C C — LADDER CABLE TRAY
- BRANCH CIRCUIT HOMERUN. LINES INDICATE NUMBER OF CIRCUITS, NEUTRAL, AND SWITCH LEG CONDUCTORS. ONE SEPARATE GREEN GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH HOMERUN; NOT SHOWN
- PB — PULL BOX
- W W — WIREWAY
- RC — RIGID CONDUIT LINE = RC
- DB — DIRECT BURIAL CABLE = DB
- P — POWER DUCT = P
- S — SUBSTATION
- HVS — HI VOLTAGE SWITCH ON CONCRETE PAD
- LVS — LOW VOLTAGE SWITCH ON CONCRETE PAD
- P T — DUAL POWER AND TELECOMMUNICATIONS MANHOLE
- B B — BUSWAY
- FLOOR OUTLET, DATA COMMUNICATION
- D — OUTLET, DATA COMMUNICATION
- PUSH BUTTON
- DP# — DISTRIBUTION PANEL
- LP — LIGHTING PANEL
- PANELBOARD CABINET, FLUSH MOUNTED
- PANELBOARD CABINET, SURFACE MOUNTED
- C — RECEPTACLE, CLOCK HANGER
- RECEPTACLE, DUPLEX
- RECEPTACLE, DUPLEX ON EMERGENCY POWER
- RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER
- RECEPTACLE, QUADRAPLEX
- RECEPTACLE, SINGLE
- $_S — RECEPTACLE, SINGLE WITH SWITCH
- RECEPTACLE, SPECIAL PURPOSE
  - A = 120V, 20A, 1 PHASE, 2–POLE, 3W, NEMA 5–20R.
  - B = 208V, 20A, 1 PHASE, 2–POLE, 3W, NEMA 6–20R.
  - C = 120V, 30A, 1 PHASE, 2–POLE, 3W, NEMA 5–30R.
  - D = 208V, 30A, 1 PHASE, 2–POLE, 3W, NEMA 6–30R.
  - E = 208V, 60A, 1 PHASE, 3–POLE, 4W, NEMA 14–60R.
  - F = 208V, 30A, 3 PHASE, 3–POLE 4W, NEMA 15–30R.
  - G = 208V, 50A, 3 PHASE, 3 POLE, 4W, NEMA 15–30R.
  - H = 208V, 60A, 3 PHASE, 3 POLE, 4W, NEMA 15–60R.

ELECTRICAL SYMBOLS - POWER PLAN

- DISCONNECT SWITCH, FUSED
- DISCONNECT SWITCH, UNFUSED
- STARTER, COMBINATION WITH DISCONNECT SWITCH
- STARTER OR MOTOR CONTROLLER
- VFD — VARIABLE FREQUENCY DRIVE
- TC — TIME CLOCK
- POTHEAD
- STRESS CONE
- R — RECTIFIER, CATHODIC PROTECTION SANITARY
- VENTILATOR OR FAN COIL UNIT OUTLET
- CONDUIT TERMINATED 6" [152mm] AFF IN STANDARD BOX FOR EXTENSION TO EQUIPMENT AS DIRECTED.
- CONDUIT TERMINATED W/COUPLING (FLUSH W/FINISHED FLOOR) FOR EXTENSION TO EQUIPMENT AS DIRECTED.
- $_2 — SWITCH
  - D = DIMMING
  - F = FUSED SWITCH
  - K = KEY OPERATED
  - L = LOCK
  - LM= LOW VOLTAGE MASTER
  - M = MANUAL MOTOR STARTING
  - MC= MOMENTARY CONTACT
  - MP= MOTOR SNAP WITH PILOT LIGHT (THERMAL TYPE)
  - P = WITH PILOT LIGHT
  - OS= OCCUPANCY SENSOR
  - OS/D=DUAL PURPOSE OCCUPANCY SENSOR/DIMMER
  - PB= PUSH BUTTON STATION
  - RC= REMOTE CONTROL
  - WP= WEATHER PROOF
  - X = EXPLOSION PROOF
- $_S — RECEPTACLE, SWITCHED DUPLEX
- DROP CORD, SINGLE CONVENIENCE OUTLET, 3–WIRE, GROUNDING TYPE, 20A, W/#12 CONDUCTORS IN FLEXIBLE CORD (CENTER LINE OF OUTLET: 6'–6" [1981mm] AFF. MINIMUM).
- ELECTRICAL STRIP MOLD (OUTLETS ON 2'–0" [610mm] CENTERS OR AS DESIGNATED ON DRAWINGS), MTD 3'–6" [1067mm] AFF OR AS INDICATED.
- 3–GANG COMPARTMENT BOX IN FLOOR FOR TELEPHONE, DATA & RECEPTACLE.
- ELECTRICAL STRIP MOLD (OUTLETS ON 2'–0" [610mm] CENTERS OR AS DESIGNATED ON DRAWINGS), MTD 3'–6" [1067mm] AFF OR AS INDICATED.
- 3–GANG COMPARTMENT BOX IN FLOOR FOR TELEPHONE, DATA & RECEPTACLE.
- R 50 — RELAY; LETTER INDICATES RELAY TYPE
  - 50 = INSTANTANEOUS OVERCURRENT OR RATE–OF–RISE
  - 51 = AC–TIME OVERCURRENT
  - 67 = AC–DIRECTIONAL OVERCURRENT
  - 86 = LOCK OUT
- PANELBOARD
- XXX / XXX — MECHANICAL EQUIPMENT REFERENCE

