

GENERAL NOTES:

- ALL CONDUITS ARE SHOWN DIAGRAMMATICALLY. EXACT RUNS SHALL BE DETERMINED IN FIELD EXCEPT WHERE SPECIFICALLY DIMENSIONED ON CONDUIT LAYOUTS. CONTRACTOR SHALL FOLLOW MINIMUM SPACING REQUIREMENTS TO REDUCE ELECTROMAGNETIC INTERFERENCE. COORDINATE CONDUIT ROUTING WITH ALL OTHER TRADES.
- ALL EXPOSED CONDUIT SHALL BE RUN PARALLEL TO BUILDING WALLS AND BEAMS EXCEPT WHERE OTHERWISE SHOWN. CONTRACTOR SHALL INSTALL CONDUIT IN SUCH A MANNER TO AVOID ALL INTERFERENCES.
- DEFLECTION/EXPANSION FITTINGS SHALL BE PROVIDED WHERE RIGID METAL CONDUIT CROSSES STRUCTURAL EXPANSION JOINTS.
- EXPOSED CONDUIT SHALL BE SUPPORTED ON WALLS OR CEILINGS BY APPROVED HANGERS OF ANGLE OR CHANNEL CONSTRUCTION. CONDUITS SHALL BE SUPPORTED AT LEAST EVERY EIGHT (8) FEET.
- ALL SPARE CONDUITS SHALL BE TERMINATED AS SHOWN ON CONDUIT LAYOUTS AND SHALL BE CAPPED 3" ABOVE FINISHED FLOOR.
- NO CONDUIT SHALL BE SMALLER THAN 3/4" UNLESS NOTED OTHERWISE ON PLANS.
- EXACT CONDUIT STUB-UP LOCATIONS ARE TO BE DETERMINED BY THE ELECTRICAL CONTRACTOR BASED ON CERTIFIED MANUFACTURER'S DRAWINGS OF THE RESPECTIVE EQUIPMENT. CONDUIT SHALL BE INSTALLED TO AGREE WITH EQUIPMENT FURNISHED.
- ALL LIGHTING WIRING SHALL BE #12AWG, UNLESS OTHERWISE NOTED. THE NUMBER OF WIRES SHOWN ON THE DRAWINGS IS NOT NECESSARILY THE CORRECT NUMBER REQUIRED. THE CONTRACTOR SHALL INSTALL AS MANY AS ARE NECESSARY FOR PROVIDING A COMPLETE ELECTRICAL SYSTEM IN EACH CASE.
- CONDUITS PASSING THROUGH BUILDING FLOORS OR WALLS BELOW GRADE ARE TO BE INSTALLED WITH WATERIGHT THRU WALL CONDUIT SEAL FITTINGS.
- EQUIPMENT FURNISHED BY OTHERS SHALL BE INSTALLED & ENERGIZED BY THE ELECTRICAL CONTRACTOR.
- ONLY CONDUITS HAVING OUTSIDE DIAMETERS NO LARGER THAN ONE-THIRD OF THE THICKNESS OF SLAB MAY BE INSTALLED WITHIN THE CONCRETE SLABS.
- CONDUITS IN STRUCTURAL SLABS ARE TO BE SPACED SO AS TO PROVIDE NO LESS THAN THREE CONDUIT DIAMETERS, CENTER TO CENTER, WHEREVER POSSIBLE. LARGER SPACING IS PREFERRED.
- CONTINUOUS ROWS OF CONDUITS ARE NOT TO BE PLACED IMMEDIATELY ALONG BEARING ENDS OF SLABS.
- THE ELECTRICAL CONTRACTOR SHALL NOT ENDANGER THE STABILITY OF THE STRUCTURE OR ANY PART THEREOF BY CUTTING, DRILLING OR OTHERWISE, AND SHALL NOT IN ANY WAY CUT OR ALTER THE WORK OF ANY OTHER CONTRACTOR, EXCEPT WITH THE WRITTEN CONSENT OF AND UNDER THE DIRECTION OF THE ARCHITECT AND/OR GENERAL CONTRACTOR.
- THE ELECTRICAL CONTRACTOR SHALL SECURE ALL APPROVALS AND CERTIFICATES AND PAY ALL FEES FOR ALL THE WORK INSTALLED. CERTIFICATES SHALL BE DELIVERED TO THE GENERAL CONTRACTOR BEFORE FINAL PAYMENT WILL BE MADE.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST APPLICABLE VERSION OF THE NEC AS WELL AS ALL STATE AND LOCAL CODES.
- THE DRAWINGS INDICATE AND THE SPECIFICATIONS DESCRIBE THE GENERAL ARRANGEMENTS AND LOCATION OF OUTLET BOXES, ETC. THE CONTRACTOR SHALL, WITHOUT EXTRA COST TO THE OWNER, MAKE ALL REASONABLE MODIFICATIONS IN THE WORK AS MAY BE REQUIRED TO PREVENT CONFLICT WITH EXISTING CONDITIONS, THE WORK OF OTHER TRADES AND FOR THE PROPER INSTALLATION OF THE WORK.
- ARRANGE FOR SITE VISIT WITH THE BLDG. OWNER REPRESENTATIVE AND GENERAL CONTRACTOR.
- CLAIMS FOR ADDITIONAL COMPENSATION ARISING DUE TO THE FAILURE OF THE CONTRACTOR TO FULLY UNDERSTAND THE SITE CONDITIONS SHALL NOT BE PAID FOR BY ANY OTHER PARTY.
- LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS. CONDUIT OVER 10 FEET IN WHICH WIRING IS NOT INSTALLED-FURNISH PULL STRING.
- DO NOT PULL THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32 DEG F (0 DEG C). PROVIDE CABLE SUPPORTS FOR WIRE IN RISER CONDUITS AS REQUIRED BY CODE.
- LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS. INSTALL SWITCH ON SIDE, OPPOSITE HINGE. VERIFY FINAL DOOR HINGE LOCATION IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.
