ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL

1.01 COORDINATION OF TRADES: SCHEDULE AND COORDINATE WORK WITH THAT OF OTHER DIVISIONS AND SECTIONS.
1.02 GUARANTEE IN WRITING THE ELECTRICAL INSTALLATION, AND ALL WORK UNDER THIS SECTION, FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER AGAINST ALL EVIDENCE OF IMPERFECT WORKMANSHIP OR FAILURE OR MALFUNCTION OF MATERIALS.

PART 2 - PRODUCTS

2.01 MATERIALS AND EQUIPMENT
- A. MATERIAL FURNISHED UNDER THIS CONTRACT, UNLESS OTHERWISE NOTED, SHALL BE NEW, FREE FROM DEFECTS AND SHALL CONFORM WITH THE STANDARDS OF UL.
- B. VOLTAGE, AMPERE, AND OTHER RATINGS OF EQUIPMENT SHALL BE SUITABLE FOR USE INTENDED. DISCONNECT SWITCHES SHALL BE PROPERLY HORSEPOWER RATED AND SUITABLE FOR VOLTAGE AND AMPERE RATING OF LOAD.
- C. THE DRAWINGS GENERALLY INDICATE THE RACEWAY SIZE, THE NUMBER, SIZE, AND INSULATION TYPE OF CONDUCTORS TO BE PROVIDED AND INSTALLED. WHERE THESE ITEMS DO NOT MEET MINIMUM APPLICABLE CODES, FOR EQUIPMENT BEING SERVED, COMPLY AS REQUIRED AT NO ADDITIONAL COST.

2.02 RACEWAYS
- A. GALVANIZED RIGID CONDUIT (GRC); INCLUDING ELBOWS AND COUPLINGS.
- B. INTERMEDIATE METAL CONDUIT (IMC); INCLUDING ELBOWS AND COUPLINGS.
- C. ELECTRIC METALLIC TUBING (EMT) WITH FITTINGS OF PRESSED STEEL OR MALLEABLE IRON, COMPRESSION TYPE (IN WET AREAS ONLY) WITH INSULATED THROATS.
- D. RIGID NON-METALLIC CONDUIT: (PVC) U.L. LABELED SCHEDULE 40 P.V.C.

2.03 DEVICE AND JUNCTION BOXES: INCLUDE PLASTER RINGS, COVERS, AND KO SEALS AS REQUIRED.
2.04 WIRE AND CABLE: UNLESS OTHERWISE NOTED, WIRE AND CABLE SHALL BE SOFT DRAWN, ANNEALED COPPER. WIRE SIZES NO. 8 AND LARGER AND CONDUCTORS SERVING MOTORS AND SUBJECT TO VIBRATIONS SHALL BE STRANDED CABLE. INSULATION TO BE THWN/THHN, JACKETED 90C INSULATED WIRE. PROVIDE WIRE COLOR IDENTIFICATION: NEUTRAL WIRE - WHITE, LIVE WIRE - BLACK, RED, BLUE ON 120/208 VOLT SYSTEM; NEUTRAL WIRE - GREY, LIVE WIRE - BROWN, ORANGE YELLOW ON 277/480 VOLT SYSTEM; GROUND - GREEN.
2.05 ADDED PANELS TO BE PANELBOARDS - LOAD CENTERS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY APPROVED.
2.06 SERVICE ENTRANCE AND DISTRIBUTION GEAR BY G.E., SQUARE "D" OR CUTLER HAMMER/SIEMENS ONLY. INTERIOR PANELBOARDS SHALL BE RECESSED WITH FLANGED/REMOVABLE SCREW-ON COVER. SURFACE MOUNTED PANELBOARDS OR HINGED/FLUSH COVERS ARE NOT ALLOWED.
2.07 SWITCHBOARDS: COPPER BUSSING WITH FULL CAPACITY NEUTRAL.
2.11 120/208 VOLT AND 277/480 VOLT PANELBOARDS: 3 PHASE, 4 WIRE, COPPER BUS, COMPOSED OF AN ASSEMBLY OF BOLT-IN-PLACE MOLDED CASE CIRCUIT BREAKERS WITH THERMAL AND MAGNETIC TRIP AND TRIP FREE POSITION SEPARATE FROM EITHER ON OR OFF POSITIONS.
2.13 SAFETY SWITCHES: FUSED, HEAVY DUTY, HORSEPOWER RATED.
2.14 STARTERS, CONTACTORS AND CONTROL DEVICES: PROVIDE AS SHOWN AND AS REQUIRED BY CODE. FURNISH COMPLETE WITH PILOT LIGHTS, AUXILIARY CONTACTS, PUSH BUTTONS, HAND-OFF-ON SWITCHES, CONTROL DEVICES, AND OVERLOAD RELAYS. THERMAL OVERLOADS TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS. AMBIENT COMPENSATE ALL HEATERS EXPOSED TO HIGH TEMPERATURE OR INSTALLATION OUTSIDE.
2.16 NAMEPLATES: PROVIDE BLACK LAMICOID NAMEPLATES WITH 3/16" HIGH WHITE ENGRAVED LETTERS ON PANELS, SWITCHBOARDS, MAINS AND SUBMAINS, DISTRIBUTION EQUIPMENT, REMOTE SAFETY SWITCHES, CIRCUIT BREAKERS, TIME SWITCHES, CONTACTORS, AND STARTERS.
2.17 WIRING DEVICES
- A. HUBBELL OR COMPARABLE LEVITON OR BRYANT: WHITE AND GREY IN COLOR - AS NOTED ON DRAWINGS. 15 AMP DEVICES ALLOWED ONLY WHEN SPECIFICALLY DENOTED ON ELECTRICAL CONSTRUCTION DRAWINGS.
- B. TOGGLE SWITCHES: SINGLE POLE - HUBBELL 1221- 20A, 120/277V, THREE WAY - HUBBELL 1223- 20A, 120/277V, FOUR WAY - HUBBELL 1224- 20A, 120/277V.
- C. RECEPTACLES: DUPLEX GROUNDING TYPE, SPECIFICATION GRADE, 125 VOLT, 20 AMPERES, SINGLE PHASE, HUBBELL NO. 5262 OR COMPARABLE.
- D. GROUND FAULT INTERRUPTER TYPE RECEPTACLE: DUPLEX GROUNDING TYPE, SPECIFICATION GRADE, 125 VOLT, 20 AMPERES, SINGLE PHASE, 5 mA GROUND TRIP, FEED THROUGH CONSTRUCTION.

2.18 DEVICE PLATES: LEXAN (STA-KLEEN), SMOOTH FINISH IN STAINLESS STEEL - AS NOTED ON PLANS. MULTI-GANG OUTLET PLATES SHALL BE USED FOR MULTI-GANG BOXES.
2.19 NOT USED.
2.20 LIGHTING FIXTURES
- A. ALL INTERIOR / BUILDING MOUNTED LIGHTING PROVIDED BY PX AND INSTALLED BY GC.
- B. ALL EXTERIOR SITE LIGHTING IS PROVIDED AND INSTALLED BY GC.

PART 3 - EXECUTION

3.01 GENERAL INSTALLATION
- A. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE MADE IN A NEAT, APPROVED, FINISHED, AND SAFE MANNER.
- B. INSPECT AND MAKE TIGHT ALL CONNECTIONS FOR ALL EQUIPMENT, INCLUDING FACTORY CONNECTIONS. TORQUE ALL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.
- C. LIGHTING FIXTURES INSTALLED AND USED FOR LIGHTING DURING CONSTRUCTION SHALL BE RELAMPED WITH NEW LAMPS JUST PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
- D. INSTALL SEISMIC RESTRAINT DEVICES FOR ALL CEILING MOUNTED EQUIPMENT, I.E. FLUORESCENT LAY-IN FIXTURES. PROVIDE GRID CLIPS AND #12 SLACK WIRES FROM FIXTURE CORNERS TO STRUCTURE.

3.02 RACEWAYS
- A. INSTALL COMPLETE RACEWAY SYSTEMS FOR ALL ELECTRICAL CONDUCTORS INCLUDING TELEPHONE, SIGNAL, CONTROL, AND OTHER SYSTEMS.
- B. UNLESS OTHERWISE NOTED, INSTALL ALL RACEWAYS CONCEALED. WHERE IT IS NOT FEASIBLE TO CONCEAL RACEWAYS, INSTALL AS DIRECTED BY ARCHITECT.
- C. INSTALL EXPOSED RACEWAYS TO RUN PARALLEL OR AT RIGHT ANGLES TO STRUCTURAL BUILDING LINES WITH NEAT BENDS AND NEATLY OFFSET INTO TERMINATIONS.
- D. IN EMPTY RACEWAY PROVIDE AND INSTALL A NO. 14 NYLON DRAG LINE.
- E. INSTALL RACEWAYS WITH APPROVED HEAVY DUTY SUPPORTS, STRAPS, HANGERS, CONNECTORS, AND COUPLINGS AS REQUIRED TO MAINTAIN AN APPROVED INSTALLATION.
- F. DO NOT INSTALL CONDUIT RACEWAYS IN CONCRETE SLABS.
- H. MINIMUM CONDUIT SIZE TO BE 3/4" U.N.O.

3.03 GALVANIZED RIGID CONDUIT (GRC) ALL RACEWAYS SHALL BE GRC EXCEPT AS NOTED OR SHOWN. CONDUIT, ELBOWS, STANDARD COUPLINGS SHALL BE HOT DIPPED GALVANIZED RIGID STEEL. IF PARTITIONS OR WALLS ARE SOLID CONCRETE OR ARE GROUTED SOLID WITH CONCRETE OR MORTAR, RIGID STEEL CONDUIT SHALL BE USED.
3.04 INTERMEDIATE METAL CONDUIT (IMC) IMC RACEWAY AND APPROVED FITTINGS WHERE PERMITTED BY APPLICABLE CODES AND REGULATIONS MAY BE USED IN LIEU OF RIGID STEEL CONDUIT, WHERE INSTALLED ABOVE FINISH GRADE AND ABOVE CONCRETE SLABS ON GRADE.
3.05 ELECTRIC METALLIC TUBING (EMT) EMT MAY BE USED WHERE CONCEALED IN AREAS ABOVE CEILINGS, FURRED SPACES, PARTITIONS OR WALLS. ALSO MAY BE EXPOSED, WHEN NOT IN HAZARDOUS AREAS, AREAS SUBJECT TO PHYSICAL DAMAGE, OR WHEN DIRECTLY EXPOSED TO RAIN OR WASH-DOWN.
3.06 FLEXIBLE METAL CONDUIT (FLEX) USE FLEXIBLE CONDUITS FOR CONNECTIONS TO MOTORS, WHERE SUBJECT TO MOVEMENT OR VIBRATION, AND LIQUID TIGHT WHERE EXPOSED TO MOISTURE OR OIL.
3.07 RIGID NONMETALLIC CONDUIT PVC SCHEDULE 40 MAY BE INSTALLED FOR DIRECT BURIAL RACEWAYS WHERE INSTALLED WITH MINIMUM COVERAGE PER NEC TABLE 300-5.
3.08 OUTLET, PULL AND JUNCTION BOXES
- A. UNLESS OTHERWISE SHOWN OR AS DIRECTED PRIOR TO INSTALLATION, OUTLET BOXES SHALL GENERALLY BE PLACED AT THE FOLLOWING HEIGHTS, CENTER OF BOX TO FINISHED FLOOR LEVEL.
- B. WALL SWITCHES: 44".
- C. CONVENIENCE RECEPTACLES: 18" (OR 4" ABOVE COUNTERS) AND/OR AS NOTED. (SIMILAR TYPE OUTLETS SHALL BE MOUNTED AT SAME HEIGHT IN EACH AREA). GROUNDING PIN AT BOTTOM.

3.09 CONDUCTORS (COPPER ONLY)
- A. USE SPECIFIED COLOR SCHEDULE FOR ALL WIRING. WHERE LARGE CONDUCTORS ARE NOT AVAILABLE IN COLORS, IDENTIFY WITH PERMANENT COLORED TAPE AT ALL TERMINATIONS, JUNCTION BOXES, ETC. COLOR CODING PER NEC.
- B. MAKE TAPS, JOINTS, SPLICES, AND OTHER CONNECTIONS WITH FIXTURE CONNECTORS.
- C. DO NOT INSTALL WIRING OR PULL WIRES, IN RACEWAYS UNTIL RACEWAY SYSTEM IS COMPLETE, CLEAN, DRY, AND FREE OF ALL FOREIGN MATERIALS. LUBRICATE AS REQUIRED WITH SPECIFIED LUBRICANT.
- D. MINIMUM CONDUCTOR SIZE TO BE #12 CU. THWN.

3.10 LIGHTING FIXTURES
- A. LEAVE FIXTURES AND LAMPS CLEAN OF ALL DIRT, DUST, GREASE SPOTS AND DEBRIS AND ALL GLASS, PLASTIC AND OTHER COMPONENTS, AND UNSCRATCHED AND UNBROKEN.
- B. FIT AND ADJUST ALL FIXTURES. WHERE STRUCTURAL CONDITIONS, PARTITIONS, FURNITURE, SHELVING, AND AIR CONDITIONING DIFFUSERS INTERFERE WITH THE LIGHTING FIXTURES AT LOCATIONS SHOWN, NOTIFY ARCHITECT IN WRITING AND RELOCATE AT NO ADDITIONAL COST AS DIRECTED.
- C. FIXTURES WITH FINISH TRIM OR LENS FRAMES SHALL BE GASKETED AND BAFFLED TO PREVENT LIGHT LEAKS. INSTALL SO THAT NO LIGHT LEAKS EXIST.
- D. FIXTURES MOUNTED DIRECTLY ON COMBUSTIBLE LOW-DENSITY CEILINGS SHALL MEET UL APPROVAL FOR THIS CONDITION AND BE PLAINLY MARKED AS SUCH.

3.11 GROUNDING
- A. GROUNDING FOR DISTRIBUTION EQUIPMENT, EQUIPMENT AND MATERIALS WITH ELECTRICAL CONNECTIONS, ELECTRIC MOTOR FRAMES, ELECTRIC RACEWAY AND RELATED EQUIPMENT, SHALL BE EFFECTIVELY AND PERMANENTLY GROUNDED IN ACCORDANCE WITH PERTINENT SECTIONS OF ARTICLE 250 OF NEC. RESISTANCE TO GROUND SHALL NOT EXCEED 10 OHMS.
- B. ALL RACEWAYS SHALL HAVE AN APPROVED SIZED, INSULATED, STRANDED COPPER GROUNDING TYPE CONDUCTOR.
- C. WHERE RACEWAYS CONNECT TO A CONCENTRIC K.O. PROVIDE GROUNDING LOCKNUT OR BUSHING AND BOND WIRE EXTENDED AND BONDED TO ENCLOSURE, SIZE AS PER NEC.

3.12 DITCHING, EXCAVATION AND BACKFILLING: PERFORM ALL DITCHING, EXCAVATION AND BACKFILLING REQUIRED FOR THE ELECTRICAL WORK. PROVIDE AND MAINTAIN ALL SHEATHING, BRACING AND PROPER GUARDS FOR PREVENTION OF ACCIDENTS.
3.13 UTILITY COMPANY SERVICE CONTRACTOR TO BE RESPONSIBLE FOR COORDINATING AND PROVIDING REQUIRED WORK FOR SUPPLYING ELECTRICAL POWER AND COMMUNICATIONS UTILITIES TO THE PROJECT.
3.14 FINAL INSPECTION TESTS: TEST SYSTEM FOR SHORTS AND GROUNDS. FAULTY WIRING SHALL BE REMOVED AND REPLACED. AFTER SYSTEM IS CONNECTED COMPLETELY, TEST FOR INSULATION RESISTANCE. RESISTANCE LOWER THAN OUTLINED IN THE NEC, MANUFACTURER'S DATA, ETC., SHALL BE REMOVED AND REPLACED. ANY DEVICE, APPARATUS OR FIXTURE UNDER THIS CONTRACT SHOWING SUBSTANDARD READINGS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ARCHITECT.
3.15 LABEL ALL RECEPTACLES WITH 3/16" HIGH BLACK LETTERING ON CLEAR TAPE. IF THE RECEPTACLE IS BLACK OR BROWN, PROVIDE WHITE LETTERING ON CLEAR TAPE. LABEL TO BE NEATLY CENTERED IN THE TOP SPACE OF THE COVERPLATE, AND SHALL INDICATE THE SERVING PANEL AND CIRCUIT ORIGIN.

