

ELECTRICAL NOTES:

- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE LOCAL CODE AND CODE ENFORCING AUTHORITIES.
- THE ELECTRICAL DRAWINGS SHALL BE CONSIDERED AS BEING DIAGRAMMATIC AND FOR BIDDING PURPOSES ONLY. THE ATTENTION OF THE CONTRACTOR IS CALLED TO THE FACT THAT WHILE THESE DRAWINGS ARE GENERALLY TO SCALE AND MARKED AS ACCURATELY AS THE SCALE WILL PERMIT, ALL IMPORTANT DIMENSIONS SHALL BE DETERMINED IN THE FIELD. THEY ARE NOT TO BE CONSIDERED AS DRAWING DIMENSIONS. THEY DO NOT INDICATE EVERY FITTING, ELBOW, OFFSET, PULL BOX, ETC. WHICH IS REQUIRED TO COMPLETE THE JOB. CONTRACTOR SHALL PREPARE FIELD ERECTION DRAWINGS AS REQUIRED FOR THE USE OF HIS MECHANICS TO INSURE PROPER INSTALLATION.
- ELECTRICAL WIRING SHALL BE MIN. NO. 12 THIN AWG COPPER MINIMUM UNLESS OTHERWISE NOTED.
- ELECTRICAL CONTRACTOR SHALL FURNISH RECORD SET OF DRAWINGS WITH ANY DEVIATIONS MARKED IN RED INK.
- FOR LOCATION OF ALL MECHANICAL EQUIPMENT - SEE MECHANICAL AND PLUMBING PLANS.
- WHERE EXISTING CIRCUITS TO REMAIN ARE INTERRUPTED DUE TO NEW CONSTRUCTION, CONDUIT AND WIRE SHALL BE EXTENDED RE-ENERGIZED.
- CONTRACTOR'S PRE-BID SITE VISITS SHALL VERIFY ALL EXISTING CONDITIONS AND HE SHALL BE RESPONSIBLE FOR THE INCLUSION OF ALL REQUIRED DEMOLITION IN AREAS UNDERGOING MODIFICATION WHETHER SUCH WORK IS OR IS NOT INDICATED ON THE PLANS.
- ALL REFERENCES TO EXISTING CONDITIONS WERE TAKEN FROM AVAILABLE AS-BUILT DRAWINGS. THE CONTRACTOR SHALL VERIFY THE ACTUAL CONDITIONS BEFORE SUBMITTING BID AND NOTIFY THE ARCHITECT IF EXISTING CONDITIONS PREVENT THE INSTALLATION OF THE PLANNED ELECTRICAL SYSTEM AS SHOWN ON THESE DRAWINGS.
- PROVIDE LEXAN PLATES ON ALL DEVICES AND OUTLETS, STAINLESS STEEL ON STAINLESS STEEL WALLS, COORD COLOR WITH ARCHITECT AS REQUIRED.
- CONTRACTOR SHALL GUARANTEE ALL WORK FOR WHICH MATERIALS ARE FURNISHED, FABRICATED OR FIELD ERECTED, ALL FACTORY ASSEMBLED EQUIPMENT FOR WHICH NO SPECIFIC MANUFACTURER'S GUARANTEE IS FURNISHED, AND ALL WORK IN CONNECTION WITH INSTALLING MANUFACTURER'S GUARANTEED EQUIPMENT. THIS PERSONAL GUARANTEE SHALL EXIST FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK AND SHALL APPLY TO DEFECTS IN MATERIAL AND TO DEFECTIVE WORKMANSHIP OF ANY KIND.
- THE ELECTRICAL CONTRACTOR SHALL DO ALL CUTTING REQUIRED FOR THE ELECTRICAL INSTALLATION UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR SUBJECT TO THE DIRECTION AND APPROVAL OF THE OWNER'S REPRESENTATIVE. DO NOT ENDANGER THE STABILITY OF THE STRUCTURE OR ANY PART THEREOF BY CUTTING, BURNING, DIGGING OR OTHERWISE.