- JUNCTION & PULL BOXES: DO NOT LOCATE EXPOSED IN FINISH SPACES UNLESS REQUIRED BY NEC, WHERE NECESSARY. REROUTE CONDUIT OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. PROVIDE PULL BOXES AS INDICATED AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE AND COORDINATE LOCATIONS WITH OTHER TRADES. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE. FOR EMPTY CONDUITS, INSTALL PULL BOXES EVERY 100 FEET AND AS INDICATED. COORDINATE LOCATIONS WITH OTHER TRADES.
- SUPPORT PANEL, JUNCTION & PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO CONNECTION BEARING ON CONDUIT.
- ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.
- FOR EACH LOCATION OF OTHER TRADES EQUIPMENT, SEE RESPECTIVE TRADE DRAWINGS.
- FOR RECEPTACLE & OUTLETS MOUNTING HEIGHTS AND POSITION (HORIZONTAL, VERTICAL), COORDINATE WITH ARCHITECT, OWNER, REPRESENTATIVE & DATA/ COMMUNICATION CONSULTANT.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMPONENTS INDICATED ON DETAILS SHEETS, PLANS, SPECIFICATIONS AND ALL PERTINENT EQUIPMENT REQUIRED FOR A COMPLETE WORKABLE SYSTEM.
- USE OF ISOLATED TYPE GROUNDING CONDUCTOR FOR IG TYPE RECEPTABLES, PLUG MOLDS & EQUIPMENT DOES NOT RELIEVE REQUIREMENT FOR GROUNDING CONDUIT SYSTEM. DEVICES AND EQUIPMENT AS REQUIRED BY ALL APPLICABLE CODES. PROVIDE AND INSTALL GROUNDING FITTING, EQUIPMENT GROUND WIRING ETC. AS REQUIRED.
- ALL CONDUITS, TRANSFORMERS ETC. SHALL BE SUPPORTED FROM STRUCTURAL STEEL ONLY. COORDINATE WITH GENERAL CONTRACTOR.
- ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT IN ELECTRICAL AND SERVICE SWITCHBOARD ROOM SHALL BE INSTALLED ON 4" CONCRETE PAD AS REQUIRED TO SUPPORT EACH SECTION ON EQUIPMENT. COORDINATE WITH GENERAL CONTRACTOR.
- PROVIDE BARRIERS IN ALL PULL BOXES FOR CONDUIT SETS.
- PAINT AND RUST PROOF ALL HARDWARE & CONDUITS ON ROOF AND IN EXPOSED AREAS AS DIRECTED BY GENERAL CONTRACTOR.
- NUMBER SHOWN ADJACENT TO LIGHTING FIXTURES, RECEPTABLES, OUTLETS, JUNCTION BOXES ETC. INDICATES CIRCUIT NUMBER.
- ALL GROUND CONNECTIONS TO THE BUILDING STEEL SHALL BE EXOTHERMIC WELDED.
- FLEXIBLE CONNECTIONS IN EXPOSED AREAS SHALL NOT EXCEED 18" MAXIMUM.
- ALL EQUIPMENT DEVICES, WIRING, ETC. SHOWN ON THE DRAWINGS IS NEW UNLESS OTHERWISE NOTED.
- ELECTRICAL CONTRACTOR SHALL PROVIDE SLEEVES/ OPENINGS FOR ALL CONDUIT RISERS PENETRATING WALLS, ROOF & FLOOR SLABS. ALL ROOF AND MECH. ROOMS SLAB PENETRATIONS SHALL BE WATERPROOF. METHOD OF PENETRATIONS & FIRE/WATER WATER PROOFING SHALL BE APPROVED BY ARCHITECT AND STRUCTURAL ENGINEER. COORDINATE WITH GENERAL CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL BECOME FAMILAR AND COMPLY WITH OWNERS BUILDING STANDARDS FOR CONSTRUCTION.
- ALL FINAL CONNECTIONS TO VIBRATING EQUIPMENT (MOTORS, GENERATORS ETC.) SHALL BE THROUGH A LIQUID TIGHT FLEXIBLE METAL CONDUIT.
- LOCATION OF ALL SLAB PENETRATIONS FOR SLEEVES & CONDUITS SHALL BE REVIEWED & APPROVED BY STRUCTURAL ENGINEER & ARCHITECT.
- CONTRACTOR SHALL WIRE NO MORE THAN EIGHT CONVENIENCE RECEPTABLES TO A 20A SINGLE POLE CIRCUIT. UTILIZE 2-#12M1 #12 GND IN 3/4" CONDUIT & 1-20A SINGLE POLE CIRCUIT BREAKER FOR EACH CIRCUIT. INSTALL ADDITIONAL CIRCUIT AS NECESSARY TO MEET THIS REQUIREMENT.
- ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE SEALED FIRE AND SMOKE TIGHT WITH AN APPROPRIATE U.L. LISTED FIRESTOPPING MATERIAL AND OR SYSTEM.
- THE TERMS "PROVIDE" OR "FURNISH", AS USED ON THESE PLANS, INDICATE THAT THE CONTRACTOR IS TO FURNISH AND INSTALL THE REFERENCED EQUIPMENT OR SYSTEMS IN THEIR ENTIRETY AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
- CONTRACT CLOSE OUT, IN THE PRESENCE OF THE OWNER, ENGINEER OR ARCHITECT, DEMONSTRATING OPERATION OF SYSTEMS AND THAT ALL SPECIFICATIONS HAVE BEEN MET TO THE SATISFACTION OF ALL PARTIES.
- IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO PROVIDE NEW CONSTRUCTION AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS TO PROVIDE COMPLETE NEW SYSTEMS IN EVERY RESPECT, CAPABLE OF OPERATING AS DESIGNED. IT IS NOT INTENDED THAT EVERY FITTING, MINOR DETAIL OR FEATURE BE SHOWN ON DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DETAIL NECESSARY FOR COMPLETION OF THESE SYSTEMS IN ACCORDANCE WITH GOOD PRACTICE.

