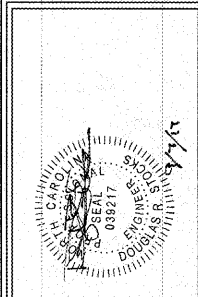
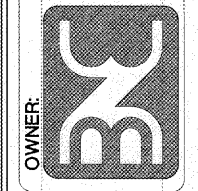


NRD restaurant designers
 ARCHITECTS & ENGINEERS
 SUITE 105
 3005 CARRINGTON MILL BLVD
 WORTHINGTON, NORTH CAROLINA 27681
 PH: 919 844 7285
 FAX: 919 844 5330
 A Division of NESTLÉ APPLIANCE



Hardee's
 HARDEE'S REVERSE PROTOTYPE
 500 US-17
 DURHAM, NC 27605

BODDIE-NOELL
 ENTERPRISES, INC.
 P.O. BOX 908
 ROCKY MOUNT, NC
 27802-1908
 (919) 987-2800



NO.	REVISIONS DESCRIPTION	DATE

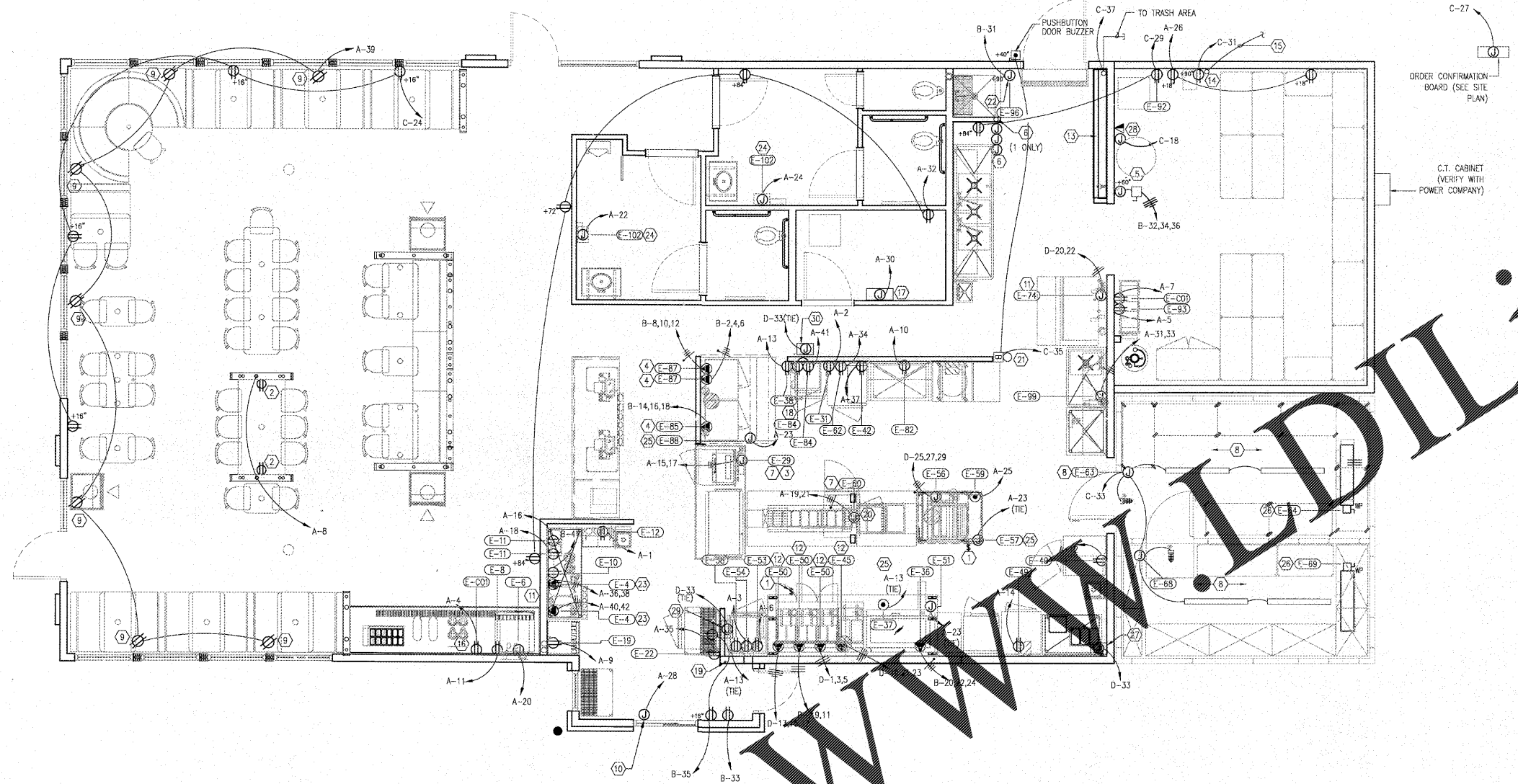
ELECTRICAL POWER PLAN

DATE: 6-23-17

SHEET NUMBER: **E1**

ELECTRICAL LEGEND

- ⊕ 120 VOLT SIMPLEX RECEPTACLE
- ⊕ 120 VOLT DUPLEX RECEPTACLE
- ⊕ 120 VOLT DUPLEX RECEPTACLE MOUNTED UNDER COUNTER
- ⊕ 120 VOLT DUPLEX RECEPTACLE CEILING MOUNTED
- ⊕ 208 VOLT 1 OR 3 PHASE SINGLE RECEPTACLE
