ELECTRICAL REQUIREMENTS

GENERAL NOTES:

A. ALL WORK INDICATED ON THE ELECTRICAL ROUGH-IN PLAN MUST BE COMPLETED BY OTHER THAN THE KITCHEN EQUIPMENT CONTRACTOR AND MUST COMPLY WITH ALL LOCAL CODES AND REGULATIONS.

B. A CATALOG OF MANUFACTURERS EQUIPMENT SPECIFICATION SHEETS IS INCLUDED AS AN INTEGRAL PORTION OF THIS SUBMITTAL, WE SUGGEST THEREFORE THAT ALL TRADES REVIEW THE REQUIREMENTS AS INDICATED REGARDING EACH MANUFACTURER.

C. CROSS REFERENCE ALL INFORMATION PER ROUGH-IN DRAWINGS WITH EQUIPMENT SCHEDULE DRAWINGS.

D. THE ELECTRICAL ROUGH-IN PLAN IS PROVIDED FOR INFORMATION ONLY, IS BASED ON A 60 HERTZ, UNLESS OTHERWISE NOTED. ELECTRICAL SYSTEM AND IS INTENDED TO SHOW FOOD SERVICE FIXTURES AND EQUIPMENT OUTLET TYPES, LOCATIONS, LOADS AND CONNECTION POSITIONS ONLY. FURNISH ANY ADDITIONAL OUTLETS AS REQUIRED BY LOCAL CODES OR REQUESTED BY OWNER. REFER TO ARCHITECTURAL OR ELECTRICAL ENGINEERING PLANS FOR ANY ADDITIONALELECTRICAL REQUIREMENTS.

E. REFER TO APPROVED SHOP DRAWINGS FOR SUPPLEMENTAL ELECTRICAL CONNECTIONS AND INSTALLATION REQUIREMENTS FOR THE FOOD SERVICE EQUIPMENT INDICATED ON THIS PLAN.

F. ELECTRICAL REQUIREMENTS FOR EXISTING AND OWNER OR PURVEYOR PROVIDED EQUIPMENT MUST BE VERIFIED WITH THE ACTUAL EQUIPMENT SUPPLIED. THESE PLANS ARE MINIMUM GUIDELINES ONLY AND MUST BE VERIFIED. CONTACT OWNER OR EQUIPMENT PROVIDER FOR LOCATION OR SPECIFICATIONS FOR THIS EQUIPMENT.

G. EXPOSED ELECTRICAL SERVICES STUBBED UP OUT OF THE FLOOR MUST BE PROTECTED AND INSTALLED IN A MANNER WHICH WILL PREVENT DAMAGE FROM WATER OR IF HIT BY PORTABLE KITCHEN EQUIPMENT, HEAVILY LOADED CARTS OR FLOOR CLEANING EQUIPMENT.

H. PRIOR TO THE INSTALLATION OF THE FOOD SERVICE EQUIPMENT, THE ELECTRICAL CONTRACTOR MUST CONFIRM THAT ELECTRICAL WIRING HAS BEEN PULLED THROUGH JUNCTION BOXES.

ELECTRICAL CONTRACTORS NOTES:

ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND FOR INSTALLING OF THE FOLLOWING, AND FOR MAKING ALL FINAL CONNECTIONS TO FOOD SERVICE EQUIPMENT AS SHOWN ON THIS PLAN UNLESS OTHERWISE NOTED.

A. ELECTRICAL CONTRACTORS SHALL FURNISH ALL LABOR AND MATERIALS TO MAKE ALL FINAL CONNECTIONS AND SHALL INCLUDE ALL ITEMS REQUIRED BY APPLICABLE LAWS.

B. ELECTRICAL CONTRACTORS TO CROSS REFERENCE ROUGH-IN DRAWINGS, STAINLESS STEEL FABRICATION, WALK-IN DRAWINGS, EXHAUST HOOD DRAWINGS AND MILLWORK DETAIL DRAWINGS.

C. ALL WIRING, WIRING CONDUITS, JUNCTION BOXES, ELECTRICAL OUTLETS, SWITCHES, COVER PLATES, PLUG MOLDING, ETC. AS SHOWN ON PLAN AND NOT PROVIDED BY OTHERS. RUN ALL OF THE ELECTRICAL SERVICE LINES IN WALLS OR CONCEALED WHEREVER POSSIBLE. ALL EXPOSED SERVICES, COMPONENTS AND CONNECTIONS TO BE VAPOR TIGHT.