LINE WEIGHT LEGEND

- EXISTING WORK
- NEW WORK
- EXISTING TO BE DEMOLISHED
- EXISTING TO BE DEMOLISHED

1PH	SINGLE–PHASE
1P	SINGLE POLE
2/C	TWO–CONDUCTOR
3/C	THREE–CONDUCTOR
3PH	THREE–PHASE
4/C	FOUR–CONDUCTOR
4W	FOUR–WIRE
A/C UNIT	AIR CONDITIONING UNIT
A/E	ARCHITECT/ENGINEER
AAP	ALARM ANNUNCIATOR PANEL
AC	ALTERNATING CURRENT OR ARMORED CABLE
ACC	ACCESSIBLE
ADDL	ADDITIONAL
ADJ	ADJACENT, ADJOINING
ADO	AUTOMATIC DOOR OPENER
AF	AMPERE FRAME OR AMP FUSE
AFC	ABOVE FINISHED COUNTER, AUTOMATIC FREQUENCY CONTROL, OR AVAILABLE FAULT CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AH	AMPERE HOUR
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
ALT	ALTERNATE
AMB OR A	AMBIENT
AMP	AMPERE
ARCH	ARCHITECT
ASC	AMPS SHORT CIRCUIT
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AV	AUDIO VISUAL
BAT	BATTERY
BC	BARE COPPER
BD	BOARD
BFF	BELOW FINISH FLOOR
BIL	BASIC INSULATION LEVEL
BLDG	BUILDING
BPIP	BOILER PLANT INSTRUMENTATION PANEL
BRKR	BREAKER
BYP	BY PASS
C	CONDUIT
CAB	CABINET
CALC	CALCULATE
CAP	CAPACITY
CAT	CATALOG
CATV	COMMUNITY ANTENNA TELEVISION
CCR	CONTROL CONTACTOR
CCTV	CLOSED CIRCUIT TELEVISION
cd	CANDELA
CD	CONSTRUCTION DOCUMENTS
CF	CONTRACTOR FURNISHED
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED
CFE	CONTRACTOR FURNISHED EQUIPMENT
CHW	CHILLED WATER
CHWP	CHILLED WATER PUMP
CKT	CIRCUIT
CKT BRKR	CIRCUIT BREAKER
CLF	CURRENT LIMITING FUSE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
COAX	COAX CABLE
COMM	COMMUNICATION
COMPT	COMPARTMENT
CONC	CONCRETE
CONT	CONTINUE
CONTR	CONTRACTOR
COORD	COORDINATE
CPT	CONTROL POWER TRANSFORMER
CRI	COLOR RENDERING INDEX
CT	CURRENT TRANSFORMER
CTV	CABLE TELEVISION
CU	COPPER
CU FT	CUBIC FEET
CUR	CURRENT
DB	DECIBEL OR DIRECT BURIAL
DC	DIRECT CURRENT
DCP	DIMMER CONTROL PANEL
DEG C	DEGREES CELSIUS
DEG F	DEGREES FAHRENHEIT
DEMO	DEMOLITION
DIAG	DIAGRAM
DISC	DISCONNECT
DISTR	DISTRIBUTION
DISTR PNL	DISTRIBUTION PANEL
DMR SW	DIMMER SWITCH
DN	DOWN
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE, SINGLE THROW
DRSW	DOOR SWITCH
DS	DISCONNECT SWITCH
DWG	DRAWING
EC	EMPTY CONDUIT
EG	EQUIPMENT GROUND
EL	ELEVATION
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATOR
EMCP	EMERGENCY MONITORING CONTROL PANEL
EMER	EMERGENCY
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EPO	EMERGENCY POWER OFF
EPRF	EXPLOSION PROOF
ESMT	EASEMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXIST	EXISTING
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FABL	FIRE ALARM BELL
FABX	FIRE ALARM BOX
FACP	FIRE ALARM CONTROL PANEL
FC	FOOTCANDLE
FI	FILM ILLUMINATOR
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE METALLIC CONDUIT
FLT	FLOODLIGHT
FLUOR	FLUORESCENT
FLUOR FIX	FLUORESCENT FIXTURE
FOUTT	TELEPHONE FLOOR OUTLET
FP	FIRE PROTECTION
FT	FEET OR FOOT
FU SW	FUSED SWITCH
FVNR	FULL VOLTAGE NON–REVERSING
FVR	FULL VOLTAGE REVERSING
G OR GND	GROUND OR GENERATOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GTB	GROUND TERMINAL BOX
HID	HIGH INTENSITY DISCHARGE
HOA	HAND–OFF–AUTOMATIC
HP	HORSEPOWER
HT	HEIGHT
HZ	HERTZ
IESNA	ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA
IMC	INTERMEDIATE METAL CONDUIT
INCAND	INCANDESCENT
IR	INFRARED
IWH	INSTANTANEOUS WATER HEATER
J–BOX	JUNCTION BOX
kV	KILOVOLT
kVA	KILOVOLT AMPERE
kVAH	KILOVOLT AMPERE PER HOUR
kVAR	KILOVOLT AMPERE REACTIVE
kW	KILOWATT
kWH	KILOWATT HOUR
kWHM	KILOWATT HOUR METER
LED	LIGHT EMITTING DIODE
LF	LINEAR FEET (FOOT)
LM	LUMEN
LP	LIGHT POLE
LPS	LOW PRESSURE SODIUM
LRA	LOCKED ROTOR AMPS
LTCP	LOCAL TEMPERATURE CONTROL PANEL
LT	LIGHT
LTG	LIGHTING
LTG PNL	LIGHTING PANEL
LTNG	LIGHTNING
LV	LOW VOLTAGE
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MC	METAL–CLAD
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MG	MOTOR GENERATOR
MH	MANHOLE
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MLO	MAIN LUGS ONLY
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
MVA	MEGAVOLT–AMPERE
MW	MEGAWATT MICROWAVE
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEUT OR N	NEUTRAL
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NS	NO SCALE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OL	OVERLOAD
P	POLE
PA	PUBLIC ADDRESS
PB	PANELBOARD, PULL BOX, OR PUSHBUTTON
PBPU	PREFABRICATED BEDSIDE PATIENT UNIT
PCB	POLYCHLORINATED BIPHENYL
PEC	PHOTOELECTRIC CELL
PED	PEDESTAL
PEND	PENDANT
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
POD	POWER OPERATED DAMPER
PT	POTENTIAL TRANSFORMER
PTRV	POWER TYPE ROOF VENTILATION
PVC	POLYVINYL CHLORIDE (PLASTIC)
PWR	POWER
RCP	REFLECTED CEILING PLAN
REC	RECESSED
RECPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMS	ROOT MEAN SQUARE
REQD	REQUIRED
CC	SHORT CIRCUIT CAPACITY
SEAS	SERVICE ENTRANCE SECTION
SD	SMOKE DETECTOR
SF	SQUARE FOOT (FEET)
SHT	SHEET
SI	INTERNATIONAL SYSTEM OF UNITS
SPEC	SPECIFICATION
SPST	SINGLE POLE, SINGLE THROW
SURF	SURFACE
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TC	TIME CLOCK
TEL	TELEPHONE
TP	TWISTED PAIR
TPS	TWISTED PAIR SHIELDED
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
UFD	UNDERFLOOR DUCT
UGND	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTIL	UTILITY
V	VOLT
VA	VOLT AMPERE
VAR	VOLT AMPERE REACTIVE
VFD	VARIABLE FREQUENCY DRIVE
VOLT	VOLTAGE
W	WATT
WH	WATER HEATER
WP	WEATHERPROOF
XFER	TRANSFER
XFMR	TRANSFORMER