- ⊕ 208 VOLT 3 PHASE SINGLE RECEPTACLE (TWIST LOCK)
- ⊕ 120 VOLT DUPLEX RECEPTACLE (WEATHER PROOF)
- ⊕ 120 VOLT QUAD RECEPTACLE (WEATHER PROOF)
- ☎ TELEPHONE JACK
- ☎ PHONE/DATA JACK
- ⊕ MOTOR AND NON-FUSED DISCONNECT
- ⊕ 2-POLE WALL SWITCH
- ⊕ JUNCTION BOX
- ⊕ HOMERUN
- ⊕ SPECIAL PURPOSE OUTLET, 208/240 VOLT AS INDICATED, GROUND TYPE



- NOTES:**
- P.O.S. L.V. WIRING BY P.O.S. INSTALLER. POWER WIRING BY E.C.
 - L.V. SPEAKER WIRING BY SPEAKER INSTALLER.
 - MONITOR CABLE WIRING BY MONITOR INSTALLER, POWER WIRING BY E.C.

NOTE: REFER TO PANEL SCHEDULES ON SHEET E3 & SHEETS CPI-1.0 THRU CPI-2.3 FOR INDICATION OF WHICH CIRCUITS WILL BE CIRCUITED THROUGH THE ENERGY CONTROL PANEL.

NOTE: REFER TO QF300 FOR ELECTRICAL ROUGH-IN INFORMATION & E4 FOR ADDITIONAL ROOF MOUNTED EQUIPMENT.