GENERAL NOTES

1. THE ELECTRICAL DRAWINGS, SPECIFICATIONS AND GENERAL NOTES DESCRIBE THE SCOPE OF WORK AND THE DOCUMENTS SHALL BE USED FOR THE PURPOSE OF BIDDING, BUILDING DEPARTMENT REVIEW, AND TO SECURE THE NECESSARY CONSTRUCTION PERMIT ONLY.
2. BRANCH CIRCUITING AND WIRE COUNT MAY NOT BE INDICATED ON THESE PLANS. CONTRACTOR IS RESPONSIBLE TO COMPLETE THE BRANCH CIRCUIT WIRING IN ACCORDANCE WITH PLAN NOTES AND AS PERMITTED BY AUTHORITY. CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS AS A PART OF RECORD DRAWING SUBMITTAL TO ARCHITECT AND AUTHORITY HAVING JURISDICTION (AHJ).
3. ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH BOTH THE LOCALLY ADOPTED NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL ORDINANCES / AMENDMENTS.
4. ALL ELECTRICAL EQUIPMENT SHOWN IS NEW, CONTRACTOR FURNISHED AND INSTALLED, UNLESS OTHERWISE NOTED. IF CONTRACTOR PROPOSES TO SUBSTITUTE SPECIFIC EQUIPMENT SPECIFIED, A REQUEST FOR CONSIDERATION SHALL BE SUBMITTED TO THE OWNER AND ENGINEER PRIOR TO THE BID IN WRITING. ALL SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. NO SUBSTITUTIONS SHALL BE IMPLEMENTED WITHOUT THE APPROVAL OF THE ENGINEER OR RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE, AT HIS OWN EXPENSE, FOR ANY CHANGE RESULTING FROM HIS PROPOSED SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS OWN WORK, OR SUBSTITUTIONS WHICH AFFECT THE WORK OF OTHER CONTRACTORS.
5. THE ELECTRICAL DRAWINGS, CONDUIT RUNS, WIRING AND ELECTRICAL INFORMATION ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS TO DETERMINE THE LOCATION OF EQUIPMENT OR OUTLETS. COORDINATE WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
6. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES, CEILING MOUNTED OUTLETS AND EQUIPMENT.
7. ALL DEVICE MOUNTING HEIGHTS AND EXACT LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND ELEVATIONS PRIOR TO ROUGH-IN.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY TYPES OF CEILING SYSTEM. FIXTURES LOCATED IN DAMP OR WET LOCATIONS SHALL BE LISTED AND LABELED FOR USE IN SUCH LOCATIONS. CONTRACTOR SHALL PROVIDE ALL REQUIRED TRIMS AND HARDWARE TO ACCOMMODATE CEILING TYPE.
9. ALL RECESSED LIGHTING FIXTURES, PANELBOARDS, SWITCHES, ETC., MOUNTED IN FIRE RATED STRUCTURES SHALL BE ENCLOSED WITH AN APPROVED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE STRUCTURE. SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS, FLOORS, ETC., TO MAINTAIN THE FIRE RATING. FURNISH AND INSTALL FIRE RATED ENCLOSURE FOR ALL EQUIPMENT PENETRATING INTO FIRE RATED ENVELOPS, SPACES ETC.
10. PORTIONS OF THE CEILING SYSTEMS MAY BE INACCESSIBLE, THEREFORE, THE CONTRACTOR SHALL STRATEGICALLY LOCATE ACCESS BOXES, ETC., WHICH SHALL BE READILY ACCESSIBLE. ALL LIGHTING FIXTURE WIRING, BALLASTS, J-BOXES, ETC. SHALL BE ACCESSIBLE FROM FIXTURE OPENING.
11. ALL WIRING AND ELECTRICAL EQUIPMENT SERVING MECHANICAL AND PLUMBING EQUIPMENT SHALL BE IN ACCORDANCE WITH MECHANICAL AND PLUMBING SPECIFICATIONS AND ASSOCIATED DRAWINGS. CONTRACTOR SHALL OBTAIN THE REQUIRED MECHANICAL AND PLUMBING DRAWINGS AND PROVIDE ALL EQUIPMENT, RACEWAYS, WIRING, FITTINGS, ETC., AS INDICATED ON CONSTRUCTION DOCUMENTS.
12. ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED. VERIFY ELECTRICAL CHARACTERISTICS AND U.L. LISTING PRIOR TO CONNECTION.
13. THE CONTRACTOR SHALL VERIFY THE LOAD AND INPUT VOLTAGE OF ALL PROVIDED EQUIPMENT TO MATCH LOAD INPUT OF ALL EQUIPMENT BEING SUBSTITUTED.
14. ELECTRICAL OUTLETS ON OPPOSITE SIDES OF FIRE RATED WALLS AND PARTITIONS MUST BE SEPARATED BY DISTANCE OF 24 IN. HORIZONTALLY, IN ACCORDANCE WITH I.B.C. SEC. 711.3.2. OPENINGS GREATER THAN 16 SQ. IN. IN FIRE RATED WALLS MUST BE FIRE STOPPED.
15. PROVIDE AN ADDITIONAL JUNCTION BOX (SIZE AS REQUIRED) WHERE THE NUMBER OF CONDUCTORS EXCEEDS THE MAXIMUM ALLOWED FOR A GIVEN JUNCTION POINT OR OUTLET.
16. CONDUCTORS SHALL BE COPPER THHN/THWN 600 VOLT INSULATION UNLESS OTHERWISE NOTED. USE PROPER TEMPERATURE RATING OF CONDUCTORS BASED ON THE AMBIENT AIR TEMPERATURE WHERE CONDUCTORS ARE BEING USED. HIGHER AMPACITY CONDUCTOR AND LARGER RACEWAY SHALL BE PROVIDED TO OFFSET THE AMPACITY CORRECTION FACTORS AS INDICATED IN NEC TABLE 310 AND ELSEWHERE IN CODE.
17. ALL FLUORESCENT BALLASTS AND LAMPS PROVIDED BY PANDA EXPRESS.
18. DO ALL DRILLING, CUTTING, AND/OR CHANNELING AS REQUIRED FOR ELECTRICAL WORK INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE. PAINT ALL EXPOSED ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES AND FITTING TO MATCH IN COLOR TO ADJACENT SURFACES IN FINISHED AREAS. (PROTECT UL LISTINGS LABELS FROM PAINT).
19. EMERGENCY LIGHTING SHALL BE PROVIDED PER U.B.C. PROVIDE ADDITIONAL EMERGENCY ILLUMINATION AS REQUIRED BY AUTHORITIES HAVING JURISDICTIONS.
20. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA.

FIXED EQUIPMENT ON GRADE: OPERATING WEIGHT	33% OF
FIXED EQUIPMENT ON STRUCTURE: OPERATING WEIGHT	50% OF
EMERGENCY POWER AND COMMUNICATION & EQUIPMENT ON GRADE: OPERATING WEIGHT	50% OF
EMERGENCY POWER AND COMMUNICATION ON STRUCTURE: OPERATING WEIGHT	75% OF

FOR FLEXIBLE MOUNTED EQUIPMENT DOUBLE THE ABOVE VALUES.
SIMULTANEOUS VERTICAL FORCE - USE 1/3 HORIZONTAL FORCE.

CONDUIT, BUSDUCT, CABLE TRAY, WIREWAYS, ETC., SHALL BE BRACED IN ACCORDANCE WITH "GUILDELINES", PUBLISHED BY SMACNA AND PPIC.

NOTICE
THESE DRAWINGS ARE SUBJECT TO APPROVAL BY THE BUILDING DEPARTMENT, FIRE MARSHAL, UTILITY COMPANY AND OTHER AGENCIES AND AUTHORITIES HAVING JURISDICTION (AHJ). BY THE ACT OF SUBMITTING A BID PROPOSAL FOR WORK, THE CONTRACTOR HAS REVIEWED THE PLANS THOROUGHLY AND ACCEPTED FULL RESPONSIBILITY OF PLAN CORRECTIONS AND ASSOCIATED CONSTRUCTION COSTS REQUIRED BY AHJ.

MC CABLE SHALL NOT BE USED. PREWIRED MC CABLE WHIPS FROM LIGHTING FIXTURES ARE ACCEPTABLE WHEN SUPPLIED WITH THE FIXTURE AND NO LONGER THAN 72".

ELECTRICIAN TO PROVIDE STAINLESS STEEL COVER PLATES FOR ALL LOW VOLTAGE JUNCTION BOXES.

NO UNDER SLAB ELECTRICAL WORK ALLOWED UNLESS OTHERWISE NOTED ON PLAN.

ELECTRICAL SYMBOLS LIST

NOTE: ALL DIMENSIONS GIVEN ARE TO DEVICE CENTERLINES. CONTRACTOR TO COORDINATE ALL INSTALLATIONS.

POWER DISTRIBUTION

- SM — SINGLE-POLE SWITCH, MANUAL MOTOR STARTER
- J — J-BOX (WITH FLEX CONNECTION TO EQUIPMENT.)
- D — DISCONNECT SWITCH, WITH RATING AS SHOWN ON PLANS
- D — COMBINATION DISCONNECT SWITCH / MOTOR STARTER FURNISHED BY ELECTRICAL CONTRACTOR.
- BRANCH CIRCUITRY CONCEALED IN WALL OR CEILING WITH ADDITIONAL #12 INSULATED GND. U.N.O. HACHURES INDICATE NUMBER OF CURRENT CARRYING CONDUCTORS. 'X' INDICATES ADDITIONAL INSULATED, ISOLATED GROUND CONDUCTORS.
- BRANCH CIRCUITRY HOMERUN TO PANEL AS NOTED ON PLANS
- INDICATES EXTERIOR UNDERGROUND WIRE RUNS.

LIGHTING & LIGHTING CONTROLS

- L1 — LIGHTING FIXTURE. SUBSCRIPT LETTER DENOTES FIXTURE TYPE AS DESCRIBED IN LIGHT FIXTURE SCHEDULE.
- a $ — SINGLE-POLE SWITCH @ 44" A.F.F. U.N.O. LOWER CASE LETTER DENOTES FIXTURE CONTROL. 300V. 20A.
- $P — SINGLE-POLE LIGHT SWITCH WITH PILOT LIGHT @ 44" A.F.F. U.N.O. 300V. 20A.
- a $D — LEVITON RENOIR II WALLBOX DIMMER - SINGLE-POLE SWITCH @ 44" A.F.F. U.N.O. LOWER CASE LETTER DENOTES FIXTURE CONTROL. 120V, BALLAST 0-10V
- $OS $VS — OCCUPANCY (AUTO ON) / VACANCY (MANUAL ON) SENSOR SWITCH WITH AUTO OFF CONTROL, AND ADJUSTABLE SETTINGS FOR TIME OFF DELAY, FOOTCANDLE LEVEL, AND MASKING. WATTSTOPPER OR EQUAL, MOUNT AT 44" A.F.F. U.N.O. USE PW-100 FOR OFFICES/CONF/ETC.
- OS — CEILING MOUNTED OCCUPANCY SENSOR; 360° COVERAGE UNLESS NOTED OTHERWISE.

RECEPTACLES & COMMUNICATIONS OUTLETS

- DUPLEX CONVENIENCE OUTLET, 20A, 125V, MTD @ 18" A.F.F. U.N.O.
- SIMPLEX CONVENIENCE OUTLET, 20A, 125V, MTD @ 18" A.F.F. U.N.O.
- DUPLEX CONVENIENCE OUTLET MOUNTED 3" ABOVE COUNTERTOP BACKSPLASH OR APPROXIMATELY 44" A.F.F.
- GFCI DUPLEX CONVENIENCE OUTLET, 20A, 125V, 5 mA TRIP, MTD @ 18" A.F.F. U.N.O.
- GFCI DUPLEX CONVENIENCE OUTLET MOUNTED 3" ABOVE COUNTERTOP BACKSPLASH OR APPROXIMATELY 44" A.F.F.
- TELEPHONE OUTLET. PROVIDE FLUSH J-BOX @ + 18" AFF U.N.O W/ 1" CONDUIT W/ PULL WIRE TO MANAGER'S STATION. 'w' SUBSCRIPT INDICATES WALL PHONE AT 54" AFF.
- DATA OUTLET. PROVIDE FLUSH J-BOX @ + 18" A.F.F. U.N.O W/ 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION.
- COMBINATION TEL/DATA OUTLET. PROVIDE FLUSH J-BOX @ + 18" AFF U.N.O W/ 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION.
- T.V. SYSTEM DATA OUTLET. PROVIDE FLUSH J-BOX @ + 18" A.F.F. U.N.O W/ 1" CONDUIT WITH PULL WIRE TO MANAGER'S STATION. WHEN SHOWN ADJACENT RECEPTACLE, MOUNT AT RECEPTACLE HEIGHT. REFER TO RECEPTACLE FOR MOUNTING HEIGHT.
- SPECIAL PURPOSE RECEPTACLE MTD. @ 18" A.F.F. U.N.O., AMPERAGE AND PHASE AS NOTED ON PLANS, NEMA CONFIGURATION AS REQ'D.
- ISOLATED GROUND DUPLEX CONVENIENCE OUTLET (ORANGE), 20A.,125V., MTD @ +18" A.F.F.
- DOUBLE DUPLEX CONVENIENCE OUTLETS UNDER COMMON COVER
- ISOLATED DOUBLE DUPLEX CONVENIENCE OUTLETS (ORANGE) 20A.,125V.
- S — SPEAKER

ABBREVIATIONS

A	AMPERES	M.C.B.	MAIN CIRCUIT BREAKER
AL	ALUMINUM	M.L.O.	MAIN LUGS ONLY
A.F.F.	ABOVE FINISHED FLOOR	MTD.	MOUNTED
A.F.G.	ABOVE FINISHED GRADE	P.	POLE
C.	CONDUIT	SW.	SWITCH
C/B	CIRCUIT BREAKER	T.M.B.	TELEPHONE MOUNTING BOARD
CU.	COPPER	TYP.	TYPICAL
DISC.	DISCONNECT	U.N.O.	UNLESS NOTED OTHERWISE
(E)	EXISTING	V.	VOLTS
F.	FUSE	W.	WIRE
GFI	GROUND FAULT CURRENT INTERRUPTER	W.P.	WEATHERPROOF
		XFMR	TRANSFORMER
GND.	GROUND	Ø	PHASE
H.P.	HORSE POWER		
k	1000		

FIRE ALARM

- MANUAL PULL STATION WITH KEYED RESET. MOUNT UNIT AT 44" A.F.F. ALIGN WITH LIGHT SWITCH IF APPLICABLE.
- XENON STROBE UNIT MOUNTED AT 80" A.F.F. OR 6" BELOW CEILING (WHICHEVER IS LOWER). MUST MEET OR EXCEED A.D.A. REQUIREMENTS.
- COMBINATION XENON STROBE AND HORN/CHIME UNIT MOUNTED AT 80" A.F.F. OR 6" BELOW CEILING (WHICHEVER IS LOWER). UNIT MUST MEET OR EXCEED A.D.A. REQUIREMENTS.
- FACP — FIRE ALARM CONTROL PANEL. MOUNT TOP OF UNIT AT 72" A.F.F.
- FAAP — FIRE ALARM ANNUNCIATION PANEL. MOUNT TOP OF UNIT AT 72" A.F.F.
- PHOTO ELECTRIC TYPE SMOKE DETECTOR.
- DUCT MOUNTED PHOTO ELECTRIC SMOKE DETECTOR.
- RATE OF RISE HEAT DETECTOR.

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REVISIONS:

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PANDA EXPRESS

2096 INTERSTATE DR.
OPELIKA, AL, 36801

3600 FSDT

TWW REMODEL

E-000

ELECTRICAL SYMBOLS
SPECIFICATIONS, NOTES

BID ISSUE

TRUE WARM & WELCOME

LIGHTING FIXTURE SCHEDULE

PROVIDED FOR INFORMATION ONLY.
VERIFY AND INSTALL PER ELECTRICAL DRAWING

01-11-19

ITEM	SYMBOL	DESCRIPTION	QTY.	MFR. & CAT. NO.	REMARK
INTERIOR LIGHTING ITEM					
L1	L1	T-BAR CEILING RECESSED MOUNTED LED LIGHTING FIXTURE, 2' X 4', 120V BAKED-ON WHITE ENAMEL FINISH.	9	LSI FIXTURE: SFP24-LED-50-UE-DIM-35	KITCHEN CEILING LIGHTS, FURNISHED BY OWNER INSTALLED BY GC
L1EM	L1EM	T-BAR CEILING RECESSED MOUNTED LED LIGHTING EMERGENCY FIXTURE, 2' X 4', 120V BAKED-ON WHITE ENAMEL FINISH.	3	LSI FIXTURE: SFP24-LED-50-UE-DIM-EM	EMERGENCY KITCHEN CEILING LIGHTS FURNISHED BY OWNER INSTALLED BY GC
L4H0	L4H0	UNIVERSAL MOUNT EXIT SIGN, LED LIGHTED, 120/277V WITH BATTERY PACK, 2 FACE, GREEN LETTER	6	EXITRONIX GVEX-U-BP-WB-BL-R6	EXIT SIGN FURNISHED BY OWNER, INSTALLED BY GC
L6A	L6A	HOOD LIGHT	12	FURNISHED & INSTALLED BY EQUIPMENT SUPPLIER	LIGHTS SUPPLIED & PRE-WIRED BY HOOD VENDOR. ELECTRIC CONTRACTOR TO CONNECT MAIN WIRES TO SHUNT TRIP BREAKER AND HOOD CONTROL PANEL
L6B	L6B	WALK-IN COOLER FLUORESCENT LIGHT, 120 V 48"	2	KASON FIXTURE: # 1810LX4000	FURNISHED BY WIC VENDOR, G.R.E , INSTALLED BY GC
L19	L19	DOWN LIGHT, RECESSED IN CEILING	61	ELITE HOUSING: LD6IC-AT LED MODULE: ELITE LED LIGHTING RL607-750L-DIMTR-120-30K-SN-SN-90+	FURNISHED BY OWNER, INSTALLED BY GC
L19EM	L19EM	EMERGENCY DOWN LIGHT, RECESSED IN CEILING	8	ELITE HOUSING: LD6IC-AT LED MODULE: ELITE LED LIGHTING RL607-750L-DIMTR-120-30K-SN-SN-90+	EMERGENCY RECESSED DOWN LIGHT - NORMALLY ON INVERTER UNIT - ISOLITE, IMI-12-LC-V1 FURNISHED BY OWNER INSTALLED BY GC
L20	L20	3 3/4" ADJUSTABLE MR16 DOWN LIGHT, RECESSED IN CEILING	10	LIGHTOLIER: LYTECASTER-378WHX FRAME-IN KIT: 302MRSPX BULB: MR16 - GE - PRECISE IR 37 WATT 40 " BEAM	FURNISHED BY OWNER, INSTALLED BY GC
L29	L29	DECORATIVE PENDANT LIGHT	10	KUD JER ENTERPRISE MODEL NO. UL-2015088500 BULB: LED EDISON LAMP.1173467	FURNISHED BY OWNER, INSTALLED BY GC
L35	L35	9.8" DIA. DECORATIVE ISLA PENDANT LF INCANDESCENT	7	LBL LIGHTING, MODEL # LF512CRSC BULB: LED EDISON LAMP.1173467	HUNG @ 6'-6" AFF OVER DINING TABLES IN BETWEEN BOOTH FURNISHED BY OWNER, INSTALLED BY GC (VERIFY W/ PANDA)
L100	L100	MICRO INVERTER	1	ISOLITE #IMI 125	FURNISHED BY OWNER, INSTALLED BY GC
	S	SPEAKER	3	-	FURNISHED BY MUSIC VENDOR, INSTALLED BY MUSIC VENDOR

