

ELECTRICAL SPECIFICATIONS

DIVISION 16 - ELECTRICAL SPECIFICATIONS

PART I. GENERAL PROVISIONS

1. SCOPE: PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT IN ACCORDANCE WITH THESE SPECIFICATIONS, AND THE ACCOMPANYING DRAWINGS TO PROVIDE A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM FOR THE BUILDING.
- A. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL OF THE FOLLOWING MATERIAL AND EQUIPMENT UNDER THIS DIVISION OF THE SPECIFICATIONS, UNLESS NOTED OTHERWISE: PANELBOARDS, LIGHTING FIXTURES, LAMPS, RACEWAYS, 600 VOLT WIRE AND CABLE, WIRING DEVICES, DEVICE PLATES, DEVICE, PULL, AND JUNCTION BOXES, SAFETY SWITCHES, MOTOR STARTERS, LIGHTING CONTROLS, CIRCUIT BREAKERS, FUSES, TIME CLOCKS, EQUIPMENT IDENTIFICATION (NAMEPLATES AND DIRECTORIES), WIRE AND CABLE TERMINATIONS, CONNECTIONS TO INDIVIDUAL UNITS OF EQUIPMENT FOR THE WALK-IN FREEZERS AND COOLERS, AND TEMPORARY POWER.
- B. THE FOLLOWING MATERIAL AND EQUIPMENT WILL BE FURNISHED AND/OR INSTALLED BY OTHERS, OR UNDER OTHER DIVISIONS OF THE SPECIFICATIONS, UNLESS NOTED OTHERWISE: LOW VOLTAGE (24 VOLT) WIRE AND CABLE, COMMUNICATION DEVICES, SECURITY EQUIPMENT, POINT OF SALE (POS) EQUIPMENT, SIGNAGE, CONCRETE BASES FOR SITE LIGHTING POLES.
- C. THE FOLLOWING MATERIAL AND EQUIPMENT WILL BE FURNISHED BY OTHERS, OR UNDER OTHER DIVISIONS OF THE SPECIFICATIONS, UNLESS NOTED OTHERWISE: SITE LIGHTING FIXTURES AND POLES.
2. GENERAL REQUIREMENTS: ALL WORK SHALL BE PERFORMED BY SKILLED LICENSED ELECTRICIANS IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE, MEETING THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, APPLICABLE FEDERAL, STATE AND LOCAL CODES, AND THE REQUIREMENTS OF THE ELECTRICAL UTILITY COMPANY FURNISHING THE SERVICE. ALL NECESSARY CONSTRUCTION PERMITS AND CERTIFICATES OF INSPECTION SHALL BE PURCHASED AND OBTAINED UNDER THIS CONTRACT.
- A. COORDINATION: ALL OUTLETS MUST BE ACCURATELY LOCATED, PARTICULARLY APPLIANCE OUTLETS WHICH SHALL BE LOCATED FROM THE DIMENSIONS GIVEN ON THE DRAWING AND FIELD VERIFIED. REVIEW THE ARCHITECTURAL, PLUMBING AND HEATING AND VENTILATING PLANS IN ORDER TO COORDINATE THIS WORK WITH OTHER TRADES, AND COOPERATE WITH THEM IN THE ENTIRE INSTALLATION.
3. SERVICE VOLTAGE: THESE DRAWINGS ARE FOR A METERED UNDERGROUND BUILDING SERVICE OF 120/208 VOLT, THREE PHASE, FOUR WIRE, 60 HERTZ. ALL KITCHEN AND AIR CONDITIONING EQUIPMENT HAS BEEN DESIGNED AND PURCHASED FOR USE ON THIS ELECTRICAL SYSTEM. THE CONTRACTOR SHALL CONTACT THE ELECTRICAL UTILITY AND VERIFY ALL OF THE ABOVE SERVICE CHARACTERISTICS, AND THE AVAILABLE FAULT CURRENT.
4. SERVICE EQUIPMENT: THE SERVICE SHALL BE LOCATED AS SHOWN ON THE SITE PLAN OR AS INDICATED IN THE INSTRUCTIONS TO BIDDERS. UTILITY POLES, PADS FOR UTILITY TRANSFORMERS, CURRENT TRANSFORMER ENCLOSURES, METERING EQUIPMENT, SERVICE MASTS, AND OTHER RELATED MATERIALS AND EQUIPMENT SHALL BE APPROVED, FURNISHED, AND INSTALLED AS REQUIRED. INCLUDE THE COST OF ALL THE ABOVE ITEMS. SERVICE CONNECTIONS, AND METER CHARGES IN THE BASE BID. MAIN SERVICE SWITCHES AND CURRENT TRANSFORMER CABINETS SHALL BE INCLUDED IN THE BASE BID. UNLESS NOTED OTHERWISE, A MAIN SERVICE SWITCH WITH CURRENT LIMITING FUSES MAY BE USED WHEN THE AVAILABLE FAULT CURRENT (AFC) IS EXCESSIVE, IN ORDER TO USE STOCK PANELBOARDS, WITH 10K OR 22K AIC RATINGS.