- THIS CONTRACTOR SHALL EXTEND WIRING TO ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AND MAKE FINAL AND COMPLETE CONNECTIONS TO SAME. BEFORE "ROUGHING-IN" OUTLETS, THE LOCATION AND TYPE SHALL BE KEPT OPEN AND NOT COVERED BY ANY PART OF THE EQUIPMENT. DO NOT RUN ANY CONDUIT EXPOSED. PROVIDE A SEPARATE GROUND WIRE AND CONNECTION FOR EACH PIECE OF EQUIPMENT. ALL APPLIANCES SHALL BE PROVIDED WITH A MEANS OF DISCONNECT, EITHER A RECEPTACLE AND PLUG, DISCONNECT SWITCH OR C/B IN PANELBOARD WHERE WITHIN SIGHT.
- WHERE JUNCTION BOXES ARE REQUIRED TO BE INSTALLED ABOVE NON-ACCESSIBLE CEILING, THE ELECTRICAL CONTRACTOR SHALL FURNISH ACCESS PANELS TO THE CEILING CONTRACTOR FOR INSTALLATION.
- ALL WIRING AND EQUIPMENT FOR RACEWAYS OF DIFFERENT TEMPERATURES SHALL COMPLY WITH ARTICLE 300-7 OF THE N.E.C.
- ALL ELECTRICAL EQUIPMENT SHALL BE UNDERWRITER'S LABORATORY (UL) LISTED AND LABELED FOR THE QUALIFIED USE AND INSTALLED PER ARTICLE 110-3(B) OF THE N.E.C.
- ALL FIXTURES INSTALLED IN RECESSED CAVITIES IN WALLS OR CEILING SHALL COMPLY WITH ARTICLE 410-16 AND 410-65 THROUGH 410-72 OF THE N.E.C.
- ALL WIRING AND EQUIPMENT FOR EMERGENCY SYSTEM SHALL COMPLY WITH ARTICLE 700 OF THE N.E.C. AND SECTIONS 823 AND 824 OF THE B.O.C.A.
- ALL WIRING SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE MINIMUM 3/4" ELECTRICAL METALLIC TUBING (EMT) WITH WATERTIGHT COMPRESSION FITTINGS. CONDUIT SHALL BE MOUNTED WITH ONE (1) HOLE STEEL STRAPS ON FLAT SURFACES AND WHERE SUSPENDED, USE ALL-THREAD ROD. ALL CONDUIT SUPPORTS SHALL BE SPACED 18" FROM FITTING, ELBOW OR OUTLET BOX AND 8"-0" O.C. IN STRAIGHT RUNS. WHERE PERMITTED BY THE LOCAL CODE ENFORCING AUTHORITIES, AND APPROVED BY THE OWNER'S REPRESENTATIVE, (UL) LISTED TYPE (MC) WIRING MAY BE USED ABOVE HUNG CEILING AND IN VOIDS OF WALLS ONLY.
- WIRE AND CABLE SHALL BE AS MANUFACTURED BY ANACONDA, WALKER, GENERAL CABLE, GENERAL ELECTRIC OR SIMPLEX AND SHALL BE COPPER, MINIMUM CONDUCTIVITY OF 98%.
- FEEDERS AND/OR BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE XHHW, THW OR THWN, #12 MINIMUM. WIRE AND CABLE #12 AND #10 SHALL BE SOLID AND #8 AND LARGER SHALL BE STRANDED.
- PROVIDE AN INSULATED GREEN GROUNDING WIRE IN THE SAME CONDUIT AS THE BRANCH CIRCUIT OR FEEDER WIRING AND FOR ALL THREE (3) PHASES AND/OR SINGLE PHASE, 120 AND 208 VOLT BRANCH CIRCUITS AND FOR ALL FEEDERS, SHOWN OR NOT SHOWN.
- ALL PANELS, SWITCHES, STARTERS, CONTROL DEVICES AND MISCELLANEOUS ELECTRICAL APPARATUS SHALL BE CLEARLY MARKED FOR EASY IDENTIFICATION AND SAFETY. USE BLACK PLASTIC OR BAKELIGHT NAMEPLATE ENGRAVED WITH WHITE LETTERS 1/4" HIGH. PUNCHED TAPE IS NOT ACCEPTABLE. PROVIDE TYPEWRITTEN CIRCUIT DIRECTORIES ON SUITABLE CARDS TO FIT INTO THE HOLDERS IN THE PANELBOARD DOORS.