D. ALL DISCONNECTS OR OTHER DEVICES AS REQUIRED BY LOCAL CODES. DO NOT LOCATE DISCONNECTS OR OTHER DEVICES (OTHER THAN JUNCTION BOX CONNECTIONS OR CORD AND PLUG RECEPTACLES) BEHIND COOKING EQUIPMENT OR BELOW EXHAUST HOOD ASSEMBLIES.

E. ALL SHUNT-TRIP CIRCUIT BREAKERS OR DISCONNECTS FOR FIRE SUPPRESSION SYSTEM SHUT-OFF OF ALL ELECTRICAL BELOW AND IN EXHAUST HOODS AND VENTILATORS, INTERWIRED WITH FIRE SUPPRESSION SYSTEM, AS REQUIRED BY N.F.P.A. STANDARDS AND ANY LOCAL CODES AND REGULATIONS.

F. ALL RECEPTACLES, OUTLETS AND CORD AND PLUG ASSEMBLIES TO BE NEMA SIZED, UL APPROVED AND RATED FOR THE SERVICE INDICATED ON THESE PLANS.

G. WALK-IN COOLER/FREEZER LOCATIONS SHOWN IN THIS PLAN:

1) ALL VAPOR PROOF LIGHT FIXTURES, AS REQUIRED BY KITCHEN EQUIPMENT CONTRACTOR.

2) ALL DISCONNECTS AND SWITCHES AT BLOWER COILS BY ELECTRICAL CONTRACTOR.

3) ALL VAPOR PROOF DUPLEX CONVENIENCE OUTLETS AS INDICATED BY ELECTRICAL CONTRACTOR.

4) ALL INTERCONNECTIONS FOR ELECTRICAL COMPONENTS IN THE COOLER/FREEZER COMPARTMENTS BY ELECTRICAL CONTRACTOR, INCLUDING CONTROL WIRING BETWEEN WALK-IN FREEZER COIL AND REMOTE CONDENSER TO ACCOMMODATE DEFROST CYCLE TIMER.

5) ALL INTERCONNECTIONS FOR FREEZER EVAPORATORS AND COMPRESSORS, INCLUDING HEAT TAPE, VERIFY EXACT WIRE SIZES WITH MANUFACTURERS SPECIFICATIONS, BY ELECTRICAL CONTRACTOR.

H. ALL WIRING CONDUITS INTO WALK-IN COOLER/FREEZER COMPARTMENTS FOR THE FOLLOWING BY ELECTRICAL CONTRACTOR:

1) EACH EVAPORATOR COIL.

2) EACH VAPOR PROOF CEILING LIGHT.

3) EACH PERSONNEL ALARM SWITCH AND LIGHT.

4) EACH HIGH TEMPERATURE WARNING ALARM SYSTEM.

J. ALL PENETRATIONS FOR THE REQUIRED SERVICES MUST BE MADE THROUGH THE CEILING INSULATION AND ARE REQUIRED TO BE VAPOR TIGHT. ALL CONDUITS TO RUN ABOVE THE WALK-IN COMPARTMENTS.

K. ALL COMPRESSOR LOADS SHALL BE SIZED FOR APPROXIMATELY 3500 WATTS PER HORSEPOWER, OR PER NATIONAL ELECTRICAL CODE. VERIFY REQUIREMENTS WITH MANUFACTURERS NAME PLATE DATA.

ELECTRICAL REQUIREMENTS

M. ALL WIRING TO AND INTERWIRING BETWEEN THE FOLLOWING:

1) EXHAUST HOOD/VENTILATOR COMPARTMENTS.

2) ELECTRICIAN TO SIZE AND SUPPLY STARTER MOTORS FOR EXHAUST HOOD FANS.

3) ELECTRICAL SERVICES TO CONTROL PANELS. EXACT REQUIREMENTS FOR THE NUMBER OF WIRES AND ELECTRICAL SERVICE MUST BE VERIFIED WITH THE APPROVED SHOP DRAWINGS AND COMPLY WITH LOCAL CODES AND REGULATIONS BY ELECTRICAL CONTRATOR.

4) CONTROL WIRING FROM CONTROL PANEL TO EACH HOOD SECTION FOR DAMPERS, SOLENOIDS AND LIGHTS BY ELECTRICAL CONTRATOR.