PART II. MATERIALS

1. MATERIALS: ALL MATERIALS SHALL BE NEW AND OF THE QUALITY INDICATED BY THE SPECIFIED BRAND NAME. SUBSTITUTIONS OF MATERIAL OF EQUAL QUALITY BY OTHER MAJOR MANUFACTURERS OF COMPARABLE EQUIPMENT MAY BE ACCEPTABLE PROVIDED A LIST OF SUCH SUBSTITUTIONS IS APPROVED IN WRITING BY POPEYE'S ARCHITECTURE AND ENGINEERING DEPARTMENT. THE CONTRACTOR SHALL SUBMIT A SUBSTITUTION LIST IN TRIPPLICATE AT LEAST FIVE DAYS PRIOR TO THE BID OPENING.

- A. PANELBOARDS: PANELBOARDS SHALL BE BOLT-IN CIRCUIT BREAKER TYPE, AS SHOWN ON THE PLANS. PANELS SHALL BE OF PANELBOARD CONSTRUCTION, 20 INCHES WIDE (MINIMUM), 5-3/4" TO 6-1/2" DEEP, UL LISTED, AND MEET UL 67, UL 50, AND FEDERAL SPECIFICATION W-P-189 AS TYPE I, CLASS I, WITH BOLT-ON CIRCUIT BREAKERS, COPPER BUS BARS, NEUTRAL BUS, GROUND BUS, AND A HINGED LOCKABLE DOOR. CABINETS SHALL BE CODE GAUGE, GALVANIZED STEEL, MOUNTED AS SHOWN. PROVIDE TYPEWRITTEN CIRCUIT DIRECTORIES WITH CLEAR PLASTIC PROTECTORS IN ALL PANELS. ALL WIRES SHALL BE TAGGED WITH PANEL AND CIRCUIT NUMBERS. PANEL TYPE SHALL BE UL LISTED AND LABELED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT. APPROVED MANUFACTURERS OF PANELS ARE SQUARE D/TELEMECHANIQUE, CUTLER-HAMMER, GENERAL ELECTRIC, WESTINGHOUSE, AND SIEMENS (I-T-E).
- B. LIGHTING FIXTURES: ALL LIGHTING FIXTURES SHALL BE UL LISTED, COMMERCIAL QUALITY. REFER TO NATIONAL ACCOUNT SCHEDULE. REVIEW AT: WWW.POPEYESDEVELOPMENT.COM; PASSWORD: laq1appp
- C. LAMPS: ALL NEW FLUORESCENT LAMPS (40T8) SHALL BE COOL WHITE, OR COLOR IMPROVED COOL WHITE, WITH A 4100 DEGREE K COLOR TEMPERATURE, 2500 MHZ INITIAL LUMENS, 20,000 HOURS RATED LIFE, AND 62 MIN CRI, UNLESS NOTED OTHERWISE.
- D. WIRING DEVICES: ALL WIRING DEVICES SHALL BE UL LISTED, COMMERCIAL SPECIFICATION GRADE. SWITCHES SHALL BE RATED 20 AMPS AT 120/277 VOLTS, AC. STANDARD RECEPTACLES SHALL BE 20 AMP DUPLEX, GROUNDING TYPE, IN NEMA CONFIGURATIONS, UNLESS NOTED OTHERWISE. SWITCHES IN THE SAME LOCATION SHALL BE GANGED BEHIND A SINGLE PLATE. DEVICE PLATES IN THE KITCHEN AREA SHALL BE METAL, ALUMINUM OR STAINLESS STEEL. DEVICE PLATES IN THE DINING AREA SHALL BE THERMOPLASTIC (NYLON) OR METAL, COLOR AS APPROVED BY THE ARCHITECT OR OWNER. APPROVED MANUFACTURERS OF SWITCHES AND RECEPTACLES ARE HUBBELL, ARROW HART, BRYANT, LEVITON, PAB9 4 SEYMOUR, GENERAL ELECTRIC, SLATER, OR EQUAL.