NIGHT LIGHTING REQUIREMENTS: "NL" DESIGNATION INDICATED NIGHT LIGHT ON UNSWITCHED CIRCUIT.
1. ONE NL BY SERVICE COUNTER, POS / CASHIER
2. ONE NL BY POS / CASHIER AT DRIVE THRU STATION IF APPLICABLE
3. ONE NL BY EACH EXIT DOORS IN DINNING ROOM & BACK OF HOUSE

EXTERIOR LIGHTING					
L85		WALL MOUNTED OVER SERVICE DOOR FIXTURE	1	HOWARD: VL305 30W LED, BRONZE	OVER EXTERIOR SERVICE DOOR. REFER ELEVATIONS FOR HEIGHT FURNISHED BY OWNER, INSTALLED BY GC
L86		NAVILITE EMERGENCY LIGHT	5	EXITRONIX MLED1-G-WP	OVER EXTERIOR ENTRANCE & SERVICE DOORS. REFER ELEVATIONS FOR HEIGHT. FURNISHED BY OWNER, INSTALLED BY GC
L86A		EXTERIOR RECESS EMERGENCY LIGHT	7	ELITE HOUSING: LD6IC-AT LED MODULE: ELITE LED LIGHTING WET LOCATION: RL607-14W-120-FL-30K-SN-SN -WET LOCATION	EMERGENCY RECESSED DOWN LIGHT - NORMALLY ON INVERTER UNIT - ISOLITE, IMI-12-LC-V1 FURNISHED BY OWNER INSTALLED BY GC
L40	L40	LINEAR LIGHT AT EXTERIOR STORAGE / UTILITY ROOMS	4	COOPER MX-4VT2-LD4-6-DR-UNV-L840-CD1-WL-U	FURNISHED BY OWNER, INSTALLED BY GC

CEILING SCHEDULE

INSTALLED AND FURNISHED BY. G.C. UNLESS NOTED OTHERWISE

NO	MANUFACTURER	DESCRIPTION	MATERIAL	FINISH
C1	ARMSTRONG	2' X 2' SUSPENDED T-BAR GRID CEILING SYSTEM	CUSTOM #PN91311	T-BAR AND GRID COLOR: SEPIA CONTACT AT ARMSTRONG-SHERRY BRUNT 1-800-442-4212
C2	USG	2' X 4' SUSPENDED T-BAR GRID CEILING SYSTEM	"VINYL ROCK" VINYL CLAD GYP. BD PANELS	SMOOTH AND WASHABLE WHITE
C3	GOLD BOND	MONOLITHIC CEILING ON METAL FRAMING	5/8" GYP. BD.	SMOOTH PAINT - WHITE AND WASHABLE

SEE SHEET A-103 FOR PAINT SCHEDULE

EQUIPMENT SCHEDULE

01-11-19

PLUMBING
- FS INDIRECT CONNECTION TO FLOOR SINK
- D DIRECT CONNECTION
- RIH ROUGH IN HEIGHT (TO CENTER OF CONNECTION)

ELECTRICAL
- D DIRECT CONNECTION
- C CONVENIENT OUTLET
- FSO FLOOR STUB OUT
- DC DROPPED CORD

DESCRIPTION
- O OWNER(PANDA EXPRESS, INC.)
- GC GENERAL CONTRACTOR
- EC ELECTRICAL CONTRACTOR
- KEC KITCHEN EQUIPMENT COMPANY
- S SERVING AREA
- K KITCHEN
- (E) EXISTING

SUPPLY BY	GAS K BTU	GAS R.I.H.	GAS SIZE	WASTE TYPE	WASTE SIZE	COLD WATER R.I.H.	COLD WATER SIZE	HOT WATER R.I.H.	HOT WATER SIZE	CONNECTION R.I.H.	CONNECTION TYPE	LOAD WATT	PHASE	H.P.	VOLTS	REMARKS	DIMENSIONS W x D x H (ø x H)	MANUFACTURE	MODEL #	EQUIPMENT	NO.
																				SERVING AREA EQUIPMENT	
O																SEE DETAIL	SEE PLAN	KEC	CUSTOM	HOT WELLS COUNTER. SERVICE	1B
O																SEE DETAIL	SEE PLAN	KEC	CUSTOM	SNEEZE GUARD	1S2
O										REF. ELEC.	D	475W	1		120	3 HEATING ELEMENTS	42.375" X 4.25" X 2.375"	GENERAL		43" RADIANT TOP HEATER	1S2b1
O											D	625W	1		120	4 HEATING ELEMENTS	55.375" X 4.25" X 2.625"	GENERAL		56" RADIANT TOP HEATER (2)	1S2b2
O											D	475W	1		120	3 HEATING ELEMENTS	42 1/8"x4.25"x2 5/8"	GENERAL		43" RADIANT TOP HEATER (2)	1S2-S1d
O											D	15A	1		120	SEE DETAIL	SEE PLAN	KEC	CUSTOM	CASHIER & BEVERAGE. COUNTER	2Q
O											C	650W	1		120	INDUCTION WARMER	15 3/4" DIA	I/O CONTROLS CORP	ABC-065-14	INDUCTION WELL - 17QT	3F
O											C	650W	1		120	INDUCTION WARMER	12 1/8" DIA	I/O CONTROLS CORP	ABC-065-10	INDUCTION WELL - 11QT	3G
O											C	250W	1		120		11 7/8" DIA. X 16"	VOLLRATH	747010W	SOUP WARMER	3T
O				FS	3/4"						C	9.3A	1		120	W/LID DISPENSER	30"x30"x35"	CORNELIUS	IDC-255	BEVERAGE DISPENSER	4AB
O										66"	C	7.2A	1		120	ON S/S SHELF	15"x11"X16"	WELBILT	16-2172	BOOSTER	4B
O																	40"x18"	WELBILT	15-2903-IP	SODA RACK	4C
O																	ø26"	CHART	CARBO-MAX 750	CO2 TANK	4D
O																		CO2Meter.com	RAD-0102-6	CO2 MONITOR & DISPLAY	4D-S1
O						96"	1/2"									WALL MOUNT	8"x2 3/8"x23 5/8"	3M WATER FILTRATION	BEV190-56164-01	WATER FILTER	4F
O				FS	1/2"												34"x17"x6 1/2"	KEC	CUSTOM	36" COLD PAN	5C
O																	SEE PLAN	KEC	CUSTOM	S/S COUNTER WITH SINK	6B
O										24"							SEE PLAN	KEC	CUSTOM	HOT WELLS COUNTER - DRIVE THRU	6F
O										24"							SEE PLAN	KEC	CUSTOM	CASHIER & BEVERAGE COUNTER-DT	9B
O										24"	C	14.8A	1		120	NEMA 5 PLUG	11" X 22" X 34"	BUNN	TB3	ICED TEA BREWER (2)	9D
O				FS	1/2"	24"	1/2"			84"	C	1.1A	1		120	---	22" X 14" X 26.5"	MANITOWOC	IB-0894YC	800 LBS. ICE MACHINE	10J
O										16"	D	11.8A	1		208/230	ON ROOF	34"X 24.13"X 25.75"	MANITOWOC	CVD-0875	REMOTE CONDENSER	10J-S1
O													1		115	FREE STANDING	34" X 22" X 44"	MANITOWOC	IY10620A	CUBER HALF DICE CUBE	10L
O													1		---	ABOVE ICE MACHINE	24"X 17.5"X 21.5"	MANITOWOC	D420	STORAGE BIN	10L-S1
																				KITCHEN EQUIPMENT	
O	450	10"	1-1/2"	FS	2"	10"	1/2"									SEE DETAIL	93"x42"	KEC	CUSTOM	93" CHINESE RANGE (L)	20A
O	190	10"	1"	FS	2"	10"	1/2"									SEE DETAIL	42"x42"	KEC	CUSTOM	42" CHINESE RANGE	20Q
O	122 EA.	14"	1 1/2"							24"	C	–	1		120		47"x31-1/2"x51-5/8"	FRYMASTER	MJ45-FPP345G	FRYER	21B
GRILL NEMA PLUG/CONNECTOR	O O									36"	DC	25A	3		208V		36"X27 7/8"X15 1/2"	STAR	536TGF	STAR ELECTRICAL GRILL	23B
O										24"	C	14.8A	1		120	NEMA 5	19.9"X34.5"X41.3"	WINSTON	HA4005	RICE HOLDING CABINET	24H
O	34.6	10" & 32"	3/4"														24"x19"x17"	PANTIN	GC-6100(N)	RICE COOKER	25A
O										24"	C	9A	1	1/2	115	NEMA 5-15P	60 1/4"X30"X30 5/8"	TURBO AIR	MUF-60-PE	60" WORKTOP FREEZER	30K
O				FS	3/4"					130"	D	2.0AMPS	1	1.5	120/208		SEE PLAN	KEC	CUSTOM	WALK-IN COOLER UNIT	31
O											D	3120w/2	1	1.5	208		SEE PLAN	KEC	CUSTOM	WALK-IN COOLER COND.	31-S
O				FS	3/4"					130"	D	FREEZER FAN COIL UNIT POWERED FROM CONDENSER UNIT					SEE PLAN	KEC	CUSTOM	WALK-IN FREEZER	32
O											D	10.0A	1	1.5	208		SEE PLAN	KEC	CUSTOM	WALK-IN FREEZER COND.	32-S1
O											D/ID	500W	1		120		SEE PLAN	KEC	CUSTOM	W.I.F. LTG, DOOR HEATER	32-S7
O										24"	C	12A	1	1/2	120	SELF CONTAINED	84"x33"x35"	TURBO AIR	TST-2400-D4-R-N	84" REF. PREP. TABLE	34O
O										24"	C	9A	1	1/3	120	SELF CONTAINED	48x33"x35"	RANDELL	9030K-7	48" REF. PREP. TABLE	34D
O				FS	2"	14"	3/4"	14"	3/4"								100"X30"	KEC	CUSTOM-(PS-100L)	POT SINK	40A
O				FS	2"	14"	3/4"	14"	3/4"							1 COMPARTMENT	42"x30"	KEC	CUSTOM-(VS-42)	42" VEGETABLE SINK (R)	41B
O				FS	2"	14"	3/4"	14"	3/4"							1 COMPARTMENT	42"x30"	KEC	CUSTOM-(VS-42)	42" VEGETABLE SINK (L)	41C
O										18GA POLISHED (WALL MTD. @ 59" A.F.F.)							SEE PLAN	PANDA WAREHOUSE	CUSTOM (NSF)	12"D S.S. WALL MTD. SHELF	43A
O										18GA POLISHED (WALL MTD. @ 71" A.F.F.)							SEE PLAN	PANDA WAREHOUSE	CUSTOM (NSF)	16"D S.S. WALL MTD. SHELF	43B
O										4 SHELVES MTD. @ 8" A.F.F., 26" A.F.F., 54" A.F.F., 72" A.F.F.							SEE PLAN	GOLD BOND	ISS	18"D WIRE SHELVES	44A
O										UNDER CABINET SHELVES WITH CASTER MTD. @ 8" A.F.F., 20" A.F.F.							SEE PLAN	GOLD BOND	ISS	SHORT 18"D WIRE SHELVES	44A-U
O										4 SHELVES MTD. @ 36" A.F.F., 48" A.F.F., 60" A.F.F., 72" A.F.F.							SEE PLAN	GOLD BOND	ISS	24"D WIRE SHELVES	44C
O										UNDER CABINET SHELVES MTD. @ 8" A.F.F., 14" A.F.F.							SEE PLAN	GOLD BOND	ISS	SHORT 24"D WIRE SHELVES	44C-U
O																	24"x 30" x 24"	KEC	CUSTOM	S.S. RICE COOKER STAND	46A
O																	22"x 20" x 34.06"	KEC	CUSTOM	RICE WARMER STAND	46B
O																	36 1/2"x 33" x 28"	KEC	CUSTOM	S.S. GRILL STAND	46K
O																	18 5/8"x 33" x 28"	KEC	CUSTOM	STAND	46N
O										50"	C	10A	1	1	120		9 15/16"x19-11/16"x19-3/4"	ELECTROLUX	DITO-TRS24	FOOD PROCESSOR	53
																				SMALL EQUIPMENT	
O				2"	24"	1/2"	24"	1/2"								W/TOWEL & SOAP	14 1/4"x18 1/2"	GSW	HS-1615NPASS	HAND SINK	45A
O										24"	C	105W	1		120	ON S.S. COUNTER	17" ø	WELBON	WRS-1088BS	RICE WARMER	54A
O										84"	DC	1800W	1		208	PLUG: NEMA 6-15R	17 1/2"X13 5/8"X22 9/16"	SHARP	R-CD1800M	MICROWAVE	55A
BY G.C.																AS REQUIRED BY LOCAL FIRE DEPT., CHECK LOCATION WITH PROJECT MANAGER				FIRE EXTINGUISHER	56
O																	SEE DETAIL	SAN-JAMAR	SANJT7500TBK	PAPER TOWEL DISPENSER	60D
O																WALL MOUNT	12"x20"x77"	GSW	5-DOOR	LOCKER (2)	61B
O																	20"X20"X23"	TIDEL	CUSTOM	SMART SAFE	62B
																				POS EQUIPMENT	
O																SEE ELEV. ON E-200	48" X 28" X 42"	KEC	CUSTOM	MANAGER STATION	49A
O										REF ELEV	C	100W	1		120	SEE DETAIL		DELL OPTIPLEX	Xe2	COMPUTER	83A
O										REF ELEV	C	50W	1		120	SEE PLAN		BROTHER	MFC-LC2700DW	POS PRINTERS	86A
O										REF ELEV	C	50W	1		120			BROTHER	MFC-LC2700DW	FAX	87
										REF ELEV	C	500W	1		120	CUSTOM	11 1/4"x14 1/2"x9"	RESNOS	S 460	CASH REGISTER SYSTEM	94
O																					
																				MEP EQUIPMENT	
O																SEE MECH. DWG.	SEE PLAN	CAPTIVE AIR	CUSTOM	EXHAUST HOOD	M1
O																SEE MECH. DWG.	SEE PLAN	CAPTIVE AIR	CUSTOM	HOOD CONTROL PANEL	M4
O																SEE MECH. DWG	SEE PLAN	CAPTIVE AIR		FIRE SUPPRESSION SYSTEM	M5
BY G.C.																SEE MECH/ELEC DWG	SEE PLAN			RECESSED ANSUL PULL BOX	M6
O										90"	D	5.1A	1	1/2	115	SEE MECH/ELEC DWG	42" X 10 5/8"	MARS	STD242-1U	BACK DOOR AIR CURTAIN	M8A
BY G.C.										24"	D	20A	1		120	SEE ELEC. DWG	25"X 9" X 10 3/8"	QUIK-SERV	CF-25 NON-HEATED	DT WINDOW AIR CURTAIN REGIONAL APPLICATION EITHER OR, NOT BOTH	M9a
BY G.C.										24"	D	30A	1		120 & 208	SEE ELEC. DWG	25"X 9" X 14 3/8"	QUIK-SERV	CHF-25 HEATED		
BY G.C.										24"	D	20A	1		120	SEE ELEC. DWG	47.5"X 59.5"	QUIK-SERV	SST-4860E	DT WINDOW	M10
BY G.C.				3"	36"	–	36"	–			D					FLOOR TYPE	24" X 24" X 13"	G.S.W. PHONE:1800-897-5999	SE2424FM	STAINLESS STEEL MOP SINK	P1
BY G.C.										87"	C	50W	1		120	SEE PLUMBING DWG.	55-1/2" x 27-3/4"	A.O. SMITH	BTH-120	GAS WATER HEATER	P2
BY G.C.					108"	3/4"	108"	3/4"		110"	C	6.0KW	1		208	SEE PLUMBING DWG.	18" DIA. X 18-1/4"	A.O. SMITH	DEL-10	ELEC. WATER HEATER	P3
O										REF ELEV	C	50W	1		120	SEE ELEV. ON E-200	SEE PLAN	HYPERACTIVE		HYPERACTIVE TIMER SYS.	94-1A
O										48"	C	50W	1		120	SEE PLAN	15" X 13"	DELL (17" COLOR)		LCD MONITOR-MANAGER	94-2-16
O										REF ELEV	C	50W	1		120	SEE ELEV. ON E-200	SEE PLAN	HME		HME INTERCOM SYS.	94-3-1
O										REF ELEV	C	60W	1		120	SEE PLAN	15"	POSIFLEX	KS7215	LCD DT MONITOR	94-W
O										REF ELEV	C	50W	1		120	W/ EMI LOCK	SEE PLAN	TOSHIBA (TIME LAPSE)		SECURITY VCR	95-4-S2
O										98"	C	50W	1		120	SEE ELEC. DWG	15" X 13"	DELL (17" COLOR)		SECURITY MONITORS	95-4-S3
O										REF ELEV	C	100W	1		120	IN S.S. COUNTER	SEE PLAN			MUSIC EQUIPMENT	95-5
BY G.C.																SEE ELEC. DWG				ELECTRICAL PANEL	E7
																				SIGNAGE	
O																	REF. INT. ELEV'S	LSI	CUSTOM	MENU BOARD	D2b
O																BF-POWER COAT "OF125 SILVER"		FAD	–	COMMUNITY BOARD	D3b
O										REF ELEV	C	130W	1		120	DEDICATED CIRCUIT	48.9" X 28.1" X 1.3"	LG	55WS50BS-B	LCD DISPLAY MONITOR	96-3B

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REVISIONS:

ISSUE DATE:

1st	DEVELOPER REVIEW	07.15.19
2nd	SITE PLAN SUBMITTAL	08.26.19
3rd	SITE COMMENTS	09.05.19
4th	ISSUE FOR PERMIT	10.01.19
5th	ISSUE FOR BID	11.07.19