5) CONTROL WIRING FROM CONTROL PANEL TO EXHAUST AND SUPPLY FANS. THESE FANS SHALL BE ELECTRICALLY INTERLOCKED BY ELECTRICAL CONTRACTOR.

6) FIRE SYSTEMS CONTROL INTERWIRING BETWEEN FIRE SUPPRESSION SYSTEMS, CONTROL PANELS AND REMOTE SHUT-OFFS BY ELECTRICAL CONTRACTOR.

7) CONTROL WIRING FROM CONTROL PANEL TO EACH REMOTE DETERGENT PUMP AS APPLICABLE BY ELECTRICAL CONTRACTOR.

N. ALL REQUIRED MATERIALS TO MAKE FINAL CONNECTIONS TO ALL FOOD SERVICE EQUIPMENT SHOWN ON THIS PLAN BY ELECTRICAL CONTRACTOR.

P. AVOID LOCATING ELECTRICAL PANELS BEHIND FOOD SERVICE EQUIPMENT. REFER TO EQUIPMENT PLANS FOR THE LOCATIONS OF EQUIPMENT THAT DOES NOT APPEAR ON THIS ELECTRICAL ROUGH-IN PLAN

Q. AN ISOLATED CIRCUIT WITH A CLEAN EARTH GROUND FOR ALL OWNER PROVIDED POINT-OF-SALE EQUIPMENT, CREDIT CARD SCANNERS AND VALIDATION MACHINES. VERIFY ELECTRICAL REQUIREMENTS WITH THE OWNER AND EQUIPMENT, BY ELECTRICAL CONTRACTOR.

R. INTERCONNECT WASTE PULPER CONTROL PANEL WITH THE PULPER, EXTRACTOR AND REMOTE STOP-START STATIONS, AS PER MANUFACTURERS SPECIFICATIONS, BY ELECTRICAL CONTRACTOR.

GENERAL ELECTRICAL NOTES

(THESE NOTES SUPPLEMENT THE MASTER SPECIFICATIONS AND ARE RELATED TO WORK SURROUNDING FOOD SERVICE.)

A. DEFINITION: THE WORD "PROVIDE" MEANS: FURNISH, INSTALL FEED, CONNECT WITH ALL ACCESSORIES AND ANCILLARY EQUIPMENT FOR A COMPLETE OPERATING INSTALLATION BY THE APPROPRIATE TRADE, AS NOTED.

B. CODES: WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.

C. COMPLETE INSTALLATION: ELECTRICAL CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, ACCESSORIES, ETC. NECESSARY TO ACCOMPLISH A COMPLETE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS PERFORMED BY APPLICABLE TRADES.

D. GROUNDING: ELECTRICAL CONTRACTOR TO GROUND ALL EQUIPMENT AND SYSTEM NEUTRALS IN ACCORDANCE WITH THE CODE. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTOR IN ALL FEEDERS AND BRANCH CIRCUIT RACEWAYS. WHERE ISOLATED GROUNDS ARE INDICATED, PROVIDE INSULATED CONDUCTOR.

E. CIRCUITING: ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CIRCUITING IN CONDUIT. EMT WITH STEEL INSULATED THROAT SET-SCREW FITTINGS MAY BE USED IN DRY INTERIOR LOCATIONS. PVC WITH WRAPPED RIGID ELBOWS AND RISERS SHALL BE USED IN CONCRETE AND BELOW GRADE. RGS OR IMC CIRCUITING SHALL BE CONCEALED. WHERE CONCEALMENT IS IMPRACTICAL, AND WITH THE SPECIFIC APPROVAL OF THE ENGINEER, SURFACE RACEWAY AND OUTLETS MAY BE INSTALLED, FINISHED TO MATCH ADJACENT SURFACES. METAL-CLAD CABLE (TYPE MC) MAY BE USED PER THE FOLLOWING:

1) LIMITED SINGLE-CIRCUIT, DEAD-END FEEDS IN DRY LOCATIONS, WITHIN ACCESSIBLE ATTIC SPACES.

2) FLEXIBLE "WHIPS" FROM JUNCTION BOXES TO RECESSED AND SUSPENDED LIGHTING FIXTURES.

3) CIRCUITING WITHIN CASEWORK AND OTHER "TIGHT" CONDITIONS.

4) WHERE APPROVED FOR INSTALLATION, TYPE MC CABLE SHALL BE SUPPORTED VERTICALLY 5' O.C., HORIZONTALLY 3' O.C., AND WITHIN 12" OF OUTLET JUNCTION BOXES.