1. SWITCHES:
 - a. SINGLE POLE: HUBBELL HBL1221-1, OR EQUAL.
 - b. THREE WAY: HUBBELL HBL1223-1, OR EQUAL.
2. RECEPTACLES:
 - a. NEMA 5-20R: HUBBELL 53621, OR EQUAL.
 - b. NEMA 5-20R-1G: HUBBELL 1G-5362, OR EQUAL.
 - c. NEMA 5-20R-1G-66: HUBBELL 1G-5362-06, OR EQUAL.
 - d. NEMA 5-20R-GFCI: HUBBELL GF5362-1, OR EQUAL.
 - e. NEMA 6-20R: HUBBELL 5462-1, OR EQUAL.
 - f. OTHERS: COMMERCIAL OR INDUSTRIAL GRADE, UL LISTED, FEDERAL SPECIFICATION W536F.
3. UP PLATES: WEATHERPROOF COVERS ARE PERMITTED UNDER NEC ARTICLE 406.8(B)(1).
4. NATIONAL ACCOUNT: REFER TO THE NATIONAL ACCOUNT DIRECTORY. THE FOLLOWING EQUIPMENT MAY BE AVAILABLE: MAIN SERVICE PANELBOARD WITH BREAKERS INSTALLED, LIGHTING AND DISTRIBUTION PANELBOARDS WITH BREAKERS INSTALLED, ROOF-TOP DISCONNECTS FOR HVAC UNITS AND KITCHEN HOOD FANS, LIGHTING CONTACTOR PANEL, AND SHUNT TRIP SYSTEMS (IF REQUIRED PER LOCAL CODE).
5. EXCAVATIONS: PERFORM ALL NECESSARY EXCAVATING AND BACK-FILLING REQUIRED FOR THIS INSTALLATION. ALL EXCAVATIONS BELOW THE BOTTOM OF FOOTINGS SHALL BE BACKFILLED WITH 3000 PSI CONCRETE. WHERE DITCHES ARE CUT FOR OUTSIDE RUNS OF CONDUIT, REPLACE AND TAMP THE EARTH IN 12" LAYERS AND LEAVE THE GROUND LEVEL AND EQUAL TO ITS ORIGINAL CONDITION.
6. CONDUIT AND RINGS: CONDUIT PERMITTED: (A) RIGID GALVANIZED STEEL (RGS), (B) EMT, (C) PVC, AND (D) ENT. WIRE UTILITIES SHALL BE RUN ONLY AS PERMITTED BY LOCAL CODE. ALL WIRING SHALL BE RUN IN CONDUIT. CONDUIT TO BE CEEMED IN CONCRETE OR RUN UNDERGROUND SHALL BE RIGID GALVANIZED CONDUIT OR PVC. IF PVC IS USED, ALL ELBOWS, SWEEPS, AND STUB-UPS SHALL BE RGS. CONDUIT EXPOSED OR RUN IN MASONRY WALLS ABOVE GRADE MAY BE PVC OR EMT UNLESS ALLOWED BY LOCAL CODES. IF EMT IS NOT PERMITTED, RIGID GALVANIZED STEEL CONDUIT AND FITTINGS SHALL BE USED. IF SHIELDED CABLE IS REQUIRED FOR CONTROL CIRCUITRY, IT SHALL BE TAN, GREY OR ANY NEUTRAL COLOR OTHER