ELEVATOR(S) - PHASE I EMERGENCY RECALL OPERATION:

- THE FIRE ALARM SYSTEMS, AS INDICATED ON THESE PLANS, WHICH ARE NECESSARY FOR PHASE I EMERGENCY RECALL OPERATION OF THE ELEVATOR(S), HAVE BEEN DESIGNED IN CONFORMANCE WITH ASME A17.1-2013, SAFETY CODE FOR ELEVATORS AND ESCALATORS (A17.1).
- FIRE ALARM INITIATING DEVICES REQUIRED FOR INITIATION OF PHASE I EMERGENCY RECALL OPERATION SHALL BE FURNISHED AND INSTALLED (FURNISHED) AS FOLLOWS:
 - IN THE ELEVATOR LOBBY AT EACH FLOOR SERVED BY THE ELEVATOR.
 - IN THE ASSOCIATED ELEVATOR MACHINE ROOM, CONTROL SPACE OR CONTROL ROOM.
 - IN THE ELEVATOR HOISTWAY (SPRINKLERS AND/OR AN AUTOMATIC SMOKE VENT ARE LOCATED IN THE ELEVATOR HOISTWAY).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING THE FIRE ALARM INITIATING DEVICES TO THE FIRE ALARM PANEL, PROGRAMMING, FURNISHING OUTPUTS TO THE ELEVATOR CONTROLLER AND FURNISHING ADDITIONAL RELAYS, CONTROL BOARDS, POWER SUPPLIES, BATTERIES, AND ANY OTHER ACCESSORIES THAT MAY BE REQUIRED FOR THE CORRECT EXECUTION OF PHASE I EMERGENCY RECALL OPERATION OF THE ELEVATOR(S), AS DESCRIBED IN A17.1, SUBPART 2.27.3.1 PHASE I EMERGENCY RECALL OPERATION.
- FUNCTIONS OF THE PHASE I EMERGENCY RECALL OPERATION (RECALL) SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
 - RECALL SHALL BE INITIATED UPON ACTIVATION OF A FIRE ALARM INITIATING DEVICE LOCATED IN ONE OF THE FOLLOWING:
 - (1) ONE OF THE ELEVATOR LOBBIES.
 - (2) IN THE ELEVATOR MACHINE ROOM.
 - (3) IN THE ELEVATOR HOISTWAY.
 - RECALL SHALL BE INITIATED IF THE FIRE ALARM SYSTEM GOES INTO ALARM.
 - UPON RECALL INITIATION THE ELEVATOR CAR SHALL RETURN NONSTOP TO THE DESIGNATED LEVEL OF DISCHARGE.
 - D. UPON RECALL, IF THE INITIATING DEVICE AT THE LEVEL OF DISCHARGE IS IN ALARM THE ELEVATOR CAR SHALL RETURN NONSTOP TO AN ALTERNATE DESIGNATED LEVEL OF DISCHARGE.
 - E. UPON RECALL A VISUAL SIGNAL (FIRE FIGHTER'S HAT) IN THE ELEVATOR CAR SHALL ILLUMINATE.

ELEVATOR RECALL SEQUENCE OF OPERATION:

- ELEVATOR RECALL SHALL BE INITIATED UPON ACTIVATION OF AN AREA SMOKE DETECTOR LOCATED IN ONE OF THE ELEVATOR LOBBIES OR IN THE ELEVATOR MACHINE ROOM.
- ELEVATOR RECALL SHALL ALSO BE INITIATED UPON ACTIVATION OF THE BUILDING FIRE ALARM SYSTEM.
 - UPON ACTIVATION OF THE BUILDING FIRE ALARM SYSTEM A SIGNAL SHALL BE TRANSMITTED FROM THE FIRE ALARM CONTROL PANEL TO THE ELEVATOR CONTROL PANEL TO INITIATE ELEVATOR RECALL.
- UPON INITIATION OF THE ELEVATOR RECALL SEQUENCE THE ELEVATOR CAR SHALL RETURN NONSTOP TO THE DESIGNATED LEVEL OF DISCHARGE. IF THE BUILDING SMOKE DETECTOR AT THE DESIGNATED LEVEL OF DISCHARGE IS ACTIVATED THEN THE ELEVATOR CAR SHALL BE SENT TO AN ALTERNATE LEVEL.