Revisions / Date / Project No.

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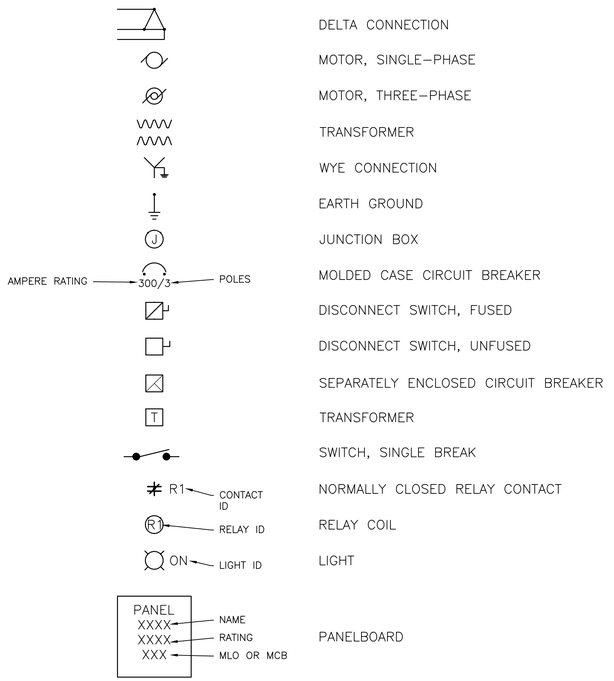
STATE OF TEXAS — 37909 — REGISTERED — PROFESSIONAL ENGINEER

Approved: Chief, Maintenance and Operations	Approved: Utility Management Supervisor	Drawing Title: ELECTRICAL SYMBOLS & ABBREVIATIONS	Project Title: NUCLEAR MEDICINE RELOCATION	Date: 01/04/2013	
Approved: Chief, Engineer	Approved: Safety Manager			Scale: AS SHOWN	
	Approved: Environment of Care Manager	Project No.: 671-11-712	Contract No.: VA257-P-0249	Designed By: DS	Checked By: MZ / Drawn By: DS
	Approved: Facilities Service Line Manager	Building No.: -	AutoCAD File Name: 671-11-712 E-101.DWG	Location: SAN ANTONIO, TEXAS	Drawing No.: E-101

