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LIGHTING SYMBOLS		RECEPTACLE SYMBOLS		ELECTRICAL SYMBOLS		SINGLE LINE DIAGRAM SYMBOLS		GROUND CONNECTION						
F1 RP5-7	TYPICAL LUMINAIRE DESIGNATIONS	RP5-7	TYPICAL RECEPTACLE CIRCUIT DESIGNATION	AV	RECESSED WALL BOX WITH AUDIO/VISUAL / DATA / POWER RECEPTACLES.	<<-□->>	DRAWOUT CIRCUIT BREAKER OVER 600V		THERMAL OVERLOADS					
	(F1) INDICATES LUMINAIRE TYPE. REFER TO LUMINAIRE SCHEDULE FOR DESCRIPTION. (RP5) INDICATES PANEL DESIGNATION. (7) INDICATES CIRCUIT BREAKER NUMBER. PROVIDE 20A/1P AND 2#12 FOR EACH CIRCUIT NUMBER & 1#12G, IN 3/4 " CONDUIT, UNLESS OTHERWISE NOTED OR SCHEDULED.			RECESSED FLOOR BOX WITH POWER AND COMMUNICATION RECEPTACLES.	<<-<->>>	DRAWOUT CIRCUIT BREAKER	<-<->>->	KEY INTERLOCK						
	(a) INDICATES SWITCHING CIRCUIT ID.			RECESSED FLOOR BOX WITH POWER, COMMUNICATION AND AUDIO/VISUAL RECEPTACLES.	<<-□->>	DRAWOUT FUSES	<-<->>->	ELECTRIC INTERLOCK						
	2'X4' LUMINAIRE		DUPLEX RECEPTACLE, 125V, 20A, 2P, 3W, NEMA 5-20R		HARD-WIRED CONNECTION		CIRCUIT BREAKER	SPD	SURGE PROTECTION DEVICE					
	WALL MOUNTED LUMINAIRE	UC	UNDER COUNTER, DUPLEX RECEPTACLE, 125V, 20A, 2P, 3W, NEMA 5-20R		JUNCTION BOX; WHIP TO BE HARDWIRED TO FURNITURE WIRING SYSTEM		FUSED DISCONNECT SWITCH	AM	AMMETER					
		GFCI	DUPLEX RECEPTACLE, 125V, 20A, 2P, 3W, NEMA 5-20R, (GROUND FAULT CIRCUIT INTERRUPTER)		PANELBOARD		DISCONNECT SWITCH	AS	AMMETER SWITCH					
	CEILING MOUNTED LUMINAIRE	GFCI WP	DUPLEX RECEPTACLE, 125V, 20A, 2P, 3W, NEMA 5-20R, (GROUND FAULT CIRCUIT INTERRUPTER WITH IN USE COVER)		DISTRIBUTION/POWER PANEL	<<-□->>	FUSED DRAWOUT CIRCUIT BREAKER	VM	VOLTMETER					
			SINGLE RECEPTACLE, 125V, 20A, 2P, 3W, NEMA 5-20R		MOTOR CONNECTION		FUSE	VS	VOLTMETER SWITCH					
	INDUSTRIAL TYPE LUMINAIRE	L	SINGLE RECEPTACLE, 125V, 20A, 2P, 3W, NEMA 5-15R	\$	SINGLE POLE SWITCH, 20A, 120-277VAC	- - -	CONTACT	WM	WATTMETER					
	PENDANT MOUNTED LUMINAIRE		QUADRAPLEX RECEPTACLE, 125V, 20A, 2P, 3W, NEMA 5-20R	\$ X	"X" REFER TO SWITCH NOTES	SON SIN	RELAY SEE RELAY SCHEDULE ON COVER SHEET 2.	KWH	KILOWATT-HOUR METER WITH 15 MIN. DEMAND REGISTER					
		UC	UNDER COUNTER, ISOLATED GROUND RECEPTACLE, 125V, 20A, 2P, 3W, NEMA 5-20R		DISCONNECT SWITCH		POWER TRANSFORMER WITH VOLTAGES AS INDICATED	KVH	KILOVAR HOUR METER					
	LUMINAIRE POWERED BY EMERGENCY SOURCE (TYPICAL)		DUPLEX RECEPTACLE, MOUNTED 6" (0.15m) ABOVE COUNTER OR BACKSPLASH, 125V, 20A, 2P, 3W, NEMA 5-20R		FUSED DISCONNECT SWITCH		SHIELDED K RATED POWER TRANSFORMER WITH VOLTAGES AS INDICATED	PF	POWER FACTOR METER					
		FPD	DUPLEX RECEPTACLE, MOUNTED FOR FLAT PANEL DISPLAY; MOUNT AT APPROXIMATELY 66", COORDINATE EXACT HEIGHT DISPLAY		COMBINATION MAGNETIC MOTOR STARTER	<<-<->>>	DRAWOUT CIRCUIT BREAKER, ELECTRIC OPERATED.	TB	TERMINAL BLOCK					
	LUMINAIRE, POLE MOUNTED		SPECIAL PURPOSE RECEPTACLE, COORDINATE NEMA CONFIGURATION WITH EQUIPMENT	CB	ENCLOSED CIRCUIT BREAKER	-<->-	CIRCUIT BREAKER, ELECTRIC OPERATED.	CS	CONTROL SWITCH					
			CEILING MOUNTED DUPLEX RECEPTACLE, 120V, 20A, 2P, 3W, NEMA 5-20R	VFD	VARIABLE FREQUENCY DRIVE	EO	FUSED DISCONNECT SWITCH, ELECTRIC OPERATED.	M	MULTIFUNCTION METER AS SPECIFIED.					
	LUMINAIRE, BALLARD	PRJ	CEILING MOUNTED DUPLEX RECEPTACLE, 120V, 20A, FOR PROJECTOR. COORDINATE WITH EQUIPMENT		EMERGENCY POWER OFF				BATTERY					
	LUMINAIRE, FLOOD LIGHT		BENCH TOP PEDESTAL OUTLET, SINGLE FACE, RECEPTACLE TYPE AS INDICATED	T1	TRANSFORMER, (SEE TRANSFORMER SCHEDULE ON COVER SHEET 2)		CURRENT TRANSFORMER, QUANTITY AND RATIO AS INDICATED.	A	FEEDER CONNECTION REFERENCE					
			BENCH TOP PEDESTAL OUTLET, DOUBLE FACE, RECEPTACLE TYPE AS INDICATED		ONE PUSHBUTTON STATION	400S		COMMUNICATION SYMBOLS						
	WALL MOUNTED EXIT SIGN, SHADED AREAS INDICATE NUMBER OF FACES, DIRECTION ARROWS AS INDICATED		FLUSH POKE-THROUGH FOR POWER FEEDS. POWER FEEDS TO BE HARDWIRED TO FURNITURE WIRING SYSTEM.		START STOP PUSHBUTTON	50S	GROUND CURRENT, ZERO SEQUENCE TYPE TRANSFORMER. RATIO AS INDICATED.	2(4)(6)	DATA OUTLET BOX WITH (TWO) (FOUR) (SIX) JACKS DOUBLE GANG BOX WITH SINGLE GANG REDUCER AND 1" TO ACCESSIBLE CEILING AREA					
	CEILING MTD. EXIT SIGN, SHADED AREAS INDICATE NUMBER OF FACES, DIRECTION ARROWS AS INDICATED		FLUSH POKE-THROUGH FOR COMMUNICATION FEEDS. COMMUNICATION FEEDS TO BE HARDWIRED TO FURNITURE WIRING SYSTEM.		RAISE-LOWER PUSHBUTTON WITH CENTER STOP		POTENTIAL TRANSFORMER, QUANTITY AS INDICATED.		COMBINATION VOICE/DATA OUTLET DOUBLE GANG BOX WITH SINGLE GANG REDUCER AND 1" TO ACCESSIBLE CEILING AREA					
	EMERGENCY BATTERY UNIT LUMINAIRE		FLUSH POKE-THROUGH FOR AUDIO/VISUAL FEEDS. AUDIO/VIDEO FEEDS TO BE HARDWIRED TO FURNITURE WIRING SYSTEM.		PUSH-PLATE FOR AUTOMATIC DOOR	<<-<->>->	DRAWOUT POTENTIAL TRANSFORMER, QUANTITY AS INDICATED.	W	SINGLE GANG BOX WITH WALL PHONE PLATE AND 3/4 " TO ACCESSIBLE CEILING AREA.					
	CONTROL COIL		FLUSH POKE-THROUGH FOR POWER AND COMMUNICATION FEEDS. POWER AND COMMUNICATION FEEDS TO BE HARDWIRED TO FURNITURE WIRING SYSTEM.	PP	POWER POLE; WHIP TO BE HARDWIRED TO FURNITURE WIRING SYSTEM	-<->-	LIGHTNING ARRESTOR							
	PHOTO CELL		FLUSH POKE-THROUGH FOR POWER, COMMUNICATION AND AUDIO/VISUAL FEEDS. POWER, COMMUNICATION AND AUDIO/VISUAL FEEDS TO BE HARDWIRED TO FURNITURE WIRING SYSTEM.	PP	GROUND ROD		TRANSFORMER CONNECTION DELTA- RESISTANCE GROUNDED WYE	TP	TELECOMM POLE; WHIP TO BE HARDWIRED TO FURNITURE WIRING SYSTEM					
SWITCH SYMBOLS			FLUSH POKE-THROUGH WITH POWER RECEPTACLES.		GROUND BUS		TRANSFORMER CONNECTION DELTA-GROUNDED WYE	SECURITY SYMBOLS						
\$	SINGLE POLE, LOW VOLTAGE SWITCH, 20A, 120-277VAC		FLUSH POKE-THROUGH WITH COMMUNICATION RECEPTACLES.		LIGHTNING PROTECTION THROUGH ROOF DOWN CONDUCTOR		TRANSFORMER CONNECTION DELTA-GROUNDED WYE		CARD READER					
\$ X	"X" REFER TO SWITCH NOTES		FLUSH POKE-THROUGH WITH AUDIO/VISUAL RECEPTACLES.		LIGHTNING PROTECTION AIR TERMINAL		STATIC BYPASS SWITCH	DPS	DOOR POSTION SWITCH					
SWITCH NOTES:			FLUSH POKE-THROUGH WITH POWER AND COMMUNICATION RECEPTACLES.		MULTI-OUTLET RACEWAY WITH RECEPTACLES EVERY 2 FT ON CENTER AND DATA OUTLETS EVERY 6 FT ON CENTER. TYPE AND CIRCUIT DESIGNATION AS INDICATED		GENERATOR	REX	REQUEST TO EXIT					
"a" = LOWER CASE LETTER INDICATES SWITCHING CIRCUIT ID "3" = THREE-WAY SWITCH 20A, 120-277VAC "4" = FOUR-WAY SWITCH 20A, 120-277VAC "M" = MANUAL MOTOR STARTER SWITCH "MOL" = MANUAL MOTOR STARTER WITH THERMAL OVERLOADS "D" = DIMMER CONTROL "D3" = THREE-WAY DIMMING SWITCH "D4" = FOUR-WAY DIMMING SWITCH "P" = SINGLE POLE SWITCH WITH PILOT LIGHT "K" = SINGLE POLE SWITCH (KEY-OPERATED) "T" = SINGLE POLE SWITCH WITH TIMER "3P" = THREE-POSITION SWITCH, CENTER-OFF, MOMENTARY CONTACT "OS" = OCCUPANCY/VACANCY SENSOR WALL SWITCH(R) WITH MANUAL OVERRIDE			FLUSH POKE-THROUGH WITH POWER, COMMUNICATION AND AUDIO/VISUAL RECEPTACLES.		WIRE/CONDUIT EXPOSED	GEN	AUTOMATIC TRANSFER SWITCH		FIXED CCTV POE CAMERA					
			RECESSED FLOOR BOX FOR POWER FEEDS. POWER FEEDS TO BE HARDWIRED TO FURNITURE WIRING SYSTEM.		WIRE/CONDUIT CONCEALED		AUTOMATIC TRANSFER AND BYPASS ISOLATION SWITCH	PTZ	PAN, TILT, ZOOM CCTV POE CAMERA					
			RECESSED FLOOR BOX FOR COMMUNICATION FEEDS. COMMUNICATION FEEDS TO BE HARDWIRED TO FURNITURE WIRING SYSTEM.		WIRE/CONDUIT CONCRETE ENCASED OR DIRECT BURIED		PANELBOARD	180	180 OR 360 DEGREE CCTV POE CAMERA					
			RECESSED FLOOR BOX FOR AUDIO/VISUAL FEEDS. AUDIO/VISUAL FEEDS TO BE HARDWIRED TO FURNITURE WIRING SYSTEM.		GROUNDING CONDUCTOR, SIZE AS INDICATED.		POWER FACTOR CORRECTION CAPACITOR							
			RECESSED FLOOR BOX FOR POWER AND COMMUNICATION FEEDS. POWER AND COMMUNICATION FEEDS TO BE HARDWIRED TO FURNITURE WIRING SYSTEM.	2W20	HOME RUN INDICATION WITH PANEL DESIGNATION (RP5), CIRCUIT No.(7)&(9), OVERCURRENT PROTECTION "AMPS AND POLES" (20/2) AND WIRE/CONDUIT DESIGNATION (2W20). SEE WIRE AND CONDUIT SIZE SCHEDULE. PROVIDE 20A/1P AND 2 #12 FOR EACH HOMERUN ARROW & 1 #12G IN 3/4 " CONDUIT, UNLESS OTHERWISE INDICATED. SEE GENERAL NOTE 1.									
			RECESSED FLOOR BOX FOR POWER, COMMUNICATION AND AUDIO/VISUAL FEEDS. POWER, COMMUNICATION AND AUDIO/VISUAL FEEDS TO BE HARDWIRED TO FURNITURE WIRING SYSTEM.	RP5,7,9	UNDERGROUND DUCT BANK - ELECTRIC									
			RECESSED FLOOR BOX WITH POWER RECEPTACLES.		UNDERGROUND DUCT BANK - COMMUNICATION/DATA/TELEPHONE									
			RECESSED FLOOR BOX WITH COMMUNICATION RECEPTACLES.											
					M	MANHOLE								
					H	HANDHOLE								
					1 MI CABLE, 1/C	(1) MI CABLE, SINGLE CONDUCTOR								
					1 MI CABLE, 3/C	(1) MI CABLE, THREE CONDUCTOR								
					3 MI CABLES, 1/C	(3) MI CABLES, SINGLE CONDUCTOR EACH								
					[XX]	EQUIPMENT IDENTIFICATION TAGS								

OCCUPANCY SENSOR NOTES:
1. PLACE ULTRASONIC SENSORS 6'-0" AWAY FROM SUPPLY AND RETURN VENTS.