- WHERE JOB CONDITIONS REQUIRE MINOR DEVIATIONS FROM THE CONTRACT DOCUMENTS, MAKE SUCH DEVIATIONS WITHOUT ADDITIONAL COST TO THE OWNER. MAJOR DEVIATIONS SHALL NOT BE MADE WITHOUT FIRST OBTAINING WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVE.
- EXAMINE OTHER SECTIONS OF THE SPECIFICATIONS AND DRAWINGS AS MAY BE NECESSARY TO BECOME FAMILIAR WITH ALL CONDITIONS AFFECTING THIS WORK.
- BRING ANY DISCREPANCIES DETERMINED OR OMISSIONS FOUND IN THE DRAWINGS AND SPECIFICATIONS TO THE OWNER'S REPRESENTATIVE'S ATTENTION BEFORE SUBMITTING THE BIDS. AFTER AWARD OF CONTRACT, THE INTERPRETATION OF ANY CONFLICT WILL BE MADE BY THE OWNER'S REPRESENTATIVE.
- ANYTHING DRAWN OR SPECIFIED SHALL NOT BE CONSIDERED TO CONFLICT WITH ANY LOCAL, MUNICIPAL OR STATE LAW, REGULATION OR ORDINANCE WHICH GOVERNS THE INSTALLATION OF ANY ELECTRICAL OR RELATED WORK. ITEMS SHALL NOT BE INSTALLED IN CONFLICT WITH THE NATIONAL ELECTRICAL CODE. RESOLVE ANY AND ALL CONFLICTS BEFORE INSTALLATION AT NO ADDITIONAL EXPENSE TO THE OWNER.
- REFERENCE TO CATALOGS, STANDARDS, CODES, SPECIFICATIONS, RECOMMENDATIONS, ETC. MEANS LATEST EDITION OF SUCH PUBLICATIONS IN EFFECT AT DATE OF INVITATION TO SUBMIT PROPOSAL.
- WHERE OUTLETS (POWER, TELEPHONE AND COMPUTER) ARE INDICATED ALONG EXTERIOR WALLS, CONTRACTOR SHALL FISH CABLES DOWN IN FURRED SPACES WHERE APPLICABLE TO AVOID DISTURBING EXISTING WALLS.
- REFER TO ARCH DRAWINGS FOR ADDITIONAL TEL/ELEC/LIGHTING NOTES AND REQUIREMENTS.
- PROVIDE SINGLE GANG PLASTER RING AND A 1/8" DIAMETER NYLON PULL ROPE TO ACCESSIBLE CEILING SPACE FROM ALL NEW TELEPHONE AND/OR DATA OUTLETS.
- TYPE BX CABLE IS NOT ALLOWED. A MAXIMUM OF 6 FEET OF TYPE MC CABLE MAY BE USED IN THE CEILING FOR CONNECTIONS OF RECESSED LIGHTING FIXTURES, AS APPROVED BY LOCAL CODE.
- REFER TO ARCHITECTURAL AND KITCHEN DRAWINGS FOR EXACT LOCATION OF RECEPTACLES, AND LIGHTING FIXTURES, ETC.
- ALL WIRE, CABLE AND EQUIPMENT INSTALLED IN PLENUM CEILING (RETURN AND SUPPLY) SHALL BE PLENUM RATED AND CONFORM TO UL 910 AND SHALL BEAR THE LABEL OF AN APPROVED AGENCY.
- A LICENSED QUALIFIED ELECTRICIAN SHALL BE ON THE JOB SITE AT ALL TIMES DURING THE EXECUTION OF ANY ELECTRICAL WORK.
- EXCEPT AS OTHERWISE NOTED, ALL EXISTING ELECTRICAL WORK WHICH WILL NOT BE RENDERED OBSOLETE, AND WHICH MAY BE DISTURBED DUE TO ANY CHANGES REQUIRED UNDER THIS CONTRACT SHALL BE RESTORED TO ITS ORIGINAL OPERATING CONDITION.

