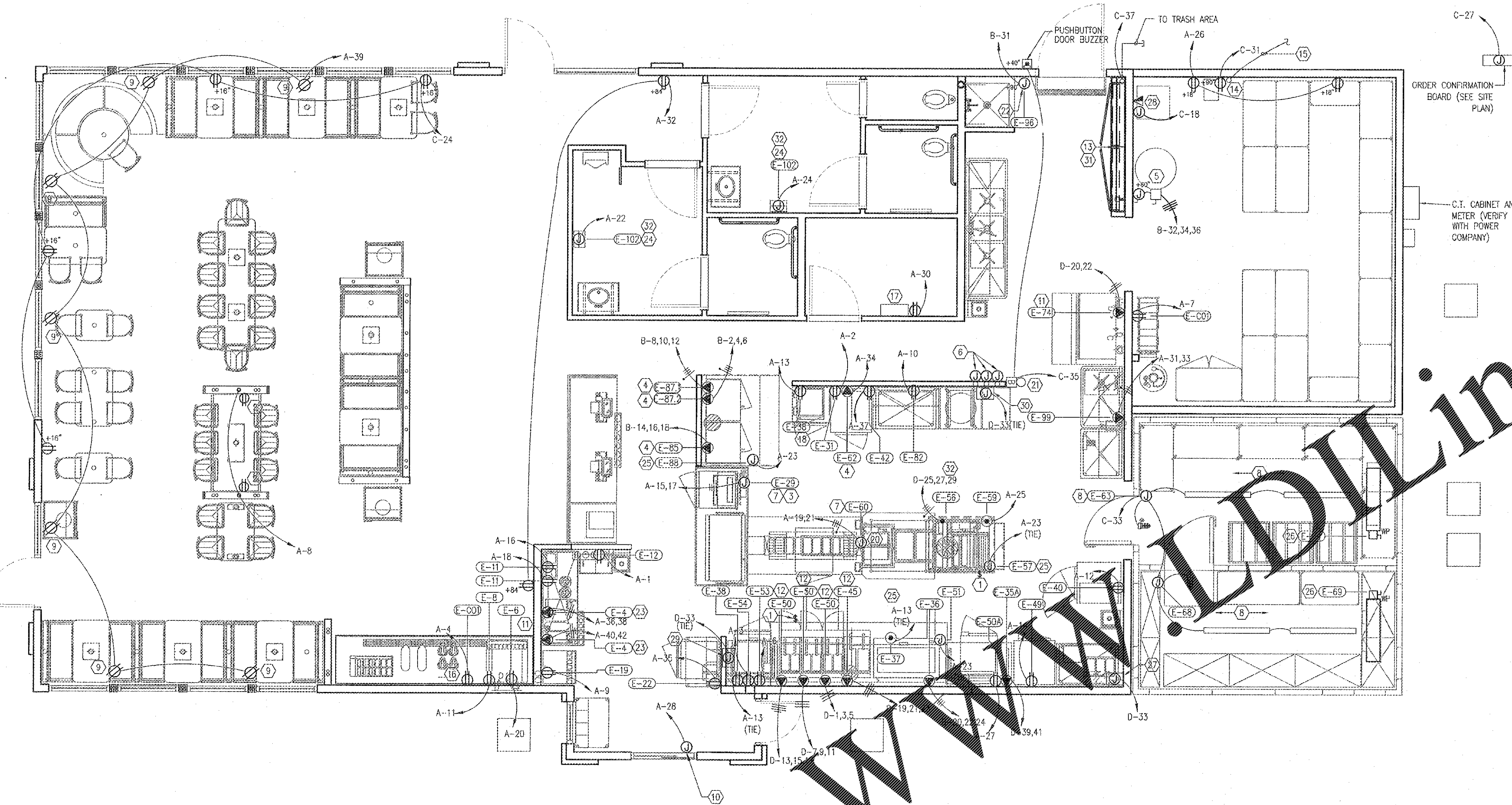

NOTES:
1. P.O.S. L.V. WIRING BY P.O.S. INSTALLER POWER WIRING BY E.C.
2. L.V. SPEAKER WIRING BY SPEAKER INSTALLER.
3. MONITOR CABLE WIRING BY MONITOR INSTALLER, POWER WIRING BY E.C.