Veterans Administration

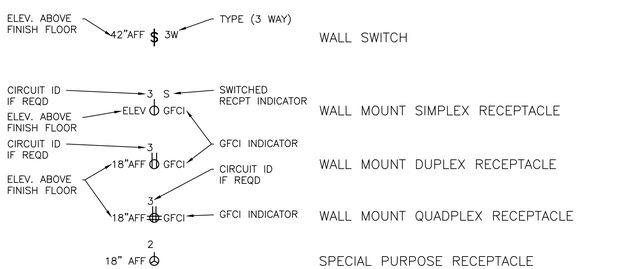
ELECTRICAL SYMBOLS LEGEND

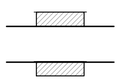
DIAGRAMMATIC SYMBOLS LEGEND



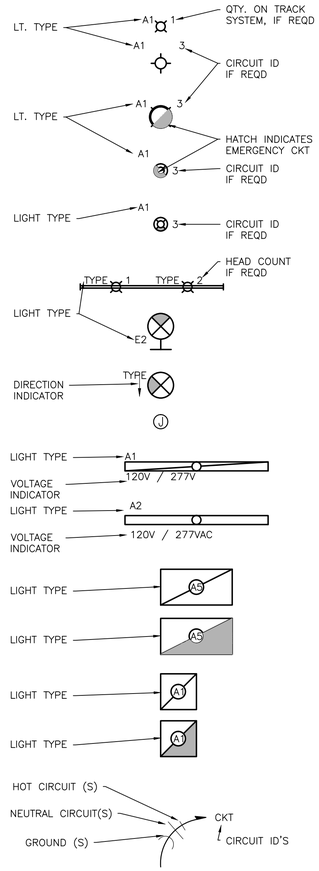
LINE WEIGHT LEGEND

POWER SYMBOLS LEGEND





LIGHTING SYMBOLS LEGEND



DATA / VOICE SYMBOLS LEGEND

GENERAL ELECTRICAL NOTES

1. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (N.E.C.). NOTE; THE LATEST VERSION IS 2011.
2. ADDITIONAL JUNCTION BOXES SHALL BE FURNISHED AND INSTALLED AS REQUIRED.
3. ALL CONDUITS SHALL CONTAIN A GREEN, BONDING JUMPER GROUND WIRE. BOND ALL PANELS, CABINETS, ENCLOSURES, CONDUITS, JUNCTION BOXES, ETC. AS REQUIRED BY THE N.E.C.
4. PROVIDE CONDUIT SLEEVES FILLED WITH AN APPROVED FIRE RESISTANT MATERIAL, WHERE FIRE RATED WALLS OR CEILINGS ARE PENETRATED. APPROVED WATERTIGHT CONDUIT SLEEVES SHALL BE PROVIDED WHERE WALLS RE PENETRATED EITHER ENTERING OR LEAVING A BUILDING.
5. WHERE CONDUITS ARE NOT IDENTIFIED, THEY SHALL BE 3/4" EMT OR METAL CLAD RACEWAYS, WITH 2–#12 (HOT / NEUTRAL), 1–#12 (GROUND).
6. RECEPTACLES, LIGHT FIXTURES, AND POWER DEVICES BRANCH CIRCUIT WIRING MAY NOT BE SHOWN, BUT SHALL BE PROVIDED AS REQUIRED. MINIMUM WIRING SHALL BE 3/4" EMT OR METAL CLAD RACEWAYS, WITH 2–#12 (HOT / NEUTRAL), 1–#12 (GROUND). NO MORE THAN THREE PHASES MAY BE COMBINED IN A SINGLE HOMERUN RACEWAY AND SHALL BE PROVIDED WITH COMMON NEUTRAL.
7. FOR LOW VOLTAGE SYSTEMS WIRING REQUIREMENT, REFER TO THE WIRING DIAGRAM DRAWINGS.
8. FOR EXACT LOCATION OF MECHANICAL EQUIPMENT, REFER TO THE MECHANICAL DRAWINGS.
9. ALL CONDUIT AND CABLES SHALL BE RUN ABOVE SUSPENDED CEILINGS AND IN WALLS WHERE POSSIBLE. IN THE EXPOSED AREAS OF THE DINING ROOM AND KITCHEN, WHERE ELECTRICAL DEVICES AND RACEWAYS ARE VISIBLE, ALL DEVICES SHALL HAVE A CLEAN CONDITION WHERE THEY COULD BE FINISHED WITH PAINT, IF THE PROJECT OUTLINED SUCH FINISHES.
10. ALL CUTTING AND PATCHING OF GYPSUM BOARD, ALL FIRE–STOPPING, AND ANY OTHER WORK RELATED TO THE ARCHITECTURAL ELEMENTS AND THEIR COMPLETED CONSTRUCTION, THEIR COMPONENTS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
11. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE EXISTING DISTRIBUTION PANEL MEETS ALL REQUIREMENTS TO ALLOW THE CONNECTION OF THE NEW PROPOSED PANEL.
12. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE LOCATION OF THE EXISTING DISTRIBUTION PANEL AND THE POSSIBLE ROUTING PATH OF THE CONDUIT.
13. PER THE VAMC DESIGN GUIDELINES, ALL RECEPTACLES FEEDING CUSTOMER EQUIPMENT SHALL BE INSTALLED USING DEDICATED CIRCUITS AND OF THE GFCI TYPE.
14. PER THE VAMC DESIGN GUIDELINES, ALL GENERAL PURPOSE RECEPTACLES SHALL NOT INCLUDE MORE THAN SIX (5) RECEPTACLES PER CIRCUIT NOT TO EXCEED, PER VA DESIGN GUIDELINES.
15. WIRE SIZING AND COLOR IDENTIFYING SHALL BE IN ACCORDANCE WITH THE N.E.C. 2011.
16. ALL JUNCTION BOXES SHALL HAVE LABELED ON THE COVER IN LEGIBLE WRITING IDENTIFYING THE CIRCUITS THAT TRACE THROUGH EACH BOX. THE TEXT SHOULD BE AROUND 3/8" TALL FOR OPTIMAL VISIBILITY. ALL TEXT SHALL BE IN BLACK INDELIBLE MARKER.
17. ALL CONDUITS SHALL HAVE LABELED AT EACH END CONNECTION TO JUNCTION BOXES OR ELECTRICAL PANELS THE CIRCUITS THAT TRACE THROUGH. THE TEXT SHALL BE IN LEGIBLE WRITING AROUND 3/8" TALL FOR OPTIMAL VISIBILITY. ALL TEXT SHALL BE IN BLACK INDELIBLE MARKER.