PRCOM20204900

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/13/2021

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12/22/20
PROFESSIONAL OF RECORD:
JASON E. CHRISTOFF No. 20012002143
EXP. DATE: 12/31/20

REV	DESCRIPTION	DATE

Project No.: 62-40497-01
Client Project No.:
Drawing Title:
ELECTRICAL SYMBOLS

Date: 12/22/20 Phase: PERMIT SET
Designed: DCU Drawing No.:
Drawn: DCU
Checked: KFF
E0.1

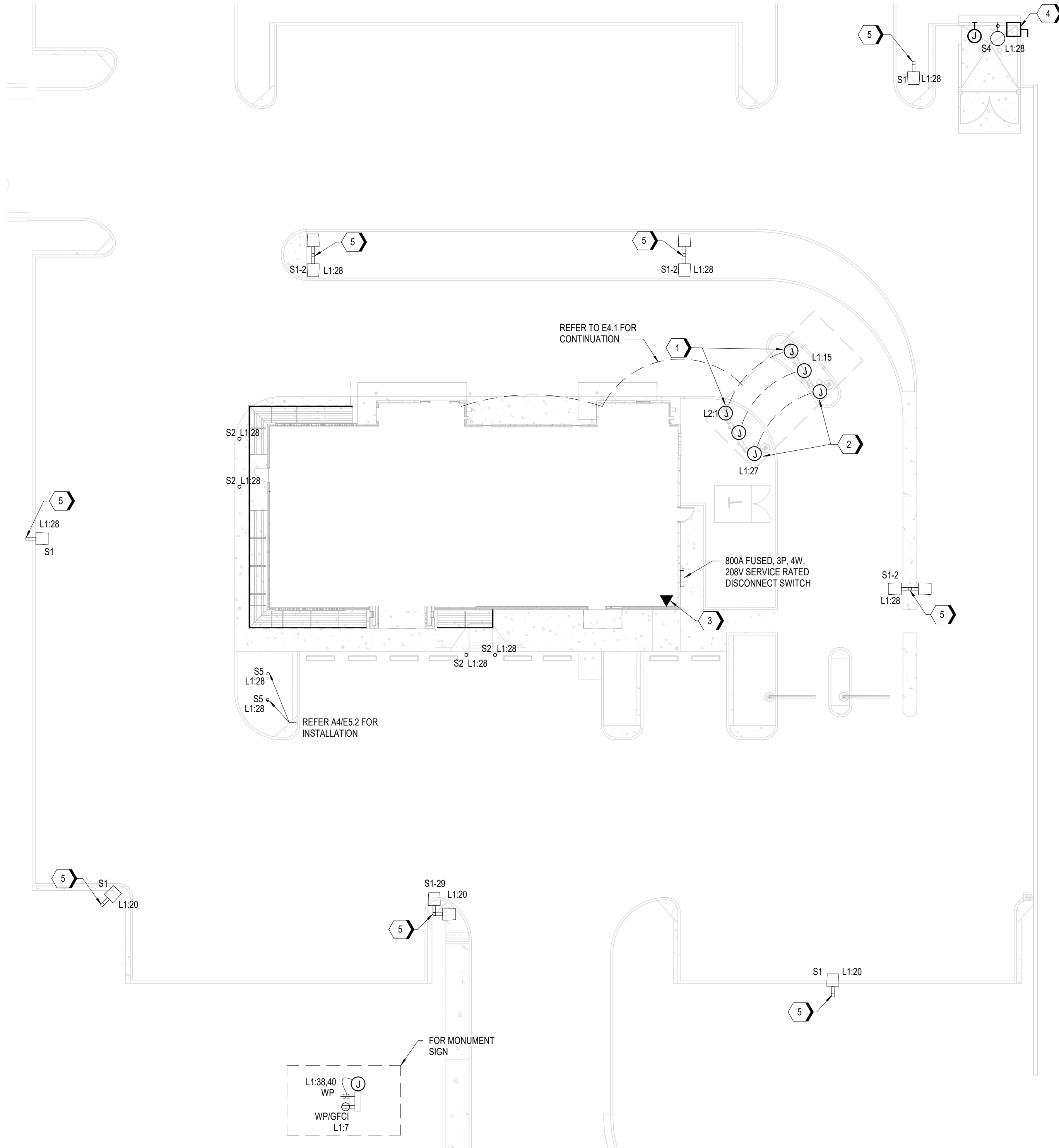
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1		2		3		4		5	
ABBREVIATIONS		ABBREVIATIONS		MOUNTING HEIGHTS:		GENERAL NOTES:			
A,AMP	AMPERE(S)	LT	LONG TIME	UNLESS OTHERWISE INDICATED, OUTLET BOXES IN WALLS SHALL BE LOCATED WITH CENTERLINE AT THE FOLLOWING ELEVATIONS ABOVE THE FINISHED FLOOR LINE. VERIFY ALL HEIGHTS PRIOR TO ACTUAL LAYOUT OF WORK WITH THE GENERAL CONSTRUCTION CONTRACTOR.		1. SWITCH OUTLETS 4 FEET		1. PROVIDE EACH 120V, 20A BRANCH CIRCUIT FROM LIGHTING AND APPLIANCE PANELBOARDS WITH A SEPARATE NEUTRAL FOR EACH PHASE CONDUCTOR. NO SHARED NEUTRALS ARE PERMITTED UNLESS OTHERWISE INDICATED. BRANCH CIRCUIT HOME RUN WIRING MAY BE COMBINED UP TO MAXIMUM OF (6) CURRENT CARRYING CONDUCTORS IN A CONDUIT SIZED PER NFPA 70.	
AC	ALTERNATING CURRENT	LTG	LIGHTING						
AF	AMPERE FRAME (CIRCUIT BREAKER)	LP	LIGHTING PANEL						
AFF	ABOVE FINISHED FLOOR	M	METER						
AFG	ABOVE FINISHED GRADE	mm	MILLIMETER						
AFU	AMPERE FUSE	mm2	MILLIMETERS SQUARED						
AHU	AIR HANDLING UNIT	MAX	MAXIMUM						
AIC	AMPERE INTERRUPTING CAPACITY	MCB	MAIN CIRCUIT BREAKER						
AL	ALUMINUM	MCC	MOTOR CONTROL CENTER	2. BRACKET OUTLETS (OTHER)		6 FEET-6 INCHES		2. THESE ARE STANDARD COVER SHEET ABBREVIATION LISTS AND SYMBOLS. DISREGARD UNUSED ABBREVIATIONS AND SYMBOLS.	
AS	AMMETER SWITCH	MCCB	MOLDED CASE CIRCUIT BREAKER	3. RECEPTACLE OUTLETS (U.O.N.)		1 FOOT-6 INCHES			
AM	AMMETER	MDF	MAIN DISTRIBUTION FRAME	4. RECEPTACLE OUTLETS, MECHANICAL ROOMS		3 FEET			
AT	AMPERE TRIP (CIRCUIT BREAKER)	MECH	MECHANICAL	5. RECEPTACLE OUTLETS MOUNTED, ABOVE CASEWORK/CABINETS		4 INCHES ABOVE BACKSPLASH			
ATS	AUTOMATIC TRANSFER SWITCH	MFR	MANUFACTURER	6. CLOCK OUTLETS		12 INCHES BELOW CEILING			
AUX	AUXILIARY	MH	MANHOLE	7. MOTOR STARTERS AND SAFETY SWITCHES		4 FEET-6 INCHES			
AV	AUDIO VISUAL	MI	MINERAL-INSULATED	8. PANELBOARDS (TOP)		6 FEET-6 INCHES			
AWG	AMERICAN WIRE GAUGE	MIN	MINIMUM	MOUNTING HEIGHT NOTES:		1. THE ABOVE MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS OTHERWISE NOTED ON PLANS OR SPECIFICATIONS.			
BAS	BUILDING AUTOMATION SYSTEM	MIC	MEDIA INTERFACE CONNECTOR						
BKR	BREAKER	MIN	MINIMUM						
BLDG	BUILDING	MLO	MAIN LUGS ONLY						
BP	BYPASS	MPS	MANUAL PULL STATION						
BSC	BIOLOGICAL SAFETY CABINET	MTD	MOUNTED						
C	CONDUCTOR	MTG	MOUNTING						
C/ CDT	CONDUIT	MTS	MANUAL TRANSFER SWITCH						
CATV	CABLE TELEVISION	MV	MEDIUM VOLTAGE						
CB	CIRCUIT BREAKER	N	NEUTRAL/NORMAL						
CCTV	CLOSED CIRCUIT TELEVISION	NEC	NATIONAL ELECTRICAL CODE						
CKT	CIRCUIT	NC	NORMALLY-CLOSED						
CLG	CEILING	NIC	NOT IN CONTRACT						
CO	CONDUIT ONLY	NL	NIGHT LIGHT						
COAX	COAXIAL CABLE	NO	NORMALLY-OPEN / NUMBER						
COL	COLUMN	NORM	NORMAL					5. FOR LOCATION OF MECHANICAL EQUIPMENT, REFER TO MECHANICAL PLANS.	
COMM	COMMUNICATIONS	NTS	NOT TO SCALE						
CP	CONTROL PANEL	NWP	NETWORK PROTECTOR						
CPT	CONTROL POWER TRANSFORMER	OCB	OIL CIRCUIT BREAKER						
CPU	CENTRAL PROCESSING UNIT	OL	OVERLOAD(S)						
CR	CARD READER	OC	ON-CENTER						
CRT	CATHODE RAY TUBE MONITOR	OS	OCCUPANCY SENSOR						
CS	CONTROL SWITCH	P	POLE						
CU	COPPER	PA	PUBLIC ADDRESS SYSTEM					6. A " " BESIDE A DEVICE INDICATES MOUNTED ABOVE CASEWORK OR COUNTER. A "C" BESIDE A DEVICE INDICATES MOUNTED UNDER COUNTER.	
CUH	CABINET UNIT HEATER	PB	PUSHBUTTON/PULLBOX						
CT	CURRENT TRANSFORMER	PBX	PRIVATE BRANCH EXCHANGE						
D	DEPTH	PC	PHOTOCELL						
DC	DIRECT CURRENT	PDU	POWER DISTRIBUTION UNIT						
DDC	DIRECT DIGITAL CONTROL	PF	POWER FACTOR						
DEMO	DEMOLITION	PFCC	POWER FACTOR CORRECTION CAPACITORS						
DIA	DIAMETER	PH,Ø	PHASE						
DN	DOWN	PNL	PANEL					7. PROVIDE # 10 AWG PHASE, NEUTRAL, AND GROUND CONDUCTORS FOR 120 VOLT, 20 AMPERE BRANCH CIRCUITS EXCEEDING 100 FEET.	
DISC	DISCONNECT	PP	POWER PANEL						
DIST	DISTRIBUTION	PR	PAIR						
DWG	DRAWING	PRI	PRIMARY						
E	ELECTRIC / EMERGENCY	PT	POTENTIAL TRANSFORMER						
EC	ELECTRICAL CONTRACTOR, EMPTY CONDUIT	PVC	POLYVINYLCHLORIDE						
EF	EXHAUST FAN	PWR	POWER						
EL	ELEVATION	QTY	QUANTITY						
ELECT,ELEC	ELECTRICAL	RE	REMOVE EXISTING						
ELEV	ELEVATOR	REC,RECPT	RECEPTACLE						
EMT	ELECTRICAL METALLIC TUBING	REPO	REMOTE E.P.O.						
EO	ELECTRICALLY OPERATED	REQ,REQD	REQUIRED						
EOL	END OF LINE DEVICE	RF	RETURN FAN						
EPO	EMERGENCY POWER OFF	RIM	READER INTERFACE MODULE						
EQ	EQUAL	RM	ROOM						
EQUIP	EQUIPMENT	RO	REVERSE-OSMOSIS						
ER	EXISTING TO BE RELOCATED	RP	RECEPTACLE PANEL						
EW	ELECTRIC WATER COOLER	RVAT	REDUCED VOLTAGE AUTOTRANSFORMER						
EX	EXISTING TO REMAIN	RTU	REMOTE TERMINAL UNIT						
F	FLUSH	RUPS	ROTARY UPS						
FA	FIRE ALARM	SCA	SHORT CIRCUIT AMPERES						
FCC	FIRE COMMAND CENTER	SD	SMOKE DETECTOR						
FCU	FAN COIL UNIT	SEC	SECONDARY						
FDDI	FIBER DISTRIBUTED DATA INTERFACE	SF	SUPPLY FAN						
FDR	FEEDER	SF6	SULFERHEXAFLORIDE						
FH	FUME HOOD	SPD	SURGE PROTECTIVE DEVICE						
FIP	FIELD INTERFACE PANEL	SPEC	SPECIFICATION						
FXT	FIXTURE	SPKR	SPEAKER						
FLA	FULL LOAD AMPERES	SS	STAINLESS STEEL/SOLID STATE						
FLR,FL	FLOOR	ST	SHUNT TRIP/SHORT TIME						
FLUOR	FLUORESCENT	STD	STANDARD						
FO	FIBER OPTIC	STP	SHIELDED TWISTED PAIR						
FPB	FAN POWERED BOX	STS	STATIC TRANSFER SWITCH						
FSD	FIRE SMOKE DAMPER	SW	SWITCH						
FU	FUSE	SWBD	SWITCHBOARD						
FUT	FUTURE	SWGR	SWITCHGEAR						
FVR	FULL VOLTAGE REVERSIBLE	SYM	SYMMETRICAL						
FVNR	FULL VOLTAGE NON REVERSIBLE	SYS	SYSTEM						
G	GROUND (CONDUCTOR)	T	TRANSFORMER						
GA	GAUGE	TB	TERMINAL BLOCK						
GEN	GENERATOR	TELECOM	TELECOMMUNICATIONS						
GF	GROUND FAULT	TDR	TIME DOMAIN REFLECTOMETER						
GFI	GROUND FAULT CIRCUIT INTERRUPTER	TEF	TOILET EXHAUST FAN						
GND,GRD	GROUND	TEL,TELE	TELEPHONE						
GPS	GENERATOR PARALLELING SWITCHGEAR	TR	TELEPHONE ROOM						
GRC	GALVANIZED RIGID STEEL CONDUIT	TV	TELEVISION						
HH	HAND HOLE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION						
HID	HIGH INTENSITY DISCHARGE	TYP	TYPICAL						
HOA	HAND-OFF-AUTOMATIC SWITCH	UC	UNDER-COUNTER						
HP	HORSEPOWER	UH	UNIT HEATER						
HT	HEIGHT	UL	UNDERWRITERS LABORATORY						
HWP	HOT WATER PUMP	UNO	UNLESS NOTED OTHERWISE						
HV	HIGH VOLTAGE	UON	UNLESS OTHERWISE NOTED						
HZ	HERTZ	UPS	UNINTERRUPTIBLE POWER SUPPLY						
IINST	INSTANTANEOUS	UTP	UNSHIELDED TWISTED PAIR						
ICM	INTERCOM MASTER	V	VOLT(S)						
ICR	INTERCOM REMOTE	VA	VOLT-AMPERES						
IG	ISOLATED GROUND	VAV	VARIABLE AIR VOLUME BOX						
IMC	INTERMEDIATE METAL CONDUIT	VFD	VARIABLE FREQUENCY DRIVE						
INSTR	INSTRUMENT/INSTRUMENTATION	VM	VOLTMETER						
JB,JBX	JUNCTION BOX	VS	VOLTMETER SWITCH						
K	KEY LOCK (KEY INTERLOCK SCHEME)	W	WITH						
KA	KILOAMPERES	W	WIRE/WATT/ WIDTH						
KCM	THOUSAND CIRCULAR MILS	WCR	WITHSTAND CURRENT RATING						
KEF	KITCHEN EXHAUST FAN	WM	WATTMETER						
KW	KILOWATTS	WP	WEATHERPROOF						
KWH	KILOWATT HOUR	WT	WATERTIGHT						
KV	KILOVOLTS	XFMR	TRANSFORMER						
KVA	KILO VOLT-AMPERES	XP	EXPLOSION-PROOF						
KVAR	KVA REACTIVE	ZI	ZONE INTERLOCKING						
L	LOCKING TYPE/LOAD	Δ,Y	DELTA-WYE						
LA	LIGHTNING SURGE ARRESTER	Δ,ZW	TWO SPEED TWO WINDING						
LAB	LABORATORY	2SZW	TWO SPEED TWO WINDING						
LAN	LOCAL AREA NETWORK	2SR2W	TWO SPEED REVERSING TWO WINDING						

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GENERAL NOTES

- A. REFER TO SHEET E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
- B. CIRCUIT SIGNAGE TO NEW BUILDING AS SHOWN.
- C. ELECTRICAL CONTRACTOR SHALL VERIFY UNDERGROUND SERVICE REQUIREMENTS WITH POWER COMPANY.
- D. SIGNAGE TO BE INSTALLED BY SIGN CONTRACTOR. VERIFY EXACT LOCATIONS, LOADS, AND WIRING REQUIREMENTS PRIOR TO INSTALLATION.
- E. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT, WIRING, AND CONNECTIONS FOR SIGNAGE AND PARKING LOT LIGHTS. COORDINATE EXACT LOCATIONS.
- F. ELECTRICAL CONTRACTOR SHALL VERIFY ALL REQUIREMENTS WITH SITE CONTRACTOR.
- G. UNDERGROUND CONDUIT INSTALLATIONS SHALL COMPLY WITH NEC ARTICLE 300.5. UNLESS OTHERWISE NOTED, MINIMUM SIZE FOR CONDUIT SHALL BE 1\".
- H. EXTERIOR LIGHTING AND SIGN LIGHTING SHALL BE CONTROLLED VIA TIME CLOCK AND PHOTOCELL. REFER TO SHEET E5.1 FOR LIGHTING CONTROL WIRING DIAGRAM.