THAN THAT AS SPECIFIED FOR POWER DISTRIBUTION. NO CONDUIT SMALLER THAN 3/4" SHALL BE INSTALLED EXCEPT FOR TWO-WIRE SWITCH LEGS. ALL CONDUIT BENDS SHALL BE FREE FROM DENTS AND KINKS. ALL CONDUITS SHALL BE ELECTRICALLY CONTINUOUS FROM THE SERVICE EQUIPMENT TO ALL OUTLETS, AND SHALL BE SECURED TO ALL METAL BOXES WITH ONE LOCK NUT OUTSIDE, AND ONE INSIDE THE BOX WITH A REINFORCED BAKELITE BUSHING. IF PVC OR ENT IS USED, THEN APPROPRIATE SIZED, ELECTRICALLY CONTINUOUS, BOND WIRES SHALL BE RUN FROM THE SERVICE EQUIPMENT TO ALL OUTLETS, AND SHALL BE SECURED TO EACH WIRING DEVICE PER THE NATIONAL ELECTRICAL CODE. WHERE CONNECTIONS ARE TO BE MADE BETWEEN CONDUIT TERMINATIONS AND MOTORS, EQUIPMENT, OR APPARATUS NECESSITATING FLEXIBLE CONNECTIONS, APPROVED FLEXIBLE CONDUIT SHALL BE USED. OUTDOOR CONNECTIONS TO FANS, HVAC UNITS, OR ROTATING EQUIPMENT SHALL BE MADE WITH HELICAL WOUND LIQUIDTIGHT FLEXIBLE STEEL CONDUIT. EXPOSED CONDUIT SHALL BE SUITABLY SUPPORTED AT INTERVALS NOT TO EXCEED FIVE (5) FEET. DURING CONSTRUCTION, CONDUIT SHALL BE KEPT FREE OF ALL FOREIGN MATTER BY USE OF CAPPED BUSHINGS ON ALL TURNED UP ENDS. PAPER OR WOOD PLUGS ARE NOT ACCEPTABLE FOR THIS PURPOSE.

7. WIRE AND CABLES: ALL WIRE AND CABLES SHALL BE UNDERWRITERS LABORATORIES' LISTED, AND LABELED, AND CONFORM WITH APPLICABLE STANDARDS OF UL (44 AND 83), NEMA (001-5 AND 001-1), IFCIA (9-61-462, AND 8-66-524), FEDERAL SPECIFICATIONS (J-C-30A(1), AND H-1-595C), ANSI, AND OTHER APPLICABLE INDUSTRY STANDARDS. CONNECTORS AND LUGS SHALL MEET UL PUBLICATION 486. ALL BRANCH CIRCUIT WIRING SHALL BE 600 VOLT, COPPER, 75 DEGREE C (MIN) TYPE THRUWIRE WITH A MINIMUM SIZE OF #2 AWG, UNLESS NOTED OTHERWISE. WIRE SIZES OF #8 AWG AND LARGER SHALL BE STRANDED. SERVICE AND FEEDER CABLES SHALL BE 600 VOLT, STRANDED COPPER, 75 DEGREE C (MIN) TYPE XHHW. ALL CIRCUITS SHALL HAVE A SEPARATE GROUND CONDUCTOR. PROVIDE GREEN-INSULATED GROUND WIRE IN ALL RACEWAYS, CABLE ASSEMBLIES, AND WHERE NOTED. SIZE EQUIPMENT GROUNDS PER TABLE 250-122 OF THE NATIONAL ELECTRICAL CODE. INSULATION COLOR CODES SHALL BE BLACK, RED, AND BLUE (PHASE); WHITE (NEUTRAL), AND GREEN (GROUND).