DRAWN BY: PM / KL / EA

PANDA PROJECT #: S8-20-D7163
ARCH PROJECT #: 19027

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3600 FSDT

TWW REMODEL

E-001

ELECTRICAL SCHEDULES

BID ISSUE

TRUE WARM & WELCOME

- VERIFY QUANTITIES AND REQUIREMENTS OF ALL HVAC & KITCHEN EQUIPMENT PRIOR TO ROUGH IN.
- ALL TELEPHONE/DATA/TV CABLES AND WIRES, AND TERMINATIONS OF ALL REQUIRED CABLE AND JACKS WILL BE INSTALLED BY THIRD PARTY.
- POWER SUPPLY FOR COMPUTER AND CASH REGISTER (86A & 94) SHALL BE ON THE SAME CIRCUIT BREAKER, W/ ISOLATED GROUND & ORANGE RECEPTACLE.
- ALL CIRCUITRY SHOWN WITHOUT TICKS SHALL HAVE (2) WIRES PLUS EQUIPMENT GROUNDING CONDUCTOR.
- WHEN WORKING IN JURISDICTIONS WHICH HAVE ADOPTED THE 2008 NEC OR LATER, ALL MULTI-WIRE BRANCH CIRCUITS SHALL HAVE SEPARATE NEUTRALS TO MEET THE REQUIREMENTS OF 2008 NEC 210.4(B).
- TRANSFORMERS SHALL BE MOUNTED ABOVE CEILING BELOW TRUSSES WITH LOW VOLTAGE WIRING FEEDING TO ALL EXTERIOR LIGHTS.
- ~~FOR CANOPY LIGHTING, REFER TO SHEET E-101.1.~~

POWER PLAN GENERAL NOTES 2

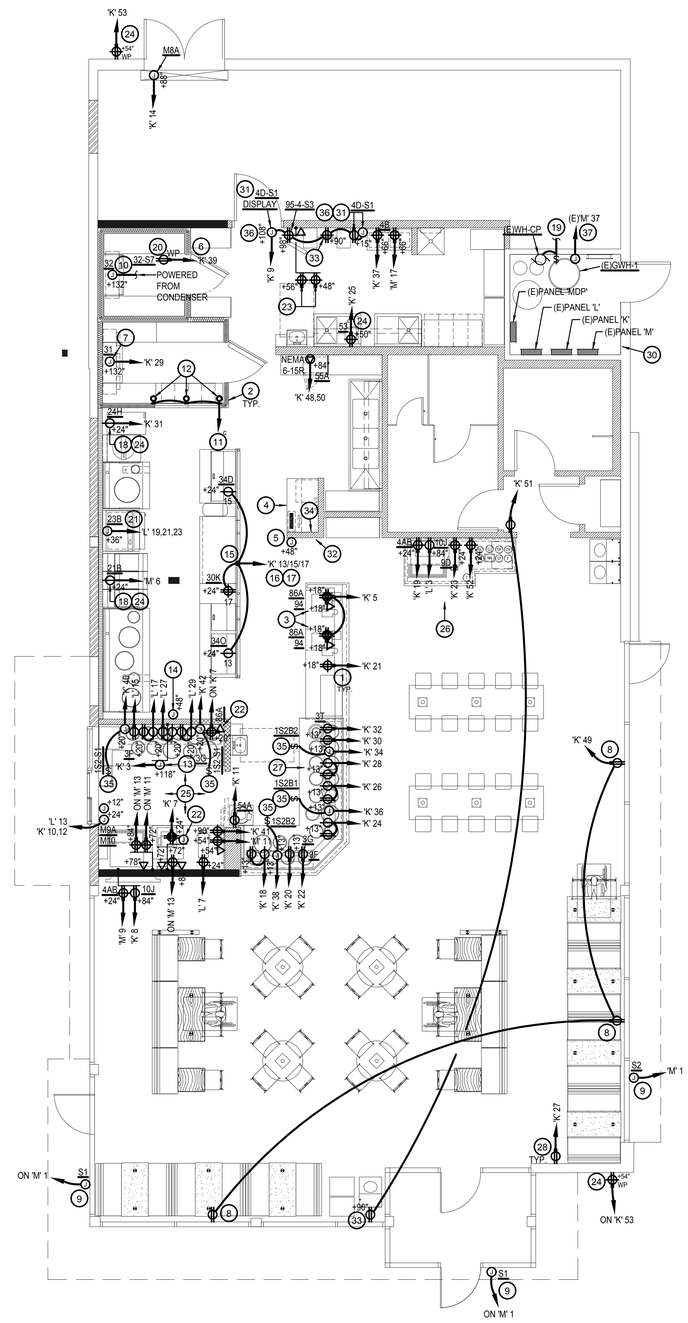
NOT TO SCALE E-100

1. ALL CIRCUITRY/CONDUIT FOR FRONT LINE EQUIPMENT TO BE ROUTED IN CASEWORK TO J-BOX IN WALL AND CONCEALED IN WALL.
2. PROVIDE SEALS AND EXPANSION COUPLINGS ON ALL CONDUITS ENTERING OR LEAVING AREA OF TEMPERATURE DIFFERENCE. REFER TO DETAIL 6/E-400 FOR ADDITIONAL INFORMATION.
3. PROVIDE (2) 1-1/2" CONDUITS WITH PULL STRINGS FROM CASH REGISTER TO MANAGER STATION. SEE P.O.S. AND SERVICE LINE ELEVATIONS, 3/E-200.
4. SEE 'MANAGER STATION ELEVATION' 1/E-200 FOR ADDITIONAL OUTLETS AND J-BOXES.
5. ANSUL PULL STATION. REFER TO DETAIL, 2/E-400.
6. REFER TO 'LTG AND DOOR HEATER' WIRING DIAGRAM, 10/E-400.
7. REFER TO 'COOLER EVAPORATOR COIL' WIRING DIAGRAM, 8/E-400.
8. SHOW WINDOW RECEPTACLE SHALL BE CONTROLLED VIA SWITCH "b". REFER TO 4/E101. RECEPTACLE SHALL BE MOUNTED IN WALL AS CLOSE TO TOP OF STRUCTURAL HEADER AS POSSIBLE.
9. W.P. J-BOX FOR SIGNAGE. COORDINATE LOCATION WITH ARCHITECT / OWNER / SIGN PACKAGE. SIGN DISCONNECT PROVIDED BY SIGN CONTRACTOR.
10. REFER TO 'FREEZER EVAPORATOR COIL' WIRING DIAGRAM, SHEET 9/E-400. THE FAN COIL UNIT IS POWERED FROM THE CONDENSER UNIT VIA DISCONNECT CONNECTION. HEAT TAPE PROVIDED AND INSTALLED BY ELECTRICIAN.
11. ROUTE HOMERUN THROUGH LIGHTING SWITCHBANK 'A' (SWITCH AS NOTED IN LOWER CASE). REFER TO 4/E-101 FOR MORE INFORMATION.
12. CONNECT TO VEGETABLE DISPLAY LIGHTING PROVIDED WITH WALK-IN COOLER.
13. HOOD CONTROL PANEL/ANSUL SYSTEM CABINET. MOUNT CABINET DIRECTLY BELOW T-BAR CEILING.
14. PROVIDE 2-GANG J-BOX @ 48" AFF FOR HOOD CONTROL SWITCHES. REFER TO M-400 AND M-401.
15. 1" CONDUIT STUB UP LOCATION IN STAINLESS STEEL POWER PANEL FOR ISLAND KITCHEN EQUIPMENT CONNECTION. REFER TO DETAIL 2/A-109. COORDINATE LOCATION WITH ARCHITECT / OWNER.
16. ROUTE CABLING / CIRCUITRY THROUGH 1" CONDUIT IN SLAB (KEYED NOTE #15).
17. UTILIZE SEAL TIGHT CONDUIT FOR ALL WIRING INCLUDED ALONG LOW WALL PANEL.
18. ALL DEVICES UNDER HOOD TO BE PROVIDED AND INSTALLED WITH SHUNT TRIP CIRCUIT BREAKER AND WATERPROOFING BOX (RED DOT #CKSUV). REFER TO COOKLINE ELECTRICAL ELEVATIONS, 6/E-200.
19. RECIRCUIT EXISTING WATER HEATER CIRCULATION PUMP (WH-CP) TO BACK-OF-HOUSE LIGHTING CIRCUITRY/CONTROL.
20. PROVIDE WEATHERPROOF RECEPTACLE FOR HEAT TAPE. COORDINATE FINAL LOCATION WITH REFRIGERATION INSTALLER.
21. ELECTRIC GRILL '23B': FEED WITH 3 #8, #10 GROUND, 1" CONDUIT. REFER TO 4/E-200.
22. SEE DRIVE THRU ELEVATION 2/E-200 FOR CONDUIT SIZES AND CONFIGURATIONS.
23. FURNISH AND INSTALL (2) HUBBELL GFSTBF20 FACELESS GFCI (OR EQUIVALENT) (1) FOR EACH CIRCUIT FEEDING EQUIPMENT BENEATH THE KITCHEN HOOD WHICH UTILIZES SIMPLEX 120V RECEPTACLES. INSTALL IN AN ACCESSIBLE LOCATION IN THIS GENERAL AREA, OR AS DIRECTED BY THE OWNER, ARCHITECT OR ENGINEER. PROVIDE ADDITIONAL OUTLETS AS REQUIRED TO FEED ALL SUCH LOADS BENEATH HOOD. FASTEN A PLASTIC LABEL STATING CIRCUIT AND EQUIPMENT SERVED FOR EACH OUTLET.
24. PROVIDE WP, COVER, IN-USE RED DOT (#CKSUV).
25. SEE FOR DRIVE-THRU ELEVATIONS, 2/E-200.
26. SEE DRINK STATION ELEVATIONS, 5/E-200.
27. SEE 3/E-200 FOR SERVICE LINE ELEVATIONS.
28. SEE RECEPT. DIAGRAM 3/E-400.
29. ~~SEE DINING ROOM MONITOR ELEVATION, SHEET 9/E-200.~~
30. EXISTING IRRIGATION CONTROLLER LOCATED IN UTILITY ROOM (VERIFY EXACT LOCATION IN FIELD) TO BE REUSED. RECIRCUIT TO A-53.
31. REFER TO SHEET 9/E-200 FOR INSTALLATION OF C02 MONITOR.
32. SEE SWITCH BANK ELEVATION , SHEET 7/E-200.
33. FLY LIGHT RECEPTACLE SHALL BE INSTALLED WITH A RECESSED CLOCK OUTLET. TYP OF LOCATIONS.
34. SEE SECURITY KEY PAD ELEVATION 1/E-200.
35. CONNECT HEAT LAMPS TO COUNTER-MOUNTED SWITCH PROVIDED AND INSTALLED BY CONTRACTOR. COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT PROVIDER.
36. E.C. TO PROVIDE C02 MONITOR, MOUNT OVER J-BOX WITH WIRING THROUGH WALL CONDUIT FOR CLEAN INSTALLATION. PROVIDE ALL OTHER REQUIRED CONNECTIONS AND COMPONENTS FOR FULLY WORKING SYSTEM.
37. EXISTING GAS WATER HEATER (GWH-1) AND CIRCUIT TO REMAIN AS-IS.

POWER PLAN KEYED NOTES 3

NOT TO SCALE E-100

ALL SINGLE PHASE RECEPTACLES RATED 150V OR LESS, 50A OR LESS, AND ALL THREE-PHASE RECEPTACLES RATED 150V TO GROUND OR LESS, 100A OR LESS INSTALLED IN BATHROOMS, KITCHENS, FOOD PREP AREAS, ON ROOFTOPS, OUTDOORS, LOCKER ROOMS, INDOOR WET LOCATIONS, GARAGES, SERVICE BAYS, CRAWLSPACES, UNFINISHED PORTIONS OF BASEMENTS, AND WITHIN 6' FROM TOP INSIDE EDGE OF SINKS, SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION, PER NEC 210.8(B). GFCI PROTECTION SHALL BE BY EITHER RATED BREAKERS OR DEVICES. GFCI PROTECTION SHALL BE IN AN ACCESSIBLE LOCATION, NOT BEHIND EQUIPMENT.



POWER FLOOR PLAN 1

Scale: 3/16"=1'-0" E-100

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PANDA PROJECT #: S8-20-D7163
ARCH PROJECT #: 19027

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TWW REMODEL

E-100

POWER FLOOR PLAN

BID ISSUE

TRUE WARM & WELCOME

- UNLESS NOTED OTHERWISE ON PLANS, ALL EXISTING LIGHTING TO BE REMOVED AND CIRCUITS DEMOLISHED BACK TO ASSOCIATED PANELS.
- CONTRACTOR SHALL PROVIDE ALL REQUIRED HARDWARES, BRACKETS, ETC. FOR A COMPLETE LIGHTING FIXTURE INSTALLATION.
- ALL LIGHTING FIXTURES SHALL BE SUPPORTED PER N.E.C. 410-16(C). SEE DETAIL, 4/E-400.
- CONTRACTOR SHALL INSTALL ALL LIGHTING FIXTURES INCLUDING OWNER-FURNISHED FIXTURES.
- ALL FIXTURE BALLASTS SHALL BE U.L. LISTED.
- ~~E.C. SHALL INSTALL OWNER SUPPLIED LED STRIP LIGHTING & CUT TO PROPER LENGTH. COORDINATE WITH OWNER FOR EXACT LENGTHS AND FINAL LOCATIONS.~~
- WHEN WORKING IN JURISDICTIONS WHICH HAVE ADOPTED THE 2008 NEC OR LATER, ALL MULTI-WIRE BRANCH CIRCUITS TO HAVE SEPARATE NEUTRALS TO MEET THE REQUIREMENTS OF 2008 NEC 210.4(B).
- ALL FLUORESCENT FIXTURES SHALL HAVE INTEGRAL DISCONNECTING MEANS PER 2005 NEC 410.73(G) and 2008 NEC 410.130(G)(1).
- ALL CIRCUITRY SHOWN WITHOUT TICKS SHALL HAVE (2) WIRES PLUS EQUIPMENT GROUNDING CONDUCTOR.
- 'N.L.' DESIGNATION INDICATES NIGHT LIGHT ON UNSWITCHED CIRCUIT.
- ALL EXIT SIGNS (TYPE 'L4HO') AND EXTERIOR EMERGENCY EGRESS FIXTURES (TYPE 'L86') ARE TO BE CIRCUITED AHEAD OF ANY SWITCHING OR AUTOMATIC CONTROLS.

LIGHTING GENERAL NOTES 2

NOT TO SCALE E-101

1. SWITCHBANK 'A'. REFER TO SCHEDULE 4/E-101.
2. ROUTE HOMERUN THROUGH LIGHTING SWITCHBANK 'A' (SWITCHES AS NOTED IN LOWER CASE). REFER TO SCHEDULE 4/E-101 FOR MORE INFORMATION.
3. ROUTE THROUGH CONTACTS IN HOOD CONTROL PANEL 'M4' FOR CIRCUIT POWER. REFER TO 3/E-401.
4. PROVIDE SEPARATE UNSWITCHED HOT CONDUCTOR (SAME CIRCUIT, NOT CONTROLLED BY SWITCH IN SWITCHBANK) TO LOCALLY SWITCHED FIXTURES AND EMERGENCY FIXTURE BATTERY TRIGGER LEADS.
5. ~~DUPLEX RECEPTACLE FOR LED ROPE. INSTALL ABOVE CEILING AT +120". REFER TO A-402 FOR MORE INFORMATION.~~
6. WALK-IN COOLER LIGHT FIXTURES AND PILOT LIGHT SWITCH PROVIDED WITH COOLER INSTALLED BY E.C. REFER TO 'COOLER EVAPORATOR COIL' WIRING DIAGRAM, 8/E-400.
7. WALK-IN FREEZER LIGHT FIXTURE AND PILOT LIGHT SWITCH PROVIDED WITH FREEZER INSTALLED BY E.C. REFER TO 'FREEZER LTG AND DOOR HEATER WIRING DIAGRAM', 10/E-400.
8. REFER TO 'EXHAUST FAN CONTROL DIAGRAM', 5 / E-400, FOR MORE INFORMATION.
9. FIXTURES IN THIS ROOM SHALL BE LOCALLY SWITCHED.
10. LIGHTING INVERTER FOR EMERGENCY LIGHTING TO BE MOUNTED NEXT TO CEILING. RE: 9/E-200.
11. ~~LED TRANSFORMER FOR LED ROPE LIGHTING LOCATION, MOUNT ABOVE CEILING.~~
12. ~~DUPLEX RECEPTACLE FOR LED ROPE. INSTALL BEHIND CABINET AT +36". REFER TO A-402 FOR MORE INFORMATION.~~
13. DO NOT CIRCUIT LIGHTS IN THIS ROOM THROUGH AUTOMATIC CONTROL PER NEC 110.26(D).
14. CIRCUIT LIGHTS IN THIS ROOM THROUGH CEILING MOUNTED OCCUPANCY SENSORS FOR AUTOMATIC CONTROL OF LIGHTS. PROVIDE WALL SWITCHES AS INDICATED FOR MANUAL CONTROL.

LIGHTING KEYED NOTES 3

NOT TO SCALE E-101

NOTE:
FIXTURES TO BE ROUTED VIA TIME TIMECLOCKS ARE SHOWN ON DETAIL 11/E-400.