KEYNOTES

- 1 EXTERIOR MENU BOARD. PROVIDE 1\"C FROM MENU BOARD TO PANEL 'L2' AND PROVIDE 1\" SPARE CONDUIT.
- 2 1\" CABLE ELECTRIC SERVICE FOR VEHICLE DETECTOR, AUDIO, AND VIDEO TO BACK OF DRIVE THRU WINDOW SPEAKER POST.
- 3 TELEPHONE SERVICE IN 2\" UNDERGROUND CONDUIT. ROUTE LINE TO BUILDING AT THIS LOCATION. COORDINATE TELEPHONE SERVICE WITH UTILITY.
- 4 TRASH COMPACTOR. PROVIDE 30A/240V/3P4W/NEMA 3R DISCONNECT SWITCH WITH 3#10, #10 GND, IN 1\"C TO PANEL MDP. STUB UP AGAINST SERVICE YARD WALL.
- 5 PROVIDE 3/4\" CONDUIT WITH PULL STRING FROM LIGHT POLE BACK TO BUILDING FOR CAMERAS AND ACCESS POINTS. COORDINATE WITH OWNER REPRESENTATIVE FOR ADDITIONAL REQUIREMENTS.

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
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12/13/2021



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12/22/20
PROFESSIONAL OF RECORD:
JASON E. CHRISTOFF No. 20012002143
EXP. DATE: 12/31/20

REV	DESCRIPTION	DATE

Project No.: 62-40497-01

Client Project No.:

Drawing Title:

ELECTRICAL SITE PLAN

Date: 12/22/20 Phase: PERMIT SET
Designed: DCU
Drawn: DCU
Checked: KFF
Drawing No.:
E1.1

1460 NE DOUGLAS ST
LEE'S SUMMIT, MO

WHATABURGER 20-M LEE'S SUMMIT



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12/22/20
PROFESSIONAL OF RECORD:
JASON E. CHRISTOFF No. 20012002143
EXP. DATE: 12/31/20

Project No. 62-40497-01

Client Project No.

Drawing Title

ELECTRICAL LIGHTING PLAN - FIRST FLOOR

Date: 12/22/20 Phase: PERMIT SET

Designed: DCU

Drawn : DCU

Checked: KFF

Drawing No.:

Drawing No.:

504

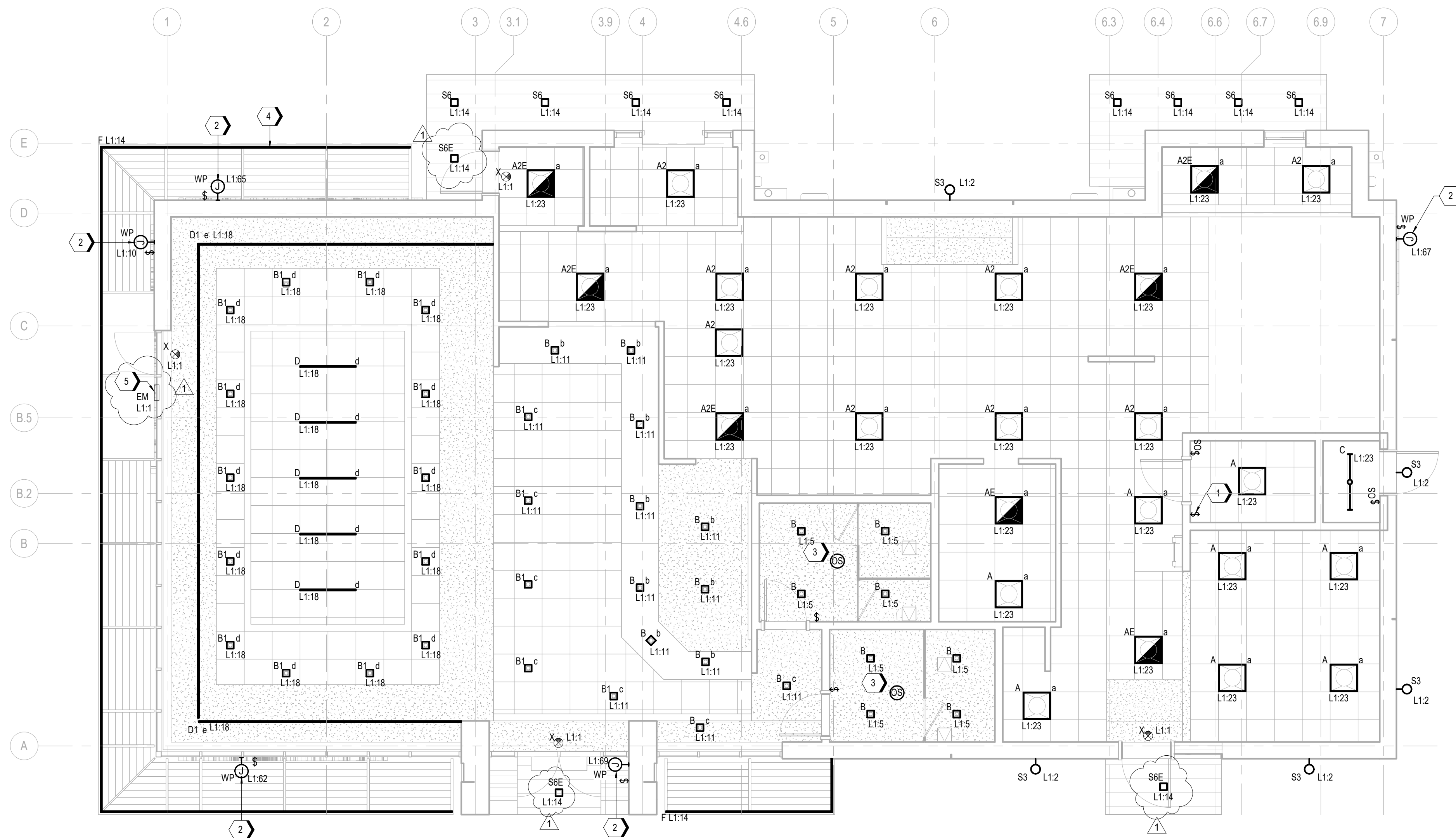
E2.

GENERAL NOTES

- A. REFER TO SHEET E01 AND E02 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
- B. DINING ROOM LIGHTING PLAN CORRESPONDS TO REFLECTED CEILING PLAN. SHEET A1.3. ELECTRICAL CONTRACTOR SHALL REFER TO THE PLANS PROVIDED BY INTERIOR DECOR.
- C. ALL LIGHTING FIXTURES SHALL BE SWITCHED LOCALLY, CONTROLLED BY OCCUPANCY SENSOR OR BMS CONTROLLED UNLESS OTHERWISE NOTED.
- D. SPECIAL SWITCHES SHALL BE INSTALLED AS NOTED.
- E. REFER TO ARCHITECTURAL CEILING PLAN, SHEET A1.3 FOR EXACT LOCATIONS OF ALL LIGHT FIXTURES AND HVAC DIFFUSER LOCATIONS PRIOR TO ANY ELECTRICAL ROUGH-IN.
- F. COORDINATE EXACT LOCATION OF J-BOXES WITH ACTUAL LOCATION OF RESPECTIVE SIGNAGE OR LIGHTING. ALL EXTERIOR SIGNAGE AND LIGHTING SHALL BE CONTROLLED THROUGH A LIGHTING CONTROL PANEL. LIGHTING CONTROL PANEL SHALL HAVE AN 8-POLE, NORMALLY OPEN CONTACTOR. ALL WHATABURGER LOGO BUILDINGS SIGNS CONNECTED TO OUTDOOR SIGNAGE TERMINALS. SOFFIT RECESSED FIXTURES, AND BACK DOOR LIGHTING ARE CONNECTED TO OUTDOOR LIGHTING TERMINALS.
- G. REFER TO SHEET E1.1 FOR LOCATIONS OF SIGNAGE, PARKING LOT LIGHTING, DRIVE THRU CONDUITS AND SERVICE LOCATION.
- H. ELECTRICAL CONTRACTOR SHALL DETERMINE FINAL CONDUCTOR LENGTHS AND SIZES AS PER N.E.C. SIZE OF CONDUCTORS SHALL BE ADJUSTED FOR VOLTAGE DROP AS REQUIRED BY N.E.C.
- I. ALL PENETRATIONS THROUGH THE WALK IN COOLER/FREEZER ARE TO BE SEALED WITH SILICONE AROUND THE INTERIOR AND EXTERIOR OF THE CONDUITS TO PREVENT CONDENSATION.
- J. ELECTRICAL CONTRACTOR SHALL FEED SIGNAGE AND SECURITY LIGHTING WITH SEPERATE CIRCUITS ON ANY COMMON CONDUIT RUN. FOR EXAMPLE, DO NOT FEED A POLE TOP SECURITY LIGHT IN THE SAME CIRCUIT WITH THE LARGE SIGN. SEPERATE ALL SIGNAGE AND SECURITY LIGHTING.
- K. REFER TO ARCHITECTURAL ELEVATIONS FOR BUILDING SIGN LOCATIONS. COORDINATE ALL J-BOX LOCATIONS WITH SIGN LOCATIONS PRIOR TO INSTALLATION.
- L. REFER TO SHEET E6.1 FOR LIGHT FIXTURE SCHEDULE.

KEYNOTES

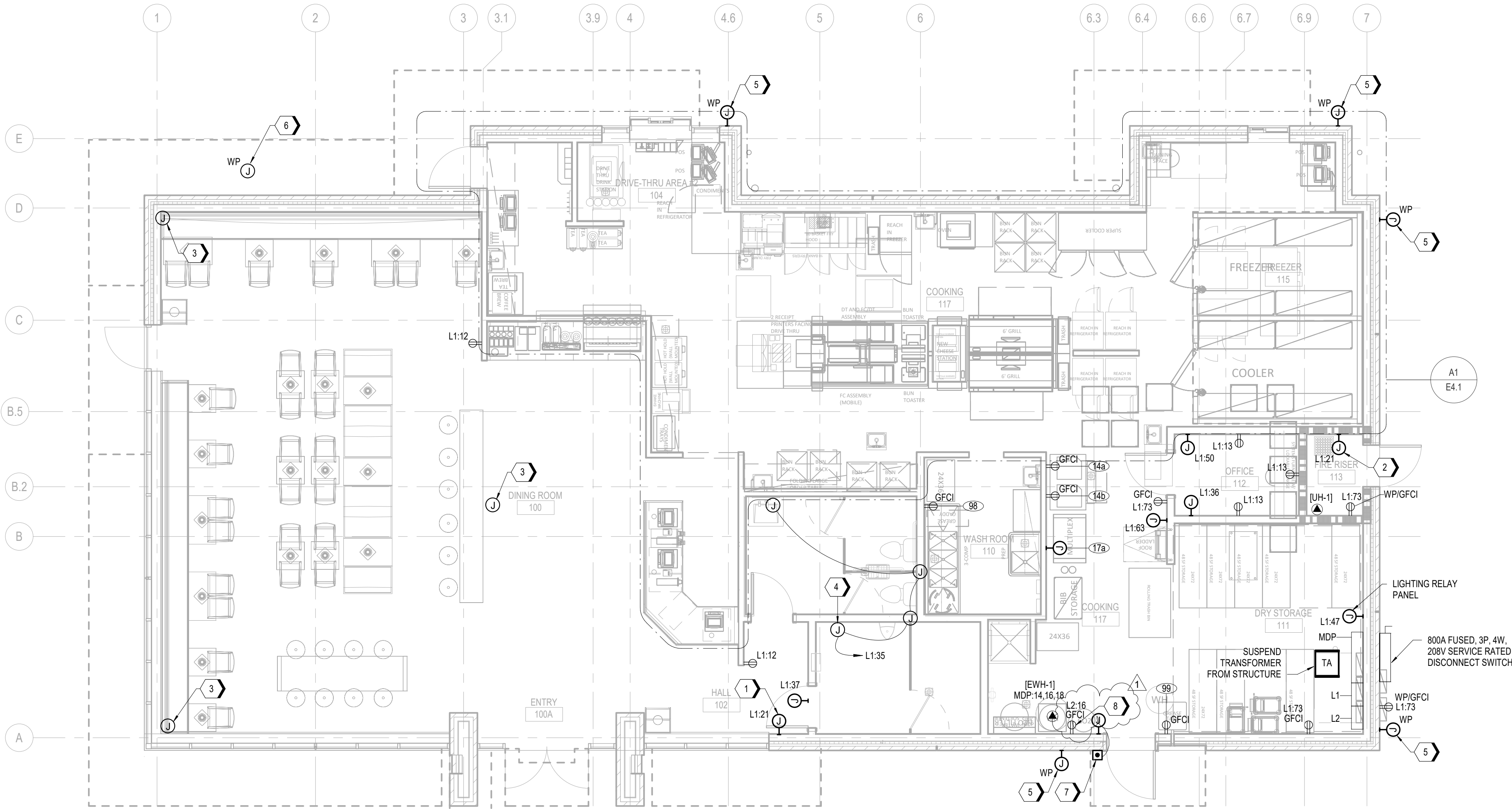
- 1 PROVIDE GRAPHIC LIGHTING CONTROL SCENE SELECTOR SWITCH TO CONTROL SWITCH LEGS "3" & "4"
- 2 COORDINATE EXACT LOCATION OF JUNCTION BOX FOR EXTERIOR SIGNAGE WITH ACTUAL LOCATION OF EXTERIOR SIGNAGE. PROVIDE SWITCH FOR SIGNAGE IN WEATHER PROOF ENCLOSURE.
- 3 CEILING/LAMP MOUNTED OCCUPANCY SENSOR TO CONTROL LIGHTING WITHIN THIS SPACE WITH A MAXIMUM DELAY SETTING OF 30 MINUTES.
- 4 REFER TO VIEW "C" ON SHEET "A6.8" FOR TYPE "D" DETAIL.
- 5 EM/STEP LIGHT SHALL BE WIRED ONLY AS AN EMERGENCY LIGHT TO BE ENERGIZED UPON POWER FAILURE. MOUNT FIXTURE A MINIMUM OF 8' ABOVE FINISHED GRADE AND 8" FROM DOOR.