ELECTRICAL DEMOLITION NOTES

1. EXISTING ELECTRICAL EQUIPMENT INDICATED ON PLANS HAS BEEN DERIVED FROM THE BEST AVAILABLE EXISTING DRAWINGS AND PHOTOS AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION AS REQUIRED. ANY EQUIPMENT THAT IS NOT IDENTIFIED AND CONFLICTS WITH CONSTRUCTION SHALL NOT BE DISCONNECTED AND SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER OR PROJECT MANAGER OR DISPOSITION.
2. EXISTING ELECTRICAL EQUIPMENT AND DEVICES TO BE REMOVED, AS INDICATED, SHALL BE REMOVED COMPLETELY. INCLUDING RACEWAYS, RACEWAY SUPPORTS, AND WIRING. THE REMOVAL SHOULD START FROM THE DEVICE BACK TO THE ORIGIN OR SOURCE.
3. WHERE WIRING / CABLING IS TO BE REMOVED, RELOCATED, OR RECONNECTED, THE CONTRACTOR SHALL PROTECT WIRING / CABLING FROM DAMAGE. CONTRACTOR SHALL TAKE PRECAUTIONS AND ASSUME CIRCUIT MAY BE ACTIVE. THE TESTING OF EACH UNKNOWN CIRCUIT, TO VERIFY THE CIRCUIT IS SECURE (NOT ELECTRIFIED), SHALL TAKE PLACE PRIOR TO REMOVAL. THE USE OF A VOLTAGE METER, APPROVED BY U.L. AND THE N.E.C., SHALL BE USED FOR TESTING. ANY UNKNOWN WIRE REMAINING SHALL BE VERIFIED SECURE, TAGGED AND IDENTIFIED, WHICH WILL INDICATE THE SOURCE OF THE WIRE OR ITS ORIGIN POINT.
4. EXISTING ELECTRICAL EQUIPMENT TO REMAIN SHALL BE PROTECTED FROM DAMAGE, AS REQUIRED DURING THE CONSTRUCTION PERIOD, AND LEFT IN GOOD WORKING ORDER AT COMPLETION OF PROJECT.
5. OWNER SYSTEMS AND SYSTEMS REQUIRED, BY CODE, TO STAY OPERATIONAL, SHALL BE TEMPORARILY CONNECTED TO REMAIN ACTIVE, THROUGHOUT THE CONSTRUCTION PERIOD, OR UNTIL THE NEW SYSTEMS ARE INSTALLED, TESTED, ACCEPTED, AND ACTIVE.
6. DURING THE ENTIRE PROJECT, IF A CONDITION ARISES THAT THE DIRECTION IS UNCLEAR, WHETHER AN EXISTING ELECTRICAL DEVICE OR SYSTEM IS TO BE REMOVED OR REMAIN, THE CONDITION SHOULD BE PRESENTED TO THE ENGINEER OF RECORD FOR REVIEW SO A FINAL DECISION COULD BE MADE.
7. ANY DISRUPTION OF ANY ELECTRICAL SERVICE, NECESSITATED BY THE ELECTRICAL RENOVATION, SHALL BE COORDINATED WITH THE OWNER, IN ORDER FOR PROPER NOTICES TO BE GIVEN, PRIOR TO THE SYSTEM DISCONNECTION.
8. EXISTING ELECTRICAL EQUIPMENT REMOVED SHALL BE BROKEN DOWN INTO MANAGEABLE LENGTHS, FOR STORAGE, HANDLING, RECYCLING, AND OR PROPER DISPOSAL.
9. EXISTING ELECTRICAL EQUIPMENT THAT HAS BEEN STRIPPED OF ANY NOMINAL VALUE SHALL BE TURNED OVER TO THE OWNER FOR THEIR FINAL DISPOSITION.
10. ELECTRICAL RENOVATION WORK SHALL BE ACCOMPLISHED IN CONFORMANCE WITH THE REQUIREMENTS OF THE N.E.C.2011.