GENERAL POWER NOTES:

NOTE: COORDINATE ALL RECEPTACLE TYPES, MOUNTING HEIGHTS, EQUIPMENT LOADS, ETC W/ ARCHITECT AND KITCHEN EQUIPMENT SUPPLIER BEFORE ROUGH IN

- PROVIDE AND INSTALL ALL HVAC EQUIPMENT OVERCURRENT PROTECTIVE DEVICES AS REQUIRED. FUSE OR CIRCUIT BREAKER SIZES ARE TO BE AS PER MANUFACTURER'S REQUIREMENTS, COORDINATE WITH EQUIPMENT, DO NOT CHANGE SIZE OF PROTECTIVE DEVICE.
- LOCATE ALL HVAC EQUIPMENT DISCONNECT/ SAFETY SWITCHES AS PER N.E.C. AND SO AS TO NOT INTERFERE WITH AND/OR OBSTRUCT NORMAL DAY TO DAY OPERATION OR UNSCHEDULED MAINTENANCE.
- ALL 15A AND 20A, 125V RECEPTACLES LOCATED IN BATHROOMS, ROOFTOPS, AND KITCHEN IN COMMERCIAL/ INDUSTRIAL FACILITIES TO BE "GFCI" PROTECTED IN COMPLIANCE WITH N.E.C.
- ENSURE THAT ELECTRICAL DEVICES ARE CENTERED ON PARTITIONS AND/ OR PANELS WHERE INDICATED ON ARCHITECTURAL PLANS.
- COORDINATE WITH THE ARCHITECTURAL PLANS FOR ALL DEVICE MOUNTING HEIGHTS, IF THE ARCHITECTURAL PLANS INDICATE MORE DEVICES THAT ARE INDICATED ON THE ENGINEER'S PLANS, CONTRACTOR SHALL INCLUDE THESE DEVICES IN THE BID.
- COORDINATE ALL SPECIAL 'NEMA' RATED RECEPTACLES WITH THE OWNER'S REPRESENTATIVE FOR FINAL POWER REQUIREMENTS, CORRECT ELECTRICAL CONNECTION, 'NEMA' RECEPTACLE RATING AND FINAL LOCATION PRIOR TO ROUGH IN.
- ARCHITECT TO SELECT ALL DEVICE AND COVERPLATE FINISHES.
- PROVIDE AND INSTALL AS PER OWNER REQUIREMENTS ALL LABELING INDICATING THE SUPPLYING BRANCH CIRCUIT DETAILS ON ALL RECEPTACLES AND DATA PLATES. LABELING TO CONSIST OF A MINIMUM OF CLEAR TAPE WITH BLACK LETTERS.
- INSTALL ALL RECEPTACLES WITH GROUND PRONG ORIENTED AT THE TOP OR TO THE RIGHT OF RECEPTACLE TO PREVENT ACCIDENTAL CONTACT BETWEEN THE LIVE TO NEUTRAL CONTACTS.
- PROVIDE AND INSTALL A NYLON PULL STRING INSIDE ALL EMPTY CONDUITS. TWO (2) STRINGS FOR TELE/DATA OUTLETS.
- THE CONTRACTOR SHALL LAYOUT ALL WALL AND FLOOR MOUNTED ELECTRICAL DEVICES, INCLUDING, BUT NOT LIMITED TO: PANELBOARDS, TRANSFORMERS, FUSED SAFETY SWITCHES, RECEPTACLES, CONTROL DEVICES, POWER DEVICES, COMMUNICATIONS DEVICES, AUDIO DEVICES, FIRE ALARM AND SECURITY DEVICES, ETC... INDICATE ALL AFOREMENTIONED DEVICES ON THE SLAB, CEILING OR WALLS IN INDELEBIL MARKER SO THAT THE PROPOSED LOCATIONS CAN BE APPROVED BY THE ARCHITECT AND THE TENANT IN THE FIELD. DO NOT INSTALL ANY DEVICES UNTIL THEY ARE APPROVED IN WRITING BY THE TENANT, OWNER, AND LANDLORD.
- COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR ALL FINAL SECURITY AND AUDIO/VISUAL REQUIREMENTS, EQUIPMENT LOCATIONS AND MOUNTING HEIGHTS.
- PROVIDE ALLOWANCE FOR ALL REQUIRED CORE DRILLS, INCLUDING, BUT NOT LIMITED TO: X-RAY, LANDLORD APPROVED FIRE STOP MATERIAL, ETC.
- COORDINATE ALL FLOOR OUTLETS AND OR CONDUITS WITH THEIR RESPECTIVE TABLE LEGS AND WITH THE OWNER'S REPRESENTATIVE.
- FOR EVERY ELECTRICAL PANEL AFFECTED BY THE NEW WORK, CONTRACTOR SHALL OBTAIN PEAK CURRENT READING OF EXISTING MAXIMUM DEMAND (MEASURE OF AVERAGE POWER DEMAND OVER A 15 MINUTE PERIOD) CONTINUOUSLY RECORDED OVER A MINIMUM 30 DAY PERIOD USING A RECORDING AMMETER OR POWER METER CONNECTED TO THE HIGHEST LOADED PHASE OF THE FEEDER OR SERVICES, BASED ON THE INITIAL LOADING AT THE START OF THE RECORDING MEASUREMENTS. AFTER COMPLETION OF ELECTRICAL WORK THE CONTRACTOR SHALL SUBMIT A REPORT OF THE FINDINGS TO THE OWNER AND ENGINEER. THE CONTRACTOR SHALL ENSURE THAT THE TOTAL LOAD OF NEW WORK AND EXISTING LOAD ON EACH BRANCH CIRCUIT DOES NOT EXCEED 80% OF THE CIRCUIT BREAKER SIZE, AND THAT ALL PANELS HAVE THE LOADS BALANCED BETWEEN PHASES. REFER TO THE N.E.C.
- COORDINATE ANY POWER SHUT DOWN AND CONDUIT PULL WITH LANDLORD.