A1 ELECTRICAL LIGHTING PLAN
3/16" = 1'-0"

$$3/16'' = 1'-0''$$

A1 ELECTRICAL POWER PLAN
3/16" = 1'-0"



GENERAL NOTES

- REFER TO SHEET E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
- VERIFY ALL POWER AND TELEPHONE COMPANY REQUIREMENTS PRIOR TO ALL INSTALLATIONS.
- LEAVE A PULL WIRE IN ALL EMPTY CONDUITS.
- ELECTRICAL CONTRACTOR SHALL ROUTE UNDERFLOOR POWER WIRING IN CONDUITS TO KITCHEN PANELS AS REQUIRED.
- ELECTRICAL KITCHEN EQUIPMENT SCHEDULE IS ONLY SHOWN FOR REFERENCE. COORDINATE ALL KITCHEN RECEPTACLES, EQUIPMENT CONNECTIONS, AND INSTALLATION WITH KITCHEN DRAWINGS AND EQUIPMENT SUPPLIER. REFER TO EQUIPMENT SUPPLIER DRAWINGS FOR PRE-WIRED KITCHEN PANELS AND FOR ADDITIONAL EQUIPMENT LISTING AND REQUIREMENTS.
- PANELS SHALL NOT TAKE MORE SPACE THAN ALLOCATED ON PLANS. ONLY SPACES FOR BREAKERS SHALL HAVE KNOCKOUTS IN PANELS. BREAKER CLOSURE PLATES SHALL BE KEPT TO A MINIMUM.
- ELECTRICAL CONTRACTOR SHALL CONNECT ALL INTERNAL WIRING (CORD SETS) BETWEEN VENTILATION STAND AND PASS-THROUGH STAND. CONNECTIONS SHALL BE COMPLETE AND TESTED BEFORE ACCEPTANCE.
- CENTER ISLAND KITCHEN EQUIPMENT IS PROVIDED PREWIRED TO EQUIPMENT CONTRACTORS.
- ALL JUNCTION BOXES SERVING ISOLATED GROUND RECEPTACLES, SHALL BE LABELED "REGISTER."
- ALL ISOLATED GROUND SPLICES SHALL BE MADE WITH CRIMP TYPE CONNECTORS. WIRE NUTS ARE NOT ACCEPTABLE.
- REFER TO KITCHEN EQUIPMENT PLANS FOR EXACT LOCATION OF ELEC. CONDUIT STUB-UPS AT COOK LINES.
- ALL KITCHEN 115 AND 120 VAC RECEPTACLES SHALL BE GFCI PROTECTED PER NEC AND LOCAL AHJ.
- REFER TO SHEET E6.1 FOR KITCHEN EQUIPMENT SCHEDULE.

KEYNOTES

- FIRE ALARM ANNUNCIATOR PANEL. REFER TO FIRE ALARM DRAWINGS FOR FURTHER INFORMATION.
- FIRE ALARM CONTROL PANEL. REFER TO FIRE ALARM DRAWINGS FOR FURTHER INFORMATION.
- PROVIDE CEILING MOUNTED JUNCTION BOX FOR SECURITY. PROVIDE 3/4" CONDUIT WITH NYLON PULL STRING FROM ELECTRICAL PANEL AREA TO JUNCTION BOX.
- PROVIDE STEP-DOWN TRANSFORMER FOR FLUSH VALVES.
- PROVIDE WALL MOUNTED, GASKETED JUNCTION BOX MOUNTED 9'-0" ABOVE GRADE FOR SECURITY. PROVIDE 3/4" CONDUIT WITH NYLON PULL STRING FROM ELECTRICAL PANEL AREA TO JUNCTION BOX.
- PROVIDE CEILING MOUNTED, GASKETED JUNCTION BOX FOR SECURITY. PROVIDE 3/4" CONDUIT WITH NYLON PULL STRING FROM ELECTRICAL PANEL AREA TO JUNCTION BOX.
- PROVIDE BELL AND BUZZER WITH STAINLESS STEEL COVER PLATE. PROVIDE 120/24V CONTROL TRANSFORMER. EDWARDS #156G-3G5/592/630.
- PROVIDE CO2 DETECTION SYSTEM (EQUAL TO LOGICO2, CO2 MK9 DETECTOR SET 4 A) AND ASSOCIATED GFI RECEPTACLE. INSTALL SYSTEM PER MANUFACTURER RECOMMENDATIONS, AND LOCAL AND FEDERAL CODE REQUIREMENTS.



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12/22/20
PROFESSIONAL OF RECORD:
JASON E. CHRISTOFF No. 20012002143
EXP. DATE: 12/31/20

REV	DESCRIPTION	DATE
1	REV-1 Plan Review	01/27/21

Project No.: 62-40497-01

Client Project No.:

Drawing Title:

ELECTRICAL POWER PLAN

Date: 12/22/20 Phase: PERMIT SET

Designed: DCU

Drawn: DCU

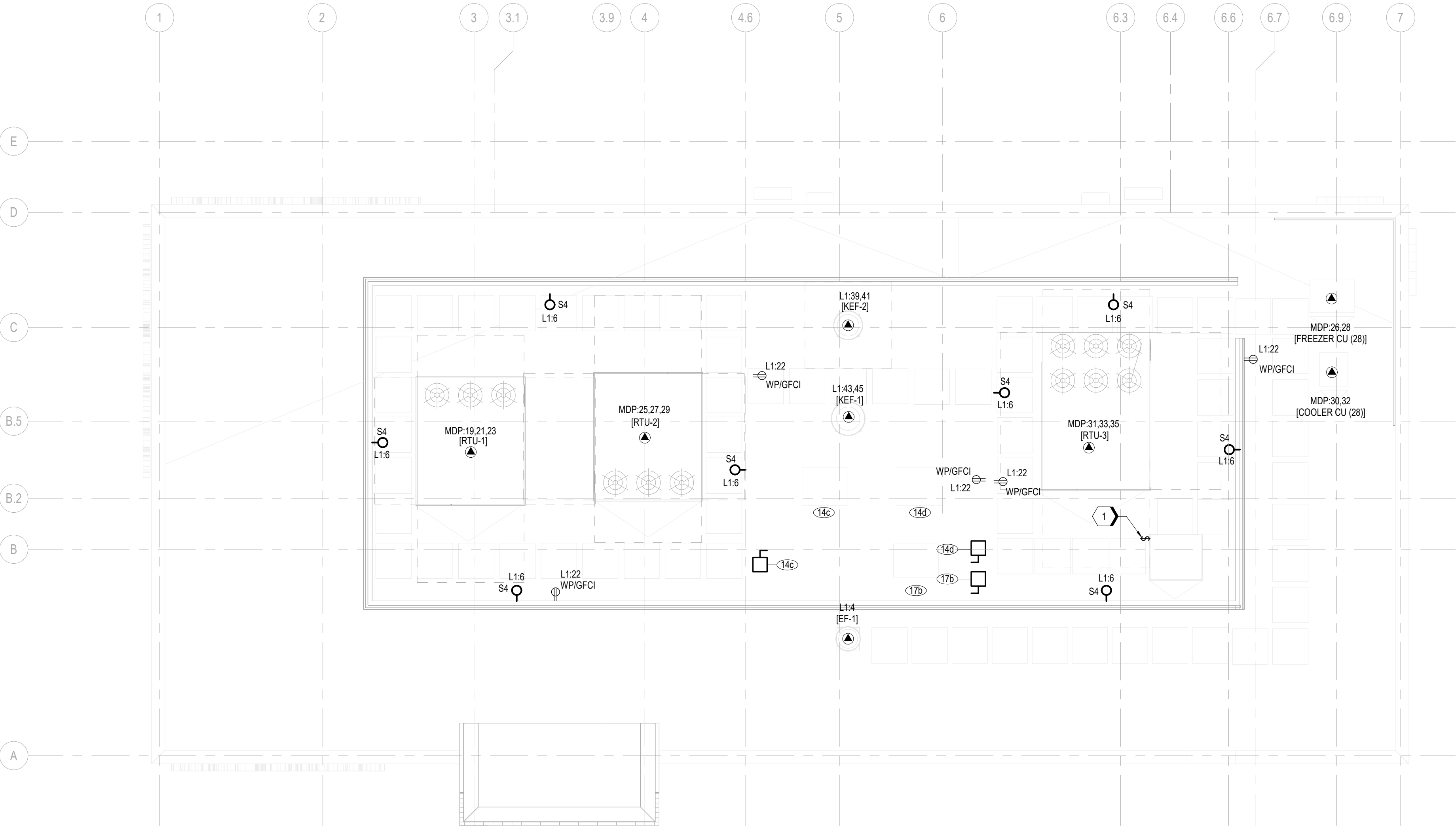
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Drawing No.:

E3.1

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A1 ELECTRICAL POWER PLAN - ROOF
3/16" = 1'-0"

GENERAL NOTES

- A. REFER TO SHEET E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
- B. VERIFY ALL POWER AND TELEPHONE COMPANY REQUIREMENTS PRIOR TO ALL INSTALLATIONS.
- C. LEAVE A PULL WIRE IN ALL EMPTY CONDUITS.
- D. ELECTRICAL CONTRACTOR SHALL ROUTE UNDERFLOOR POWER WIRING IN CONDUITS TO KITCHEN PANELS AS REQUIRED.
- E. ELECTRICAL KITCHEN EQUIPMENT SCHEDULE IS ONLY SHOWN FOR REFERENCE. COORDINATE ALL KITCHEN RECEPTACLES, EQUIPMENT CONNECTIONS, AND INSTALLATION WITH KITCHEN DRAWINGS AND EQUIPMENT SUPPLIER. REFER TO EQUIPMENT SUPPLIER DRAWINGS FOR PRE-WIRED KITCHEN PANELS AND FOR ADDITIONAL EQUIPMENT LISTING AND REQUIREMENTS.
- F. PANELS SHALL NOT TAKE MORE SPACE THAN ALLOCATED ON PLANS. ONLY SPACES FOR BREAKERS SHALL HAVE KNOCKOUTS IN PANELS. BREAKER CLOSURE PLATES SHALL BE KEPT TO A MINIMUM.
- G. ELECTRICAL CONTRACTOR SHALL CONNECT ALL INTERNAL WIRING (CORD SETS) BETWEEN VENTILATION STAND AND PASS-THROUGH STAND. CONNECTIONS SHALL BE COMPLETE AND TESTED BEFORE ACCEPTANCE.
- H. CENTER ISLAND KITCHEN EQUIPMENT IS PROVIDED PREWIRED TO EQUIPMENT CONTRACTORS.
- I. ALL JUNCTION BOXES SERVING ISOLATED GROUND RECEPTACLES, SHALL BE LABELED "REGISTER."
- J. ALL ISOLATED GROUND SPLICES SHALL BE MADE WITH CRIMP TYPE CONNECTORS. WIRE NUTS ARE NOT ACCEPTABLE.
- K. REFER TO KITCHEN EQUIPMENT PLANS FOR EXACT LOCATION OF ELEC. CONDUIT STUB-UPS AT COOK LINES.
- L. ALL KITCHEN 115 AND 120 VAC RECEPTACLES SHALL BE GFCI PROTECTED PER NEC AND LOCAL AHJ.
- M. REFER TO SHEET E6.1 FOR KITCHEN EQUIPMENT SCHEDULE.

KEYNOTES

1. PROVIDE WEATHER PROOF ENCLOSURE FOR ROOF LIGHTING AND SWITCH.

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12/22/20
PROFESSIONAL OF RECORD:
JASON E. CHRISTOFF No. 20012002143
EXP. DATE: 12/31/20

REV	DESCRIPTION	DATE

Project No.: 62-40497-01

Client Project No.:

Drawing Title:

**ELECTRICAL POWER PLAN -
ROOF**

Date: 12/22/20

Phase: PERMIT SET

Designed: DCU

Drawing No.:

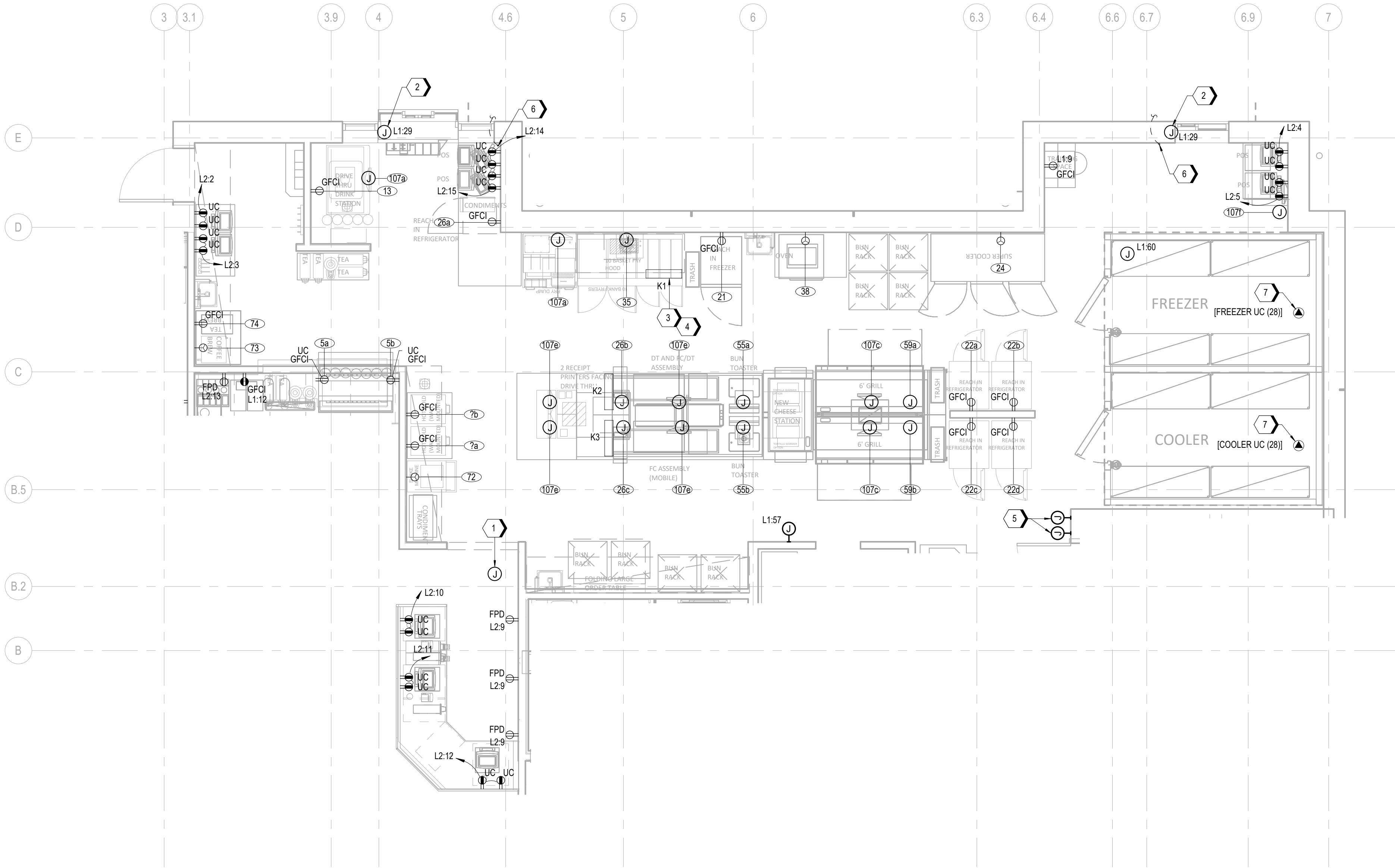
Drawn: DCU

Checked: KFF

E3.2

A1

ENLARGED FLOOR PLAN - KITCHEN
1/4" = 1'-0"



GENERAL NOTES

- A. REFER TO SHEET E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
- B. VERIFY ALL POWER AND TELEPHONE COMPANY REQUIREMENTS PRIOR TO ALL INSTALLATIONS.
- C. LEAVE A PULL WIRE IN ALL EMPTY CONDUITS.
- D. ELECTRICAL CONTRACTOR SHALL ROUTE UNDERFLOOR POWER WIRING IN CONDUITS TO KITCHEN PANELS AS REQUIRED.
- E. ELECTRICAL KITCHEN EQUIPMENT SCHEDULE IS ONLY SHOWN FOR REFERENCE. COORDINATE ALL KITCHEN RECEPTACLES, EQUIPMENT CONNECTIONS, AND INSTALLATION WITH KITCHEN DRAWINGS AND EQUIPMENT SUPPLIER. REFER TO EQUIPMENT SUPPLIER DRAWINGS FOR PRE-WIRED KITCHEN PANELS AND FOR ADDITIONAL EQUIPMENT LISTING AND REQUIREMENTS.
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- G. ELECTRICAL CONTRACTOR SHALL CONNECT ALL INTERNAL WIRING (CORD SETS) BETWEEN VENTILATION STAND AND PASS-THROUGH STAND. CONNECTIONS SHALL BE COMPLETE AND TESTED BEFORE ACCEPTANCE.
- H. CENTER ISLAND KITCHEN EQUIPMENT IS PROVIDED PREWIRED TO EQUIPMENT CONTRACTORS.
- I. ALL JUNCTION BOXES SERVING ISOLATED GROUND RECEPTACLES, SHALL BE LABELED "REGISTER."
- J. ALL ISOLATED GROUND SPLICES SHALL BE MADE WITH CRIMP TYPE CONNECTORS. WIRE NUTS ARE NOT ACCEPTABLE.
- K. REFER TO KITCHEN EQUIPMENT PLANS FOR EXACT LOCATION OF ELEC. CONDUIT STUB-UPS AT COOK LINES.
- L. ALL KITCHEN 115 AND 120 VAC RECEPTACLES SHALL BE GFCI PROTECTED PER NEC AND LOCAL AHJ.
- M. REFER TO SHEET E6.1 FOR KITCHEN EQUIPMENT SCHEDULE.