FIRE ALARM NOTES:

- REFER TO THE FLOOR PLANS FOR LOCATION & QUANTITY OF FIRE ALARM DEVICES.
- ALL FIRE ALARM WIRING SHALL BE IN TEFLON WIRE AND SHALL BE CONCEALED IN CEILING SPACES & WALLS.
- SYSTEM SCHEMATIC IS A DIAGRAMMATIC REPRESENTATION OF THE FIRE ALARM SYSTEM. THE SYSTEM SHALL BE INSTALLED AND TESTED AS PER THE SYSTEM MANUFACTURER'S RECOMMENDATION FOR A COMPLETE AND OPERABLE SYSTEM.
- CONTRACTOR IS RESPONSIBLE FOR ALL PLUMB AND FINAL INSPECTION AS PER THE LOCAL AUTHORITY HAVING JURISDICTION.
- CONTRACTOR TO PROVIDE AND INSTALL ALL NECESSARY MODULES, INTERFACE MODULES AND DEVICES REQUIRED TO PROVIDE AN OPERABLE ALARM SYSTEM IN COMPLIANCE WITH ALL CODES.
- FIRE ALARM PANEL SHALL PROVIDE CONTINUOUSLY SUPERVISED MONITORING OF ALL SYSTEMS FOR OPENS, SHORTS AND GROUNDS.
- ACTIVATION OF THE SMOKE DETECTORS SHALL CAUSE A GENERAL ALARM AFTER THE SMOKE DETECTOR PERFORMS VERIFICATION.
- ACTIVATION OF ANY PULL STATION OR HEAT DETECTOR SHALL IMMEDIATELY CAUSE THE ALARM PANEL TO ENTER THE ALARM MODE.
- UPON ENTERING THE PANEL ALARM MODE, THE ALARM INDICATING DEVICE SHALL BE ACTIVATED, AND THE SUPPLY FANS SHALL SHUT-DOWN AND THE DIGITAL COMMUNICATOR SHALL NOTIFY THE CENTRAL RECEIVING STATION.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY ADDITIONAL RELAY DEVICES OR POWER TRANSFORMERS FOR PROPER OPERATION OF THE FAN SHUT-DOWN UNITS AND OTHER RELATED DEVICES.
- BATTERY BACKUP SHALL PROVIDE A MINIMUM OF 24 HRS. OPERATION WITH A 15 MINUTE ALARM AT THE END OF 24 HRS.
- NEW FIRE ALARM SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NFPA CODES 70, 70E, 72, BCNYS, FCNYS, LSC101 NEW BOARD AND CARE OCCUPANCY AS WELL AS ALL LOCAL AND STATE CODE REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE ALL ADDITIONAL APPURTENANCES AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. MODEL NUMBERS GIVEN MAY NOT INCLUDE ALL SPECIFIC REQUIRED ACCESSORIES FOR COMPLETE INSTALLATION.
- PROVIDE APPURTENANCES NECESSARY SUCH THAT IF MORE THEN TWO STROBES ARE VISIBLE THEY SHALL FLASH IN SYNCH.
- PROVIDE FLOW SWITCH AND TAMPER SWITCH AT SPRINKLER RISER.
- ENTIRE FIRE DETECTION AND ALARM SYSTEM SHALL BE FURNISHED AND INSTALLED BY A N.Y. STATE LICENSED ALARM CONTRACTOR.
- FIRE ALARM PANEL SHALL BE PROVIDED WITH A REMOTE DIALER WITH (2) DIRECT CONNECTIONS TO THE LOCAL COUNTY FIRE CONTROL CENTER.
- FIRE ALARM CONTRACTOR SHALL INTERCONNECT CO DETECTORS WITH THE NEW FIRE ALARM SYSTEM FOR PRIMARY POWER AND BATTERY BACKUP. CO ALARM SHALL ANNUNCIATE AS A SUPERVISORY CONDITION.
- ALL AIR HANDLING SYSTEMS RATED 2,000 CFM OR MORE SHALL BE PROVIDED WITH FAN SHUTDOWNS CONNECTED TO THE FIRE ALARM SYSTEM.
- PROVIDE REMOTE BOOSTER POWER SUPPLIES ON EACH FLOOR AS NECESSARY FOR A COMPLETE OPERABLE SYSTEM. POWER FROM THE LOCAL POWER PANEL AND PROVIDE BATTERY BACKUP.

SWITCHBOARDS, PANEL BOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT SERVICING OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN THE QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.

LIGHTING SYMBOLS

- CEILING MOUNTED OCCUPANCY SENSOR
- EXIT LIGHT (SEE SCHEDULE)
- 1P, 20A, TOGGLE SWITCH, PROVIDE WITH MATCHING FACE PLATE, COLOR BY ARCHITECT. MOUNT 48" AFF.
- 1P, 20A, KEYS TOGGLE SWITCH, PROVIDE WITH MATCHING FACE PLATE, COLOR BY ARCHITECT. MOUNT 48" AFF.
- 1P, 20A, 3-WAY TOGGLE SWITCH, PROVIDE WITH MATCHING FACE PLATE, COLOR BY ARCHITECT. MOUNT 48" AFF.
- 1P, 20A, KEYS 3-WAY TOGGLE SWITCH, PROVIDE WITH MATCHING FACE PLATE, COLOR BY ARCHITECT. MOUNT 48" AFF.
- 1P, 20A, DIMMER SWITCH, PROVIDE WITH MATCHING FACE PLATE, COLOR BY ARCHITECT. MOUNT 48" AFF.
- 1P, 20A, TOGGLE SWITCH WITH PILOT LIGHT, PROVIDE WITH MATCHING FACE PLATE, COLOR BY ARCHITECT. MOUNT 48" AFF.
- 1P, 20A, TOGGLE SWITCH WITH BUILT-IN LIGHT, PROVIDE WITH MATCHING FACE PLATE, COLOR BY ARCHITECT. MOUNT 48" AFF.
- 1P, 20A, TOGGLE SWITCH WITH BUILT-IN OCCUPANCY SENSOR, PROVIDE WITH MATCHING FACE PLATE, COLOR BY ARCHITECT. MOUNT 48" AFF.
- SAME AS ABOVE EXCEPT WIRED FOR DUAL LIGHTING. SWITCH NEAREST TO DOOR SHALL OPERATE OUTER LAMPS. SECOND SWITCH SHALL OPERATE INNER LAMP(S).
- EMERGENCY WALL PACK FIXTURE (SEE SCHEDULE)
- EMERGENCY WALL PACK FIXTURE WITH EXIT SIGN (SEE SCHEDULE)
- REMOTE HEAD SUITABLE FOR OUTDOOR USE, COLOR BY ARCHITECT (SEE SCHEDULE)