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 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
- DATA 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

ELECTRICAL NEMA SCHEDULE

EQUIPMENT PROVIDED CORD & PLUG

ITEM	QTY.	DESCRIPTION	VOLTS	PHASE	NEMA
12	1	ICE CREAM FREEZER	115	1	NEMA 5-15P
22	1	UNDERCOUNTER COOLER	115	1	NEMA 5-15P
30	1	SANDWICH HOLDING BIN	120-208	1	NEMA L14-20P
31	1	UNDERCOUNTER REFRIGERATOR	115	1	NEMA 5-15P
32	1	UNDERCOUNTER COOLER	115	1	NEMA 5-15P
33	2	HEAT LAMP	120	1	NEMA 5-15P
35	1	CONVEYOR TOASTER	208	1	NEMA 6-20P
35A	1	CONVEYOR TOASTER	208	1	NEMA 6-20P
36	1	GRIDDLE	208	3	NEMA 15-50P
37/38	1	TIMER	120	1	NEMA 5-15P
40	1	REACH-IN REFRIGERATOR	115	1	NEMA 5-15P
42	1	REACH-IN REFRIGERATOR	115	1	NEMA 5-15P
49	1	REACH-IN FREEZER	115	1	NEMA 5-15P
50A	1	UNDERCOUNTER COOLER	115	1	NEMA 5-15P
53	1	WORKTOP FREEZER	115	1	NEMA 5-15P
54	1	FRENCH FRY WARMER	120	1	NEMA 5-20P
59	1	SLIDE TOP FREEZER	115	1	NEMA 5-15P
60C	1	HOLDING CABINET	120	1	NEMA 5-15P
60D	1	HOLDING CABINET	120	1	NEMA 5-15P
61	3	FOOD WARMER	120	1	NEMA 5-15P
62A	1	MICROWAVE OVEN	120	1	NEMA 5-20P
62B	1	MICROWAVE OVEN	120	1	NEMA 5-20P
100	1	REACH-IN REFRIGERATOR	115	1	NEMA 5-15P

(CORD & PLUG PROVIDED BY ELECTRICIAN) SCHEDULE

ITEM	QTY.	DESCRIPTION	VOLTS	PHASE	NEMA
4	2	TEA/COFFEE BREWER	208	1	208V-1ø WITH NEUTRAL WIRE. NEMA L14-20P; PROVIDED BY ELECTRICIAN.
6	1	ICE CUBE MAKER	115	1	115V-1ø; CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN; NEMA L5-20P.
45/50	4	FRYER	208	3	208V-3ø SERVICE; ANGLED PLUG REQUIRED. NEMA 15-60P; CORD & PLUG PROVIDED BY ELECTRICIAN
59	1	MEAT FREEZER	115	1	115V-1ø; NEMA 5-15P-ANGLE PLUG; PROVIDED BY ELECTRICIAN. ELECTRICIAN TO PUT IN AN EXTENDED 8 FT CORD.
74	1	ICE CUBE MAKER	208-230	1	208V-1ø; CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN; NEMA L5-20P.
85	1	CONVECTION OVEN	208	3	208V/3ø; NEMA 15-30P; ANGLED PLUG REQUIRED. CORD & PLUG PROVIDED & INSTALLED BY ELECTRICIAN.
87.1	1	CONVECTION OVEN	208	3	208V/3ø; NEMA 15-30P; ANGLED PLUG REQUIRED. CORD & PLUG PROVIDED & INSTALLED BY ELECTRICIAN.
87.2	1	CONVECTION OVEN	208	3	208V/3ø; NEMA 15-30P; ANGLED PLUG REQUIRED. CORD & PLUG PROVIDED & INSTALLED BY ELECTRICIAN.
99	1	HOT WATER DISPENSER	208	1	208V-1ø; CORD & PLUG PROVIDED AND INSTALLED BY ELECTRICIAN; NEMA L6-30P.