- A. ALL WIRING SHALL BE INSTALLED IN CONDUIT EXCEPT WHERE SPECIFICALLY SHOWN ON THE DRAWINGS. NON-METALLIC SHEATHED (TYPE NM) CABLES ARE NOT PERMITTED.
- B. ALL BRANCH CIRCUIT COMMUNICATION, SIGNALING, AND CONTROL WIRING TO KEYS, FIRE PROTECTION, AND OTHER EQUIPMENT SHALL BE ROUTED ABOVE THE CEILING. VERIFY WHETHER OR NOT THE SPACE ABOVE THE CEILING IS SUITABLE FOR RETURN AIR FOR THE ENVIRONMENT. AIR BY SYSTEM IS USED FOR RETURN AIR, PROVIDED SEPARATE RACEWAYS FOR ALL OVERHEAD WIRING PER ARTICLE 300-22(B). IF IT IS NOT "OTHER SPACE USED FOR ENVIRONMENTAL AIR", APPROVED LOW VOLTAGE CABLES MEETING THE REQUIREMENTS OF NEC ARTICLES 725 AND 160 MAY BE RUN WITHOUT RACEWAYS, UNO. ALL SAFETY CONTROL WIRING FOR FIRE PROTECTION SYSTEMS, SHUNT TRIPS, ETC. SHALL BE RUN IN A RACEWAY IN ACCORDANCE WITH NEC ARTICLES 725.25 AND 725.28.
- B. SITE LIGHTING: THE GC WILL FURNISH THE SITE LIGHTING FIXTURES, AS REQUIRED FOR THE SPECIFIC LOCATION. UNDER THIS SPECIFICATION SECTION, PROVIDE 1" RIGID GALVANIZED STEEL ELECTRICAL CONDUIT, AND THE REQUIRED WIRING FROM THE PANEL TO THE POLE. SET FIXTURES AND POLES ON CONCRETE BASES, AS PROVIDED UNDER SPECIFICATION SECTION 3A: CONCRETE. GROUND/BOND EACH SITE LIGHTING FIXTURES/POLES PER THE NEC. THE BRANCH CIRCUIT CONDUCTORS SHALL BE INCREASED FROM #2 AWG TO #4 AWG IF THE HORIZONTAL DISTANCE FROM THE PANEL TO THE POLE IS GREATER THAN EIGHTY (80) FEET. ALL SITE LIGHTING SHALL BE CONTROLLED THROUGH THE LIGHTING CONTROL SYSTEM SHOWN ON THE DRAWINGS. REFER TO THE SITE PLAN FOR QUANTITY AND LOCATION OF ALL SITE LIGHTING. SET FIXTURES AS SPECIFIED, AND AIM AFTER DARK FOR UNIFORM LIGHT DISTRIBUTION.
3. SIGNAGE LIGHTING: PROVIDE A 1" RIGID GALVANIZED STEEL ELECTRICAL CONDUIT, AND WIRING, FROM THE PANEL TO ALL ILLUMINATED SIGNS AS SHOWN ON THE LIGHTING AND SITE PLANS. GROUND/BOND EACH SIGN. SIGNS WILL BE FURNISHED AND INSTALLED BY THE OWNER, OR UNDER A SEPARATE CONTRACT, UNO.

POWER AND WIRING SHALL BE FURNISHED AND INSTALLED UNDER THIS SECTION OF THE SPECIFICATIONS.

OTHER WIRING:
 A. FURNISH AND INSTALL ALL POWER WIRING AND CONDUIT AS INDICATED ON THE DRAWINGS FOR ROOF-TOP HVAC EQUIPMENT, KITCHEN HOOD FANS, AND WALK-IN FREEZER AND COOLER EQUIPMENT. DISCONNECT SWITCHES, AVAILABLE FROM THE NATIONAL ACCOUNT, SHALL BE FURNISHED AND INSTALLED FOR EACH UNIT OF HVAC EQUIPMENT, AND FOR KITCHEN EQUIPMENT WITHOUT A CORD AND PLUG. BEFORE ENERGIZING ANY EQUIPMENT, VERIFY THAT THE CORRECT POWER SUPPLY VOLTAGE, AMPACITY, AND PHASING HAS BEEN PROVIDED AT THE LOAD SIDE OF THE DISCONNECT.

B. FURNISH AND INSTALL THE LIGHTING CONTACTOR PANEL, AND ALL ASSOCIATED POWER WIRING, AS INDICATED. THE LIGHTING CONTACTOR PANEL IS CUSTOM BUILT, AND AVAILABLE FROM THE NATIONAL ACCOUNT.