NOTE:
CONTRACTOR TO INSTALL (2) 5 GANG SWITCH BOXES AS SHOWN BELOW. DO NOT INSTALL SEPARATE/INDIVIDUAL BOXES FOR EACH SWITCH

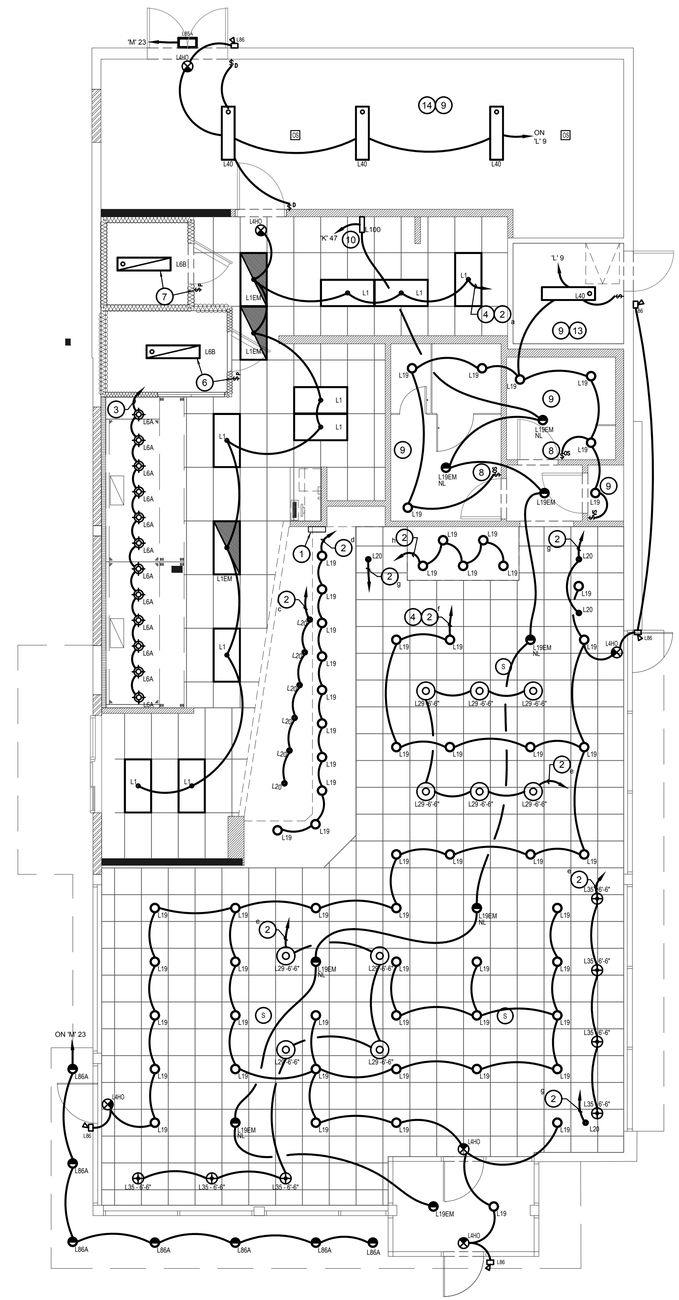
(a)	(b)	(c)	(d)	(e)
$	$	$D	$D	$D
BACK OF HOUSE LTG & EX. FAN & RECIRC PUMP	SHOW WINDOW RECEPS	WALK-IN, MENU LED ACCENTS	SERVING LINE SOFFIT	DINING PENDANTS
(f)	**(g)**	**(h)**	**(i)**	**60:00**
$D	$D	$D	$D	
INTERIOR DINING	DECORATIVE LIGHTING	BEVERAGE COUNTER	SPARE	INTERIOR LIGHTING SHUT DOWN OVERRIDE

SWITCHBANK SCHEDULE 'A'

TAG	SWITCH TYPE	AREA SERVED / SWITCH LABEL	CIRCUIT	LOAD
a	TOGGLE SWITCH	BACK-OF-HOUSE / RR FANS	'K' 45	1545 VA
b	TOGGLE SWITCH	SHOW WINDOW RECEP	'K' 49	540 VA
c	DIMMING SWITCH	WALK-INS, MENU	'K' 1	136 VA
d	DIMMING SWITCH	SERVING LINE SOFFIT	'K' 45	140 VA
e	DIMMING SWITCH	DINING PENDANTS	'K' 47	123 VA
f	DIMMING SWITCH	INTERIOR DINING	'K' 47	595 VA
g	DIMMING SWITCH	DECORATIVE LIGHTING	'K' 47	24 VA
h	DIMMING SWITCH	BEVERAGE COUNTER	'K' 47	70 VA
i	SPARE			
j	OVERRIDE			

LIGHTING SWITCHBANK SCHEDULE 4

NOT TO SCALE E-101



LIGHTING FLOOR PLAN 1

Scale: 3/16"=1'-0" E-101

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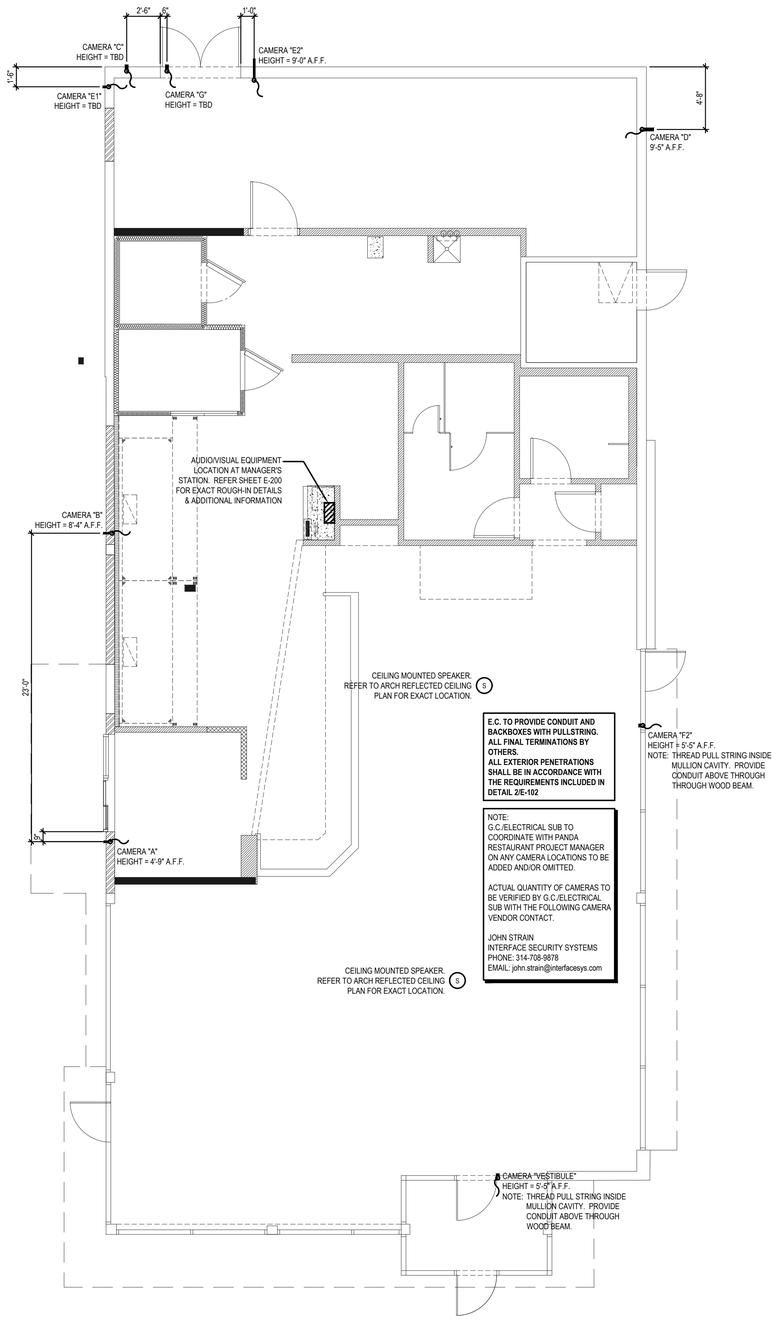
TWW REMODEL

E-101

LIGHTING FLOOR PLAN

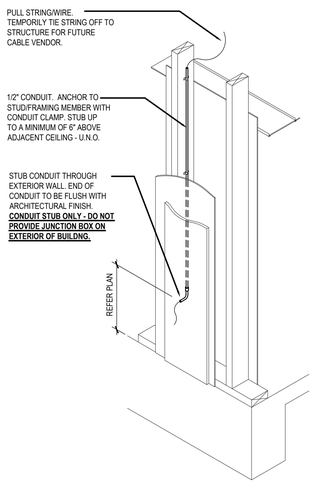
BID ISSUE

TRUE WARM & WELCOME



SECURITY CAMERA PLAN | 1

Scale= 1/4" = 1'-0" | E-102



CONDUIT ROUGH-IN DETAIL | 2

NOT TO SCALE | E-102

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E-102

SECURITY CAMERA PLAN

BID ISSUE

TRUE WARM & WELCOME

- ALL ROOF MOUNTED EQUIPMENT SHALL BE IN NEMA-3R ENCLOSURES.
- ALL CONDUIT RUNS SHOWN ON THE ROOF SHALL BE RUN BELOW IN THE CEILING SPACE WHERE AMBIENT TEMPERATURE WILL BE BELOW 30° C. FINAL CONNECTIONS TO THE ROOF EQUIPMENT IS LIMITED TO 5'-0' OF DIRECT SOLAR EXPOSURE.
- VERIFY ALL FUSE SIZES AND TYPES WITH THE MECHANICAL EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
- REVIEW THE MECHANICAL PLANS FOR HVAC CONTROL REQUIREMENTS AND SCOPE OF WORK PRIOR TO BIDDING AND INCLUDE ALL COSTS IN BID.
- VERIFY CONNECTION POINTS OF ALL HVAC EQUIPMENT PRIOR TO INSTALLATION. PROVIDE CONTROL VOLTAGE CONNECTION TO DUCT MTD. SMOKE DETECTOR AS REQUIRED BY MECHANICAL DRAWING M-100 AND INTERLOCK WITH FIREALARM.
- SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT AND THERMOSTATS. PROVIDE RACEWAY SYSTEM FOR ALL CONTROL WIRING AS REQUIRED BY MECHANICAL DRAWING M-100.
- E.C. COORDINATE ELECTRICAL, MECHANICAL, FIRE ALARM (IF REQUIIRED) FOR INTERLOCK SEQUENCE FOR FIRE SUPPRESSION.
- RESTROOM EXHAUST FAN TO BE POWERED FROM BACK OF HOUSE LIGHTING CIRCUIT. SEE DETAIL 5/E400 FOR ADDITIONAL INFORMATION.
- PROVIDE FUSES WITH A LET-THROUGH CURRENT OF NOT GREATER THAN 5kAIC.
- PROVIDE STARTERS AS REQUIRED.

ROOF PLAN GENERAL NOTES 2

NOT TO SCALE E-104

1. ROUTE HOMERUN THROUGH BACK OF HOUSE LIGHTING CIRCUIT. REFER TO LIGHTING PLAN, 1/E-101. FAN TO BE CONTROLLED BY SWITCH FOR BACK OF HOUSE LIGHTING.
2. DUCT SMOKE DETECTOR. FURNISHED BY MECHANICAL/FACTORY, WIRED BY ELECTRICAL / FIRE ALARM CONTRACTOR. FURNISH AND INSTALL ALL RACEWAY, WIRING, AND ADDITIONAL ACCESSORIES REQUIRED FOR CODE COMPLIANCE AND UNIT SHUTDOWN.
3. CIRCUIT FEEDS FROM PANELBOARD - THROUGH HOOD CONTROL PANEL - UP TO ROOF. REFER TO DETAIL, SHEET 3/E-401 & KITCHEN HOOD SUBMITTAL DATA.
4. REFER TO CONDENSING UNIT WIRING DIAGRAM, 7/E-400.
5. STRUT RACK SUPPORT FOR EQUIPMENT DISCONNECT SWITCHES. REFER TO DETAIL, SHEET 2/E-401.
6. PROVIDE AND INSTALL 2-1/2" DIA GALVANIZED RIGID METAL CONDUIT AND WEATHERHEAD +24" A.F.G. CONDUIT TO BE STRAPPED TO CLOSEST JOIST TO THE MANAGER'S STATION (FULL DEPTH). VERIFY EXACT LOCATION IN FIELD.
7. DO NOT INSTALL UNTIL BACK DRAFT DAMPER INSTALLATION IS COMPLETE. UTILIZE FACTORY KNOCKOUTS FOR ELECTRICAL RUN FOR THIS FAN. REFER TO SHEET M-402.
8. MOUNT PHOTOCELL AS DETAILED ON SHEET 12/E-400.
9. STUB ELECTRICAL FEED FOR EF-1 & EF-2, THROUGH ROOF ON HINGE SIDE OF EXHAUST FANS, IN LOCATION AS SHOWN ON POWER ROOF PLAN. REFER TO DETAIL 3/M-501 FOR ADDITIONAL DETAILS.
10. ROUTE POWER FEEDS VIA FACTORY PROVIDED THRU-BASE CONNECTION AREA. COORDINATE WITH MECHANICAL.
11. UNIT INCLUDES FACTORY MOLDED CASE DISCONNECT SWITCH (NO OCP). VERIFY WITH MECHANICAL SUBMITTAL DATA. PROVIDE DISCONNECT IF / AS REQUIRED.

ROOF PLAN KEYED NOTES 3

NOT TO SCALE E-104

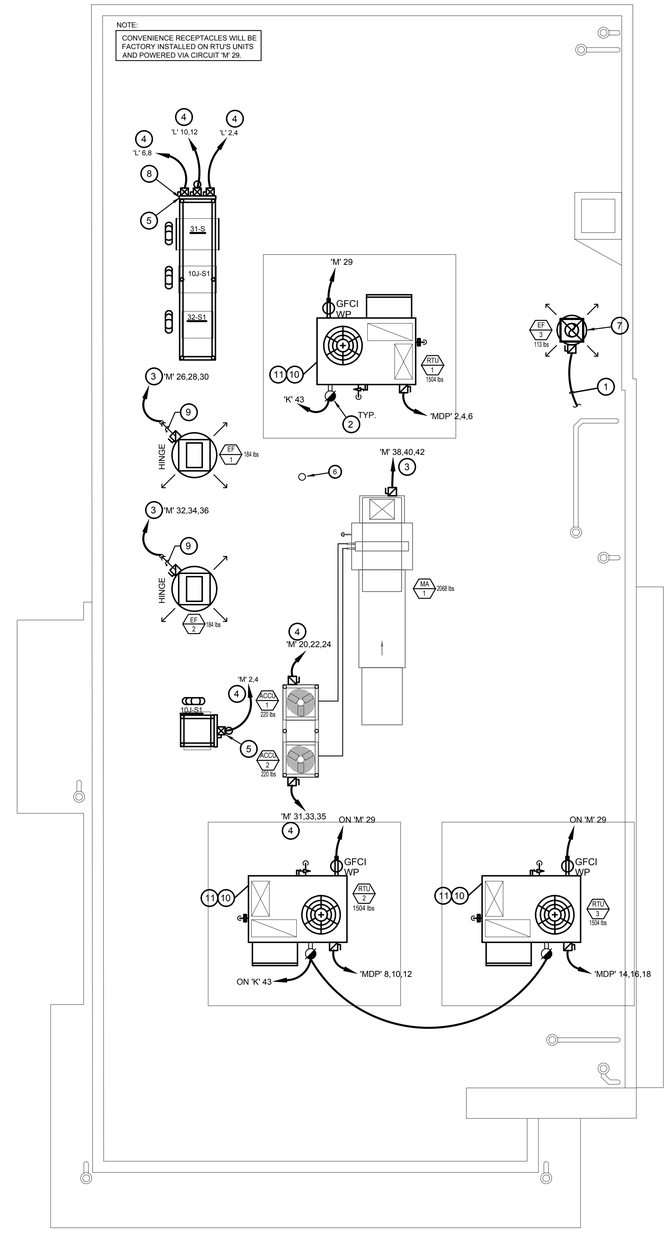
ROOFTOP EQUIPMENT SCHEDULE

TAG	DESCRIPTION	kW	H.P.	FLA	VOLT/Ø	WIRE, CONDUIT	CONN.	MOUNT HEIGHT	DISC. SW. WITH RK1 FUSES PER MFR'S REQ'S. AND/OR REMARKS
RTU1	A/C UNIT			52.0	208V.3Ø	3 #4, #10 GND., 1" C.	☐[4]	AT UNIT	60A. 3P. 3F. WP (1)(4)
RTU2	A/C UNIT			52.0	208V.3Ø	3 #4, #10 GND., 1" C.	☐[4]	AT UNIT	60A. 3P. 3F. WP (1)(4)
RTU3	A/C UNIT			52.0	208V.3Ø	3 #4, #10 GND., 1" C.	☐[4]	AT UNIT	60A. 3P. 3F. WP (1)(4)
ACCU-1	CONDENSING UNIT			21.4	208V.3Ø	3 #10, #10 GND., 1" C.	☐[4]	AT UNIT	30A. 3P. 3F. WP (1)
ACCU-2	CONDENSING UNIT			21.4	208V.3Ø	3 #10, #10 GND., 1" C.	☐[4]	AT UNIT	30A. 3P. 3F. WP (1)
MA-1	MAKE-UP AIR UNIT		5.0	16.9	208V.3Ø	3 #12, #12 GND., 3/4" C.	☐[4]	AT UNIT	(1)(4)
EF-1	EXHAUST FAN		2.0	7.5	208V.3Ø	3 #12, #12 GND., 3/4" C.	☐[4]	AT UNIT	(1)
EF-2	EXHAUST FAN		2.0	7.5	208V.3Ø	3 #12, #12 GND., 3/4" C.	☐[4]	AT UNIT	(1)
EF-3	EXHAUST FAN		1/4	5.6	120V.1Ø	2 #12, #12 GND., 3/4" C.	☐[4]	AT UNIT	30A. 2P. 1F. WP (1)(4)
31-S	W/I COOLER COND.			15.0	208V.1Ø	2 #12, #12 GND., 3/4" C.	☒[4]	AT UNIT	(2)(3)
32-S1	W/I FREEZER COND.			10.0	208V.1Ø	2 #12, #12 GND., 3/4" C.	☒[4]	AT UNIT	(2)(3)
10J-S1	ICE MACHINE COND.			11.8	208V.1Ø	2 #12, #12 GND., 3/4" C.	☒[4]	AT UNIT	(2)(3)

(1) DISCONNECT SWITCH PROVIDED WITH UNIT.
(2) COMBINATION 30A. 2P. 2F. WP DISCONNECT SWITCH WITH RK5 FUSES PER MANUFACTURER RECOMMENDATION.
(3) COMBINE CIRCUITRY IN 1" CONDUIT FROM J-BOX ON EQUIPMENT DISCONNECT SWITCH SUPPORT. REFER TO DETAIL THIS SHEET, 1 / E-104.
(4) ELECTRICAL FEEDS ARE TO BE ROUTED FROM PLENUM SPACE, UP THROUGH EQUIPMENT CURB, INTO BOTTOM OF EQUIPMENT, THROUGH FACTORY INSTALLED WATER TIGHT CONNECTIONS.