JOB RESPONSIBILITY:

- PROVIDE ADEQUATE STORAGE FACILITIES FOR MATERIALS AND EQUIPMENT DURING THE PROGRESS OF THE WORK.
- BE RESPONSIBLE FOR THE CONDITION OF ALL MATERIAL AND EQUIPMENT EMPLOYED IN THE ELECTRICAL INSTALLATION UNTIL FINAL ACCEPTANCE BY THE OWNER. PROTECT SAME FROM ANY CAUSE WHATSOEVER.
- BE RESPONSIBLE FOR THE REPLACEMENT OF ALL DAMAGED OR DEFECTIVE MATERIALS OR EQUIPMENT. DO NOT INSTALL SENSITIVE OR DELICATE EQUIPMENT UNTIL MAJOR CONSTRUCTION WORK IS COMPLETED.
- OBSERVE AND CONFORM TO APPLICABLE SAFETY REGULATIONS, INCLUDING THOSE REQUIRED BY THE OWNER'S REPRESENTATIVE.
- ERECT AND MAINTAIN SUITABLE BARRIERS, PROTECTIVE DEVICES, LIGHTS AND WARNING SIGNS FOR THE PROTECTION OF OCCUPANTS, TRANSIENTS AND WORKMEN FROM DANGER DUE TO WORK PERFORMED BY THE ELECTRICAL CONTRACTOR.
- MAKE GOOD ANY DAMAGE TO THE WORK CAUSED BY FLOODS, STORMS, ACCIDENTS, ACTS OF GOD, ACTS OF NEGLIGENCE, STRIKES, VIOLENCE OR THEFT UP TO THE TIME OF FINAL ACCEPTANCE BY THE OWNER.
- BE RESPONSIBLE FOR ANY LOSS OR INJURY TO PERSONS OR PROPERTY RESULTING FROM NEGLIGENCE OR ANY OTHER CAUSES ON THE PART OF THE EMPLOYEES.
- DO NOT LEAVE ANY ELECTRICAL WORK IN A HAZARDOUS CONDITION, EVEN TEMPORARILY.
- ERECT, MAINTAIN AND FINALLY REMOVE ALL SCAFFOLDS, STAGING, FORMS, PLATFORMS AND LADDERS REQUIRED FOR THE ELECTRICAL INSTALLATION.
- DO NOT INSTALL WORK FOR WHICH AN EXTRA CHARGE IS TO BE MADE WITHOUT WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE AND THE OWNER. A WRITTEN REQUEST FOR EXTRA WORK SHALL STATE THE NATURE OF THE WORK, BY WHOM REQUESTED, AND THE PRICE TO BE CHARGED.

ISOLATED GROUND NOTES:

PROVIDE THE NUMBER OF CIRCUIT BREAKERS AS REQUIRED BY THE MANUFACTURER OF THE SERVED ITEM TO POWER THE ENTIRE SYSTEM.

THE CONDUIT USED FOR THE ISOLATED GROUND CIRCUIT SHALL NOT BE SHARED WITH ANY OTHER ELECTRICAL DEVICE.

THE GROUND CONDUCTOR SHALL BE A SINGLE INSULATED #10 SOLID WIRE. CONDUCTOR SHALL ORIGINATE AT THE GROUND BAR IN PANELBOARD AND RUN CONTINUOUS AND UNBROKEN THROUGHOUT THE SYSTEM. THE BUILDING NEUTRAL SHALL NOT BE USED. CONDUCTOR SHALL BE STRIPPED AND LOOPED AROUND EACH RECEPTACLE TO THE LAST RECEPTACLE ON THE CIRCUIT. WIRE NUT FASTENERS SHALL NOT BE USED ANYWHERE IN THE GROUND CIRCUIT. WIRING SHALL COMPLY WITH ARTICLE NO. 250-74 EXCEPTION 4 OF THE N.E.C.

THE NEUTRAL CONDUCTOR SHALL BE CONNECTED AS CLOSE AS POSSIBLE TO THE MAIN NEUTRAL FEEDER IN BRANCH CIRCUIT PANEL.