NOTE: NEMA SCHEDULE, CORD AND PLUG SCHEDULE ARE PROTOTYPICAL. E.C. SHALL VERIFY ALL EQUIPMENT AND POWER REQUIREMENTS WITH FINAL EQUIPMENT PACKAGE. ADJUST AS REQUIRED.

ELECTRICAL POWER PLANS

SCALE: 1/4"=1'-0"

CODED NOTES

1. 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.
2. HUBBLE #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.
3. TRANSFER TABLE PANEL, SEE QF300 FOR ADDITIONAL INFORMATION.
4. VERIFY PLUG/RECEPTACLE REQUIREMENTS W/OWNER. GC TO PROVIDE 90° ANGLE PLUG AT BISCUIT OVENS. SEE EQUIPMENT SCHEDULES ON QF300.
5. PROVIDE A 100A/ 3-POLE NON-FUSED DISCONNECT FOR WATER HEATER, VERIFY W/MFG.
6. JUNCTION BOXES (4" OCTAGONAL) @ 48" A.F.F. FOR REMOTE ANSUL PULL STATION. ANSUL PULL IS TO BE RECESSED. E.C. SHALL PROVIDE AND INSTALL ALL CONDUIT CONCEALED WITHIN THE WALL. CONDUIT SHALL BE A STRAIGHT RUN WITH NO OFFSETS OR BENDS. E.C. SHALL PROVIDE APPROPRIATE DEPTH J-BOX TO ALLOW FOR A STRAIGHT CONNECTION TO THE CONDUIT. COORDINATE WITH M.C./HOOD SUPPLIER.
7. CONTRACTOR TO VERIFY CONNECTION TO EQUIPMENT WITH EQUIPMENT SUPPLIER.
8. 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.
9. SHOW WINDOW RECEPTACLE INSTALLED IN CEILING.
10. J-BOX FOR CONNECTION TO AUTOMATIC SELF-CLOSING DRIVE-THRU WINDOW. FIELD COORDINATE EXACT LOCATION.
11. AIR COOLED CONDENSER ON ROOF. ROUTE (2) #12 AND (1) #12 GROUND FROM ICE MACHINE TO CONDENSER. FURNISH AND INSTALL DISCONNECT SWITCH AT EACH LOCATION. POWERED THRU ICE MACHINE.
12. PROVIDE NEMA 15-60R RECEPTACLE, NEMA 15-60P ANGLE PLUG 12" TO TOP OF RECEPT. BOX, CENTERED ON EACH VAT, WITH 6 FT.OF 4-#4 SO CORD. CONNECT FRYER, ON 60A BREAKER. VERIFY CONNECTION TYPE.
13. OWNER TO FURNISH AND E.C. TO INSTALL CPI ELECTRICAL /CONTROL PANEL. COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO BIDS.
14. IRRIGATION CONTROL SYSTEM RECEPTACLE MOUNTED AS INDICATED.
15. INSTALL 2" GRS CONDUIT FOR IRRIGATION SYSTEM. EXTEND ABOVE CEILING AND 5 FEET BEYOND FOUNDATION. SEE IRRIGATION PLAN IN CIVIL DRAWINGS.
16. INSTALL RECEPTACLE FOR BEVERAGE BAR WITHIN CABINET.
17. 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.
18. COORDINATE WITH OWNERS CONSTRUCTION MANAGER.
19. (2) 1" CONDUIT STUBBED ABOVE CEILING TERMINATED AT (2) 2x4 J-BOX @ 18" A.F.F. PROVIDE WITH 1" KNOCKOUT GROMMET IN COVER.
20. MAKE-UP TABLE PANEL, SEE QF300 FOR ADDITIONAL INFORMATION.
21. DOOR BUZZER. INSTALL LOW VOLT TRANSFORMER.
22. AIR CURTAIN IS MOUNTED BY MC & WIRED THROUGH DOOR LIMIT SWITCH BY EC
23. PROVIDE NEMA 6-30 RECEPTACLE. COORDINATE ELECTRICAL REQUIREMENTS WITH MANUFACTURER'S RECOMMENDATIONS.
24. VERIFY HAND DRYER CONNECTION REQUIREMENTS WITH MANUFACTURER'S CUT SHEET.
25. CIRCUIT HOOD LIGHTS THRU CIRCUIT "A-23".
26. EVAPORATOR COILS, WIRED THRU CONDENSING UNITS. VERIFY WITH W.I.C. MFG.
27. HOOD FIRE SYSTEM BOX FOR CHAR-BROILER VERIFY REQUIREMENT W/ OWNER PRIOR TO INSTALLATION, PROVIDE 120V/1ϕ CIRCUIT AS SHOWN, J-BOX @ CEILING.
28. GREASE TANK POWER AND DATA CONNECTION @ 72" A.F.F., VERIFY REQUIREMENTS W/ INSTALLER.
29. SIMILAR TO NOTE 27 USED FOR FRENCH FRYER/GRIDDLE.
30. SIMILAR TO NOTE 27 USED FOR OVENS.
31. ALL WIRING FROM CPI SWITCHGEAR SHALL BE IN EMT CONDUIT FOR FIRST 6 FEET OF THE CONDUIT RUN MINIMUM. AFTER 6 FEET, MC CABLE IS PERMITTED, AS ALLOWED BY NEC, FOR THE REMAINING LENGTH OF CIRCUIT. GC/EC SHALL GIVE ITEMIZED DEDUCTION FOR USE OF MC CABLE IN LIEU OF EMT CONDUIT.
32. EQUIPMENT TO BE WIRED CONTINUOUSLY. E.C. SHALL PROVIDE FLEX CONDUIT FROM 5'-0" OF EQUIPMENT CONNECTION. PROVIDE TRANSITION FROM EMT TO FLEX CONDUIT AS REQUIRED. NO BREAKS IN WIRING ALLOWED.