5) PLASTIC BUSHINGS SHALL BE INSTALLED AT ALL TERMINATIONS.

F. WIRING: ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRE IN COPPER, STRANDED IN SIZES #8 AWG AND LARGER. INSULATION SHALL BE TYPE THW, THWN OR THHN.

G. EXISTING CONDITIONS: ELECTRICAL AND FOOD SERVICE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIARIZED WITH ALL EXISTING AND PROPOSED CONDITIONS WHICH MAY AFFECT THE COURSE OF HIS WORK PRIOR TO SUBMITTING A BID ON THIS PROJECT. NO EXTRAS WILL BE ALLOWED FOR FAILURE TO COMPLY WITH THIS REQUIREMENT.

H. PERMITS: ELECTRICAL CONTRACTOR SHALL OBTAIN FOR ALL BUILDING AND WORKING PERMITS AND INSPECTION FEES FOR THIS PROJECT, AS APPLICABLE TO SPECIFIC TRADE.

J. UTILITY SERVICES: ELECTRICAL CONTRACTOR SHALL PROVIDE POWER AND COMMUNICATIONS SYSTEM SERVICES IN ACCORDANCE WITH THE REQUIREMENTS OF THE SERVING UTILITIES. PROVIDE EXCAVATION, RACEWAY, STRUCTURE, GROUNDING, ETC. AS DIRECTED. POWER SERVICES AND DISTRIBUTION SYSTEM AIC RATING SHALL EXCEED MAXIMUM AVAILABLE FAULT CURRENT THROUGH UTILITY SERVICE TRANSFORMER. CONTACT SERVIING UTILITIES AND OBTAIN THEIR REQUIREMENTS PRIOR TO BID. (UTILITY SERVICE AND LINE EXTENSION CHARGES PAID BY OTHERS).

GENERAL ELECTRICAL NOTES

(CONTINUED)

K. FIRE STOPPING: ELECTRICAL CONTRACTOR SHALL PROVIDE FIRE STOPPING AT ALL PENETRATIONS OF FIRE-RATED ASSEMBLIES. FIRE STOP ASSEMBLIES SHALL BE UL LISTED AND APPROVED BY CODE ENFORCING AUTHORITIES BY APPROPRIATE TRADES.

M. FUSES AND CIRCUIT BREAKERS: FUSES AND CIRCUIT BREAKERS SHALL BE SIZED PER ACTUAL NAMEPLATE OF EQUIPMENT SERVED. CIRCUIT BREAKERS SHALL BE RATED FOR THEIR RESPECTIVE APPLICATION (MOTOR CIRCUIT PROTECTOR, GROUND FAULT CIRCUIT INTERRUPTER, ARC FAULT CIRCUIT INTERRUPTER, ETC.). FUSES SHALL BE DUAL-ELEMENT CURRENT-LIMITING, AND SHALL BE INTERCHANGEABLE BETWEEN FRAME SIZES WITH STANDARD FACTORY FUSE REDUCERS.

N. EQUIPMENT STANDARDS: ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF THE HIGHEST QUALITY AVAILABLE ("SPECIFICATION GRADE"). LIGHTING FIXTURES SHALL HAVE ELECTRONIC BALLASTS AND ACRYLIC LENSES. FOOD SERVICE EQUIPMENT SHALL BE FACTORY-ASSEMBLED COMMERCIAL-GRADE, CONFIGURED PER SERVING UTILITY STANDARDS.

P. GUARANTEE: THE ELECTRICAL CONTRACTOR SHALL GUARANTEE THE COMPLETE ELECTRICAL SYSTEM, AND ALL PORTIONS THEREOF, SHALL BE GUARANTEED TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. PROMPTLY REMEDY SUCH DEFECTS AND ANY SUBSEQUENT DAMAGE CAUSED BY THE DEFECTS OR REPAIR THEREOF AT NO EXPENSE TO THE OWNER. LIGHT BULBS ARE EXEMPT FROM THIS GUARANTEE, BUT SHALL BE NEW AND UNUSED AT THE TIME OF FINAL ACCEPTANCE.