HVAC EQUIPMENT SCHEDULE 4

NOT TO SCALE E-104



ROOF POWER PLAN 1

1/4" = 1'-0" E-104

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E-104

ROOF POWER PLAN

BID ISSUE

TRUE WARM & WELCOME

- MINIMUM CONDUCTOR SIZE THIS SHEET TO BE #10 CU, 3/4" CONDUIT.
- EXISTING POLES / POLE-MOUNTED LIGHTING TO BE REUSED. REPLACE BULBS AND CLEAN HEADS. EXISTING CIRCUITS (INDICATED ON PLANS) TO BE REUSED AND REROUTED THROUGH NEW TIME CLOCK CONTROL (REF. "TIME CLOCKS" / SHEET E-400).

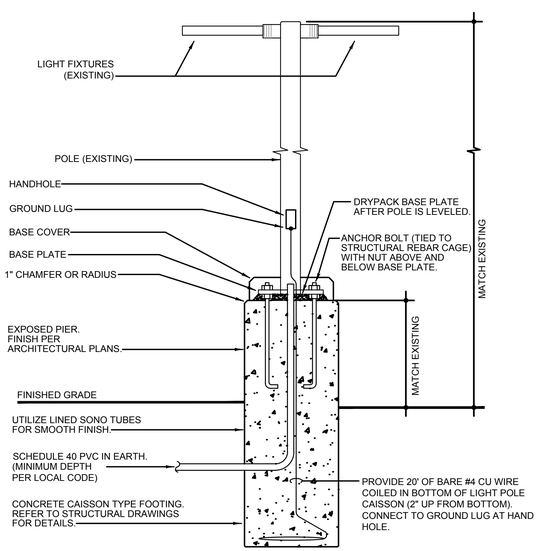
SITE PLAN GENERAL NOTES 2

E-105

1. FEED THROUGH LIGHTING CONTACTOR. REF: 11/E-400.
2. STUB UP LOCATION FOR (3) 3/4" CONDUITS & PULL STRINGS, TO ENTER BUILDING & UP TO 6" ABOVE CEILING. REFER TO SHEET 1/E-401.
3. STUB-UP LOCATION FOR MENU BOARD. SIGN DISCONNECT PROVIDED BY SIGN CONTRACTOR. COORDINATE PRECISE LOCATION WITH ARCHITECT / OWNER.
4. DRIVE-THRU SENSOR LOOP. COORDINATE LOCATION. REFER TO DETAIL 1 / E-401.
5. STUB-UP FOR DRIVE-THRU ORDER CONFIRMATION MONITOR. COORDINATE LOCATION WITH ARCHITECT / OWNER.
6. CONNECT TMB TO EXISTING TELEPHONE/DATA SERVICE DEMARCATION FOR BUILDING. COORDINATE SERVICE WITH UTILITY COMPANY.
7. RELOCATE EXISTING LIGHT POLE AS SHOWN TO ACCOMMODATE NEW DUMPSTER ENCLOSURE. REROUTE EXISTING UNDERGROUND CONDUIT/WIRING TO NEW POLE LOCATION. PROVIDE NEW POLE FOUNDATION PER DETAIL 4 / THIS SHEET.

(#) SITE PLAN KEYED NOTES 3

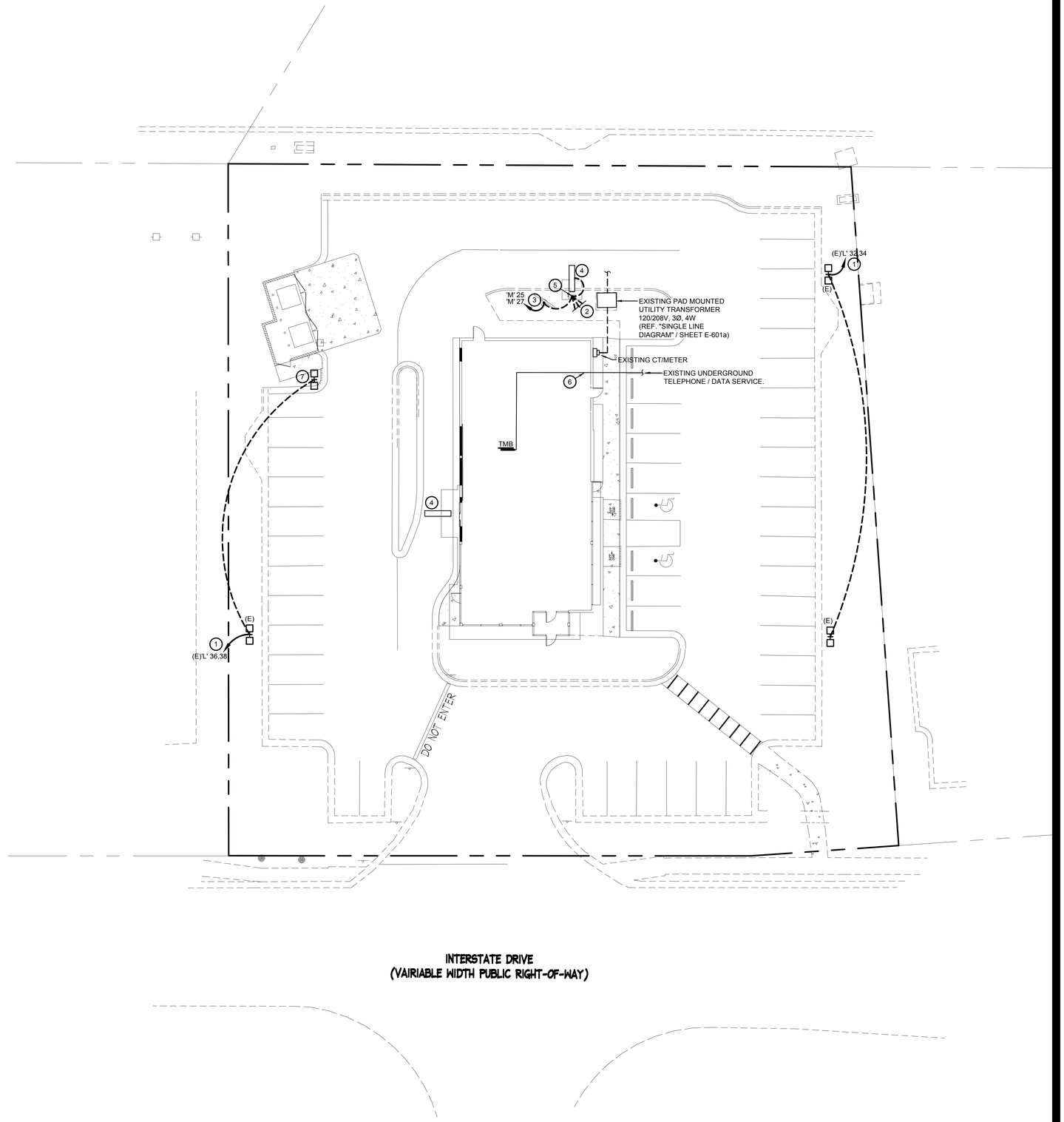
E-105



NOTE: THIS DETAIL IS FOR ELECTRICAL INSTALLATION ONLY. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.

POLE FOUNDATION DETAIL 4

NO SCALE E-106



SITE & EXTERIOR LIGHTING PLAN 1

1" = 16'-0" E-105

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
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Facsimile: 626.372.8288

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DRAWN BY: PM / KL / EA

PANDA PROJECT #: S8-20-D7163
ARCH PROJECT #: 19027

James F. Turner Engineers, L.P.
Consulting Engineers
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Dallas, TX 75231
214.750.2900
DRAWN/DESIGN: JBJ
QC/APPD: TNM
Job #42736
CoA #CA-5874-E

ALABAMA REGISTERED No. 14970 PROFESSIONAL ENGINEER JAMES F. TURNER, JR.
11/7/19

Heights Venture ARCHITECTURE DESIGN

HOUSTON
1111 North Loop West, Suite 800
Houston, Texas 77008
713 869 1103 V

DALLAS
5741 Legacy Drive, Suite 320
Plano, Texas. 75024
972 490 7292 V

PANDA EXPRESS

2096 INTERSTATE DR.
OPELIKA, AL, 36801

3600 FSDT

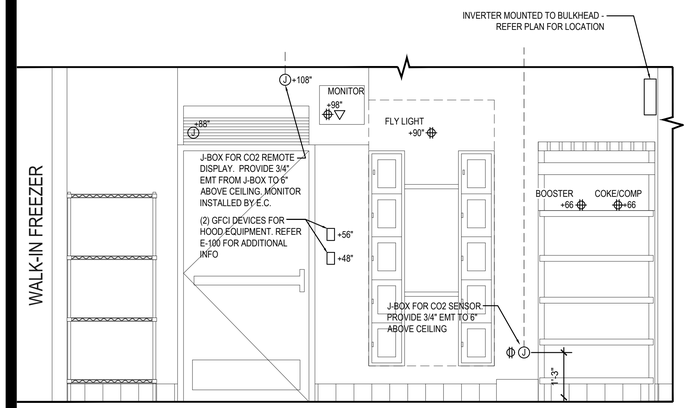
TWW REMODEL

E-105

SITE & EXTERIOR LIGHTING PLAN

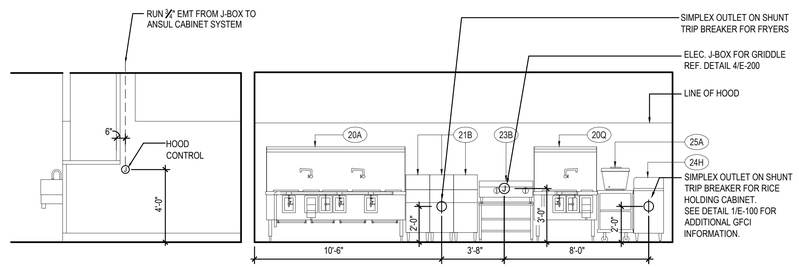
BID ISSUE

TRUE WARM & WELCOME



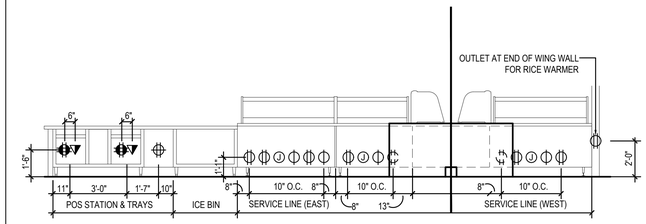
BOH REAR WALL ELEVATION | 9

NOT TO SCALE | E-200



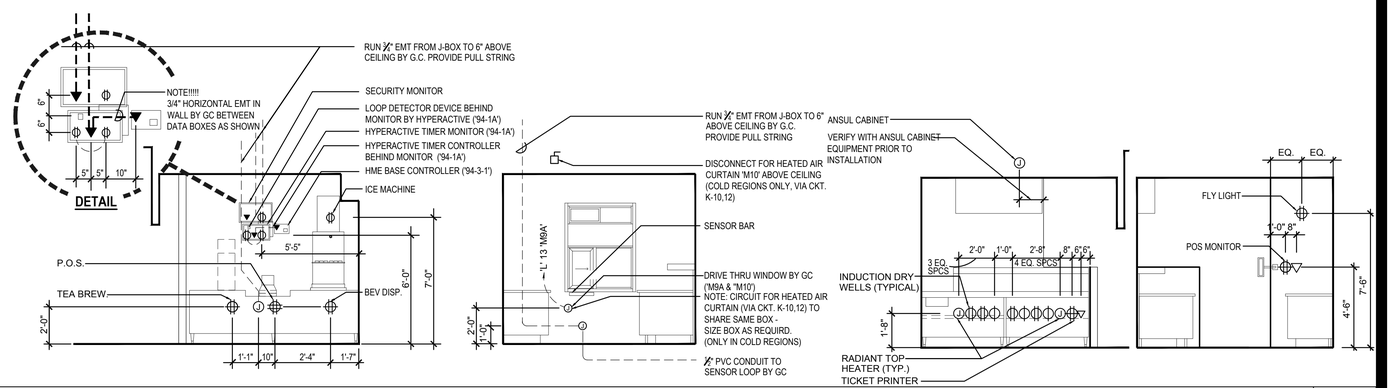
COOKLINE ELECTRICAL ELEVATIONS | 6

NOT TO SCALE | E-200



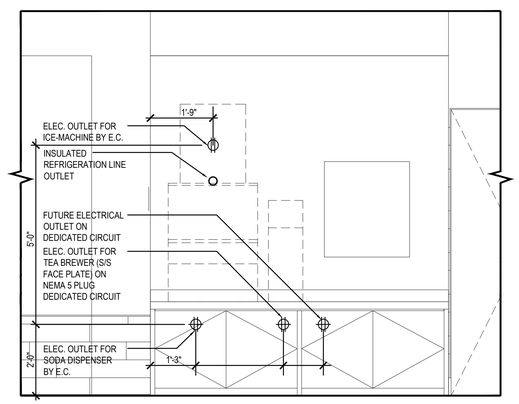
P.O.S. & SERVICE LINE ELEVATION | 3

NOT TO SCALE | E-200



DRIVE-THRU ELEVATIONS | 2

Scale: approx. 1/4"=1'-0" | E-200

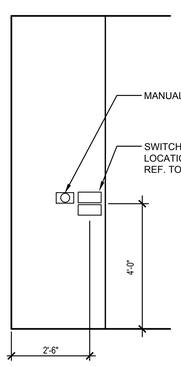


DRINK STATION ELEVATION | 5

NOT TO SCALE | E-200

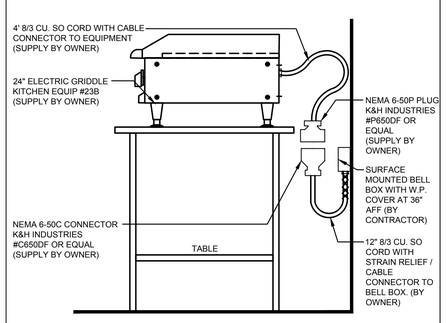
NOT USED | 8

NOT TO SCALE | E-200



SWITCH BANK ELEV | 7

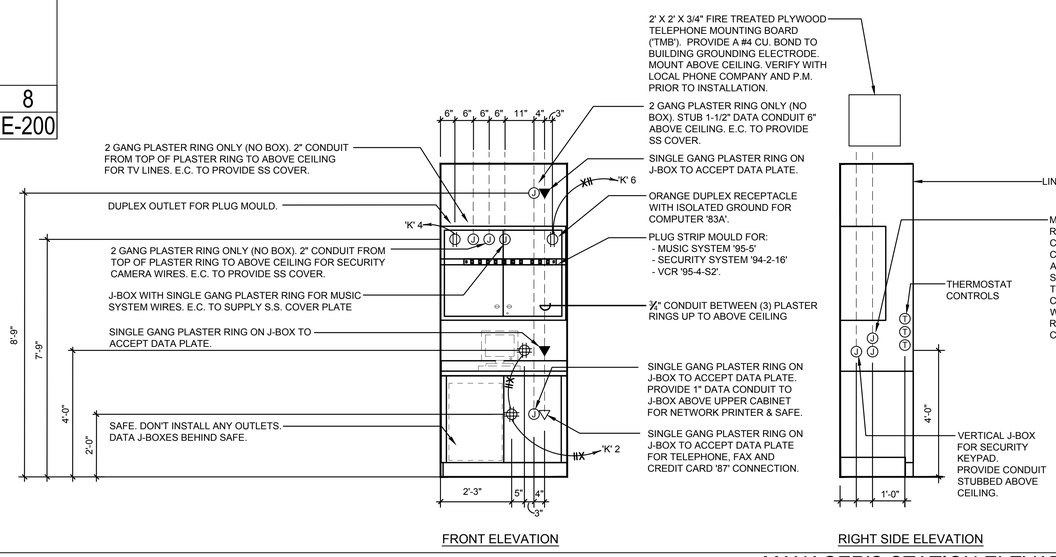
NOT TO SCALE | E-200



CIRCUIT GRIDDLE TO 40/3 CIRCUIT BREAKER WITH 120VAC SHUNT TRIP. SHUNT TRIP CONTROL FROM HOOD ANSUL SYSTEM. FEED WITH 3 #8, #10 GROUND, 1" CONDUIT.