WALK-IN BOX NOTES:

- VERIFY POWER TO REFRIGERANT LIQUID LINE SOLENOID VALVE LOCATED AT THE EVAPORATOR COIL. IN ADDITION, VERIFY TWO-WIRE SWITCH LEG TO WALL THERMOSTAT LOCATED IN WALK-IN COOLER/FREEZER.
- VERIFY POWER WIRE FROM TIME CLOCK AT CONDENSING UNIT TO HEATING ELEMENT FOR DEFROST AT EVAPORATOR COIL.
- VERIFY ELECTRIC PIPE HEATING CABLE ON CONDENSATE DRAIN LINE
- VERIFY 120V POWER WIRE TO HEATER AT RELIEF VENT FOR FREEZERS ONLY.
- VERIFY ALL WIRING IN FREEZER AND COOLER ARE IN CONDUIT, ALL BOXES SHALL BE GASKETED CAST TYPE, AND FLEX RUNS SHALL BE PVC COVERED TYPE. ALL FITTINGS SHALL BE AS WATERTIGHT AS POSSIBLE.

HOOD FIRE PROTECTION NOTES:

ELECTRICAL CONTRACTOR SHALL PROVIDE HOOD FIRE PROTECTION RELAYS FOR EACH HOOD CONTAINING FIRE PROTECTION. RELAYS SHALL PROVIDE THE FOLLOWING FUNCTIONS:

- START HOOD EXHAUST FAN
- STOP HOOD SUPPLY FAN (MAKE-UP)
- OPERATE SHUNT TRIP C/B'S AS DESIGNATED
- OPERATE GAS SOLENOID VALVE

RELAYS SHALL BE CONTROLLED BY THE HOOD FIRE PROTECTION ACTUATING SYSTEM. CONTRACTOR SHALL INTERLOCK HOOD EXHAUST FANS WITH MAKE-UP FAN. SEE HOOD DRAWINGS FOR FIRE PROTECTION REQUIREMENTS.

HOOD FUEL SHUTOFF: 2006 MECHANICAL CODE 513.4 & 511.3 UPON ACTIVATION OF ANY FIRE EXTINGUISHING SYSTEM FOR A COOKING OPERATION, ALL SOURCES OF FUEL AND ELECTRIC POWER THAT PRODUCE HEAT TO ALL EQUIPMENT REQUIRING PROTECTION BY THAT SYSTEM AND MAKEUP AIR SUPPLY INTERNALLY TO A HOOD SHALL BE SHUT OFF AUTOMATICALLY.

MATERIALS NOTE:

ELECTRICAL MATERIAL AND EQUIPMENT LISTED APPROVAL NO ELECTRICAL MATERIALS, APPARATUS, DEVICES, APPLIANCES, FIXTURES, OR EQUIPMENT SHALL BE SOLD OR INSTALLED IN THE CITY UNLESS THEY ARE IN CONFORMANCE WITH THE PROVISIONS OF THIS CODE, THE LAWS OF THE STATE OF TEXAS AND ANY APPLICABLE RULES AND REGULATIONS ISSUED UNDER THE AUTHORITY OF THE STATE STATUTES. THE MAKER'S NAME, TRADEMARK, OR OTHER IDENTIFICATION SYMBOL SHALL BE PLACED ON ALL ELECTRICAL MATERIALS, APPARATUS, DEVICES, APPLIANCES, FIXTURES, AND EQUIPMENT USED OR INSTALLED UNDER THE PROVISIONS OF THIS CODE. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED AND LABELED FOR THE INTENDED USE AND SHALL BE INCLUDED IN A LIST PUBLISHED BY AN APPROVED AGENCY. SECTION 508 CITY OF HOUSTON ELECTRICAL CODE

DISCONNECT NOTE:

PROVIDE DISCONNECT(S) FOR EQUIPMENT RATED OVER 300VA, OR 1/BHP AS PER N.E.C. 2017 ARTICLE 422, PART 3

LOCATE IN CODE COMPLIANT SPACE, COORDINATE W/ EQUIPMENT MANUFACTURER FOR DISCONNECT SIZE.

PROVIDE FIELD INSTALLED CORD AND PLUG KIT AS REQUIRED IF AVAILABLE FOR EQUIPMENT BEING SERVED

PROVE LOCK-OFF CIRCUIT BREAKER IN PANEL WHERE PERMITTED BY AUTHORITY HAVING JURISDICTION

CONDENSOR NOTE:

COORDINATE WALK-IN COOLER CONNECTION PRIOR TO ROUGH-IN.