COMMUNICATION SYMBOLS

- COMBINATION TELEPHONE/DATA OUTLET. PROVIDE & INSTALL (2) CAT. 6 CABLES FROM OUTLET LOCATION TO ABOVE CEILING EACH IN 3/4" CONDUIT. MOUNT 18" AFF UNLESS OTHERWISE NOTED.
- TV OUTLET. PROVIDE & INSTALL PULL STRING FROM OUTLET LOCATION TO ABOVE CEILING EACH IN 3/4" CONDUIT. MOUNT 18" AFF UNLESS OTHERWISE NOTED.

LEGEND AND SCHEDULE OF FIRE ALARM EQUIPMENT

SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION
F.A.P.	EDWARDS SYSTEMS TECHNOLOGY	EST-4 PROVIDE 4-CPU CENTRAL PROCESSING UNIT	FIRE ALARM PANEL WITH SUPPORT FOR 2,500 DEVICES. 250 DEVICES PER LOOP. 262-CHARACTER LCD. FOUR INTERNAL POWER SUPPLIES WITH BATTERY BACKUP. LOCAL, PROPRIETARY AND CENTRAL STATION SYSTEMS OPERATIONS. 100 CHANNELS OF DIGITAL AUDIO. PANEL IS SCALABLE.
R.A.		4-2ANN	REMOTE ANNUNCIATOR SURFACE OR FLUSH MOUNT AS NECESSARY. PROVIDE NETWORK CONTROLLER 4-NET-XX.
		SIGA-OSD PROVIDE SIGA-SB OR SIGA-SB4 BASE	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR. SMOKE SENSITIVITY LEVEL BETWEEN 0.5-4.36X. TWIN RED/GREEN STATUS LEDS. SELF CHECK AGAINST FALSE ALARMS 19.95 VDC.
		SIGA-HRD PROVIDE SIGA-SB OR SIGA-SB4 BASE	ADDRESSABLE HEAT DETECTOR: 135 F° FIXED TEMP. OR 15 F°/MIN. TWIN RED/GREEN STATUS LEDS. 19.95 VDC.
		G4AVRF	LED G1 SERIES HORN-STROBE WITH SELECTABLE 15,30,75 OR 110 c/s HORN OUTPUT AND SELECTABLE 96-92 c/s HORN OUTPUT. INDOOR USE ONLY.
		GRSW-10	PROVIDE MOUNTING PLATE FOR ALL LED G4 SERIES. (BOX OF 10). (FIRE ALARM CONTRACTOR TO VERIFY NUMBER OF BOXES NEEDED).
		SIGA-270	ADDRESSABLE MANUAL PULL STATION. BREAK-GLASS OPERATION AND STATUS LEDS. DIE-CAST METAL BODY. RED
		G4VRF	SYNCHRONIZED STROBE WITH SELECTABLE 15,30,75 OR 110 c/s OUTPUT. 16V-33VDC, RED COVER. INDOOR USE ONLY.
		SIGA-OSD DETECTOR PROVIDE SIGA-SBH SOUNDING	DUCT SMOKE DETECTOR: SUITABLE UP TO 4000FT/MIN AIR VELOCITY. (COORDINATE SIZE OF SAMPLING TUBE WITH DUCTWORK. PROVIDE RELAYS AS REQUIRED)
		BPS10A	REMOTE BOOSTER POWER SUPPLY. SELF CONTAINED 24VDS POWER SUPPLY DESIGNED TO AUGMENT FIRE ALARM AUDIBLE AND VISUAL POWER REQUIREMENTS AS WELL AS PROVIDE POWER FOR AUXILIARY AND SECURITY APPLICATIONS. LOCATE NEAR NEW FIRE ALARM PANEL. COORDINATE COORDINATE WITH EDWARDS VENDER APPROPRIATE QUANTITY REQUIRED.
		150B-AQNS	ELECTROMAGNETIC DOOR HOLDER, SYRFACE WALL MOUNTED. COORDINATE WITH ARCHITECT FOR EXTENSION PLATE.
		SIGA-WTM	PROVIDE WATER FLOW/TAMPER MODULE. CONNECT CIRCUIT 1 TO FLOW SWITCH. PROVIDED BY FIRE SPRINKLER CONTRACTOR. CONNECT CIRCUIT 2 TO TAMPER SWITCH PROVIDED BY FIRE SPRINKLER CONTRACTOR.
		SIGA-MM1	PROVIDE ADDRESSABLE MODULE AND CONNECT TO PRESSURE SWITCH PROVIDED BY FIRE SPRINKLER CONTRACTOR.

NOTES:

- PROVIDE APPURTENANCES NECESSARY SUCH THAT IF MORE THEN TWO STROBES ARE VISIBLE THEY SHALL FLASH IN SYNCH.
- STROBES MUST BE PLACED 15' FROM THE END OF ANY CORRIDOR.