GRIDDLE 23B (EG-24H) | 4

NOT TO SCALE | E-200



MANAGER'S STATION ELEVATIONS | 1

NOT TO SCALE | E-200

PANDA EXPRESS CHINESE KITCHEN

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DRAWN BY: PM / KL / EA

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ARCH PROJECT #: 19027

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2096 INTERSTATE DR.
OPELIKA, AL, 36801

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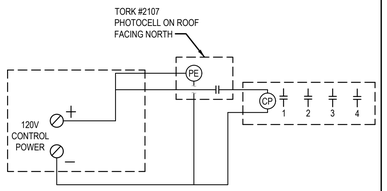
TWW REMODEL

E-200

ELECTRICAL ELEVATIONS

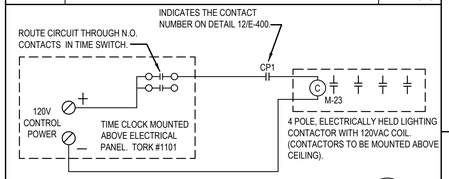
BID ISSUE

TRUE WARM & WELCOME



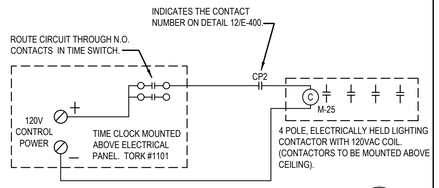
PHOTOCELL/TIME CLOCKS 12

NOT TO SCALE E-400



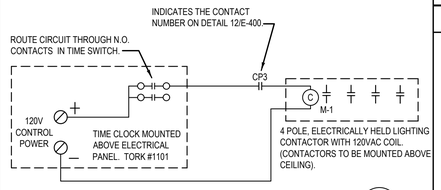
CONTRACTOR TO LABEL TIMECLOCK "BUILDING LIGHTS"

A



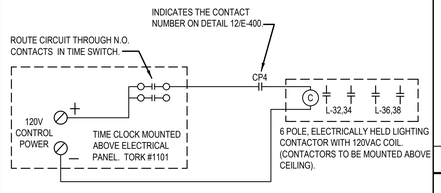
CONTRACTOR TO LABEL TIMECLOCK "DRIVE THROUGH"

B



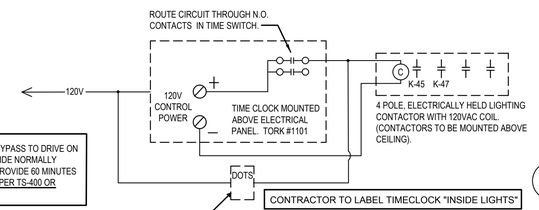
CONTRACTOR TO LABEL TIMECLOCK "SIGNS"

C



CONTRACTOR TO LABEL TIMECLOCK "PARKING LOT"

D



DIGITAL OVERRIDE TIMER SWITCH: SHALL BE INSTALLED AS A BYPASS TO DRIVE ON THE INTERIOR LIGHTING WHEN OPERATION IS REQUIRED OUTSIDE NORMALLY PROGRAMMED HOURS. OVERRIDE SWITCH SHALL BE SET TO PROVIDE 60 MINUTES OF EXTENDED OPERATING TIME. SWITCH SHALL BE WATTSTOPPER TS-400 OR EQUIVALENT.

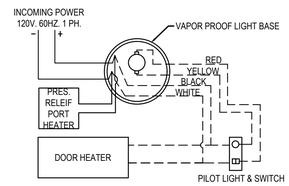
CONTRACTOR TO LABEL TIMECLOCK "INSIDE LIGHTS"

E

** G.C. AND ELECTRICIAN TO COORDINATE WITH PANDA PROJECT MANAGER FOR TIME SCHEDULE BEFORE FINAL SETTING ON TIME CLOCKS.

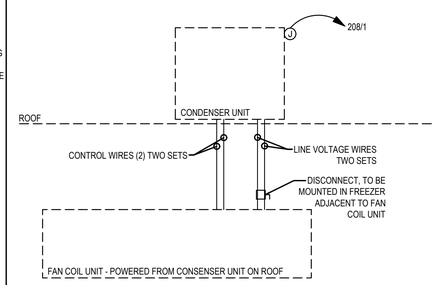
TIME CLOCKS 11

NOT TO SCALE E-400



FREEZER LTG & DOOR HTR WIRING DIAGRAM 10

NOT TO SCALE E-400

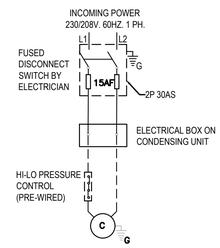


FREEZER EVAPORATOR COIL 9

NOT TO SCALE E-400

COOLER EVAPORATOR COIL 8

NOT TO SCALE E-400



CONDENSING UNIT 7

NOT TO SCALE E-400

1. WIRING SHOULD BE DONE ACCORDING WITH NATIONAL AND LOCAL CODE.

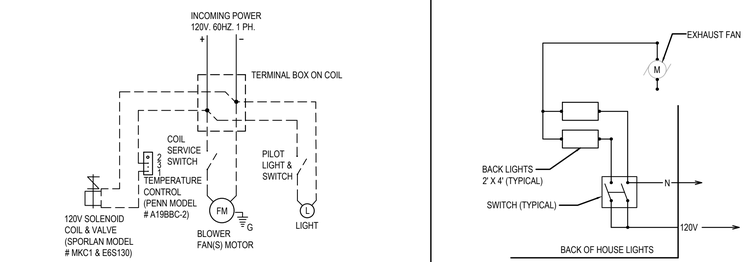
2. CHECK VOLTAGE ON CONDENSING UNIT AND EVAPORATOR COIL BEFORE ANY WORK IS DONE.

3. SOLID LINES TO BE WIRED BY LICENSED ELECTRICIAN ON SITE. DOTTED LINES ARE MANUFACTURE PRE-WIRED.

4. ANY PENETRATIONS THROUGH BOX SHALL BE SEALED AIR TIGHT.

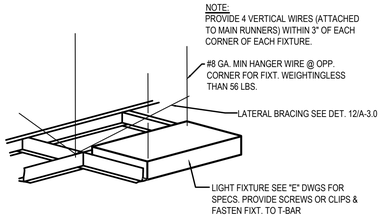
WIC / WIF WIRING DIAGRAM NOTES 6

NOT TO SCALE E-400



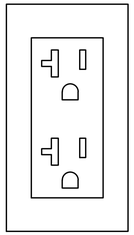
EXHAUST FAN CONTROL DIAGRAM 5

NOT TO SCALE E-400



LIGHT FIXTURE DETAIL 4

NOT TO SCALE E-400



ALL OUTLETS TO MOUNT VERTICALLY WITH GROUND PLUG @ LOW POSITION, TYP. U.N.O.

1. IF SHOW WINDOW OUTLETS AT WHITE GYP. BD SOFFIT WHITE DEVICES WITH WHITE COVERPLATES . (IF APPLICABLE)

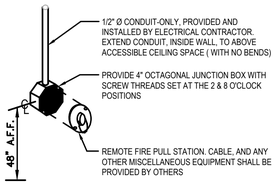
2. IF SHOW WINDOW OUTLETS AT DARK T-BAR CEILING, BLACK DEVICES WITH BLACK COVERPLATES .

ALL DINING ROOM: VERIFY COLOR OF OUTLET/COVERPLATE WITH PANDA PM PRIOR TO INSTALL

ALL OTHER OUTLETS IN KITCHEN, SERVICE AREA, AND RESTROOMS TO BE GREY DEVICES WITH STAINLESS STEEL COVERPLATES.

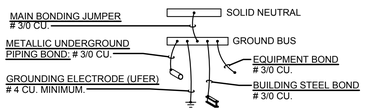
RECEPT. DIAGRAM 3

NOT TO SCALE E-400



ANSUL PULL STATION DETAIL 2

NOT TO SCALE E-400



'MDP' GROUNDING DETAIL 1

NOT TO SCALE E-400

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1683 Walnut Grove Ave.
Rosemead, California
91770
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DRAWN BY: PM / KL / EA

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ARCH PROJECT #: 19027

James F. Turner Engineers, L.P.
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QC/APPD: TNM
Job #EJ736
CoA #CA-5874-E

ALABAMA REGISTERED No. 14970 PROFESSIONAL ENGINEER JAMES F. TURNER JR.
11/2/19

Heights Venture
ARCHITECTURE DESIGN

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Plano, Texas. 75024
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PANDA EXPRESS

2096 INTERSTATE DR.
OPELIKA, AL, 36801

3600 FSDT

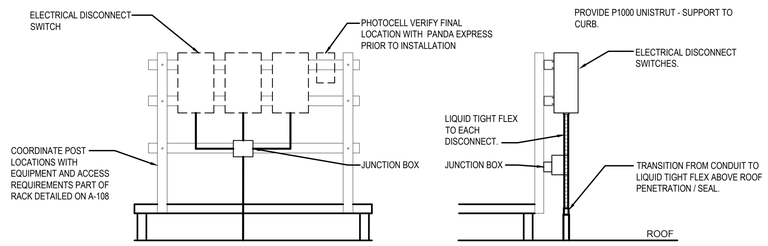
TWW REMODEL

E-400

HOT - MEDIUM
ELECTRICAL DETAILS, DIAGRAMS

BID ISSUE

TRUE WARM & WELCOME

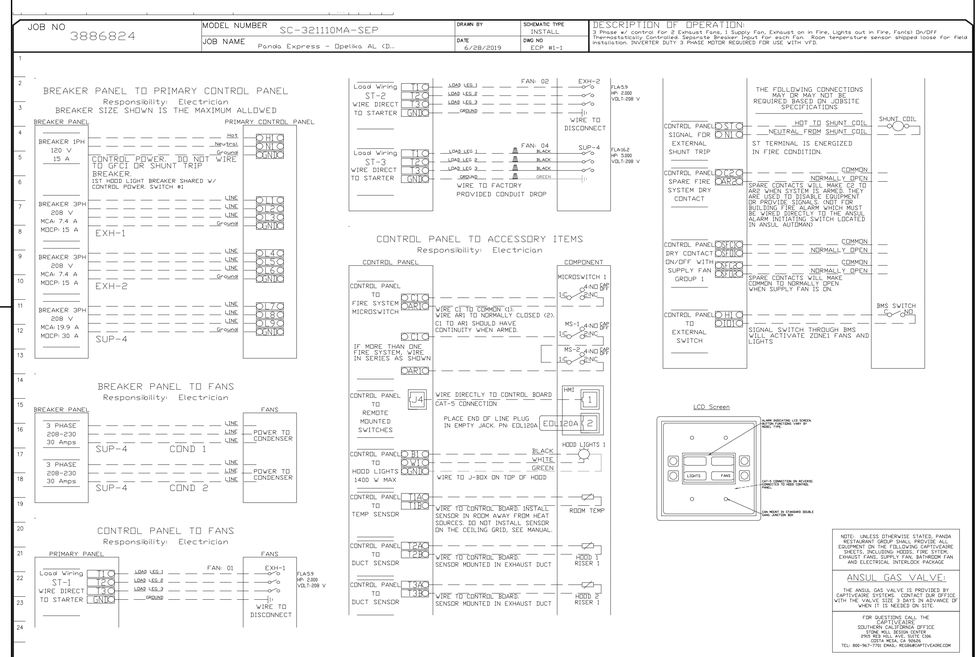


NOTE: LIQUID TIGHT FLEX TO UNITS AND DISCONNECTS NOT SHOWN FOR CLARITY.

NOTE:
ELECTRICAL CONTRACTOR TO PROVIDE (3) HORIZONTAL UNISTRUTS THAT MOUNT TO VERTICAL PIECES OF RACK. RACK PROVIDED BY OTHERS.
REFER TO ARCHITECTURAL DETAILS, A-108, FOR ADDITIONAL INFORMATION.

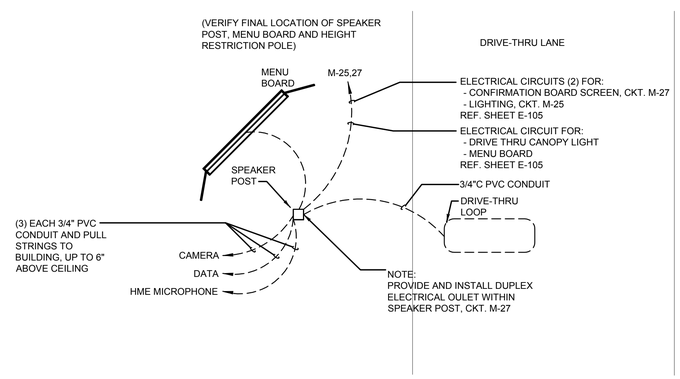
EQUIPMENT DISCONNECT SWITCH SUPPORT | 2

NOT TO SCALE | E-401



KITCHEN EXHAUST SYSTEM DIAGRAM | 3

NOT TO SCALE | E-401



MENU BOARD & SENSOR LOOP | 1

E-401

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1683 Walnut Grove Ave.
Rosemead, California
91770
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CoA: #CA-5874-E
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11/7/19

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PANDA EXPRESS

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OPELIKA, AL, 36801

3600 FSDT

TWW REMODEL

E-401

ELECTRICAL DETAILS, DIAGRAMS

BID ISSUE

TRUE WARM & WELCOME

PROVIDE AN ARC FLASH WARNING SIGN PER NEC 110.16.

EXISTING PANELBOARD 'MDP'

600 A MLO

208Y/120; 3-PHASE /4 WIRE — 600 MAIN BUS

WITH EQUIPMENT AND ISOLATED GROUND BUS — 100% NEUTRAL BUS

LOCATION: SERVICE ROOM
MOUNT: SURFACE
TYPE: NEMA 1

65 kAIC FULLY RATED BUS AND BRACING

L	R	M	K	O	C.B.	POLE	LOAD AREAS AND LOCATION	Ø A	Ø B	Ø C	LOAD AREAS AND LOCATION	POLE	C.B.	O	K	M	R	L
136	540	2400	10015	3296	225/3	1	*(E)PANEL 'K'				RTU-1	2	60/3			6245		
545	900	1000	6100	4650	-	3	-					4	-			6245		
812	540	0	8630	6430	-	5	-				-	6				6245		
1600	0	2267	4780	1200	200/3	7	*(E)PANEL 'L'				RTU-2	8	60/3			6245		
1140	0	2787	6250	132	-	9	-				-	10	-			6245		
800	0	2600	6900	1800	-	11	-					12	-			6245		
2500	0	9308	0	1330	200/3	13	*(E)PANEL 'M'				RTU-3	14	60/3			6245		
1000	0	9308	1120	1230	-	15	-				-	16	-			6245		
128	540	9308	960	300	-	17	-				-	18	-			6245		

CONNECTED kVA 3Ø			DEMAND	AMPS				CONNECTED 3Ø LOAD CALCULATIONS	
LIGHTING	8.7	8.7	100%	24.0	PER NEC 220.42	58.1	TOTAL kVA (ØA) =	483.9	AMPS
RECEPTACLE	2.5	2.5	100%	7.0	PER NEC 220.44	54.9	TOTAL kVA (ØB) =	457.1	AMPS
MOTOR	95.2	95.2	100%	264.2		58.5	TOTAL kVA (ØC) =	487.0	AMPS
KITCHEN	44.8	29.1	65%	80.7					
OTHER	20.4	20.4	100%	56.5	PER NEC 220.51 - 220.60	476.0	TOTAL CONNECTED 3Ø AMPS		
SPARE	0.0	0.0	N/A	0.0		28.4	NEUTRAL AMPS		
TOTAL	171.5	155.8		432.5		6%	IMBALANCE		
FEEDER AMPACITY ADJUSTMENTS									
LIGHT AMPS				6.0					
MOTOR AMPS				19.4		458	MINIMUM FEEDER AMPS		

REMARKS:
*REFER TO SINGLE-LINE DIAGRAM (DETAIL 2 / THIS SHEET) FOR WIRE SIZES.
(E) - INDICATES EXISTING CIRCUIT BREAKER / LOAD

PROVIDE AN ARC FLASH WARNING SIGN PER NEC 110.16.

EXISTING PANELBOARD K

225 A MLO

208Y/120; 3-PHASE /4 WIRE — 225 MAIN BUS

BOLT-ON W/ EQUIPMENT AND ISOLATED GROUND BUS — 100% NEUTRAL BUS

LOCATION: SERVICE ROOM
MOUNT: SURFACE
TYPE: NEMA 1

65/10 kAIC SERIES RATED BUS AND BRACING

L	R	M	K	O	C.B.	POLE	LOAD AREAS AND LOCATION	Ø A	Ø B	Ø C	LOAD AREAS AND LOCATION	POLE	C.B.	O	K	M	R	L
136					20/1	1	W.I.C. DISPLAY LTS / MENU				FAX '87', MGR '84C', COMP '49A'	2	20/1	1000				
				500	20/1	3	HOOD CONTROL PNL 'M4'				MUSIC, VCR, MONITOR	4	20/1	600				
				1100	20/1	5	SERVICE POS '94', PRINT '86A' (IG) (GFCI)				COMPUTER '83A' (IG)	6	20/1	500				
				1100	20/1	7	D.THRU POS '94', PRINT '86A' (IG) (GFCI)				ICE MACHINE '10J' (GFCI)	8	20/1	132				
			820		20/1	9	SEC MON '95-4-S3', CO2 '4D-S1', FLY LGT				CHF-25 HEATED AIR CURTAIN' M9A'	10	40/2	3050				
			110		20/1	11	RICE WARMER '54A' (GFCI)				-	12	-	3050				
			1440		20/1	13	REF PREP TABLE '34O'				REAR DOOR / FLY FAN 'M8A'	14	20/1			1200		
			1080		20/1	15	REF PREP TABLE '34D'				SPACE	16						
			1080		20/1	17	UNDER COUNTER FRZR '30L' (VD)				INDUCTION DRY WELL '3F','3G' (VD) (GFCI)	18	20/1		1950			
			1120		20/1	19	BEV DISPENSER '4AB'				INDUCTION DRY WELL '3F','3G' (VD) (GFCI)	20	20/1		1300			
	180				20/1	21	SERVING COUNTER				INDUCTION DRY WELL '3F','3G' (VD) (GFCI)	22	20/1		1300			
				1780	20/1	23	ICE TEA BREWER '9D'				INDUCTION DRY WELL '3F','3G' (VD) (GFCI)	24	20/1		1950			
		1200			20/1	25	FOOD PROCESSOR '53'				INDUCTION DRY WELL '3F','3G' (VD) (GFCI)	26	20/1		1950			
	180				20/1	27	DINING RECEPTACLE				INDUCTION DRY WELL '3F','3G' (VD) (GFCI)	28	20/1		1950			
			240		20/1	29	W.I.C. COIL '31M'				INDUCTION DRY WELL '3F','3G' (VD) (GFCI)	30	20/1		1300			
			1780		20/1	31	RICE HOLD CAB '24H' (VD)				IND. DRY WELL '3F' / SOUP WRMR '3T' (VD) (GFCI)	32	20/1		900			
					S/T	33	SHUNT TRIP FOR CKT 31				RADIANT TOP HTR '1S2B1'	34	20/1		475			
						35	SPACE				RADIANT TOP HTR '1S2B2'	36	20/1		625			
				864	20/1	37	BOOSTER '4B'				RADIANT TOP HTR '1S2B2'	38	20/1		625			
				500	20/1	39	HEAT WRAP '32A-S7' (VD) (GFCI)				RADIANT TOP HTR '1S2-S1'	40	20/1		475			
	180				20/1	41	FLY LIGHT				RADIANT TOP HTR '1S2-S1'	42	20/1		475			
				200	20/1	43	DUCT DETECTORS				SPARE	44	20/1					
545		1000			20/1	45	LTG - FOOD PREP / EM / EF-3 (VD) (C)				SPARE	46	20/1					
812					20/1	47	LTG - DINING AREA (C)				MICROWAVE '55A'	48	15/2		900			
	540				20/1	49	SHOW WINDOW RECEPTS				-	50	-		900			
	360				20/1	51	GENERAL RECEPTS / FLY LIGHT				FUTURE EQUIPMENT	52	20/1			180		
	360				20/1	53	EXTETRIOR RECEPTS				SPARE	54	20/1					