Revisions	Date
Project No.	

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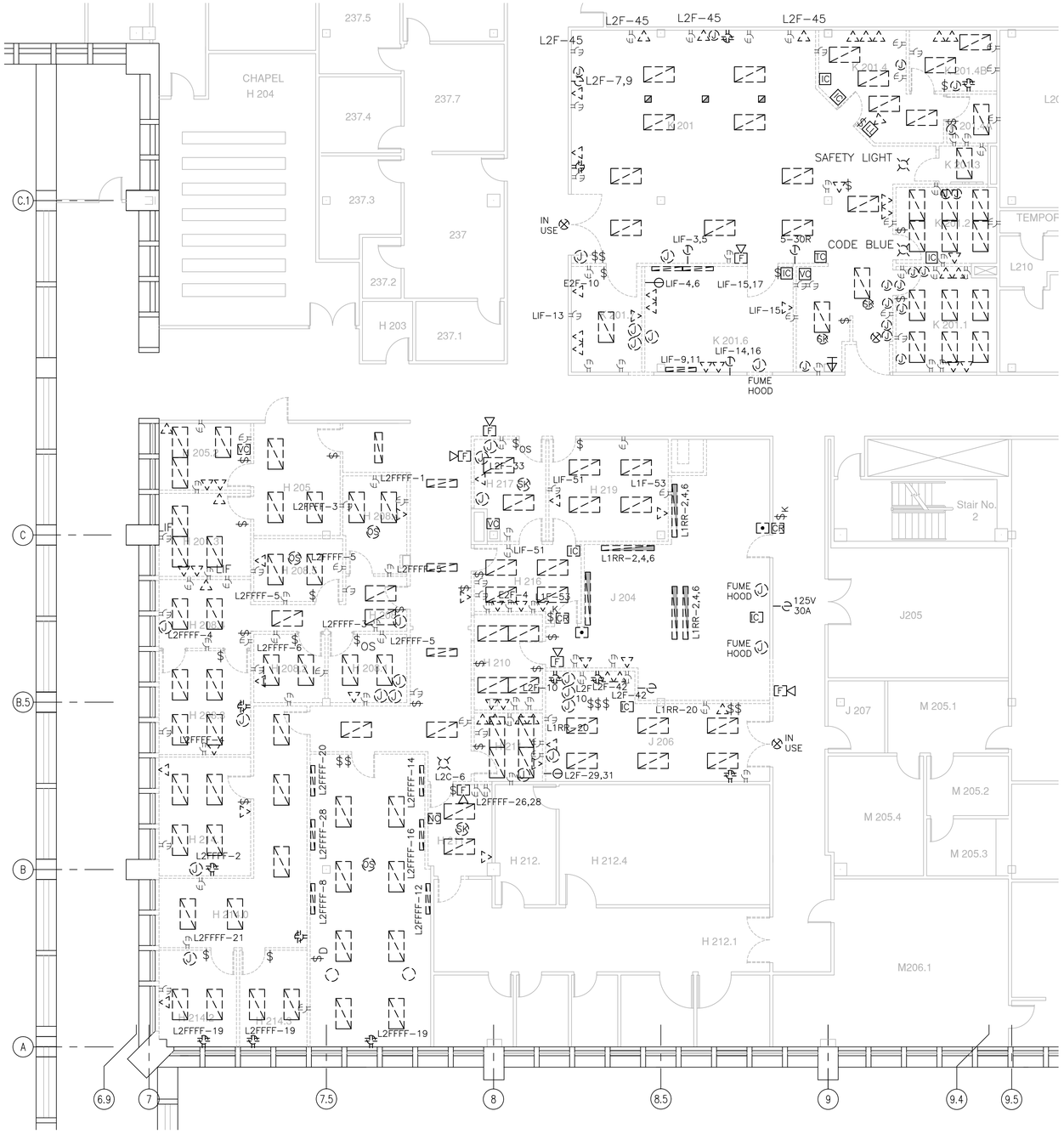
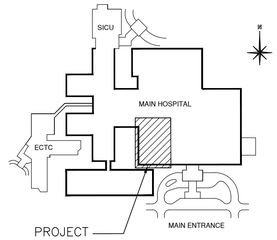
Approved: Chief, Maintenance and Operations	Approved: Utility Management Supervisor	Drawing Title: GENERAL NOTES & DEMOLITION NOTES & SYMBOL NOTES		Project Title: NUCLEAR MEDICINE RELOCATION		Date: 01/04/2013	
Approved: Chief, Engineer	Approved: Safety Manager					Scale: AS SHOWN	
	Approved: Environment of Care Manager	Project No.: 671-11-712	Contract No.: VA257-P-0249	Designed By: DS	Checked By: MZ	Drawn By: DS	Drawing No.: E-102
	Approved: Facilities Service Line Manager	Building No.: -	AutoCAD File Name: 671-11-712 E-102.DWG	Location: SAN ANTONIO, TEXAS			