LEGEND AND SCHEDULE OF AREA OF RESCUE ASSISTANCE EQUIPMENT

SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION
AREA OF RESCUE ASSISTANCE ANNUNCIATOR (ARAA)	CORNELL	SERIES 4200 A4212	4200 SERIES AREA RESCUE ASSISTANCE 12 ZONE ANNUNCIATOR PANEL. VOICE COMMUNICATION. PANEL SHALL HAVE ZONE DESIGNATION AND OPERATING DIRECTIONS. POWER SUPPLY SHALL HAVE 120V EMERGENCY BATTERY BACKUP. CORNELL MODEL #B-5243. PROVIDE WITH TAK-4200 TELEPHONE ACCESS KIT. PROVIDE PHONE LINE. PROVIDE WITH DEDICATED TELEPHONE OUTLET.
		4201/V	FLUSH WALL MOUNTED VANDAL RESISTANT PUSHBUTTON ON 2 GANG STAINLESS STEEL PLATE. HANDS FREE VOICE COMMUNICATION WITH ANNUNCIATOR. 48" MAX. MAXIMUM HEIGHT. IN ADDITION, E.C. SHALL PROVIDE & INSTALL TELEPHONE OUTLET AT 48" AFF. PROVIDE SINGLE GANG BACK BOX WITH 3/4" CONDUIT TO ABOVE CEILING WITH PULL STRINGS. KEYPAD SHALL HAVE ACCESS TO PUBLIC TELEPHONE SYSTEM TO DIAL EMERGENCY SERVICES.
		SN-B	LIGHTED AREA OF RESCUE ASSISTANCE SIGN WITH BATTERY BACKUP. 120V. PROVIDE POWER FROM LOCAL EMERGENCY LIGHTING CIRCUIT. ARROW INDICATED DIRECTION.

LIGHTING CONTROL EQUIPMENT SCHEDULE

SYMBOL	MANUFACTURER	MODEL #	DESCRIPTION
	WATTSTOPPER	DT-300	DUAL-TECHNOLOGY CEILING MOUNTED VACANCY SENSOR. PROVIDE RELAY PACK, 20 MIN. TIME DELAY SET. DUAL DETECTION WITH TRIGGERG AS EITHER.
	WATTSTOPPER	DW-100	DUAL-TECHNOLOGY DUAL RELAY WALL VACANCY SINGLE SWITCH WITH MANUAL ON & OFF. 5/10/30 MINUTE AUTO OFF WITH BOTH DUAL TECHNOLOGY TRIGGERG. COLOR BY ARCHITECT.
	WATTSTOPPER	LVSW-101	LOW VOLTAGE WALL MOUNTED TOGGLE SWITCH. COLOR BY ARCHITECT.
RC	WATTSTOPPER	BZ200	120-277V POWER PACK FOR MANUAL ON/AUTO OFF OPERATION, NOT SHOWN ON DRAWINGS. SUPPLY AS NECESSARY.

POWER SYMBOLS

- SPEC GRADE NEMA 5-20R RECEPTACLE. -GF1 INDICATES GROUND FAULT INTERRUPTION -WP INDICATES WEATHER PROOF ENCLOSURE
- SAME AS ABOVE EXCEPT SWITCHED RECEPTACLE
- SPEC GRADE NEMA 5-20R RECEPTACLE. MOUNT AT 44" AFF OR 6" ABOVE COUNTER. UON.
- GF1 INDICATES GROUND FAULT INTERRUPTION -WP INDICATES WEATHER PROOF ENCLOSURE
- 2P, 3 WIRE, 250V GROUNDING NEMA 6-30R RECEPTACLE. -GF1 INDICATES GROUND FAULT INTERRUPTION -WP INDICATES WEATHER PROOF ENCLOSURE
- 1P, 3 WIRE, 125V QUAD RECEPTACLE. -GF1 INDICATES GROUND FAULT INTERRUPTION -WP INDICATES WEATHER PROOF ENCLOSURE
- SPECIAL PURPOSE CONNECTION.
- JUNCTION BOX, SIZE PER N.E.C.
- 3P, NON-FUSED DISCONNECT SWITCH, FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. SHALL HAVE THE SAME # OF POLES AS CONNECTING CIRCUIT UNLESS OTHERWISE NOTED.
- 3P, FUSED DISCONNECT SWITCH, FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. SHALL HAVE THE SAME # OF POLES & AMPERE RATING AS CONNECTING CIRCUIT UNLESS OTHERWISE NOTED.
- MOTOR STARTER FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.
- MOTOR STARTER FURNISHED & INSTALLED WITH EQUIPMENT.
- COMBINATION NON-FUSED DISCONNECT SWITCH & MAGNETIC MOTOR STARTER WITH HAND/OFF/AUTO SWITCH. FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.
- PULL BOX
- 480Y/277V, 3ø, 4W PANEL BOARD (SEE SCHEDULE)
- 208Y/120V, 3ø, 4W PANEL BOARD (SEE SCHEDULE)
- CONDUIT HOME RUN TO DESIGNATED PANEL. REFER TO PANEL SCHEDULE FOR CONDUIT & CABLE QUANTITY AND SIZE.
- DOUBLE HOME RUN
- TRIPLE HOME RUN
- GROUND
- TRANSFORMER
- 120V, OR 208V, 1P, MOTOR STARTER WITH OVERLOADS TO SERVE AS DISCONNECTING MEANS. COORDINATE WITH OTHER TRADES.
- KEY PAD
- TRANSFORMER (SIZE SHOWN ON PLAN OR ONE-LINE DIAGRAM)
- CIRCUIT BREAKER - 100A TRIP - SINGLE POLE
- FUSE SWITCH - 100A FUSE - 3 POLE
- MOTOR

FIRE ALARM SYMBOLS

- FIRE ALARM PULL STATION
- SMOKE DETECTOR. A=AUXILIARY CONTACTS.
- STROBE ONLY ADA COMPLIANT
- FIRE ALARM HORN W/STROBE ADA COMPLIANT
- HEAT DETECTOR
- DUCT SMOKE DETECTOR. COORDINATE SIZE OF SAMPLING TUBE WITH DUCTWORK. PROVIDE RELAYS AS REQUIRED.
- CARBON MONOXIDE DETECTOR

SURVEILLANCE SYSTEM LEGEND

SYMBOL	DESCRIPTION
	SECURITY CAMERA- REFER TO SECURITY & SURVEILLANCE PLAN, BY OWNER.