CONNECTED kVA 3Ø			DEMAND	AMPS				CONNECTED 3Ø LOAD CALCULATIONS	
LIGHTING	1.5	1.5	100%	4.1	PER NEC 220.42	16.4	TOTAL kVA (ØA) =	136.5	AMPS
RECEPTACLE	2.0	2.0	100%	5.5	PER NEC 220.44	13.2	TOTAL kVA (ØB) =	109.9	AMPS
MOTOR	3.4	3.4	100%	9.4		16.4	TOTAL kVA (ØC) =	136.7	AMPS
*KITCHEN	24.7	16.1	65%	44.6					
OTHER	14.4	14.4	100%	39.9	PER NEC 220.51 - 220.60	127.7	TOTAL CONNECTED 3Ø AMPS		
SPARE	0.0	0.0	N/A	0.0		26.7	NEUTRAL AMPS		
TOTAL	46.0	37.3		103.6		21%	IMBALANCE		
FEEDER AMPACITY ADJUSTMENTS									
LIGHT AMPS				1.0					
MOTOR AMPS				2.5		107	MINIMUM FEEDER AMPS		

REMARKS:
*KITCHEN EQUIPMENT SHOWN AT 65% IN PANEL TOTALS PER NEC (KITCHEN EQUIPMENT).
(IG) TERMINATE GROUND ON ISOLATED GROUND BUS.
(C) ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR CONTROLLED BY TIMECLOCK. REFER TO DETAIL 11 / SHEET E-400.
(VD) WIRE SIZE INCREASE DUE TO VOLTAGE DROP. SIZE EQUIPMENT GROUND CONDUCTOR PROPORTIONALLY PER NEC.
LEAVE ALL SPARES IN THE OFF POSITION.

PANEL SCHEDULES 1

NOT TO SCALE E-601a

1. DEMOLISH ALL EXISTING BRANCH CIRCUITS BACK TO ASSOCIATED PANELS UNLESS NOTED OTHERWISE ON PLANS.
2. EXISTING PANEL 'C' TO BE REMOVED AND FEEDERS DEMOLISHED BACK TO SUB-FEED BREAKER ON UPSTREAM PANEL 'K'.
3. UNLESS NOTED, ALL DEVICES AND TERMINATIONS 100 AMPS AND LESS TO BE RATED FOR 60°C WIRE, OVER 100 AMPS, 75°C WIRE.
4. ALL WIRE #8 AND SMALLER TO BE THWN/THHN CU.; #6 AND LARGER TO BE XHHW CU.
5. E.C. SHALL VERIFY THAT PROPOSED SCOPE OF WORK DOES NOT OVERLOAD ANY EXISTING PANELS OR EQUIPMENT TO MORE THAN 80%.
6. E.C. SHALL VERIFY EXISTING GROUNDING PER NEC ARTICLE 250, RE: 1/E400 FOR ADDITIONAL INFORMATION.

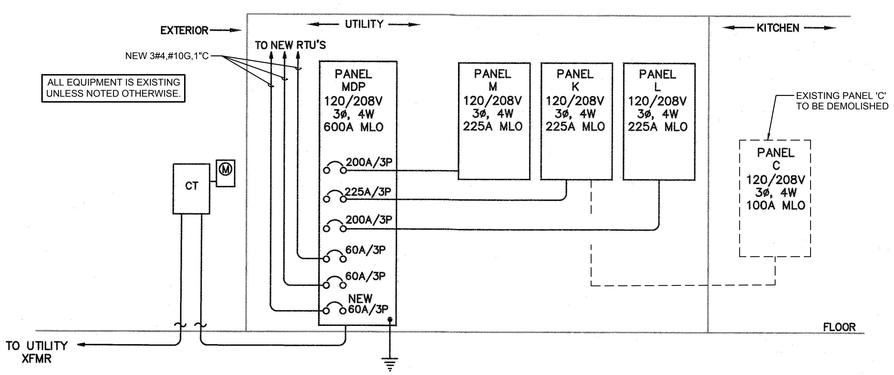
SINGLE LINE DIAGRAM GENERAL NOTES 3

NOT TO SCALE E-601a

1. UNLESS OTHERWISE NOTED ON PLANS, ALL EXISTING BRANCH CIRCUITS TO BE DEMOLISHED BACK TO ASSOCIATED PANEL, REMOVE ALL CONDUCTORS, CONDUITS, AND WIRING DEVICES.
2. ENTIRE INSTALLATION TO COMPLY WITH N.E.C. 110.22 AND 240.86(B).
3. NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT THE PRIOR APPROVAL OF THE DESIGN ELECTRICAL ENGINEER AND THE ELECTRICAL INSPECTOR.
4. CONTRACTOR SHALL PROVIDE A PERMANENTLY AFFIXED LABEL TO ALL PANELS INDICATING MAXIMUM AVAILABLE FAULT CURRENT AND DATE THAT FAULT CURRENT CALCULATION WAS PERFORMED PER 2017 NEC 110.24.
5. POST THIS INFORMATION ON THE JOB-SITE WITH PERMIT FOR CITY ELECTRICAL INSPECTOR'S REVIEW/APPROVAL.
6. CONTRACTOR TO LIMIT VOLTAGE DROP TO 3% IN ALL NEW BRANCH CIRCUITS.

GENERAL NOTES 4

NOT TO SCALE E-601a



SINGLE LINE DIAGRAM 2

NOT TO SCALE E-601a

PANDA EXPRESS, INC.
1683 Walnut Grove Ave.
Rosemead, California
91770
Telephone: 626.799.9898
Facsimile: 626.372.8288

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REVISIONS:

ISSUE DATE:

1st	DEVELOPER REVIEW	07.15.19
2nd	SITE PLAN SUBMITTAL	08.26.19
3rd	SITE COMMENTS	09.05.19
4th	ISSUE FOR PERMIT	10.01.19
5th	ISSUE FOR BID	11.07.19

DRAWN BY: PM / KL / EA

PANDA PROJECT #: S8-20-D7163
ARCH PROJECT #: 19027

James F. Turner Engineers, L.P.
Consulting Engineers
8340 Meadow Road, #160
Dallas, TX 75231
214.750.2900
DRAWN/DESIGN: JBJ
QC/APPD: TNM
Job #22736
CoA #CA-5874-E

ALABAMA REGISTERED No. 14970 PROFESSIONAL ENGINEER JAMES F. TURNER JR. 11/7/19

Heights Venture ARCHITECTURE DESIGN

HOUSTON
1111 North Loop West, Suite 800
Houston, Texas 77008
713 869 1103 V

DALLAS
5741 Legacy Drive, Suite 320
Plano, Texas. 75024
972 490 7292 V

PANDA EXPRESS

2096 INTERSTATE DR.
OPELIKA, AL, 36801

3600 FSDT

TWW REMODEL

E-601a

PANELS, SINGLE LINE, LOAD CALC'S

BID ISSUE

TRUE WARM & WELCOME

PROVIDE AN ARC FLASH WARNING SIGN PER NEC 110.16.

EXISTING PANELBOARD M

225 A MLO

208Y/120; 3-PHASE /4 WIRE — 225 MAIN BUS

BOLT-ON W/ EQUIPMENT GROUND BUS — 100% NEUTRAL BUS

LOCATION: SERVICE ROOM
MOUNT: SURFACE
TYPE: NEMA 1

65/10 kAIC SERIES RATED BUS AND BRACING

L	R	M	K	O	C.B.	POLE	LOAD AREAS AND LOCATION	Ø A	Ø B	Ø C	LOAD AREAS AND LOCATION	POLE	C.B.	O	K	M	R	L
1000					20/1	1	LOGO 'SZ' / I.D. SIGN 'S1' (C)				ICE MACHINE COND. '10J-S1' (VD)	2	20/2	1230				
					20/1	3	SPARE				-	4	-	1230				
					20/1	5	SPARE				MJ345 FRYER '21B'	6	20/1		960			
					20/1	7	SPARE				SHUNT TRIP FOR CKT 6	8	S/T					
			1120		20/1	9	BEV. DISPENSER '4AB' (VD)				SPACE	10						
				100	20/1	11	SECURITY / POS MONITORS				SPACE	12						
				100	20/1	13	HYPERACTIVE TIMER SYS.				SPACE	14						
					20/1	15	SPARE				SPACE	16						
				200	20/1	17	COKE CARBONATOR				SPACE	18						
					20/1	19	SPARE				ACCU-2	20	30/3			2570		
					20/1	21	SPARE					22				2570		
128					20/1	23	BUILDING LTG (C)				-	24	-			2570		
1500					20/1	25	MENUBOARD (C)				EF-1	26	15/3			889		
1000					20/1	27	DR THRU ORDER SCREEN				-	28	-			889		
	540				20/1	29	RTU CONVENIENCE OUTLETS				-	30	-			889		
		2570			30/3	31	ACCU-1				EF-2	32	15/3			889		
		2570			-	33	-				-	34	-			889		
		2570			-	35	-				-	36	-			889		
				1500	20/1	37	(E) GWH-1				MA-1	38	30/3			2390		
					20/2	39	SPARE				-	40	-			2390		
					-	41	SPARE				-	42	-			2390		
					20/1	43	SPARE				SPARE	44	20/1					
					20/1	45	SPARE				SPARE	46	20/1					
					20/1	47	SPARE				SPARE	48	20/1					
					20/1	49	SPARE				SPARE	50	20/1					
					20/1	51	SPARE				SPARE	52	20/1					
					20/1	53	SPARE				SPARE	54	20/1					

CONNECTED kVA 3Ø

		DEMAND		AMPS
LIGHTING	3.6	3.6	100%	10.1
RECEPTACLE	0.5	0.5	100%	1.5
MOTOR	27.9	27.9	100%	77.5
*KITCHEN	2.1	1.4	65%	3.8
OTHER	4.4	4.4	100%	12.1
SPARE	0.0	0.0	N/A	0.0
TOTAL	38.5	37.8		104.9

FEEDER AMPACITY ADJUSTMENTS

LIGHT AMPS 2.5
MOTOR AMPS 5.4

PER NEC 220.42
PER NEC 220.44
PER NEC 220.51 - 220.60

CONNECTED 3Ø LOAD CALCULATIONS

14.6	TOTAL kVA (ØA) =	121.9 AMPS
12.7	TOTAL kVA (ØB) =	105.4 AMPS
11.2	TOTAL kVA (ØC) =	93.6 AMPS
107.0	TOTAL CONNECTED 3Ø AMPS	
24.6	NEUTRAL AMPS	
23%	IMBALANCE	

113 MINIMUM FEEDER AMPS

REMARKS:
*KITCHEN EQUIPMENT SHOWN AT 65% IN PANEL TOTALS PER NEC (KITCHEN EQUIPMENT).
(IG) TERMINATE GROUND ON ISOLATED GROUND BUS.
(C) ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR CONTROLLED BY TIMECLOCK. REFER TO DETAIL 11 / SHEET E-400.
(VD) WIRE SIZE INCREASE DUE TO VOLTAGE DROP. SIZE EQUIPMENT GROUND CONDUCTOR PROPORTIONALLY PER NEC.
LEAVE ALL SPARES IN THE OFF POSITION.

PROVIDE AN ARC FLASH WARNING SIGN PER NEC 110.16.

EXISTING PANELBOARD L

225 A MLO

208Y/120; 3-PHASE /4 WIRE — 225 MAIN BUS

BOLT-ON W/ EQUIPMENT AND ISOLATED GROUND BUS — 100% NEUTRAL BUS

LOCATION: SERVICE ROOM
MOUNT: SURFACE
TYPE: NEMA 1

65/10 kAIC SERIES RATED BUS AND BRACING

L	R	M	K	O	C.B.	POLE	LOAD AREAS AND LOCATION	Ø A	Ø B	Ø C	LOAD AREAS AND LOCATION	POLE	C.B.	O	K	M	R	L
					20/1	1	SPARE				ICE MACHINE COND '10J-S1'	2	20/2			1227		
				132	20/1	3	ICE MACHINE '10J' (GFCI)				-	4	-			1227		
				1800	20/1	5	GAS WATER HEATER 'GWH-1' (GFCI)				WALK IN FREEZER COND '32-S1'	6	25/2			1040		
			1780		20/1	7	ICE TEA BREWER '9D' (VD)				-	8	-			1040		
340					20/1	9	LTG - RR / UTITLITY RM / BACKROOM				WALK IN COOLER COND '31-S'	10	20/2			1560		
					20/1	11	SPARE				-	12	-			1560		
				1200	20/1	13	D/T WINDOW 'M10' / SENSOR BAR				SPARE	14	20/1					
			1300		20/1	15	INDUCTION DRY WELL '3F','3G' (VD) (GFCI)				SPARE	16	20/1					
			1950		20/1	17	INDUCTION DRY WELL '3F','3G' (VD) (GFCI)				SPARE	18	20/1					
			3000		40/3	19	ELECTRIC GRILL 23B				SPARE	20	20/1					
			3000		-	21	-				SPARE	22	20/1					
			3000		-	23	-				SPARE	24	20/1					
					S/T	25	SHUNT TRIP FOR CKT 19,21,23				SPARE	26	20/1					
			1950		20/1	27	INDUCTION DRY WELL '3F','3G' (VD) (GFCI)				SPARE	28	20/2					
			1950		20/1	29	INDUCTION DRY WELL '3F','3G' (VD) (GFCI)				-	30	-					
					20/1	31	SPARE				(E) EXTERIOR POLE MOUNTED LTG (VD) (C)	32	20/2					800
					20/1	33	SPARE				-	34	-					800
					20/1	35	SPARE				(E) EXTERIOR POLE MOUNTED LTG (VD) (C)	36	20/2					800
					20/1	37	SPARE				-	38	-					800
					20/1	39	SPARE				SPARE	40	20/1					
					20/1	41	SPARE				SPARE	42	20/2					
					20/1	43	SPARE				-	44	-					
					20/1	45	SPARE				SPARE	46	20/1					
					20/1	47	SPARE				SPARE	48	20/1					
					20/2	49	SPARE				SPARE	50	20/1					
					-	51	-				SPARE	52	20/1					
					20/1	53	SPARE				SPARE	54	20/1					

CONNECTED kVA 3Ø

		DEMAND		AMPS
LIGHTING	3.5	3.5	100%	9.8
RECEPTACLE	0.0	0.0	N/A	0.0
MOTOR	7.7	7.7	100%	21.2
*KITCHEN	17.9	11.7	65%	32.3
OTHER	3.1	3.1	100%	8.7
SPARE	0.0	0.0	N/A	0.0
TOTAL	32.3	26.0		72.1

FEEDER AMPACITY ADJUSTMENTS

LIGHT AMPS 2.5
MOTOR AMPS 3.2

PER NEC 220.42
PER NEC 220.44
PER NEC 220.51 - 220.60

CONNECTED 3Ø LOAD CALCULATIONS

9.8	TOTAL kVA (ØA) =	82.0 AMPS
10.3	TOTAL kVA (ØB) =	85.8 AMPS
12.1	TOTAL kVA (ØC) =	100.8 AMPS
89.5	TOTAL CONNECTED 3Ø AMPS	
17.2	NEUTRAL AMPS	
19%	IMBALANCE	

78 MINIMUM FEEDER AMPS

REMARKS:
(E) - EXISTING
*KITCHEN EQUIPMENT SHOWN AT 65% IN PANEL TOTALS PER NEC (KITCHEN EQUIPMENT).
(IG) TERMINATE GROUND ON ISOLATED GROUND BUS.
(C) ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR CONTROLLED BY TIMECLOCK. REFER TO DETAIL 11 / SHEET E-400.
(VD) WIRE SIZE INCREASE DUE TO VOLTAGE DROP. SIZE EQUIPMENT GROUND CONDUCTOR PROPORTIONALLY PER NEC.
LEAVE ALL SPARES IN THE OFF POSITION.

PANEL SCHEDULES 1

NOT TO SCALE E-601b

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Facsimile: 626.372.8288

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DRAWN BY: PM / KL / EA

PANDA PROJECT #: S8-20-D7163
ARCH PROJECT #: 19027

James F. Turner Engineers, L.P.
Consulting Engineers
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Dallas, TX 75231
214.750.2900
DRAWN/DESIGN: JBJ
QC/APPD: TNM
Job #EZ736
CoA #CA-5874-E

ALABAMA REGISTERED No. 14970 PROFESSIONAL ENGINEER JAMES F. TURNER JR.
11/7/19

Heights Venture ARCHITECTURE DESIGN

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Houston, Texas 77008
713 869 1103 V

DALLAS
5741 Legacy Drive, Suite 320
Plano, Texas. 75024
972 490 7292 V

PANDA EXPRESS

2096 INTERSTATE DR.
OPELIKA, AL, 36801

3600 FSDT

TWW REMODEL

E-601b

PANELS, SINGLE LINE, LOAD CALC'S

BID ISSUE

TRUE WARM & WELCOME