KEYNOTES

1. PROVIDE CEILING MOUNTED JUNCTION BOX FOR SECURITY, PROVIDE 3/4" CONDUIT WITH NYLON PULL STRING FROM ELECTRICAL PANEL AREA TO JUNCTION BOX.
2. PROVIDE JUNCTION BOX FOR POWER CONNECTION TO DRIVE-THRU WINDOW. COORDINATE WITH KITCHEN EQUIPMENT DRAWINGS FOR EXACT LOCATION AND CONNECTION REQUIREMENTS.
3. PROVIDE 3/4" UNDERGROUND CONDUIT FOR POWER TO ANSUL FIRE SUPPRESSION SYSTEM.
4. PRE-WIRED KITCHEN ELECTRICAL PANELS FURNISHED BY EQUIPMENT SUPPLIER. ACTUAL LOCATION DETERMINED BY EQUIPMENT SUPPLIER AND SHOWN FOR REFERENCE ONLY. REFER TO KITCHEN EQUIPMENT SUPPLIER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS.
5. INSTALL RACO #294 4" OCTAGON BOX MOUNTED FLUSH IN WALL 48" ABOVE FINISHED FLOOR WITH 1/2" CONDUIT ROUTED TO ABOVE CEILING WITH PULLWIRE FOR ANSUL PULLSTATION.
6. STUB UP 3/4" PVC 88" ABOVE FINISHED FLOOR FOR LOW VOLTAGE FOR DRIVE-THRU SENSOR. REFER TO SHEET E1.1 FOR CONTINUATION.
7. REFER TO KITCHEN EQUIPMENT SUPPLIER FOR TIME CLOCK AND LOCAL DISCONNECTING MEANS IN FREEZER/COOLER.

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12/22/20
PROFESSIONAL OF RECORD:
JASON E. CHRISTOFF No. 20012002143
EXP. DATE: 12/31/20

REV	DESCRIPTION	DATE

Project No.: 62-40497-01

Client Project No.:

Drawing Title:

ELECTRICAL ENLARGED
PLANS

Date: 12/22/20 Phase: PERMIT SET

Designed: DCU

Drawn: DCU

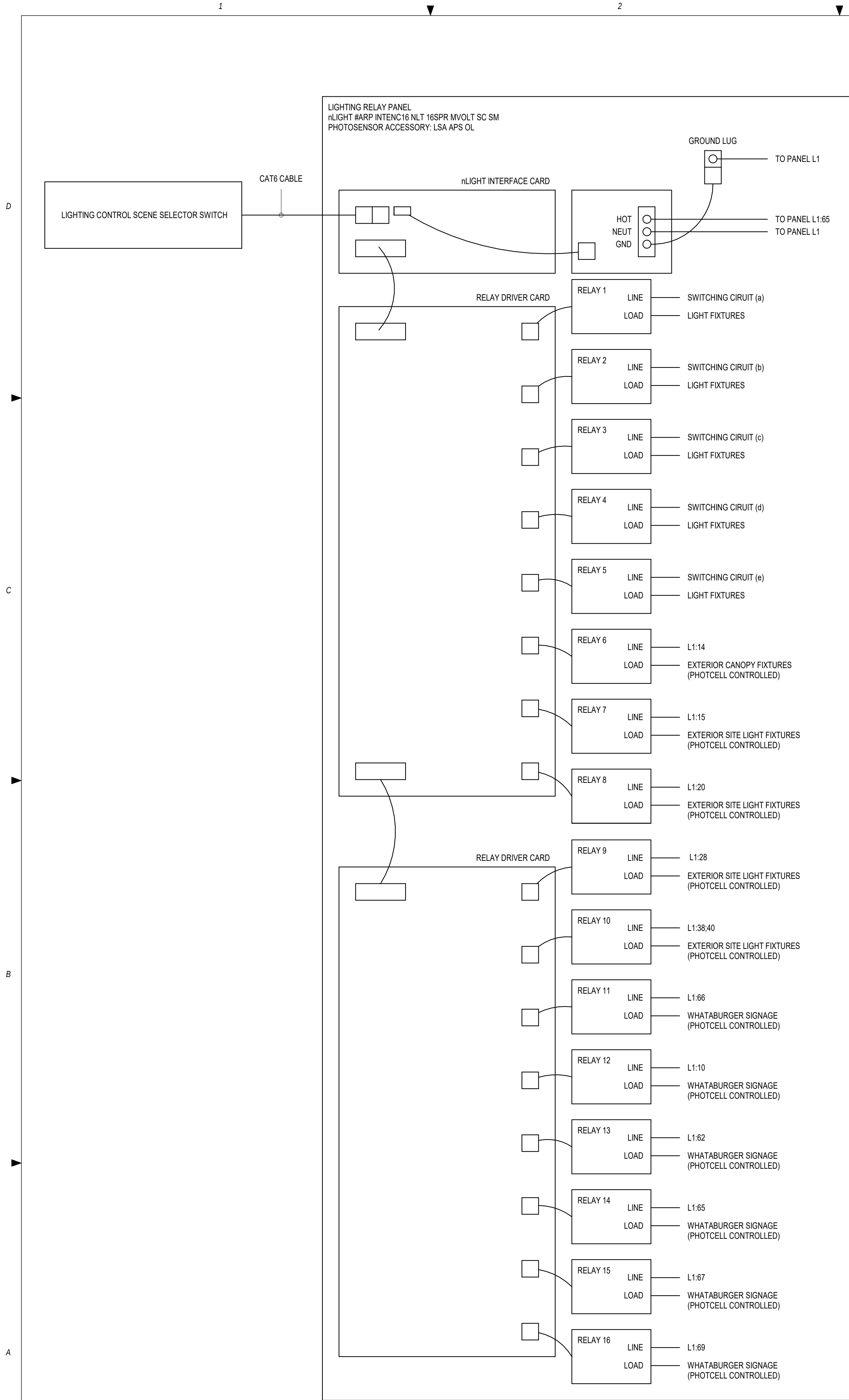
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Drawing No.:

E4.1

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A1

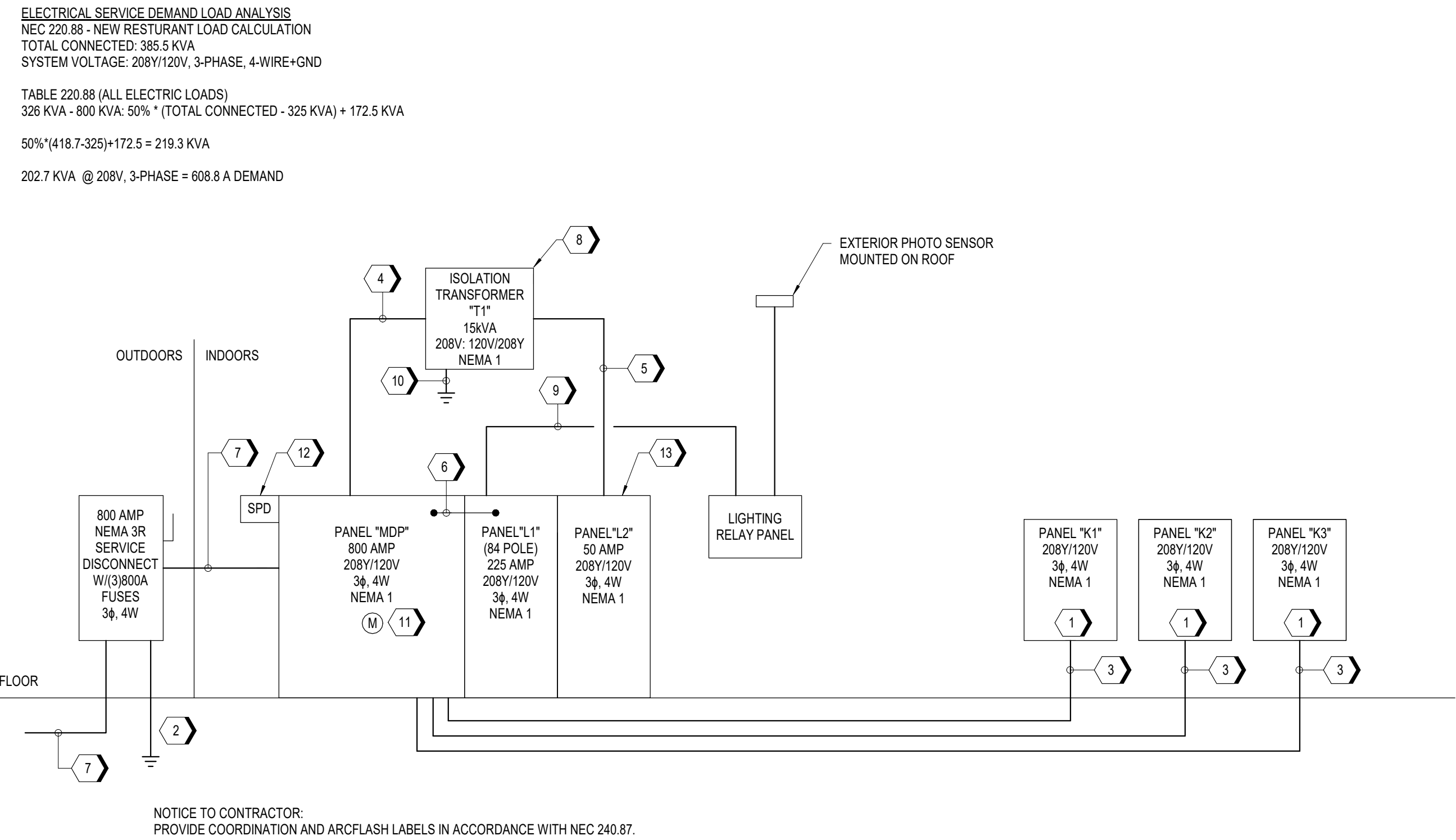
LIGHTING RELAY PANEL DIAGRAM

N.T.S.

A3

SINGLE LINE DIAGRAM

N.T.S.



KEYNOTES

- FURNISHED BY KITCHEN EQUIPMENT SUPPLIER. COORDINATE WITH SUPPLIER FOR FINAL LOCATIONS. CIRCUITS ARE PREWIRED TO EQUIPMENT. FEEDERS BY CONTRACTOR. COORDINATE AND RESIZE WHERE REQUIRED.
- GROUNDING SHALL BE PER NEC. FURNISH AND INSTALL 3/4"x10'-0" GROUND ROD AT A CONCRETE ENCASED ELECTRODE. CONNECT THE BUILDING SERVICE GROUND TO THE GROUND ROD, ENCASED ELECTRODE AND DOMESTIC COLD WATER PIPING WITH BARE #30 COPPER CONDUCTOR. BONDING SHALL BE PER NEC. REFER TO CS&ES.2
- 4#10, #6 GND, IN 2"C.
- 3#6, #10 GND, IN 1"C.
- 4#6, #10 GND, IN 1"C.
- 4#4/0, #4 GND, IN 2-1/2"C.
- (2 SETS) 4-600 KCMIL #10 GND, IN EACH 3-1/2"C.
- PROVIDE ISOLATION TRANSFORMER. SUSPEND TRANSFORMER FROM STRUCTURE. REFER TO DETAIL B1/E5.2.
- 2#12, #12 GND, IN 3/4"C.
- #8 GROUNDING ELECTRODE CONDUCTOR.
- PROVIDE DIGITAL LCD kWh DEMAND METER.
- PROVIDE 240 kA SURGE PROTECTIVE DEVICE.
- PROVIDE MODULAR PANELBOARD SYSTEM (SQUARE D CATALOG: MPS) FOR PANELS MDP, L1, AND L2.