Q. SUBMITTALS: SUBMIT COPIES AS REQUIRED, OF FACTORY SHOP DRAWINGS FOR ALL LIGHTING FIXTURES, SWITCHGEAR, PANELS, MOTOR CONTROL, WIRING DEVICES, ETC. PROPOSED FOR THIS PROJECT. PROPOSED ALTERNATES SHALL BE EQUAL OR SUPERIOR TO SPECIFIED ITEMS IN ALL RESPECTS. DETERMINATION OF EQUALITY RESTS SOLELY WITH ELECTRICAL ENGINEER.

R. LOCATIONS: INDICATED LOCATIONS OF ALL OUTLETS AND EQUIPMENT ARE SUBJECT TO CHANGE. SHIFT/RELOCATE/RECONFIGURE ANY OUTLET, EQUIPMENT OR CONNECTION POINT UP TO 10' AS DIRECTED BY ELECTRICAL ENGINEER, AT NO ADDED COST.

S. IDENTIFICATION: ELECTRICAL CONTRACTOR SHALL IDENTIFY ALL EQUIPMENT, SWITCHBOARD CIRCUITS AND ELECTRICALLY-CONNECTED EQUIPMENT WITH ENGRAVED NAMEPLATES. NAMEPLATES SHALL BE FASTENED WITH A MINIMUM OF TWO (2) SCREWS. PANEL DIRECTORIES SHALL BE TYPED.

T. PANELBOARDS: PANELS SHALL HAVE FLUSH MONO-FLAT TRIM, PIANO HINGED DOORS AND COVER (DOOR IN DOOR) WITH LOCKABLE MASTER-KEYED FLUSH CATCHES AND BOLT-ON CIRCUIT BREAKERS. FLUSH MOUNTED PANELS SHALL HAVE EMPTY CONDUITS STUBBED TO ACCESSIBLE SPACE:

(1) 1" CONDUIT FOR EACH (4) SPARE/SPACE CIRCUITS.

U. TAMPER-PROOF: ALL EQUIPMENT AND CIRCUITING ACCESSIBLE BY THE PUBLIC SHALL BE DEMONSTRATED TO BE TAMPER-PROOF AND VANDAL RESISTANT. OPENABLE DEVICES AND EQUIPMENT SHALL BE PADLOCKABLE.

V. SUPPORTS AND HANGERS: SUPPORT AND ALIGN ALL RACEWAYS, CABINETS, BOXES, BACK-BOXES, FIXTURES AND EQUIPMENT FROM STRUCTURE. SECURE ALL SUPPORTING METHODS BY MEANS OF TOGGLE BOLTS IN HOLLOW MASONRY, EXPANSION BOLTS IN SOLID MASONRY, CONCRETE PRESET INSERTS OR EXPANSION BOLTS IN CONCRETE, MACHINE SCREWS OR BOLTS ON METAL SURFACES, AND WOOD SCREWS ON WOOD CONSTRUCTION. ALL SUPPORTING SYSTEMS AND COMPONENTS SHALL BE RATED FOR FIVE (5) TIMES THE ACTUAL LOAD.

W. ADDITIONAL SYSTEMS AND EQUIPMENT CONNECTIONS: IN ADDITION TO EQUIPMENT POWER FEEDERS AND CONNECTIONS INDICATED ON THE ELECTRICAL DRAWINGS, PROVIDE 120V CONTROL POWER CONNECTIONS TO SMOKE/FIRE DAMPERS, VAV BOXES, TEMPERATURE CONTROL PANELS, DOOR-HOLDING/LATCHING DEVICES, ETC., AS INDICATED IN THE MECHANICAL DRAWINGS AND SPECIFICATIONS.

ITEM CIRCUT	POWER SOURCE	NO. PER
FIRE/SMOKE DAMPER	EMERGENCY	5
VAV TERMINAL (NO FAN)	NORMAL	7
TEMP CONTROL PANEL	EMERGENCY	1
DOOR HOLDING/LATCHING	DEVICE	4

X. 24-HOUR OPERATION: IF APPLICABLE, CONDUCT WORK TO MINIMIZE DISRUPTION OF OWNER'S ONGOING 24-HOUR OPERATIONS. PROVIDE BARRICADES, NOISE ABATEMENT AND DUST CONTAINMENT MEASURES TO ENSURE THE SAFETY AND COMFORT OF PATRONS, STAFF AND WORKERS. INTERRUPTIONS OF EXISTING POWER , COMMUNICATIONS OR FIRE ALARM SYSTEMS SHALL BE MOMENTARY IN NATURE, EACH SUCH OUTAGE (OR OPERATION WHICH MAY POSE RISK OF AN ACCIDENTAL OUTAGE) SHALL BE SCHEDULED 48 HOURS IN ADVANCE.