NOTE: REFER TO KITCHEN EQUIPMENT AND HOOD DRAWINGS FOR ALL REQUIREMENTS FOR EQUIPMENT & HOOD INSTALLATION AND ELECTRICAL CONNECTIONS.

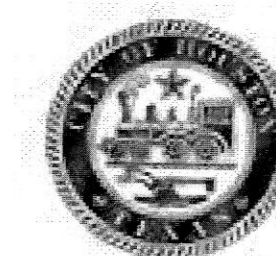
NOTE:

ALL ELECTRICAL 20A (125V) OUTLETS (REGARDLESS OF SYMBOL) SHALL COMPLY WITH NEC 210.8 WHICH WILL REQUIRE RESTROOMS, ROOFS, MECH. ROOMS AND WAREHOUSES TO BE GFCI PROTECTED. PROVIDE EITHER INDIVIDUAL GFCI DEVICES OR GFCI CIRCUIT BREAKERS.

IF OUTLETS ARE IN LOCATIONS NOT READILY ACCESSIBLE THEN THE CIRCUIT BREAKER SHALL BE GFCI & PROPERLY LABELED @ PANEL. ALSO SEE 2017 NEC 647.8(B), REFERENCING ISOLATED GRD. RECEPTS. (IF APPLICABLE)

COORDINATE ALL RECEPTACLE MOUNTING HEIGHTS, TYPE, AND EXACT LOCATIONS WITH KITCHEN EQUIPMENT SUPPLIER AND ARCHITECT BEFORE ROUGH-IN OR PURCHASE.

KITCHEN RECEPTACLES GFCI ARTICLE 210.8(B)(2) N.E.C. REQUIRES ALL 15 & 20 AMP, 125 VOLT RECEPTACLES IN KITCHENS TO BE GFCI PROTECTED. THIS REQUIREMENT APPLIES TO EACH AND EVERY 15 AND 20 AMP, 125 VOLT KITCHEN RECEPTACLE, WHETHER OR NOT THE RECEPTACLE SERVES COUNTER TOP APPLIANCES.



SYMBOLS

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REVIEWED FOR CONFORMANCE

PERFORMANCE OF THE CONTRACTOR DOES NOT RELIEVE THE CONTRACTOR FROM FULL RESPONSIBILITY TO COMPLY WITH ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS.