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JASON E. CHRISTOFF No. 20012002143
EXP. DATE: 12/31/20

REV	DESCRIPTION	DATE

Project No.: 62-40497-01

Client Project No.:

Drawing Title:

ELECTRICAL DIAGRAMS

Date: 12/22/20 Phase: PERMIT SET

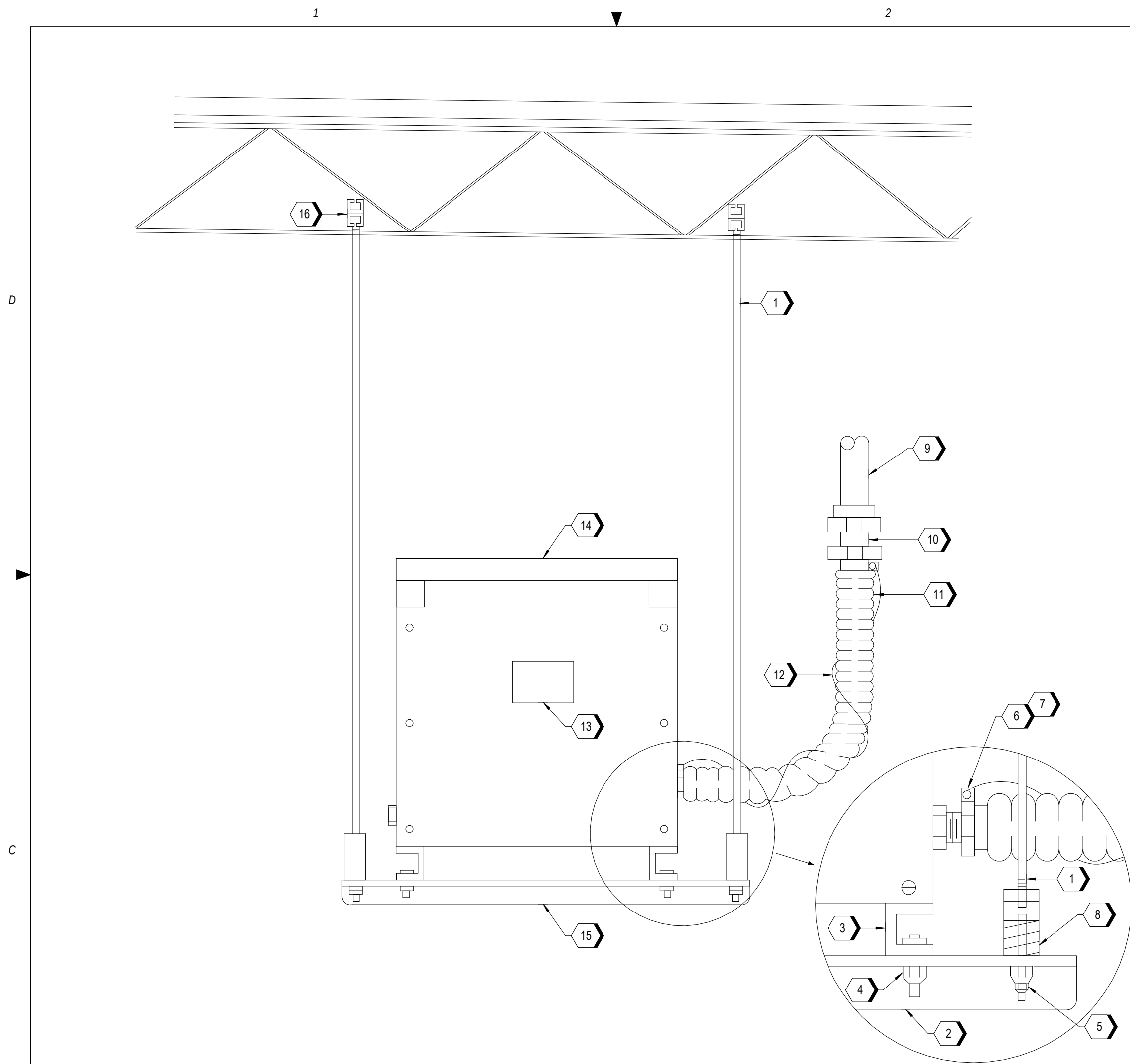
Designed: DCU

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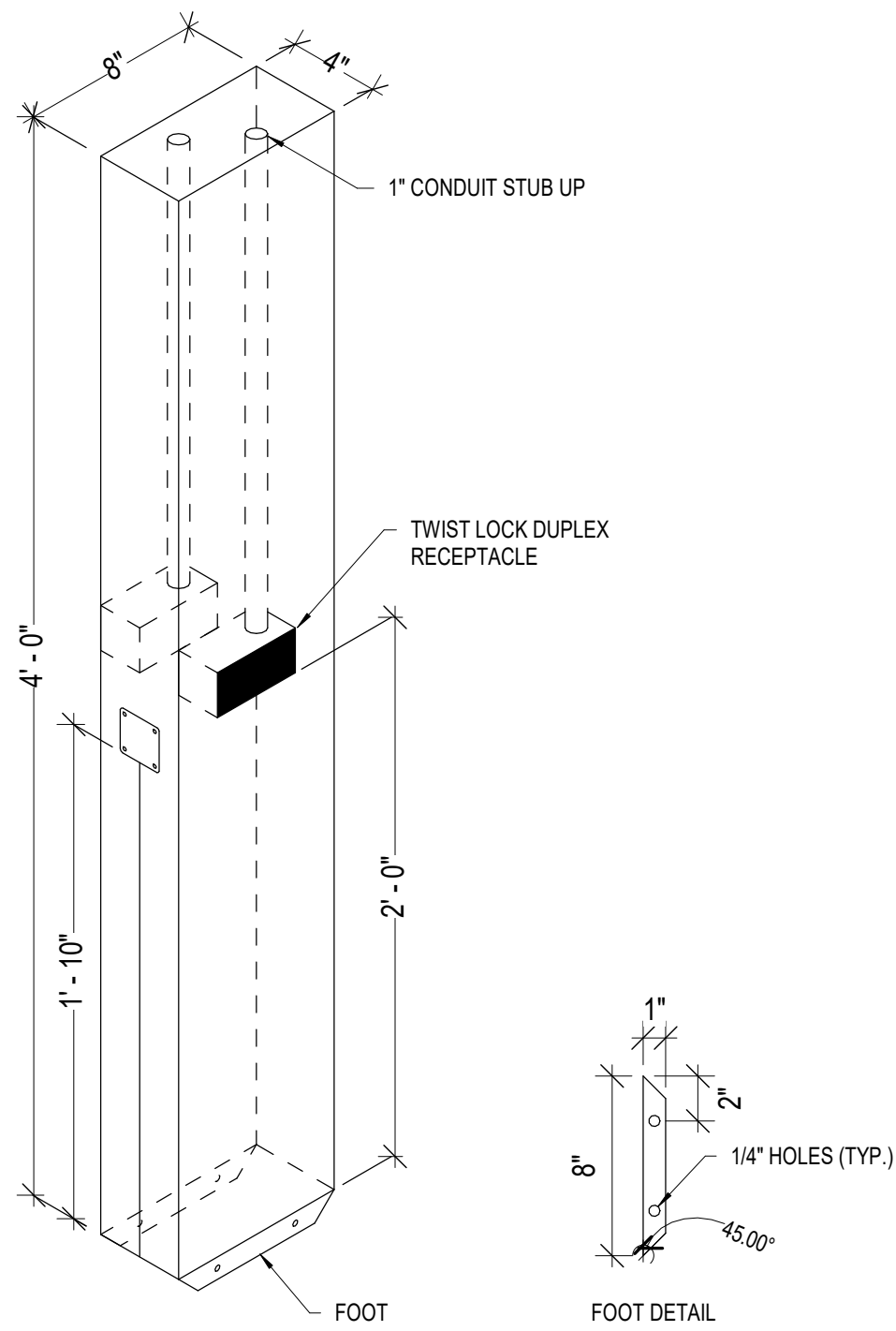
Checked: KFF

Drawing No.:

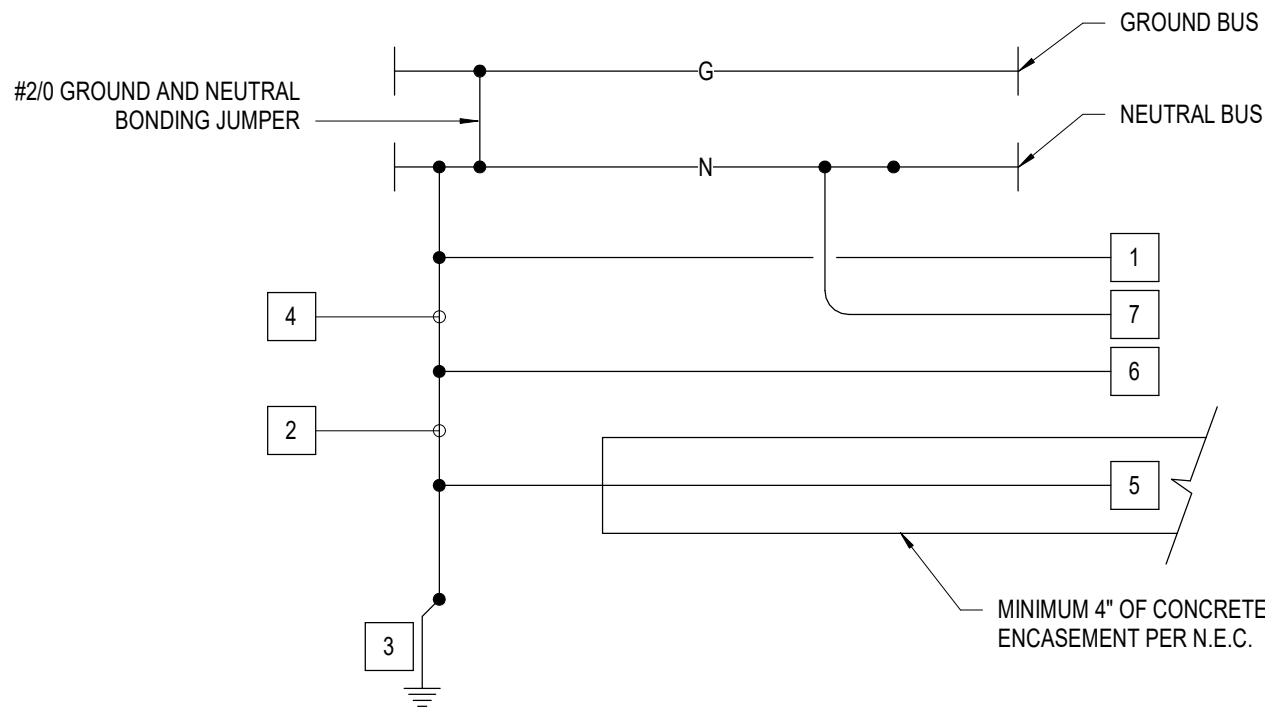
E5.1



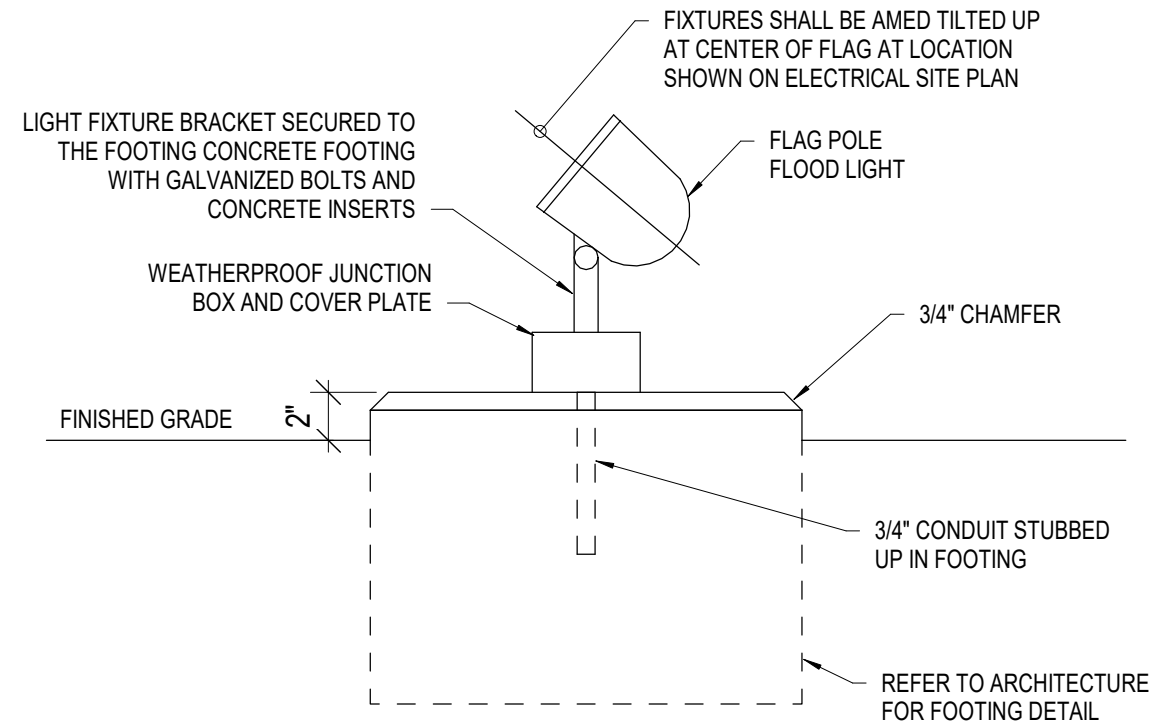
B1 TRANSFORMER SUSPENSION DETAIL
N.T.S.



A3 MONITOR CHASE DETAIL
1 1/2" = 1'-0"



C3 SERVICE ENTRANCE GROUNDING DETAIL
N.T.S.



A4 FLAG POLE FLOOD LIGHT
N.T.S.

KEYNOTES

- 1/2" DIAMETER THREADED STEEL ROD SUPPORT FROM STRUCTURE ABOVE.
- ANGLE IRON SUPPORT 3" x 3" TO REQ'D. LENGTH TO SUIT.
- TRANSFORMER BASE CHANNEL.
- 1/2" DIAMETER NUT, BOLT & WASHER 4 REQUIRED.
- 1/2" DIAMETER NUT, LOCKNUT & LOCKWASHER 4 REQUIRED.
- SECONDARY CONNECTION DETAIL, PRIMARY - SIMILAR.
- GROUND CONNECTOR.
- VIBRATION ELIMINATOR 4 REQUIRED.
- RIGID CONDUIT.
- COMBINATION COUPLING.
- LIQUID TIGHT FLEXIBLE METAL CONDUIT 18" MIN.
- EXTERNAL COPPER BONDING WIRE.
- NAMEPLATE-CONNECTION DIAGRAM.
- TRANSFORMER.
- BOTTOM OF SUPPORT OR ANY DEVICE SHALL NOT BE LESS THAN 7'-0" ABOVE FINISHED FLOOR.
- PROVIDE MISCELLANEOUS STEEL SPAN TO THE NEXT JOIST AS REQ'D. TO CONN. TO STRUCTURE. SUBMIT DETAIL FOR STRUCTURAL ENGINEER APPROVAL.

SERVICE GROUNDING NOTES:	
1	PROVIDE 1#30 GROUNDING ELECTRODE CONDUCTOR IN 1" CONDUIT, CONNECTED TO BUILDING STRUCTURAL STEEL.
2	PROVIDE 1#30 GROUNDING ELECTRODE CONDUCTOR IN 1" CONDUIT, CONNECTED TO COPPER CLAD STEEL GROUND ROD
3	PROVIDE A 3/4" DIAMETER X 10'-0" LONG COPPER CLAD STEEL GROUND ROD AND CONNECT TO COLD WATER LINE FOR SERVICE ENTRANCE
4	PROVIDE 1#30 GROUNDING ELECTRODE CONDUCTOR IN 1" CONDUIT
5	PROVIDE 1#30 CONCRETE ENCASED GROUNDING ELECTRODE WITH A MINIMUM LENGTH OF 20'-0".
6	PROVIDE 1#30 GROUNDING ELECTRODE CONDUCTOR TO COLD WATER METAL PIPE GROUND CLAMP.
7	1#6 EQUIPMENT GROUND CONDUCTOR IN 3/4" CONDUIT, CONNECTED TO TELEPHONE TERMINAL BACKBOARD.