FOOD SERVICE ELECTRICAL SYSTEM NOTES

1. THESE DRAWINGS INDICATE ELECTRICAL FEEDS ONLY TO FOOD SERVICE EQUIPMENT AND SYSTEMS. SEE KITCHEN DRAWINGS (FS-SERIES) PREPARED BY THE FOOD SERVICE CONSULTANT FOR EXPLANATIONS OF LOADS, SYMBOLS MOUNTING HEIGHTS, ETC. - AND FOR ADDITIONAL ELECTRICAL REQUIREMENTS NOT INDICATED ON THESE DRAWINGS, INCLUDING:

   EXTENSIONS TO EQUIPMENT FROM OUTLET BOXES, SPECIALTY RECEPTACLES, CORD SETS, MULTIPLE CONNECTIONS FROM SINGLE OUTLETS, POWER AND CONTROL INTERCONNECTIONS FROM COMPRESSOR RACK TO FIELD EQUIPMENT AND MISCELLANEOUS POWER AND CONTROL INTERCONNECTIONS.

2. SEE OVERALL FOOD SERVICE DRAWINGS FOR DESCRIPTIONS OF EQUIPMENT AND SYSTEMS.

3. ALL CONDUIT STUB-UPS, AS INDICATED ON THE KITCHEN EQUIPMENT DRAWINGS, SHALL BE ROUTED BELOW FINISHED FLOOR, 3/4" MIN, UNLESS OTHERWISE NOTED AS LARGER.

4. ALL RECEPTACLES WITHIN 6FT OF SINKS OR WATER USE AREAS SHALL BE 'GFCI' TYPE.

5. ALL DEVICE COVER PLATES SHALL BE STAINLESS STEEL.

6. PROVIDE "TAYMAC" #S1/2G SERIES WEATHERPROOF RECESSED RECEPTACLE COVERS FOR ALL ABOVE COUNTER RECEPTACLES IN BAR AND SINK AREAS.

7. FINAL CONNECTION TO ALL KITCHEN EQUIPMENT SHALL BE MADE WITH 'SEAL-TITE' FLEXIBLE CONDUIT.

8. PROVIDE MOISTURE PROOF SEAL OFF FOR ALL CONDUITS ENTERING/LEAVING COOLER AND FREEZER BOXES. ASSEMBLE, INSTALL AND LAMP, LIGHTING FIXTURES AND WIRING DEVICES PROVIDED WITH COOLERS AND FREEZERS. PROVIDE COMPLETE INTERNAL CIRCUITING AND CONNECTIONS.

9. PROVIDE POWER INTERCONNECTION BETWEEN FREEZER FAN COILS, DEFROST HEATERS AND COMPRESSOR RACKS. MINIMUM CIRCUITING = 5 #12, 1"C. CONFIRM REQUIREMENTS PRIOR TO ROUGH-IN.

10. ALL EQUIPMENT LOCATED BELOW EXHAUST HOODS WITHIN FOOD PREPARATION AREAS SHALL BE SERVED BY SHUNT-TRIP TYPE CIRCUIT BREAKERS INTERLOCKED WITH THE HOOD FIRE SUPPRESSION SYSTEM. UPON ACTIVATION OF THE FIRE SYSTEM, THE SHUNT-TRIP CIRCUIT BREAKERS SHALL TRIP TO THE 'OFF' POSITION.

11. KITCHEN HOOD EXHAUST FANS AND MAKE-UP AIR UNITS SHALL BE INTERLOCKED AND THE CONTROL CIRCUITS SHALL BE ROUTED THROUGH DRY CONTACTS PROVIDED IN THE FIRE PROTECTION SYSTEM. PROVIDE ADDITIONAL RELAYS AS REQUIRED.

12. PROVIDE 120V SERVICE AND CONNECTIONS TO GAS SOLENOID VALVES. INTERCONNECT WITH HOOD CONTROL AND FIRE SUPPRESSION SYSTEMS.

13. SUPPLEMENTAL TASK LIGHTING: PROVIDE (15) 24" LONG LOCAL AND UNDERCOUNTER TASK LIGHTS, COMPLETE WITH LAMPS, INTEGRAL SWITCH, CORD SET AND/OR LOCAL OUTLET AS REQUIRED. "ALKCO" # SF300 SERIES. LOCATE AS DIRECTED FOR SUPPLEMENTAL TASK LIGHTING, OR AS REQUIRED TO PROVIDE 50 FOOT-CANDLE LIGHT LEVELS. RETURN EXCESS TO OWNER.