Veterans Administration

GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE VA PROJECT MANAGER PRIOR TO START OF WORK.
2. DEMOLISH ALL ELECTRICAL OUTLETS, J BOXES, CABLES, TELE/DATA OUTLETS, LIGHT FIXTURES, LIGHT SWITCHES, OCCUPANCY SENSORS, INTERCOM AND DATA LINES WITHIN THE PROJECT LIMITS. DEMOLITION DRAWINGS BASED ON SITE SURVEYING. HOWEVER NOT ALL DEVICES MAY BE SHOWN DUE TO THE SURVEYED SPACES BEING OCCUPIED. NOT ALL LOCATIONS WERE ACCESSIBLE.
3. FIRE ALARM SYSTEM DEVICE TO REMAIN UNTIL REPLACED BY NEW FIXTURES.
4. ALL WIRELESS DEVICES SHALL BE REMOVED BY VA STAFF AND REINSTALLED AFTER COMPLETION OF CONSTRUCTION.
5. EXISTING EQUIPMENT SUCH AS LIGHTING FIXTURES, WIRING DEVICES, CONDUIT, ETC, SHOWN ON PLANS TO BE REMOVED COMPLETELY. CUT/CAP CONDUITS AT THE AREA OF WORK PERIMETER AND REMOVE CONDUIT WITHIN THE WORK AREA DISCONNECT WIRING AT THE OVERCURRENT PROTECTIVE DEVICE AND REMOVE WIRING COMPLETELY FROM THE ABANDONED CONDUITS.
6. REMOVE ALL ACCESSIBLE ABANDONED WIRING OF ALL TYPES, OR CAP AND LABEL IN JUNCTION BOX FOR RE-USE IN COMPLIANCE W/ THE NATIONAL ELECTRIC CODE.
7. MAINTAIN AND RESTORE, IF INTERRUPTED ALL CONDUITS AND CONDUCTORS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.
8. THE SHUT OFF, DEMOLITION, CONSTRUCTION AND ACTIVATION OF THE ELECTRICAL SYSTEMS TO BE COORDINATED WITH THE PROJECT PHASING – SEE SHEET A-100.





1 SECOND LEVEL ELECTRICAL DEMOLITION PLAN
SCALE: 1/8"=1'-0"

NORTH

Revisions	Date
Project No.	