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JASON E. CHRISTOFF No. 20012002143
EXP. DATE: 12/31/20

REV	DESCRIPTION	DATE

Project No.: 62-40497-01
Client Project No.:

Drawing Title:
ELECTRICAL DETAILS

Date: 12/22/20 Phase: PERMIT SET
Designed: DCU Drawing No.:
Drawn: DCU
Checked: R. ORTIZ

E5.2

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LIGHTING FIXTURE SCHEDULE									
TYPE	MANUFACTURER	MODEL	DESCRIPTION	LAMP	VOLTAGE	LUMENS	WATTS	MOUNTING	COMMENTS
A	LITHONIA	2GTL 2 20L GZ10 LP840	2X2' RECESSED TROFFER (4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	2366	18	CEILING	
A2	LITHONIA	2GTL 2 48L GZ10 LP840 ABC	GASKETED 2X2' RECESSED TROFFER (4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	5112	42	CEILING	
A2E	LITHONIA	2GTL 2 48L GZ10 LP840 E10WLCP ABC	GASKETED 2X2' RECESSED TROFFER WITH EMERGENCY BATTERY PACK (4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	5112	42	CEILING	
AE	LITHONIA	2GTL 2 20L GZ10 LP840 E10WLCP	2X2' RECESSED TROFFER WITH EMERGENCY BATTERY PACK (4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	2366	18	CEILING	
B	LITHONIA	LDN4SQ 40/10 L54AR LSS MVOLT GZ10	4" RECESSED SQUARE LED DOWNLIGHT CLEAR, SEMI-SPECULAR REFLECTOR (4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	877	11	CEILING	
B1	LITHONIA	LDN4SQ 40/15 L54AR LSS MVOLT GZ10	4" RECESSED SQUARE LED DOWNLIGHT CLEAR, SEMI-SPECULAR REFLECTOR (4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	1268	18	CEILING	
C	LITHONIA	CLX L36 2250LM SEF FDL MVOLT GZ10 40K 80CRI	36" INDUSTRIAL STRIP (4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	2101	16	SURFACE	
D	MARK	SLAL LOP 4FT FLP (TRIM) 80CRI 40K 600LMF MIN1 120 ZT	4' LINEAR RECESSED SLOT (4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	2227	23	CEILING	
D1	MARK	SLAL LOP (LENGTH) FLP (TRIM) 80CRI 40K 600LMF MIN1 120 ZT (90DBG CORNERS)	LINEAR RECESSED SLOT, LENGTH AS INDICATED ON DRAWINGS (4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	600 FT		CEILING	6 WATTS PER LINEAR FOOT
EM	COLE	L2156W-HO-2-J-B-EM	EMERGENCY STEP LIGHT WITH 90 MIN BATTERY BACKUP	LED	120 V		22	WALL	WIRE AS EM LIGHT ONLY
F	(TARGETT)	DURA/AP61P66 PRAP-W	FLEXIBLE LINEAR LIGHT STRIP FOR CONTINUOUS CONSTANT COLOR	LED	120 V	111 FT		CEILING	4 WATTS PER LINEAR FOOT
S1	TECHLIGHT	CTL-N-3SL-T3-1	POLE MOUNTED SINGLE HEAD LED TYPE 3 AREA FIXTURE (4000K COLOR TEMPERATURE)	LED	120 V	34781	249	POLE	FIXTURE MOUNTED AT 25'-0"
S1-2	TECHLIGHT	CTL-N-3SL-T3-1	POLE MOUNTED DOUBLE HEAD 180 DEGREES LED TYPE 3 AREA FIXTURE (4000K COLOR TEMPERATURE)	LED	120 V	69484	442	POLE	2 FIXTURES AT 180 DEGREE ORIENTATION MOUNTED AT 25'-0"
S1-29	TECHLIGHT	CTL-N-3SL-T5W-1	POLE MOUNTED DOUBLE HEAD 90 DEGREES LED TYPE 3 AREA FIXTURE (4000K COLOR TEMPERATURE)	LED	120 V	39950	294	POLE	2 FIXTURES AT 90 DEGREE ORIENTATION MOUNTED AT 25'-0"
S2	BEGA	99 777 SLV / 84/623 SLV	LED BOLLARD (4000K COLOR TEMPERATURE)	LED	120 V	768	34	BOLLARD	
S3	LITHONIA	DSCW1 10C 530 40K T3M MVOLT PE DDBXD	FAÇADE EXTERIOR WALL PACK	LED	120 V	2010	19	WALL	WALL MOUNTED 12'-0" ABOVE GRADE
S4	LITHONIA	TWS LED P1 50K MVOLT PE DDB	EXTERIOR WALL PACK	LED	120 V	2010	18	WALL	TOP OF FIXTURE, WALL MOUNTED 1'-0" BELOW SCREEN WALL
S5	LITHONIA	OLBF 8 30K DDB	LED FLAG POLE BULLET FLOOD LIGHT	LED	120 V	592	11	FLOOD	
S6	LITHONIA	LDN4 40/15 LQ4AR LSS MVOLT GZ10	4" RECESSED SQUARE LED DOWNLIGHT CLEAR, SEMI-SPECULAR REFLECTOR (4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	1516	18	CEILING	
S6E	LITHONIA	LDN4 40/15 LQ4AR LSS MVOLT GZ10 EL	4" RECESSED SQUARE LED DOWNLIGHT CLEAR, SEMI-SPECULAR REFLECTOR WITH 90 MINUTE REMOTE BATTERY PACK (4000K COLOR TEMPERATURE, 80 CRI)	LED	120 V	1516	18	CEILING	REMOTE BATTERY PACK PS1055CPFMC
X	LITHONIA	LRP 1 RC 120/277 EL N	EXIT SIGN	LED	120 V		2	CEILING	

LIGHTING SCHEDULE NOTE:

ELECTRICAL CONTRACTOR BIDDERS MUST CONTACT DAVID GALVIN WITH ARCHITECTURAL LIGHTING ALLIANCE (ALA) FOR ALL LIGHTING AND LIGHTING CONTROLS BIDS AT 214-658-9000.
CORPORATEACCOUNTS@ALATX.COM WHATABURGER IS A REGISTERED NATIONAL ACCOUNT (NA) VIA ARCHITECTURAL LIGHTING ALLIANCE (ALA) AND HORTON CONTROLS GROUP (HCG).

EQUIPMENT CONNECTION SCHEDULE											
TAG	DISCONNECT RATING (AMP/VOLTAGE/POLE/FUSE/NEMA RAITING)	HP	KW	FLA	STARTER TYPE	VOLTAGE/POLES	LOAD	CIRCUIT NUMBER	WIRE & CONDUIT	COMMENTS	
COOLER CU (28)	30/240/2NF/NEMA 3R	1	-	12	-	208 V/2	2496 VA	MDP-30,32	2#12, #12 GND IN 3/4"	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS.	
COOLER UC (28)	30/240/2NF/NEMA 3R	-	-	2	-	208 V/2	2767 VA	L1-46,48	2#12, #12 GND IN 3/4"	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS.	
EF-1	-	1/20	-	-	-	120 V/1	150 VA	L1-4	2#12, #12 GND IN 3/4"	INTEGRAL DISCONNECT PROVIDED BY EQUIPMENT MANUFACTURER	
EW-H-1	60/240/3NF/NEMA 1	-	10	-	-	208 V/3	10000 VA	MDP-14,16,18	3#8, #10 GND IN 3/4"		
FREEZER CU (28)	60/240/2NF/NEMA 3R	3	-	30	-	208 V/2	6240 VA	MDP-26,28	2#8, #10 GND IN 3/4"	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS.	
FREEZER UC (28)	30/240/2NF/NEMA 3R	-	-	13.3	-	208 V/2	2767 VA	L1-53,55	2#12, #12 GND IN 3/4"	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS.	
KEF-1	-	3/4	-	-	-	208 V/2	1435 VA	L1-43,45	2#12, #12 GND IN 3/4"	INTEGRAL DISCONNECT PROVIDED BY EQUIPMENT MANUFACTURER	
KEF-2	-	1/4	-	-	-	208 V/2	686 VA	L1-38,41	2#12, #12 GND IN 3/4"	INTEGRAL DISCONNECT PROVIDED BY EQUIPMENT MANUFACTURER	
RTU-1	200/240/3NF/NEMA 3R	3	-	116.8	VFD	208 V/3	50077 VA	MDP-19,21,23	3#10, #6 GND IN 2"	VFD PROVIDED BY EQUIPMENT MANUFACTURER	
RTU-2	200/240/3NF/NEMA 3R	3	-	116.8	VFD	208 V/3	50077 VA	MDP-25,27,29	3#10, #6 GND IN 2"	VFD PROVIDED BY EQUIPMENT MANUFACTURER	
RTU-3	200/240/3NF/NEMA 3R	5	-	116.8	VFD	208 V/3	75296 VA	MDP-31,33,35	3#10, #6 GND IN 2"	VFD PROVIDED BY EQUIPMENT MANUFACTURER	
UH-1	30/240/2NF/NEMA 1	-	1.5	-	-	208 V/2	1500 VA	MDP-34,36	2#12, #12 GND IN 3/4"		

KITCHEN EQUIPMENT CONNECTION SCHEDULE											
TAG	DESCRIPTION	DISC. MEAN / MOUNTING HEIGHT	HP	KW	FLA	VOLTAGE/POLES	LOAD	CIRCUIT NUMBER	WIRE & CONDUIT	COMMENTS	
5a	DUAL SIDED DRINK DISPENSER	5-20R / -	-	-	-	120 V/1	960 VA	L1-25	2#12, #12 GND IN 3/4"	HOSPITAL GRADE RECEPTACLE, UNDER COUNTER	
5b	DUAL SIDED DRINK DISPENSER	5-20R / -	-	-	-	120 V/1	960 VA	L1-24	2#12, #12 GND IN 3/4"	HOSPITAL GRADE RECEPTACLE, UNDER COUNTER	
13	DRIVE THRU DRINK DISPENSER	5-20R / 24"	-	-	-	120 V/1	624 VA	L1-17	2#12, #12 GND IN 3/4"		
14a	ICE MAKER EVAPORATOR UNIT	5-20R / 66"	-	-	6	120 V/1	720 VA	L1-71	2#12, #12 GND IN 3/4"	HOSPITAL GRADE RECEPTACLE	
14b	ICE MAKER EVAPORATOR UNIT	5-20R / 66"	-	-	6	120 V/1	720 VA	L1-75	2#12, #12 GND IN 3/4"	HOSPITAL GRADE RECEPTACLE	
14c	ICE MAKER CONDENSING UNIT	30A/240V/2P/NF / -	-	-	17.6	208 V/2	3661 VA	L1-52,54	2#10, #10 GND IN 3/4"		
14d	ICE MAKER CONDENSING UNIT	30A/240V/2P/NF / -	-	-	17.6	208 V/2	3661 VA	L1-59,61	2#10, #10 GND IN 3/4"		
17a	MULTIPLEX REFRIGERATION UNIT	30A/600V/3P/NF/- / -	-	-	25.2	208 V/3	9079 VA	L1-77,79,81	3#10, #10 GND IN 3/4"		
17b	MULTIPLEX CONDENSER UNIT	30A/240V/2P/NF / -	-	-	1.3	208 V/2	270 VA	L1-32,34	2#12, #12 GND IN 3/4"		
21	REACH IN FREEZER	5-20R / 76"	1/2	-	11.3	120 V/1	1040 VA	L1-26	2#12, #12 GND IN 3/4"		
22a	REACH IN REFRIGERATOR	5-20R / 76"	1/3	-	8.5	120 V/1	644 VA	L1-70	2#12, #12 GND IN 3/4"		
22b	REACH IN REFRIGERATOR	5-20R / 76"	1/3	-	8.5	120 V/1	644 VA	L1-16	2#12, #12 GND IN 3/4"		
22c	REACH IN REFRIGERATOR	5-20R / 76"	1/3	-	8.5	120 V/1	644 VA	L1-68	2#12, #12 GND IN 3/4"		
22d	REACH IN REFRIGERATOR	5-20R / 76"	1/3	-	8.5	120 V/1	644 VA	L1-68	2#12, #12 GND IN 3/4"		
24	SUPER COOLER	L14-20R / 76"	1	-	11	208 V/2	1830 VA	L1-42,44	2#12, #12 GND IN 3/4"		
26a	UNDER COUNTER REFRIGERATOR	5-20R / -	1/6	-	-	120 V/1	420 VA	L1-8	2#12, #12 GND IN 3/4"		
26b	UNDER COUNTER REFRIGERATOR	- / -	1/6	-	-	208 V/2	420 VA	K2-1,3	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER	
26c	UNDER COUNTER REFRIGERATOR	- / -	1/6	-	-	208 V/2	420 VA	K3-1,3	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER	
35	PITCO FRYER	6-50R / -	-	8.3	-	208 V/2	8258 VA	K1-1,3	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER	
35	PITCO FRYER	6-50R / -	-	8.3	-	208 V/2	8258 VA	K1-4,6	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER	
35	PITCO FRYER	15-60R / -	-	17	-	208 V/3	19671 VA	K1-14,16,18	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER	
35	PITCO FRYER	15-60R / -	-	19.7	-	208 V/3	17005 VA	K1-20,22,24	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER	
38	HALF-SIZED CONVECTION OVEN	15-30R / -	-	7.8	22.1	208 V/3	7800 VA	L1-72,74,76	3#10, #10 GND IN 3/4"		
55a	BUN TOASTER	- / -	-	3.3	-	208 V/2	3300 VA	K2-2,4	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER	
55b	BUN TOASTER	- / -	-	3.3	-	208 V/2	3300 VA	K3-2,4	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER	
59a	6" GRILL	- / -	-	36	-	208 V/3	36000 VA	K2-5,7,9	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER	
59b	6" GRILL	- / -	-	36	-	208 V/3	36000 VA	K3-5,7,9	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER	
72	SHAKE MACHINE	6-20R / 24"	-	-	13	208 V/2	2704 VA	L1-49,51	2#12, #12 GND IN 3/4"		
73	COFFEE BREWER	L14-30R / 24"	-	5.1	-	208 V/2	5100 VA	L1-56,58	3#10, #10 GND IN 3/4"		
74	TEA BREWER	5-20R / 24"	-	1.65	-	120 V/1	1650 VA	L1-33	2#12, #12 GND IN 3/4"		
98	MOBILE GREASE CADDY	5-20R / -	1/4	-	5.8	120 V/1	696 VA	L1-19	2#12, #12 GND IN 3/4"		
99	GREASE TANK	5-20R / 66"	-	-	-	120 V/1	500 VA	L1-64	2#12, #12 GND IN 3/4"		
107a	FLAT SCREEN MONITOR	L5-20R / -	-	-	-	120 V/1	360 VA	L2-7	2#12, #12 GND IN 3/4"		
107a	FLAT SCREEN MONITOR	L5-20R / -	-	-	-	120 V/1	360 VA	L2-7	2#12, #12 GND IN 3/4"		
107c	FLAT SCREEN MONITOR	L5-20R / -	-	-	-	120 V/1	360 VA	K2-8	2#12, #12 GND IN 3/4"		
107c	FLAT SCREEN MONITOR	L5-20R / -	-	-	-	120 V/1	360 VA	K3-8	2#12, #12 GND IN 3/4"		
107e	FLAT SCREEN MONITOR	L5-20R / -	-	-	-	120 V/1	360 VA	L2-8	2#12, #12 GND IN 3/4"		
107e	FLAT SCREEN MONITOR	L5-20R / -	-	-	-	120 V/1	360 VA	L2-8	2#12, #12 GND IN 3/4"		
107e	FLAT SCREEN MONITOR	L5-20R / -	-	-	-	120 V/1	360 VA	L2-8	2#12, #12 GND IN 3/4"		
107f	FLAT SCREEN MONITOR	L5-20R / -	-	-	-	120 V/1	360 VA	L2-6	2#12, #12 GND IN 3/4"		
7a	WALL MOUNTED HOT HOLD	5-20R / 24"	-	-	13	120 V/1	1500 VA	L1-30	2#12, #12 GND IN 3/4"		
7b	WALL MOUNTED HOT HOLD	5-20R / 24"	-	-	13	120 V/1	1500 VA	L1-31	2#12, #12 GND IN 3/4"		

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CONSTRUCTION
AS NOTED ON PLANS REVIEW
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12/22/20
PROFESSIONAL OF RECORD:
JASON E. CHRISTOFF No. 20012002143
EXP. DATE: 12/31/20

REV	DESCRIPTION	DATE
1	REV-1 Plan Review	01/27/21

Project No.: 62-40497-01

Client Project No.:

Drawing Title:

ELECTRICAL SCHEDULES

Date: 12/22/20

Phase: PERMIT SET

Designed: DCU

Drawing No.:

Drawn: DCU

Checked: KFF

E6.1

C:_Backup\Revit\WB-Lees Summit-MO_V18_ELECT_200921_dlmn.rvt

12/7/2021 3:40:58 PM

Panel: MDP													
Location: DRY STORAGE 111				Volts: 120/208 Wye				Mains Type: MLO				A.I.C. Rating: 22,000	
Supply From: SERVICE DISCONNECT				Phases: 3				Bus Rating: 800 A					
Mounting: SURFACE				Wires: 4									
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	PANEL 'L1'	225 A	3	24911 VA	4780 VA					3	60 A	PANEL 'L2'	2
3	--	--	--			25512...	3600 VA			--	--	--	4
5	--	--	--					23137 VA	2520 VA	--	--	--	6
7	PANEL 'K1'	150 A	3	19354 VA	14220 VA					3	150 A	PANEL 'K2'	8
9	--	--	--			20483...	13860...			--	--	--	10
11	--	--	--					18394 VA	12180 VA	--	--	--	12
13	PANEL 'K3'	150 A	3	14220 VA	3333 VA					3	40 A	EWB-1	14
15	--	--	--			13860...	3333 VA			--	--	--	16
17	--	--	--					12180 VA	3333 VA	--	--	--	18
19	RTU-1	150 A	3	16692 VA	0 VA					3	30 A	(FUTURE) TRASH COMPACTOR	20
21	--	--	--			16692...	0 VA			--	--	--	22
23	--	--	--					16692 VA	0 VA	--	--	--	24
25	RTU-2	150 A	3	16692 VA	3120 VA					2	50 A	FREEZER CONDENSER	26
27	--	--	--			16692...	3120 VA			--	--	--	28
29	--	--	--					16692 VA	1248 VA	2	15 A	COOLER CONDENSER	30
31	RTU-3	225 A	3	25099 VA	1248 VA					2	15 A	UH-1	32
33	--	--	--			25099...	750 VA			2	15 A	--	34
35	--	--	--					25099 VA	750 VA	--	--	--	36
37	BUSSED SPACE	--	--	0 VA	0 VA					--	--	BUSSED SPACE	38
39	BUSSED SPACE	--	--			0 VA	0 VA			--	--	BUSSED SPACE	40
41	BUSSED SPACE	--	--					0 VA	0 VA	--	--	BUSSED SPACE	42
Total Load:				143668 VA		142992 VA		132226 VA					
Load Classification				Connected Load		Design Factor		Estimated Demand		Panel Totals			
HVAC				189720 VA		100.00%		189720 VA					
Heating				1500 VA		100.00%		1500 VA		Total Conn. Load: 418884 VA			
Kitchen Equipment				191083 VA		65.00%		124204 VA		Total Est. Demand: 349415 VA			
Lighting				9170 VA		100.00%		9170 VA		Total Conn. Current: 1163 A			
Motor				2281 VA		115.73%		2640 VA		Total Est. Demand Current: 970 A			
Other				6960 VA		100.00%		6960 VA					
Receptacle				10440 VA		97.89%		10220 VA					
Notes: REFER TO SHEET ES.1 FOR LOAD ANALYSIS.													

Panel: L2													
Location: DRY STORAGE 111				Volts: 120/208 Wye				Mains Type: MCB				A.I.C. Rating: 10,000	
Supply From: MDP				Phases: 3				Bus Rating: 100 A					
Mounting: SURFACE				Wires: 4				MCB Rating 50 A					
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EXTERIOR MENU BOARDS	20 A	1	1000 VA	720 VA					1	20 A	POINT OF SALE	2
3	POINT OF SALE	20 A	1			720 VA	720 VA			1	20 A	POINT OF SALE (DRIVE THRU 1)	4
5	POINT OF SALE (DRIVE THRU 1)	20 A	1					720 VA	360 VA	1	20 A	ORDER SCREEN	6
7	ORDER SCREENS	20 A	1	720 VA	1440 VA					1	20 A	ORDER SCREENS	8
9	MENU BOARD	20 A	1			540 VA	720 VA			1	20 A	POINT OF SALE (DINING)	10
11	POINT OF SALE (DINING)	20 A	1					720 VA	720 VA	1	20 A	POINT OF SALE (DINING)	12
13	FLAT PANEL DISPLAY	20 A	1	180 VA	720 VA					1	20 A	POINT OF SALE (DRIVE THRU 2)	14
15	POINT OF SALE (DRIVE THRU 2)	20 A	1			720 VA	180 VA			1	20 A	RCPT - CO2 DETECT SYSTEM	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	BUSSED SPACE	--	--	0 VA	0 VA					--	--	BUSSED SPACE	32
33	BUSSED SPACE	--	--			0 VA	0 VA			--	--	BUSSED SPACE	34
35	BUSSED SPACE	--	--					0 VA	0 VA	--	--	BUSSED SPACE	36
37	BUSSED SPACE	--	--	0 VA	0 VA					--	--	BUSSED SPACE	38
39	BUSSED SPACE	--	--			0 VA	0 VA			--	--	BUSSED SPACE	40
41	BUSSED SPACE	--	--					0 VA	0 VA	--	--	BUSSED SPACE	42
Total Load:				4780 VA		3600 VA		2520 VA					
Load Classification		Connected Load		Design Factor		Estimated Demand		Panel Totals					
Kitchen Equipment		2520 VA		65.00%		1638 VA		Total Conn. Load: 10900 VA Total Est. Demand: 10018 VA Total Conn. Current: 30 A Total Est. Demand Current: 28 A					
Other		1000 VA		100.00%		1000 VA							
Receptacle		7380 VA		100.00%		7380 VA							
Notes:													

Panel: L1													
Location: DRY STORAGE 111				Volts: 120/208 Wye				Mains Type: MLO				A.I.C. Rating: 10,000	
Supply From: MDP				Phases: 3				Bus Rating: 225 A					
Mounting: SURFACE				Wires: 4									
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EXIT LIGHTING	20 A	1	30 VA	95 VA					1	20 A	EXTERIOR LIGHTING	2
3	BELL AND BUZZER	20 A	1			20 VA	150 VA			1	15 A	EF-1	4
5	LIGHTING BATHROOM	20 A	1					85 VA	144 VA	1	20 A	ROOF LIGHTING	6
7	MONUMENT RECEPTACLE	20 A	1	180 VA	420 VA					1	20 A	UNDER COUNTER REFRIGERATOR	8
9	TRAINING SPACE	20 A	1			180 VA	500 VA			1	20 A	"W" SIGNAGE	10
11	LIGHTING SERVER AREA	20 A	1					204 VA	540 VA	1	20 A	GENERAL PURPOSE RECEPTACLE	12
13	OFFICE RECEPTACLES	20 A	1	540 VA	641 VA					1	20 A	EXTERIOR CANOPY LIGHTING	14
15	MENU BOARD LIGHTING	20 A	1			392 VA	644 VA			1	20 A	REACH IN REFRIGERATOR	16
17	DRIVE THRU DRINK DISPENSER	20 A	1					624 VA	692 VA	1	20 A	LIGHTING DINING	18
19	MOBILE GREASE CADDY	20 A	1	696 VA	792 VA					1	20 A	EXTERIOR SITE LIGHTING	20
21	FIRE ALARM CONTROL PANEL	20 A	1			720 VA	900 VA			1	20 A	ROOFTOP RECEPTACLES	22
23	LIGHTING KITCHEN	20 A	1					788 VA	960 VA	1	20 A	DUAL SIDED DRINK DISPENSER	24
25	DUAL SIDED DRINK DISPENSER	20 A	1	960 VA	1040 VA					1	20 A	REACH IN FREEZER	26
27	DRIVE THRU AUDIO RECEPTACLES	20 A	1			1000 VA	1983 VA			1	20 A	EXTERIOR SITE LIGHTING	28
29	DRIVE THRU WINDOW	20 A	1					1000 VA	1500 VA	1	20 A	HOT HOLD	30
31	HOT HOLD	20 A	1	1500 VA	135 VA					2	20 A	MULTIPLEX CONDENSER UNIT	32
33	TEA BREWER	20 A	1			1650 VA	135 VA			--	--		34
35	FLUSH VALVES	20 A	1					200 VA	360 VA	1	20 A	RTU-3 CONTROL PANEL	36
37	RTU-1 CONTROL PANEL	20 A	1	360 VA	500 VA					2	20 A	"WHATABURGER" MONUMENT SIGN	38
39	KEF-2	15 A	2			348 VA	500 VA			--	--		40
41	--	--	--					348 VA	915 VA	2	20 A	SUPER COOLER	42
43	KEF-1	15 A	2	718 VA	915 VA					--	--		44
45	--	--	--			718 VA	1384 VA			2	20 A	COOLER UNIT COOLER	46
47	LIGHTING RELAY PANEL	20 A	1					360 VA	1384 VA	--	--		48
49	SHAKE MACHINE	20 A	2	1352 VA	360 VA					1	20 A	EMERSON SITE SUPERVISOR	50
51	--	--	--			1352 VA	1831 VA			2	30 A	ICE MAKER CONDENSER UNIT	52
53	FREEZER UNIT COOLER	20 A	2					1384 VA	1831 VA	--	--		54
55	--	--	--	1384 VA	2550 VA					2	30 A	COFFEE BREWER	56
57	RTU-2 CONTROL PANEL	20 A	1			360 VA	2550 VA			--	--		58
59	ICE MAKER CONDENSING UNIT	30 A	2					1831 VA	500 VA	1	20 A	HEAT TRACE (CLASS 2 30mA GFCI)	60
61	--	--	--	1831 VA	500 VA					1	20 A	"WHATABURGER" SIGNAGE	62
63	IRRIGATION CONTROLLER	20 A	1			360 VA	500 VA			1	20 A	GREASE TANK	64
65	"WHATABURGER" SIGNAGE	20 A	1					500 VA	644 VA	1	20 A	REACH IN REFRIGERATOR	66
67	"W" SIGNAGE	20 A	1	500 VA	644 VA					1	20 A	REACH IN REFRIGERATOR	68
69	"W" SIGNAGE	20 A	1			500 VA	644 VA			1	20 A	REACH IN REFRIGERATOR	70
71	ICE MAKER EVAPORATOR UNIT	20 A	1					720 VA	2600 VA	3	30 A	OVEN	72
73	GENERAL PURPOSE RECEPTACLE	20 A	1	720 VA	2600 VA					--	--		74
75	ICE MAKER EVAPORATOR UNIT	20 A	1			720 VA	2600 VA			--	--		76
77	MULTIPLEX REFRIGERATION UNIT	30 A	3					3026 VA	0 VA	--	--		78
79	--	--	--	3026 VA	0 VA					--	--		80
81	--	--	--			3026 VA	0 VA			--	--		82
83	BUSSED SPACE	--	--					0 VA	0 VA	--	--		84
Total Load:				24911 VA		125512 VA		23137 VA					
Load Classification				Connected Load		Design Factor		Estimated Demand		Panel Totals			
HVAC				5534 VA		100.00%		5534 VA					
Kitchen Equipment				40171 VA		65.00%		26111 VA		Total Conn. Load: 73554 VA			
Lighting				9170 VA		100.00%		9170 VA		Total Est. Demand: 57125 VA			
Motor				2281 VA		115.73%		2640 VA		Total Conn. Current: 204 A			
Other				5600 VA		100.00%		5600 VA		Total Est. Demand Current: 159 A			
Receptacle				3060 VA		100.00%		3060 VA					
Notes:													

Panel: K1													
Location: COOKING 117				Volts: 208Y/120V				Mains Type: MLO				A.I.C. Rating: 10,000	
Supply From: MDP				Phases: 3				Bus Rating: 225 A					
				Wires: 4									
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	PICTO FRYER SE14TE	50 A	2	4129 VA	0 VA					1	20 A	SPARE	2
3	--	--	--			4129 VA	4129 VA			2	50 A	PICTO FRYER SE14TE	4
5								4129 VA		--	--		6
7	FOOD WARMER	20 A	1	1440 VA	1080 VA					1	15 A	FOIL HEATER	8
9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	10
11	FOOD WARMER	20 A	1					1080 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	6557 VA					3	70 A	PICTO FRYER SE14	14
15	SPARE	20 A	1			0 VA	6557 VA			--	--		16
17	COMPACT FREEZER	20 A	1					960 VA	6557 VA	--	--		18
19	SPARE	20 A	1	0 VA	5668 VA					3	70 A	PICTO FRYER SE184	20
21	SPARE	20 A	1			0 VA	5668 VA			--	--		22
23	SPARE	20 A	1					0 VA	5668 VA	--	--		24
25	REFRIGERATOR	20 A	1	480 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
Total Load:				19354 VA		20483 VA		18394 VA					
Load Classification			Connected Load		Design Factor		Estimated Demand		Panel Totals				
Kitchen Equipment			58232 VA		65.00%		37851 VA						
									Total Conn. Load: 58232 VA				
									Total Est. Demand: 37851 VA				
									Total Conn. Current: 162 A				
									Total Est. Demand Current: 105 A				
Notes:													
PROVIDED AND PREWIRED BY KITCHEN EQUIPMENT SUPPLIER.													

Panel: K3													
Location: COOKING 117				Volts: 208Y/120V				Mains Type: MLO				A.I.C. Rating: 10,000	
Supply From: MDP				Phases: 3				Bus Rating: 225 A					
				Wires: 4									
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	UNDERCOUNTER REFRIGERATOR	20 A	2	210 VA	1650 VA					2	20 A	BUN TOASTER	2
3	--	--	--			210 VA	1650 VA			--	--	--	4
5	72" GRIDDLE	125 A	3					12000 VA	180 VA	1	15 A	ANSUL FIRE SUPPRESSION	6
7	--	--	--	12000 VA	360 VA					1	20 A	ORDER SCREEN	8
9	--	--	--			12000...	0 VA			1	20 A	SPARE	10
11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29								0 VA		1	20 A	SPARE	30
Total Load:				14220 VA		13860 VA		12180 VA					
Load Classification			Connected Load		Design Factor		Estimated Demand		Panel Totals				
Kitchen Equipment			40080 VA		80.00%		32064 VA						
Other			180 VA		100.00%		180 VA		Total Conn. Load: 40260 VA				
									Total Est. Demand: 32244 VA				
									Total Conn. Current: 112 A				
									Total Est. Demand Current: 90 A				
Notes:													
PROVIDED AND PREWIRED BY KITCHEN EQUIPMENT SUPPLIER.													

Panel: K2													
Location: COOKING 117				Volts: 208Y/120V				Mains Type: MLO				A.I.C. Rating: 10,000	
Supply From: MDP				Phases: 3				Bus Rating: 225 A					
				Wires: 4									
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	UNDERCOUNTER REFRIGERATOR	20 A	2	210 VA	1650 VA					2	20 A	BUN TOASTER	2
3	--	--	--			210 VA	1650 VA			--	--	--	4
5	72" GRIDDLE	125 A	3					12000 VA	180 VA	1	15 A	ANSUL FIRE SUPPRESSION	6
7	--	--	--	12000 VA	360 VA					1	20 A	ORDER SCREEN	8
9	--	--	--			12000...	0 VA			1	20 A	SPARE	10
11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
Total Load:				14220 VA		13860 VA		12180 VA					
Load Classification			Connected Load		Design Factor		Estimated Demand		Panel Totals				
Kitchen Equipment			40080 VA		80.00%		32064 VA						
Other			180 VA		100.00%		180 VA		Total Conn. Load: 40260 VA				
									Total Est. Demand: 32244 VA				
									Total Conn. Current: 112 A				
									Total Est. Demand Current: 90 A				
Notes:													
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12/22/20
PROFESSIONAL OF RECORD:
JASON E. CHRISTOFF No. 20012002143
EXP. DATE: 12/31/20

REV	DESCRIPTION	DATE

Project No.: 62-40497-01

Client Project No.:

Drawing Title:

ELECTRICAL PANEL
SCHEDULES

Date: 12/22/20

Phase: PERMIT SET

Designed: DCU

Drawing No.:

Drawn: DCU

Checked: KFF

E7.2