- ⊕ WALL MOUNTED RECESSED DUPLEX CLOCK TYPE RECEPTACLE - 2P, 3W, 20A, 125V, GROUND (HUBBELL #3922). COLOR OF DEVICE AND FACE PLATE SHALL BE AS SELECTED BY THE ARCHITECT. SEE FLOOR PLAN FOR MOUNTING HEIGHT.
- ⊕ WALL MOUNTED RECESSED DUPLEX RECEPTACLE - 2P, 3W, 20A, 125V, GROUND (HUBBELL #3922). COLOR OF DEVICE AND FACE PLATE SHALL BE AS SELECTED BY THE ARCHITECT. MOUNTING HEIGHT TO CENTERLINE ABOVE FINISHED FLOOR 18" ON.
- ⊕ WALL MOUNTED DOUBLE DUPLEX RECEPTACLE - 2P, 3W, 20A, 125V, GROUND (HUBBELL #3962). COLOR OF DEVICE AND FACE PLATE SHALL BE AS SELECTED BY THE ARCHITECT. MOUNTING HEIGHT TO CENTERLINE ABOVE FINISHED FLOOR 18" ON.
- ⊕ JUNCTION BOX - CEILING OR WALL MOUNTED
- ⊕ 125-VOLT, 15A, 3 WIRE ISOLATED GROUND TYPE RECEPTACLE IN FLUSH OUTLET BOX 18 INCHES ABOVE FINISHED FLOOR, OR AS NOTED. SEE GENERAL NOTE 31.
- ⊕ WALL MOUNTED DUPLEX RECEPTACLE - 2P, 3W, 20A, 125V, GROUND FAULT PROTECTION (NEMA 5-20R). COLOR OF DEVICE AND FACE PLATE SHALL BE AS SELECTED BY ARCHITECT. MOUNTING HEIGHT TO CENTERLINE 18" ABOVE FINISHED FLOOR.
- ⊕ CEILING MOUNTED DUPLEX RECEPTACLE AT SHOW WINDOW
- ⊕ TELEPHONE OUTLET BOX COVERPLATE 18 INCHES ABOVE FINISHED FLOOR, W/ 3/4" C. TO 6" ABOVE ACCESSIBLE CEILING.
- ⊕ TELEPHONE/DATA OUTLET W/ 3/4" C. TO 6" ABOVE ACCESSIBLE CEILING.
- ⊕ PANELBOARD - SEE SCHEDULE. MOUNTING HEIGHT TO CENTERLINE ABOVE FINISHED FLOOR 6'-0" TO TOP.
- ⊕ MOTOR CONNECTION - HORSEPOWER AS INDICATED, FRACTIONAL IF NOT NOTED.
- ⊕ DISCONNECT SWITCH - SEE DRAWING FOR VOLTAGE, POLES AND AMPERAGE RATING.
- ⊕ COMBINATION MOTOR STARTER AND DISCONNECT SWITCH. MOUNTING HEIGHT TO CENTERLINE ABOVE FINISHED FLOOR 5'-0" TO TOP.
- ⊕ HOMERUN TO PANELBOARD. NUMBER OF ARROWHEADS INDICATE NUMBER OF CIRCUITS, NUMERALS AND LETTERS ADJACENT TO ARROWHEADS INDICATE ASSIGNED PANEL AND CIRCUIT NUMBERS. SEE PANEL SCHEDULE FOR AMPERAGE RATING OF EACH CIRCUIT BREAKER AND CONDUCTOR SIZES.
- ⊕ CIRCUITRY INSTALLED CONCEALED IN WALL OR ABOVE CEILING. NUMBER OF Ticks INDICATE NUMBER OF CONDUCTORS. IF NO Ticks MARK - INDICATE 2 (TWO) CONDUCTORS IN RACEWAY. SEE PANEL SCHEDULE FOR CONDUCTOR SIZES. ALL LIGHTING AND CONVENIENCE OUTLETS SERVED BY 20A-1P CIRCUIT BREAKER SHALL BE SERVED WITH 2 #12 BX OR UNLESS OTHERWISE PER SPECIFICATION.
- ⊕ WHEN THIS SYMBOL IS UTILIZED IT INDICATES THAT THE PARTICULAR CIRCUIT SHALL BE EQUIPPED WITH GREEN GROUND CONDUCTOR FROM PANEL TO OUTLET OR OUTLETS. ISOLATED GROUND OUTLETS SHALL BE SERVED WITH 2 #12 + 1 #12 IG HOSPITAL GRADE BX (HGF) OR UNLESS OTHERWISE PER SPECIFICATION.
- ⊕ ALL CONVENIENCE OUTLET/OUTLETS SERVING EQUIPMENT SERVED BY 20A-1P CIRCUIT BREAKER SHALL BE SERVED WITH 2 #12 + 1 #12 G (MC CABLE AND/OR HGF CABLE IS PERMITTED) COORDINATE WITH LOCAL ELECTRICAL INSPECTOR PRIOR TO START OF ANY WORK.
- ⊕ HOOD FIRE SUPPRESSION SYSTEM STRIKE STATION
- ⊕ BUZZER
- ⊕ TRANSFORMER
- ⊕ HORSEPOWER RATED SINGLE POLE SWITCH, 20A, 120V
- ⊕ EQUIPMENT NUMBER
- ⊕ PASSIVE INFRARED LENS SWITCH ASVS12W4 (WITH 30 MIN DELAY SETTING)
- ⊕ CEILING MOUNTED VACANCY SENSOR FOR LIGHTING CONTROL WATT STOPPER CI-355 , (WITH 30 MIN. DELAY SETTING)
- ⊕ FRACTIONAL HORSE POWER
- ⊕ CONNECT CIRCUITS TOGETHER
- ⊕ CONNECT NEW TO EXISTING
- ⊕ WHEN THIS SYMBOL IS UTILIZED IT INDICATES THAT THE PARTICULAR CIRCUIT SHALL BE EQUIPPED WITH GREEN GROUND CONDUCTOR FROM PANEL TO OUTLET OR OUTLETS. ISOLATED GROUND OUTLETS SHALL BE SERVED WITH 2 #12 + 1 #12 IG HOSPITAL GRADE BX (HGF) OR UNLESS OTHERWISE PER SPECIFICATION.



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			<p>I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF TEXAS. PE. LICENSE #: 129510, EXPIRATION DATE: DECEMBER 31, 2018 FIRM LICENSE #: F19615, EXPIRATION DATE: MARCH 31, 2019</p>				