

ELECTRICAL LEGEND

- LIGHTING**
- DOWNLIGHT
 - WITH MOUNTED FIXTURE, AS NOTED.
 - CEILING OR WALL MOUNTED HID LUMINAIRE
 - PORCELAIN KEYLESS
 - SURFACE MOUNTED FLUORESCENT LUMINAIRE
 - RECESS MOUNTED FLUORESCENT LUMINAIRE
 - RECESS MOUNTED FLUORESCENT LUMINAIRE WITH MODULAR WIRING CONNECTOR
 - FLUORESCENT STRIP LUMINAIRE
 - TRACK LIGHT, AS NOTED OR SCHEDULED
 - DIRECTIONAL ACCENT OR WALL-WASH LUMINAIRE
 - EXTERIOR POLE MOUNTED LUMINAIRE, AS SCHEDULED
 - BOLLARD
 - CEILING OR WALL MOUNTED EXIT SIGN. INSTALL FACES AS INDICATED BY SHADING
 - EMERGENCY LIGHT AS NOTED
- POWER**
- STRAIGHT BLADE DUPLEX RECEPTACLE
 - SUBSCRIPTS:
 - HG = HOSPITAL GRADE
 - HOT = HOSPITAL GRADE TAMPER RESISTANT
 - GFI = GROUND FAULT INTERRUPTER
 - SS = SURGE SUPPRESSION
 - AC = # ABOVE COUNTER
 - STRAIGHT BLADE CEILING MOUNTED DUPLEX RECEPT.
 - STRAIGHT BLADE DOUBLE DUPLEX RECEPT. (FOURPLEX)
 - STRAIGHT BLADE SINGLE RECEPTACLE
 - STRAIGHT BLADE DUPLEX RECEPT. HALF-SWITCHED
 - STRAIGHT BLADE DUPLEX RECEPT. ON EMERGENCY CIRCUIT
 - OUTLET WITH SPECIAL DEVICE, AS NOTED
 - WALL MOUNTED OUTLET WITH SPECIAL DEVICE, AS NOTED
 - FLOOR MOUNTED OUTLET WITH SPECIAL DEVICE, AS NOTED
 - FLOOR MOUNTED POWER BOX, AS NOTED
 - FLOOR MOUNTED COMBINATION OUTLET BOX, AS NOTED
 - POKE THROUGH, AS NOTED
 - PEDESTAL OUTLET, AS NOTED
 - JUNCTION BOX AS NOTED
 - OUTLET BOX
 - WALL MOUNTED OUTLET BOX
 - ABOVE CEILING POWER DISTRIBUTION BOX
 - SURFACE RACEWAY, AS NOTED
 - CLOCK HANGER OUTLET
 - TELE-POWER POLE
 - PULL BOX
 - CONNECTION TO MOTOR
 - MAGNETIC MOTOR STARTER
 - SUBSCRIPTS:
 - MS = MULTISPEED
 - SSRV = SOLID-STATE, REDUCED VOLTAGE
 - VF = VARIABLE FREQUENCY
 - SAFETY DISCONNECT SWITCH
 - FUSED DISCONNECT SWITCH
 - COMBINATION DISCONNECT AND STARTER
 - ENCLOSED CIRCUIT BREAKER, MOLDED-CASE, THERMAL-MAGNETIC
 - SUBSCRIPTS:
 - AT = ADJUSTABLE TRIP
 - EAT = ELECTRONIC ADJUSTABLE TRIP
 - CL = CURRENT LIMITING
 - IF = INTEGRALLY FUSED
 - GFCI = GROUND FAULT CIRCUIT INTERRUPTER
 - ST = SHUNT TRIP
 - KI = KEY INTERLOCK
 - ZSI = ZONE-SELECTIVE INTERLOCKING
 - CONNECTION TO PRE-WIRED EQUIPMENT
 - BREAKER PANEL
 - MCC MOTOR CONTROL CENTER
 - TRANSIENT VOLTAGE SURGE SUPPRESSOR
 - TRANSFORMER
 - ENGINE GENERATOR
 - VOLUME CONTROLLER
 - SPEAKER

- CIRCUITING**
- CONDUIT RUN
 - CIRCUIT HOMERUN TO PANEL OR CABINET, NO. OF ARROWS INDICATE NO. OF CIRCUITS
 - CIRCUIT TURNED UP
 - CIRCUIT TURNED DOWN
 - CONDUIT STUB-OUT - CAP & MARK
 - CIRCUIT IN FLEXIBLE CONDUIT
 - SEALOFF

- SWITCHING**
- S WALL MOUNTED SWITCH
 - SUBSCRIPTS:
 - 2 = DOUBLE POLE
 - 3 = 3-WAY
 - 4 = 4-WAY
 - 0 = DIMMER
 - K = KEY-OPERATED
 - O = SWITCH MOUNTED OCCUPANCY SENSOR
 - P = PILOT LIGHT
 - T = THERMAL OVERLOAD
 - LV = LOW VOLTAGE
 - DS = DOOR SWITCH

NOTE: ALL SYMBOLS SHOWN ON LEGEND ARE NOT NECESSARILY USED.