14. PROVIDE RACEWAY SYSTEMS FOR REFRIGERATION AND BEVERAGE SERVICE LINES AS DIRECTED IN FOOD SERVICE DRAWINGS (ALL LONG-RADIUS SWEEPS). PROVIDE PULL CANS AND GUTTERS AS REQUIRED. ASSEMBLE ALL RACEWAY SYSTEM JOINTS WITH SILICONE CAULK, TO PROVIDE A CONTINUOUS WATERTIGHT ASSEMBLY.

ABBREVIATIONS

(E)	EXISTING
(X)	EXISTING TO BE REMOVED
(R)	RELOCATE
NIC	NOT IN CONTRACT
U.O.N.	UNLESS OTHERWISE NOTED
+	ABOVE FINISHED FLOOR
DN+	DOWN FROM CEILING TO HEIGHT ABOVE FINISHED FLOOR
FBO	FURNISHED BY OTHERS
FF & E	FIXTURES, FURNISHINGS & EQUIPMENT
E.C.	ELECTRICAL CONTRACTOR
C OTHERWISE	CONDUIT (WITH PULL CORD IF EMPTY)
C.O.	CONDUIT ONLY
CONN	CONNECTION
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
JB	JUNCTION BOX
SR	SINGLE RECEPTACLE
DR	DUPLEX RECEPTACLE
BP	BREAKER PANEL
PI	PLUG IN
HP	HORSEPOWER
GRD/GND	GROUND
V	VOLTS
KW	KILOWATT (Watt x 1000)
A	AMP
P/W	PHASE / WIRE
K.E.C	KITCHEN EQUIPMENT CONTRACTOR
G.C	GENERAL CONTRACTOR

REFERENCE SYMBOLS

THE FOLLOWING SYMBOLS MAY BE USED IN THE DRAWINGS:

ELECTRICAL LEGEND

SYMBOLS		ABBREVIATIONS	
J	JUNCTION BOX (J-BOX)	A	AMPERES
□	EQUIPMENT INTERCONNECTION BY E.C.	AFF	ABOVE FINISHED FLOOR
●	ELECTRICAL ROUGH-IN	BTC	BRANCH TO CONNECTION POINT & CONNECT EQUIPMENT
⊖	SINGLE ELECTRICAL OUTLET (SCO)	CONV.	CONVENIENCE OUTLET 120V 1PH 20.0A
⊖	DUPLEX ELECTRICAL OUTLET (DOC)	D.C.	DIRECT CONNECTION
⊟	FOURPLEX ELECTRICAL OUTLET (QCO)	DN	DOWN FROM ABOVE
⊙	STUB UP FROM FF (TERMINATED CONDUIT)	E.C.	ELECTRICAL CONTRACTOR
▷	TELEPHONE OUTLET	HP	HORSE POWER
D	DATA LINE CONNECTION	K.E.C.	KITCHEN EQUIPMENT CONTRACTOR
F	FLOURESCENT LIGHT FIXTURE	KW	KILOWATTS
◇	INCANDESCENT LIGHT FIXTURE	PH	PHASE
▨	BREAKER PANELBOARD	U.C.	UNDER COUNTER
$	SWITCH AS NOTED	V	VOLTS
⊡	FLOOR BOX (FL. BOX)	W	WATTS

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NOT FOR CONSTRUCTION

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SCALE

REVISIONS

ELECTRICAL NOTES

K-0301

DRAWING PRINTED FULL SIZE (100%) - 30"x42". DRAWING PRINTED HALF SIZE (50%) WILL FIT ON A SHEET 18"x24" WITH 1.5" OF EXTRA SPACE ON ALL FOUR SIDES. DRAWING PRINTED MONEY THIRD SIZE (27.5%) - 11.25"x15.5" WILL FIT TIGHTLY ON 11"x17". INDIVIDUAL 1/2", 1/4", 1/8", 3/16", AND 3/32" THE TRANSLATION IS CLOSE ENOUGH TO SUIT. THE DENOMINATOR EQUIVALENT AND CHANGE THE NUMERATOR TO 1. EXAMPLE 3.34"=1'-0" AT (37.5%) WILL BE NEARLY TO 1/4"=1'-0"
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