10. EMPTY CONDUIT: LEAVE A #2 AWG PULL WIRE IN ALL EMPTY CONDUITS.

11. BOXES AND WIREWAYS: ALL JUNCTION BOXES, PULL BOXES, WIREWAYS, ETC. SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

12. EQUIPMENT IDENTIFICATION: PROVIDE NAMEPLATES FOR ALL PANELBOARDS, CONTROLS, AND OTHER ELECTRICAL EQUIPMENT. EQUIPMENT VISIBLE TO THE PUBLIC SHALL BE IDENTIFIED WITH ENGRAVED OR LAMINATED NAMEPLATES ATTACHED WITH STAINLESS STEEL FASTENERS. ELECTRICAL EQUIPMENT NOT VISIBLE TO THE PUBLIC SHALL BE IDENTIFIED WITH BLACK PERMANENT MARKERS.

TESTS AND GUARANTEE

TESTS: MAKE ALL TESTS NECESSARY TO ENSURE THAT THE ENTIRE INSTALLATION IS FREE FROM IMPROPER GROUNDS, SHORTS, OR OPEN AND/OR OPEN CONDUCTORS. VOLTAGE, CURRENT, AND ROTATION TESTS SHALL BE MADE BEFORE ANY MOTORS ARE PLACED IN OPERATION. ALL LOADS SHALL BE BALANCED ACROSS PHASES. CHECK TO SEE THAT ALL LIGHTS WORK, AND ARE CONTROLLED BY SWITCHES INDICATED ON DRAWINGS, OR CIRCUIT BREAKERS SO INDICATED ON PANEL SCHEDULE.

2. GUARANTEE: FURNISH A GUARANTEE IN WRITING TO THE OWNER THAT ALL WORK EXECUTED UNDER THIS SECTION IS FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. IN ADDITION, DURING THE TERM OF THIS GUARANTEE, THE REPAIR AND/OR REPLACEMENT OF ANY DEFECTIVE WORK, AND ALL RESULTING DAMAGES SHALL BE MADE AT NO ADDITIONAL EXPENSE TO THE OWNER.

3. TEMPORARY POWER: AT THE PROJECT SITE, PROVIDE A 120 AMP, 120/240 VOLT, SINGLE PHASE, SERVICE WITH POWER OUTLETS ADEQUATE FOR TEMPORARY CONSTRUCTION POWER. TEMPORARY LIGHTING SHALL BE MAINTAINED IN ALL AREAS OF THE BUILDING UNTIL PERMANENT POWER SOURCES HAVE BEEN ENERGIZED. TEMPORARY SERVICE SHALL BE PROVIDED UNDER SECTION 1A OF THESE SPECIFICATIONS.

4. CLEAN-UP: LEAVE THE ELECTRICAL PORTION OF THE WORK IN A CLEAN AND FINISHED CONDITION.

5. SHOP DRAWINGS: PROVIDE SHOP DRAWINGS FOR THE FOLLOWING ITEMS: PANELBOARDS, LIGHTING FIXTURES.
 6. AS-BUILT DRAWINGS: MAINTAIN AS-BUILT DRAWINGS, UPDATED DAILY DURING CONSTRUCTION, AND PRESENT THE OWNER WITH ONE SET UPON COMPLETION. PROVIDE THE OWNER'S PERSONNEL WITH ON-SITE INSTRUCTION IN THE OPERATION AND MAINTENANCE OF THE COMPLETED ELECTRICAL SYSTEM.