- SCHEMATIC WIRING GRAPHICS**
- METER
 - GROUND CONNECTION AS NOTED
 - FUSED DISCONNECT SWITCH
 - FUSES
 - MAGNETIC MOTOR STARTER
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 - ST = SHUNT TRIP
 - KI = KEY INTERLOCK
 - ZSI = ZONE-SELECTIVE INTERLOCKING
 - POWER TRANSFORMER
 - CURRENT TRANSFORMER
 - AMMETER
 - VOLT METER
 - TRANSFER SWITCH
 - GROUND FAULT PROTECTION
 - GENERATOR
 - MOTOR, NUMBER INDICATES HORSEPOWER

- FIRE ALARM SYSTEM**
- FIRE ALARM CONTROL PANEL
 - FIRE ALARM GRAPHIC PANEL
 - FIRE ALARM ANNUNCIATOR PANEL
 - MANUAL PULL STATION
 - FIRE ALARM STROBE
 - GENERAL ALARM COMBINATION HORN/STROBE
 - FIRE ALARM HORN
 - CEILING OR WALL MOUNTED DETECTOR
 - SUBSCRIPTS:
 - I = IONIZATION
 - T = THERMAL, FIXED AND RATE-OF-RISE
 - TF = THERMAL, FIXED
 - TI85° = 185° THERMAL, FIXED AND RATE-OF-RISE
 - TI165° = 165° THERMAL, FIXED
 - P = PHOTOELECTRIC
 - PT = COMBINATION PHOTOELECTRIC AND THERMAL
 - SMOKE DETECTOR IN VENTILATING DUCT
 - FAN SHUT-DOWN CONNECTION
 - MAG. DOOR HOLDER
 - SPRINKLER SYSTEM FLOW SWITCH
 - SPRINKLER SYSTEM TAMPER SWITCH
 - FIREFIGHTERS TELEPHONE JACK
 - LIFE SAFETY SPEAKER
 - LIFE SAFETY SPEAKER WITH STROBE
 - REMOTE PILOT LIGHT
 - REMOTE PILOT LIGHT WITH TEST SWITCH

- COMMUNICATION SYSTEM**
- FLOOR MOUNTED TELEPHONE AND/OR DATA OUTLET BOX, AS NOTED
 - WALL MOUNTED TELEPHONE OUTLET
 - WALL MOUNTED DATA OUTLET
 - WALL MOUNTED COMBINATION TELEPHONE/DATA OUTLET BOX
 - PAY PHONE
 - TELEPHONE TERMINAL BOARD - TTB
 - CEILING OR WALL MOUNTED SPEAKER
 - VOLUME CONTROL
 - FLOOR OR WALL MOUNTED MICROPHONE OUTLET
 - CALL-IN SWITCH
 - TIME-TONE UNIT
 - CEILING OR WALL MOUNTED CLOCK
 - PROGRAM BELL
 - BUZZER
 - HOUSE PHONE/INTERCOM
 - MASTER INTERCOM STATION
 - TELEVISION ANTENNA OUTLET
 - CLOSED CIRCUIT TV OUTLET
 - AMPLIFIER

- NOTATIONS**
- 1 - UPPER CASE LETTER AT LUMINAIRES (F1, T1, ETC.) INDICATES LUMINAIRE TYPE. (C1) = TYPE F1 LUMINAIRES IN AREA INDICATED.
 - 2 - LOWER CASE LETTER AT LUMINAIRES AND SWITCHES (a, b, ETC.) INDICATE ASSOCIATED UNITS FOR SWITCHING.
 - 3 - SHADING WITHIN LUMINAIRE DENOTES UNIT ON EMERGENCY (EM) CIRCUIT.
 - 4 - "NL" WITHIN LUMINAIRES DENOTES UNIT ON NIGHT LIGHT CIRCUIT.
 - 5 - PLUS (+) SIGN WITH DIMENSION AT OUTLET INDICATES HEIGHT ABOVE FINISHED FLOOR OR GRADE TO CENTERLINE OF OUTLET.

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED.