ELECTRICAL POWER PLANS

- HOODS SHALL BE POWERED AND INTERLOCKED WITH EXHAUST FAN AND FIRE PROTECTION SYSTEM IN CONTROL PANEL. HOODS SHALL BE CONTROLLED BY SWITCH LOCATED ON THE FACE OF HOOD. COORDINATE W/ MECHANICAL CONTRACTOR.
- HUBBELL #USB20X2BK DUPLEX RECEPTACLE, 20A 125V, RATED TWO (2) USB PORTS (3A, 5VDC) WITH LED INDICATOR AND BLACK FINISH, MOUNTED ON INSIDE OF PRE-FAB WALL / TABLE, ROUTE CONDUIT & WIRE DOWN TO WALL FROM OVER HEAD THRU PROVIDED CHASE. VERIFY MOUNTING HEIGHT W/OWNER.
- TRANSFER TABLE PANEL, SEE QF300 FOR ADDITIONAL INFORMATION.
- VERIFY PLUG/RECEPTACLE REQUIREMENTS W/OWNER.
- PROVIDE A 100A/ 3-POLE N.F. DISCONNECT FOR WATER HEATER, VERIFY W/MFG.
- JUNCTION BOXES, SIDE BY SIDE (4" OCTAGONAL) @ 60" A.F.F. FOR REMOTE ANSUL PULL STATION. (SURFACE MOUNT ON EXPOSED CONDUIT).
- CONTRACTOR TO VERIFY CONNECTION TO EQUIPMENT WITH EQUIPMENT SUPPLIER.
- ALL CONDUITS RUNNING FROM THE KITCHEN INTO THE COOLER SHALL BE SEALED TO PREVENT WARM AIR COMING INTO CONTACT WITH THE COOLER AIR AND CREATING A CONDENSATE ISSUE.
- SHOW WINDOW RECEPTACLE INSTALLED IN CEILING.
- J-BOX FOR CONNECTION TO AUTOMATIC SELF-CLEANING DRIVE-THRU FIELD COORDINATE EXACT LOCATION.
- AIR COOLED CONDENSER ON ROOF. ROUTE (2) #12 AWG (1) #10 GROUND FROM ICE MACHINE TO CONDENSER, FURNISH AND INSTALL DISCONNECT SWITCH AT EACH LOCATION. POWERED THRU ICE MACHINE.
- PROVIDE NEMA 15-60R RECEPTACLE, NEMA 6-60P ANGLE PLUG 12" TOP OF RECEPT. BOX, CENTERED ON FACE. 6 FT. OF #12 AWG 3-POLE CORD. CONNECT TO FGA BREAKER. VERIFY CONNECTION TO FGA.
- OWNER TO FURNISH 100A/ 3-POLE N.F. DISCONNECT FOR CONTROL PANEL. COORDINATE EXACT REQUIREMENTS W/ OWNER PRIOR TO BIDS.
- IRRIGATION CONTROL SYSTEM RECEPTACLE MOUNTED AS INDICATED.
- INSTALL 2" GRS CONDUIT FOR IRRIGATION SYSTEM. EXTEND ABOVE CEILING AND 5' BEYOND FOUNDATION. SEE IRRIGATION PLAN IN CIVIL DRAWINGS.
- INSTALL RECEPTACLE FOR BEVERAGE BAR WITHIN CABINET.
- E.C. TO VERIFY POWER REQUIREMENTS AND PLACEMENT WITH OWNER OR OWNERS REP PRIOR TO INSTALLATION OF FIRE ALARM SYSTEM. FOLLOW MANUFACTURERS GUIDELINES FOR INSTALLATION AND WIRING.
- COORDINATE WITH OWNERS CONSTRUCTION MANAGER.
- (2) 1" CONDUIT STUBBED ABOVE CEILING TERMINATED AT (2) 2x4 @ 18" A.F.F. PROVIDE WITH 1" KNOCKOUT GROMMET IN COVER.
- MAKE-UP TABLE PANEL, SEE QF300 FOR ADDITIONAL INFORMATION.
- DOOR BUZZER. INSTALL LOW VOLT TRANSFORMER.
- AIR CURTAIN IS MOUNTED BY WIRE THROUGH DOOR LIMIT SWITCH BY E.C.
- PROVIDE NEMA 6-30R RECEPTACLE. COORDINATE ELECTRICAL REQUIREMENTS WITH MANUFACTURER'S RECOMMENDATIONS.
- VERIFY HANGING CONNECTION REQUIREMENTS WITH MANUFACTURER'S CUT SHEET.
- CIRCUIT HOOD LIGHTS THRU CIRCUIT "A-23".
- EVAPORATOR COILS, W/ CONDENSING UNITS, VERIFY WITH W.I.C. MFG.
- HOOD FIRE SYSTEM TEST FOR CHAR-BROILER VERIFY REQUIREMENT W/ OWNER PRIOR TO INSTALLATION, PROVIDE 120V/1A CIRCUIT AS SHOWN, J-BOX @ CEILING.
- INCREASE TANK POWER AND DATA CONNECTION @ 72" A.F.F. VERIFY REQUIREMENTS W/ INSTALLER.
- SIMILAR TO NOTE 27 USED FOR FRENCH FRYER/GRIDDLE.
- SIMILAR TO NOTE 27 USED FOR OVENS.