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UNITED STATES DEPARTMENT OF VETERANS AFFAIRS

SAUNDERS ARCHITECTS - ENGINEERS
IH 10 West, Suite 1500
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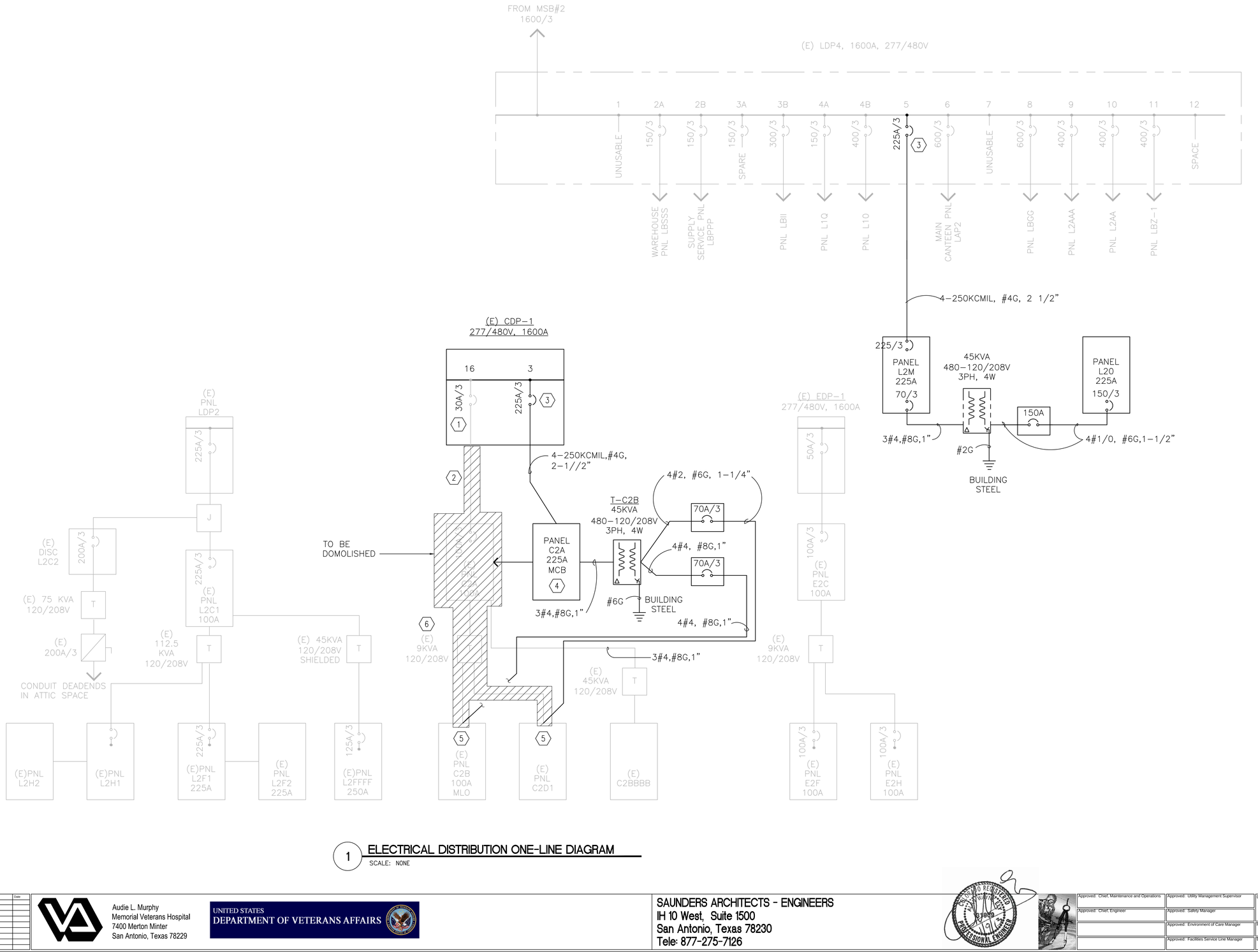
Approved: Chief, Maintenance and Operations	Approved: Utility Management Supervisor	Drawing Title: SECOND LEVEL ELECTRICAL DEMOLITION PLAN		Project Title: NUCLEAR MEDICINE RELOCATION	Date: 01/04/2013
Approved: Chief, Engineer	Approved: Safety Manager				Scale: 1/8"=1'-0"
	Approved: Environment of Care Manager	Project No.: 671-11-712	Contract No.: VA257-P-0249	Designed By: DS / Checked By: MZ / Drawn By: DS	Drawing No.: E-103
	Approved: Facilities Service Line Manager	Building No.: -	AutoCAD File Name: 671-11-712 E-103.DWG	Location: SAN ANTONIO, TEXAS	

Veterans Administration



1 ELECTRICAL DISTRIBUTION ONE-LINE DIAGRAM

SCALE: NONE

GENERAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO PROJECT START–UP.
2. PRIOR TO CONSTRUCTION, CIRCUIT TRACE EXISTING PANELBOARDS. VERIFY EXISTING PANELBOARD DEMAND LOADS, AND ACCURACY OF SCHEDULES. PROVIDE NEW ASBUILT PANEL SCHEDULE. PROVIDE REPORT TO ENGINEER WITH CIRCUIT TRACING FINDINGS.

KEYED NOTES:

1. DISCONNECT EXISTING CIRCUIT FROM EXISTING CIRCUIT BREAKER. PROVIDE NEW LABEL INDICATING "SPARE"
2. DEMOLISH EXISTING CONDUCTORS. CONDUIT TO REMAIN AS SPARE.
3. PROVIDE NEW 225A/3 CIRCUIT BREAKER W/ KAIC RATING MATCHING EXISTING. MODIFY SWITCHBOARD AS NECESSARY FOR INSTALLATION OF NEW CIRCUIT BREAKER. PROVIDE LABEL.
4. PROVIDE NEW PANELBOARD C2A TO REPLACE EXISTING PANELBOARD C2A. NEW PANELBOARD SHALL BE MOUNTED AT SAME LOCATION. RECONNECT ALL EXISTING CIRCUITS TO REMAIN. PROVIDE ADDITIONAL WIRE/CONDUIT, BOXES AS NECESSARY FOR CONNECTION.
5. DEMOLISH EXISTING FEEDERS TO EXISTING PANELS AND REPLACE W/ NEWFEEDERS TO EXISTING PANELS.
6. DEMOLISH EXISTING TRANSFORMER AND REPLACE W/ NEW TRANSFORMER AND SECONDARY CIRCUIT BREAKERS

Revisions	Date

Project No.

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COLORADO REGISTERED 37999 PROFESSIONAL ENGINEER

Approved: Chief, Maintenance and Operations	Approved: Utility Management Supervisor	Drawing Title: ELECTRICAL DISTRIBUTION ONE-LINE DIAGRAM	Project Title: NUCLEAR MEDICINE RELOCATION	Date: 01/04/2013
Approved: Chief, Engineer	Approved: Safety Manager			Scale: NONE
	Approved: Environment of Care Manager	Project No.: 671-11-712 / Contract No.: VA257-P-0249	Designed By: DS / Checked By: MZ / Drawn By: DS	Drawing No.: E-104
	Approved: Facilities Service Line Manager	Building No.: - / AutoCAD File Name: 671-11-712 E-104.DWG	Location: SAN ANTONIO, TEXAS	Veterans Administration