- AC - ABOVE COUNTER
- AFC - ABOVE FINISHED CEILING
- AFF - ABOVE FINISHED FLOOR
- AFG - ABOVE FINISHED GRADE
- AIC - AMPS INTERRUPTING CURRENT
- AL - ALUMINUM
- BFG - BELOW FINISHED GRADE
- OB - CIRCUIT BREAKER
- CR - CORROSION RESISTANT
- CPT - CONTROL POWER TRANSFORMER
- CT - CURRENT TRANSFORMER
- CJ - COPPER
- ELR - END OF LINE RESISTOR
- EM - EMERGENCY
- ES - EMERGENCY STOP
- ETM - ELAPSED TIME METER
- EW - ELECTRIC WATER COOLER
- FLA - FULL LOAD AMPS
- FNR - FULL VOLTAGE, NON-REVERSING
- FVR - FULL VOLTAGE, REVERSING
- FWE - FURNISHED WITH EQUIPMENT
- GFI - GROUND FAULT INTERRUPTER
- GRG - GALVANIZED RIGID CONDUIT
- HOA - HAND-OFF-AUTOMATIC
- HP - HORSEPOWER
- IG - ISOLATED GROUND
- LC - LIGHTING CONTACTOR
- LOR - LOCAL-OFF-REMOTE
- LS - LEVEL SWITCH
- LT - LET THROUGH
- MCA - MINIMUM CIRCUIT AMPS
- MCB - MAIN CIRCUIT BREAKER
- MCC - MOTOR CONTROL CENTER
- MCCB - MOLDED CASE CIRCUIT BREAKER
- MCP - MOTOR CIRCUIT PROTECTION
- MLO - MAIN LUGS ONLY
- NC - NORMALLY CLOSED
- NIC - NOT IN CONTRACT
- NL - NIGHT LIGHT
- NO - NORMALLY OPEN
- NTS - NOT TO SCALE
- OC - OVER CURRENT
- OL - OVERLOAD
- PT - POTENTIAL TRANSFORMER
- RVR - REDUCED VOLTAGE, NON-REVERSING
- SC - SHORT CIRCUIT
- SR - SAFE OR STOP/RUN
- TTB - TELEPHONE TERMINAL BOARD
- UG - UNDERGROUND
- VFD - VARIABLE FREQUENCY DRIVE
- WG - WIREGUARD
- WP - WEATHERPROOF
- XFMR - TRANSFORMER
- XP - EXPLOSION PROOF
- ZS - LIMIT OR POSITION SWITCH

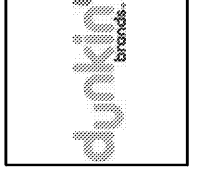
THESE DRAWINGS ARE DIAGRAMMATIC - REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS. BRANCH CIRCUITING CONVENTION - #12 AWG PER PHASE AND NEUTRAL (WHERE REQUIRED) AND 20 AMPERE CIRCUIT BREAKER, UNLESS OTHERWISE NOTED. PROVIDE QUANTITY AND SIZE SWITCH CONDUCTORS AS REQUIRED TO MAKE SYSTEM OPERATIONAL.

GENERAL NOTES (FOR ALL ELECTRICAL SHEETS)

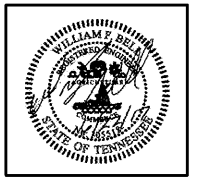
1. COORDINATE LOCATION OF LUMINAIRES WITH ARCHITECTURAL REFLECTED CEILING PLANS.
2. PROVIDE (1) 3/4" C. WITH PULL WIRE FROM EACH TELEPHONE, DATA OR COMMUNICATION OUTLET SHOWN, TO ABOVE ACCESSIBLE CEILING, AND CAP.
3. COORDINATE EXACT EQUIPMENT LOCATIONS WITH OWNER PRIOR TO ROUGH-INS.
4. COORDINATE LOCATION OF ALL OUTLETS WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS AND EQUIPMENT INSTALLATION DRAWINGS.
5. COORDINATE LOCATION OF MECHANICAL EQUIPMENT WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
6. ANY ITEMS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR.
7. ALL 120V BRANCH CIRCUITS SHALL BE 3-WIRE (PHASE, NEUTRAL, GROUND).
8. CONTRACTOR SHALL NOT ROUTE ANY CONDUIT WITHIN STRUCTURAL OR TOPPING SLABS OF FLOORS UNLESS NOTED TO DO SO.
9. REFER TO ARCHITECTURAL PLANS, ELEVATIONS AND DIAGRAMS FOR LOCATIONS OF FLOOR DEVICES AND WALL DEVICES. LOCATION WILL INDICATE VERTICAL AND/OR HORIZONTAL MOUNTING. IF DEVICES ARE NOT NOTED OTHERWISE THEY SHALL BE MOUNTED LONG AXIS VERTICAL AT +16" TO CENTER.
10. INFORMATION ON THE DRAWINGS HAS BEEN ASCERTAINED FROM INFORMATION PROVIDED BY OTHERS. THIS INFORMATION IS AS ACCURATE AS CONDITIONS WOULD ALLOW. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE, PRIOR TO BID, AND FAMILIARIZE HIMSELF WITH THE EXTENT OF REMODEL WORK REQUIRED. NO EXTRAS WILL BE ALLOWED FOR ALTERATIONS OF A FORESEEABLE NATURE REQUIRED TO ACHIEVE THE END RESULT AS INDICATED BY CONTRACT DOCUMENTS.
11. SITE PLAN DOES NOT INDICATE ALL OF THE UG UTILITY LINES. RE: CIVIL DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITY LINES OF ALL TRADES PRIOR TO ANY SITE WORK.

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