NURSE CALL SYSTEM LEGEND

SYMBOL	DESCRIPTION
H-N _{SBP}	NURSE CALL AUDIBLE BEDSIDE STATION, PUSHBUTTON CORD, BY OWNER.
H-N _E	NURSE CALL EMERGENCY TOILET STATION, BY OWNER.
H-N _{EW}	NURSE CALL EMERGENCY SHOWER STATION, WATERPROOF, BY OWNER.
H-N _{EPB}	NURSE CALL AUDIBLE STATION, PULL CORD, BY OWNER.
H-O	NURSE CALL DOME LIGHT, BY OWNER.

ABBREVIATIONS

A	AMPERE	JV	JUNCTION BOX
ACT	ACOUSTIC CEILING TILE	KV	KILO VOLT
AD	AUTOMATIC DAMPER	KVA	KILO VOLT AMP
AF	AMPERE FRAME	KW	KILO WATT
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING PANEL
AIC	AMPERE INTERRUPTING CAPACITY	LTG	LIGHTING
AL	ALUMINUM	M.C.	MECHANICAL CONTRACTOR
ATS	AUTOMATIC TRANSFER SWITCH	MCM	THOUSAND CIRCULAR MILS
AUTO	AUTOMATIC	MCB	MAIN CIRCUIT BREAKER
AWG	AMERICAN WIRE GAUGE	MECH	MECHANICAL
BCW	BARRE COPPER WIRE	MDP	MAIN DISTRIBUTION PANEL
C	CONDUIT	MLO	MAIN LUGS ONLY
CAT	CATALOG	MTD	MOUNTED
CB	CIRCUIT BREAKER	MTG	MOUNTING
CKT	CIRCUIT	MTS	MANUAL TRANSFER SWITCH
CLG	CEILING	N	NEUTRAL
CT	CURRENT TRANSFORMER	NIC	NOT IN CONTRACT
COPPER	COPPER	NEC	NATIONAL ELECTRIC CODE
DP	DISTRIBUTION PANEL	NTS	NOT TO SCALE
DF	DRINKING FOUNTAIN	NM	NON-METALLIC CONDUIT
DIV	DIVISION	P	POLE
DS	DISCONNECT (LOCKOUT) SWITCH	PB	PULL BOX
DWG	DRAWING	PH	PHASE
EACH	EACH	PWR	POWER
E.C.	ELECTRICAL CONTRACTOR	RECEPT.	RECEPTACLE
ELEC.	ELECTRICAL	REQ.	REQUIRED
ELEV	ELEVATOR	RGS	RIGID GALVANIZED STEEL
E.P.O.	EMERGENCY POWER OFF	RM	ROOM
EQUIP.	EQUIPMENT	SCHD.	SCHEDULE
EMT	ELECTRICAL METALLIC TUBING	SECT.	SECTION
FA	FIRE ALARM	SPEC.	SPECIFICATION
FAP	FIRE ALARM PANEL	SPKR.	SPEAKER
FL	FLOOR	SV	SOLENOID VALVE
FLEX	FLEXIBLE	SW	SWITCH
FT	FEET OR FOOT	SWBD	SWITCH BOARD
FLUOR.	FLUORESCENT	SYS	SYSTEM
F.W.E.	FURNISHED WITH EQUIPMENT	TEL	TELEPHONE
G.	GROUND	TC	TIME CLOCK
GEN.	GENERATOR	TYP	TYPICAL
GF1	GROUND FAULT INTERRUPTER	U.N.O.	UNLESS NOTED OTHERWISE
G.C.	GENERAL CONTRACTOR	UPS	UN-INTERUPTABLE POWER SUPPLY
HH	HAND HOLE	VFC	VARIABLE FREQUENCY CONTROLLER
HP	HORSEPOWER	VIF	VERIFY IN FIELD
HS	HAND SWITCH	VSD	VARIABLE SPEED DRIVE
HVAC	HEATING, VENTILATING & AIR CONDITIONING	WP	WEATHER PROOF
HZ	HERTZ	W	WATT
IC	INTERUPTING CAPACITY	WFMR/	TRANSFORMER
IG, I	ISOLATED GROUND		
IMC	INTERMEDIATE METAL CONDUIT		