GENERAL NOTES

1. 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.
2. COORDINATE ALL WORK WITH OTHER TRADES TO ELIMINATE CONFLICTS ON THE JOB.
3. PERFORM ALL WORK IN A NEAT AND PROFESSIONAL MANNER, AND SUPPLY ALL NEW EQUIPMENT AND ACCESSORIES.
4. ALL LOW VOLTAGE AND LINE VOLTAGE WIRING TO BE IN EMT OR MC CABLE, AS ALLOWED BY N.E.C.
5. REFER TO SHEET E-4 FOR CIRCUITS TO EQUIPMENT ON ROOF.
6. 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.
7. MINIMUM SIZE CONDUIT TO BE 1/2" FOR INDIVIDUAL LIGHT FIXTURE CONNECTIONS, AND 3/4" FOR ALL OTHER LOCATIONS.
8. FLEXIBLE CONDUIT TO BE SEAL-TITE OR APPROVED EQUAL.
9. 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
10. 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.
11. PROVIDE FLEXIBLE CONDUIT FOR ALL VIBRATING EQUIPMENT, NOT TO EXCEED 3 FT. IN LENGTH.
12. ALL CONDUIT AND WIRE TO BE CONCEALED IN WALLS AND CEILINGS.
13. BALANCE ALL PANELS WITHIN 10% OF EACH PHASE LEG, BY SWITCHGEAR VENDOR.
14. 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.
15. 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
16. CIRCUIT ALL EMERGENCY LIGHT FIXTURES TO UNSWITCHED CONDUCTORS OF ANY LOCAL SWITCHING.
17. RECEPTACLES AND SWITCHES IN DINING AREA ARE TO BE GRAY WITH STAINLESS STEEL COVERS. RECEPTACLES AND SWITCHES IN KITCHEN AREA TO BE IVORY WITH STAINLESS STEEL COVERS.
18. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH ENFORCED VERSION OF THE NNATIONAL 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 REIMBURSED BY THE OWNER TO THE CONTRACTOR.
19. 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.
20. 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.
21. 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 #SC3091 OR EQUAL. EACH SHALL BE GROUNDING TYPE DEVICES RATED AS SPECIFIED ON SHEET E-3.
22. 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.

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

NRD Project # 18228

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NELSON RAY THORNTON, JR.
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PROFESSIONAL ENGINEER

Hardee's CHARBROILED THICKBURGERS

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LARGE DINING ROOM- BN2016 LD-R
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DISPUTANTA, VA 23842

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ELECTRICAL POWER PLAN

DATE: 9-4-2019

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