LEGEND

ELECTRICAL SYMBOLS

- BALCONY UPLIGHT FIXTURE
- SINGLE FACE EXIT LIGHT W/EMERGENCY BATTERY PACK AND TWO (2) EMERGENCY LIGHT HEADS. SEE FIXTURE SCHEDULE
- BRACKET OR WALL MOUNTED LIGHT FIXTURE. LETTER DENOTES MARK, SEE FIXTURE SCHEDULE.
- FLUORESCENT LIGHT FIXTURE. LETTER DENOTES MARK, SEE FIXTURE SCHEDULE.
- FLUORESCENT LIGHT FIXTURE ON NIGHT LIGHT CIRCUIT. SEE FIXTURE SCHEDULE.
- FLUORESCENT LIGHT FIXTURE. LETTER DENOTES MARK, SEE FIXTURE SCHEDULE.
- PENDANT LIGHT FIXTURE. LETTER DENOTES MARK, SEE FIXTURE SCHEDULE.
- RECESSED CEILING LIGHT FIXTURE. LETTER DENOTES MARK, SEE FIXTURE SCHEDULE.
- VERTICAL FLUORESCENT RECESSED LIGHT FIXTURE. LETTER DENOTES MARK, SEE FIXTURE SCHEDULE.
- TOGGLE SWITCH - SINGLE POLE - HUBBELL HBL1221-1.
- DUPLEX RECEPTACLE; NUMBER SUBSCRIPT INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR IF DIFFERENT THAN SPECIFIED. HUBBELL 5362-1
- DUPLEX RECEPTACLE - IN WEATHER PROOF ENCLOSURE OR COVER, GROUND FAULT INTERRUPTER.
- RECEPTACLE FLUSH MOUNTED IN CEILING. VERIFY EXACT LOCATION AND NEMA CONFIGURATION.
- DUPLEX RECEPTACLE - ISOLATED GROUND SURGE PROTECTED - HUBBELL 1G-5362-08P FOR POS EQUIP. & PRINTERS
- DUPLEX RECEPTACLE - ISOLATED GROUND SURGE PROTECTED - MOUNTED IN CEILING. HUBBELL 1G-5362-08P FOR MONITORS
- SPECIAL PURPOSE RECEPTACLE
- 200/120 PANELBOARD.
- DISCONNECT SWITCH SIZE AS NOTED.
- DOOR SWITCH MOUNTED IN DOOR FRAME (F.B.C.)
- SEE ELECTRICAL NOTES.
- A.F.F. ABOVE FINISHED FLOOR.
- A.F.C. ABOVE FINISHED CEILING.
- F.B.C. FURNISHED BY CONTRACTOR.
- G.F.I. GROUND FAULT INTERRUPTING WEATHERPROOF
- U.N.O. UNLESS NOTED OTHERWISE.
- A-3 CONDUIT RUN CONCEALED IN WALLS OR CL. SPACES. ARROWS INDICATE DIRECTIONS. SUBSCRIPT INDICATES PANEL AND CIRCUIT NUMBERS. SLASH MARKS INDICATE NUMBER OF CONDUCTORS. EQUIPMENT GROUNDING CONDUCTOR REQUIRED IN ALL CONDUITS NOT INDICATED WITH WITH HASHMARK.
- A-3 SAME AS ABOVE NOTE EXCEPT RUN CONDUIT BELOW FLOOR
- EF EXHAUST FAN.
- SF SUPPLY FAN.
- FF FLY FAN.
- J JUNCTION OR OUTLET BOX.
- J SIGN JUNCTION BOX FOR SIGN-MOUNT SWITCH NEAR SIGN.
- J SD JUNCTION BOX FOR SMOKE DETECTOR (F.B.C.) 120V WIRING BY THIS CONTRACTOR.
- C DATA OUTLET, HEIGHT AS NOTED ON PLANS WITH 3/4" EMPTY CONDUIT TO ABOVE CEILING. PROVIDE PULL WIRE.
- TELEPHONE OUTLET, WALL TYPE, 24" AFF UNO ON PLANS WITH 3/4" EMPTY CONDUIT TO ABOVE CEILING. PROVIDE PULL WIRE.
- DATA OUTLET, HEIGHT AS NOTED ON PLANS WITH 3/4" EMPTY CONDUIT TO ABOVE CEILING. PROVIDE PULL WIRE.
- PROVIDE "ON/OFF" SELECTOR SWITCH AND PILOT LIGHT IN NEMA 4 STAINLESS STEEL ENCLOSURE MOUNTED ON THE FACE OF THE HOOD. PROVIDED BY HOOD MANUFACTURER.
- S SPEAKER; CEILING MOUNTED
- J SPK SPEAKER OUTLET IN WALL STUB 3/4" CONDUIT TO SPACE ABOVE ACCESSIBLE CEILING. PROVIDE PULL WIRE.
- T TRANSFORMER MOUNTED ACCESSIBLE
- EDB ELECTRIC DOOR PUSHBUTTON: EDWARDS 590 40" MOUNTING HEIGHT
- EDBZ ELECTRIC DOOR BUZZER: 8" BELOW CEILING
- PC PHOTOCELL

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