CODED NOTES

- E.C. RESPONSIBLE TO SECURE AND PAY FOR ALL PERMITS, ADHERE TO ALL STATE, LOCAL AND NATIONAL ELECTRIC CODES, AND SCHEDULE INSPECTION TIMES AS TO NOT DELAY JOB PROGRESS.
- COORDINATE ALL WORK WITH OTHER TRADES TO ELIMINATE CONFLICTS ON THE JOB.
- PERFORM ALL WORK IN A NEAT AND PROFESSIONAL MANNER, AND SUPPLY ALL NEW EQUIPMENT AND ACCESSORIES.
- ALL LOW VOLTAGE AND LINE VOLTAGE WIRING TO BE IN EMT OR MC CABLE, AS ALLOWED BY N.E.C.
- REFER TO SHEET E-4 FOR CIRCUITS TO EQUIPMENT ON ROOF.
- ALL PENETRATIONS OF WALL, ROOF AND CEILINGS TO BE SEALED AS REQUIRED WITH FIRE SEALANT TO MAINTAIN FIRE RATING AS REQUIRED, VERIFY LOCATIONS W/ ARCH. FLOOR PLAN.
- MINIMUM SIZE CONDUIT TO BE 1/2" FOR INDIVIDUAL LIGHT FIXTURE CONNECTIONS, AND 3/4" FOR ALL OTHER LOCATIONS.
- FLEXIBLE CONDUIT TO BE SEAL-TITE OR APPROVED EQUAL.
- ALL WIRES AND CABLES SHALL BE SOFT-DRAWN COPPER-RATED 600 VOLTS, TYPE THHN/THWN. NO WIRE SMALLER THAN #12 AWG SHALL BE USED FOR LIGHTING OR POWER CIRCUITS. STRANDED CABLE SHALL BE USED FOR #8 AWG AND LARGER. ALL WIRING TO BE COLOR-CODED AS FOLLOWS:
 120/208 VOLT SYSTEM:
 NEUTRAL - WHITE
 PHASE A OR L1 - BLACK
 PHASE B OR L2 - RED
 PHASE C OR L3 - BLUE
 GROUND - GREEN
- ALL ELECTRICAL OUTLETS SHALL COMPLY WITH NEC 210.8 WHICH WILL REQUIRE ROOFS, MECH. ROOMS & KITCHEN TO BE GFCI PROTECTED. PROVIDE EITHER INDIVIDUAL GFI DEVICES OR GFI CIRCUIT BREAKERS, UNLESS SPECIFICALLY NOTED ON THE DRAWINGS OR SCHEDULES. IF OUTLETS ARE IN LOCATIONS NOT READILY ACCESSIBLE THEN THE CIRCUIT BREAKER SHALL BE GFCI & PROPERLY LABELED @ PANEL. FOR GFCI CIRCUITS OR BREAKERS, PROVIDE ISOLATED NEUTRAL. (VERIFY W/ LOCAL AUTHORITY HAVING JURISDICTION ON NEC EDITION BEING ENFORCED).
- PROVIDE FLEXIBLE CONDUIT FOR ALL VIBRATING EQUIPMENT, NOT TO EXCEED 3 FT. IN LENGTH.
- ALL CONDUIT AND WIRE TO BE CONCEALED IN WALLS AND CEILINGS.
- BALANCE ALL PANELS WITHIN 10% OF EACH PHASE LEG.
- PROVIDE LABELS AND TAGS FOR ALL PANELS AND SWITCHGEAR EQUIPMENT. PROVIDE TYPED DIRECTORY OF ALL CIRCUITS LABELED BY ROOM NUMBER AND NAME; BY SWITCH GEAR VENDOR.
- RECEPTACLE MOUNTING HEIGHTS SHALL BE 18" A.F.F., UNLESS NOTED OTHERWISE. ALL MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR TO CENTERLINE OF OUTLET UNLESS NOTED OTHERWISE. REFER TO FOOD SERVICE DRAWING QF300.
- CIRCUIT ALL EMERGENCY LIGHT FIXTURES TO UNSWITCHED CONDUCTORS OF ANY LOCAL SWITCHING.
- RECEPTACLES AND SWITCHES IN DINING AREA ARE TO BE IVORY WITH IVORY COVERS. RECEPTACLES AND SWITCHES IN KITCHEN AREA TO BE IVORY WITH STAINLESS STEEL COVERS.
- ALL WORK SHALL BE IN STRICT ACCORDANCE WITH ENFORCED VERSION OF THE NATIONAL ELECTRIC CODE AND ALL LOCAL CODES AND ORDINANCES. THE CONTRACTOR SHALL INQUIRE INTO AND COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. AFTER CONTRACT IS ISSUED, NO ADDITIONAL COST DUE TO CODE ISSUES SHALL BE REMBURSED BY THE OWNER TO THE CONTRACTOR.
- ANY FEES ASSOCIATED W/ CONSTRUCTION & INSPECTION SHALL BE BORNE BY THE CONTRACTOR IN ORDER TO DELIVER TO THE OWNER A FINISHED BUILDING, READY FOR OCCUPANCY AND 100% OPERATION.
- CONDUIT SHALL BE ELECTRICALLY CONTINUOUS FROM THE SERVICE EQUIPMENT TO ALL OUTLETS AND EQUIPMENT. IF NON-METALLIC CONDUIT IS USED, THEN EQUIPMENT GROUNDING CONDUCTORS SHALL BE RUN ELECTRICALLY CONTINUOUS FROM THE SERVICE EQUIPMENT IN ACCORDANCE WITH N.E.C.
- DUPLEX RECEPTACLES SHALL BE BRYANT #5352 OR EQUAL BY HUBBELL. SIMPLEX RECEPTACLES SHALL BE BRYANT #5351 OR EQUAL BY HUBBELL. FLOOR RECEPTACLES SHALL BE HUBBELL #5C3091 OR EQUAL. EACH SHALL BE GROUNDING TYPE DEVICES RATED AS SPECIFIED ON SHEET E-3.
- ALL PERMANENTLY CONNECTED EQUIPMENT SHALL BE PROVIDED WITH A LOCKABLE BREAKER CAPABLE OF BEING LOCKED IN THE OFF POSITION IN ACCORDANCE WITH NEC 422.31(B). EXTEND LIQUIDTIGHT FLEXIBLE METAL CONDUIT FROM JUNCTION BOX TO EQUIPMENT. SEE PANEL SCHEDULES, SHEET E3 FOR BREAKER INFORMATION.

GENERAL NOTES

NOTE: SEE SHEETS CPI-1.0 THRU CPI-2.3 FOR CPI INFORMATION RELATED TO WIRING OF CONTROLS & ENERGY MANAGEMENT.