GENERAL SYMBOLS

- INDICATES SECTION LETTER
- INDICATES DRAWING NUMBER WHERE LOCATED

ELECTRICAL LINE TYPES

- NEW DEVICE
- NEW WIRING
- NEW FIXTURE

LEGEND AND SCHEDULE OF LIGHTING EQUIPMENT

SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION	LAMP
 A	PHILIPS	2STG36L8354	2x4 RECESSED LED, 3500K CCT, 80 CRI, 3600 LUMENS. 120-277V.	LED 29.2W
 B	PHILIPS	2STG30L8352	2x2 RECESSED LED, 3500K CCT, 80 CRI, 3000 LUMENS. 120-277V.	LED 26W
 C ₁	HOLOPHANE	HZL1DL483000LM	4' CEILING MOUNTED STRIP LIGHT, 3500K CCT, 80 CRI, 3,830 LUMENS. 120-277V.	LED 33W
 C ₂	HOLOPHANE	HZL1DL485000LM	4' CEILING MOUNTED STRIP LIGHT, 4000K CCT, 80 CRI, 5,497 LUMENS. 120-277V.	LED 42W
 O ₁	PHILIPS	CG15835	6" RECESSED LED DOWNLIGHT 3500K CCT, 80 CRI, 1,500 LUMENS. 120-277V.	LED 15W
 O ₂	PHILIPS	C6L20835	6" RECESSED LED DOWNLIGHT 3500K CCT, 80 CRI, 2,000 LUMENS. 120-277V.	LED 19W
 E	BROWNLEE LIGHTING	2341-15-NT	15" ROUND SURFACE MOUNTED FIXTURE 3500K CCT, 80 CRI, 2,050 LUMENS. 120-277V. NICKEL TONE FINISH.	LED 16W
 F	SHAPER	141-38-P25-L7/835	38" RECTILINEAR PENDANT LIGHT WITH ALUMINUM PAINT FINISH AND LINEN ALABASTER SHADE. 3500K CCT, 83 CRI, 5009 LUMENS. 120-277V.	LED 70W
 G	DAY-BRITE	CSW482835U	4' WALL MOUNTED LED DOWNLIGHT 3500K CCT, 80 CRI, 2,800 LUMENS. 120-277V.	LED 31W
 H	BROWNLEE LIGHTING	5178-24-BW	24" LED WALL-MOUNTED VANITY LIGHT WITH BRUSHED NICKEL FINISH. 4000K CCT, 90 CRI, 2,076 LUMENS. 120-277V.	LED 16W
 O ₁	BROWNLEE LIGHTING	2330-BN-WHL	13.75" SQUARE SURFACE-MOUNTED FIXTURE WITH BRUSHED NICKEL FINISH AND WHITE LINEN DIFFUSER. 3500K CCT, 82 CRI, 2050 LUMENS. 120-277V.	LED 16W
 O _J	WAC LIGHTING	PD-58908	"PASSION" 8" PENDANT LIGHT WITH CHROME FINISH. 3500K CCT, 90 CRI, 400 LUMENS. 120-277V.	LED 6W
 O _K	BROWNLEE LIGHTING	2601-30-NT	30" DIAMETER SUSPENDED FIXTURE WITH NICKEL TONE TRIM. 3500K CCT, 82 CRI, 4380 LUMENS. 120-277V.	LED 35W
 O _L	BROWNLEE LIGHTING	2600-30-NT	30" DIAMETER SUSPENDED FIXTURE WITH NICKEL TONE TRIM AND NATURAL LINEN DIFFUSER. FIXTURE SHALL BE SUSPENDED BY CORD AND SINGLE CABLE. 3500K CCT, 82 CRI, 2050 LUMENS. 120-277V.	LED 16W
 O _M	BROWNLEE LIGHTING	2342-20-NAL	19.25" DIAMETER TWO-TIER DRUM FIXTURE WITH NATURAL LINEN DIFFUSER. 3500K CCT, 82 CRI, 2050 LUMENS. 120-277V.	LED 16W
 O _N	BROWNLEE LIGHTING	2059-16-BL	16.25" DIAMETER DOME FIXTURE WITH BLACK FINISH. 3500K CCT, 82 CRI, 2050 LUMENS. 120-277V.	LED 16W
 O _O	WAC LIGHTING	PD-68909	"BANDIED" 9" MINI PENDANT WITH BLACK FINISH. 3500K CCT, 90 CRI, 1718 LUMENS. 120-277V.	LED 20W
 O _P	BROWNLEE LIGHTING	2161-NT	24" PENDANT LIGHT WITH NICKEL TONE FINISH. 3500K CCT, 82 CRI, 2950 LUMENS. 120-277V.	LED 23W
 O _Q	BROWNLEE LIGHTING	2058-BN	15" DIAMETER SURFACE MOUNTED FIXTURE WITH BRUSHED NICKEL FINISH. 3500K CCT, 82 CRI, 2050 LUMENS. 120-277V.	LED 16W
 O _R	WAC LIGHTING	PD-76908	"ACTION" 8" PENDANT LIGHT WITH CHROME FINISH. 3500K, 90 CRI, 674 LUMENS. 120-277V.	LED 8W
 O _S	BROWNLEE LIGHTING	2340-15-ROW	15" DIAMETER SURFACE MOUNTED FIXTURE WITH "ROLLING WAVES" DIFFUSER. 3500K CCT, 82 CRI, 2050 LUMENS. 120-277V.	LED 16W
 O _T	LITHONIA	LDN6-L06-AR-LS	6" RECESSED DOWNLIGHT APPROVED FOR WET LOCATION. 3500K CCT, 80 CRI, 2500 LUMENS. 277V	LED 28W
 O _U	WAC LIGHTING	PD-54932	"CHARMED" 3 1/2" CHANDELLIER WITH BRUSHED NICKEL FINISH. 3000K CCT, 90 CRI, 6400 LUMENS, 277V	LED 94W
 O _V	LITHONIA	TWR1 LED	DIE-CAST WALL PAK APPROVED FOR WET LOCATIONS. 4000K CCT, 2450 LUMENS, 277V	LED 28W
 O _W	LIGHTOLIER	C4L-15-A-30K-8-FL	CALCULATE LED 4" WITH ADJUSTABLE ACCENT. 3000K CCT, 80 CRI, 2500 LUMENS, 120-277V. FINISH BY ARCHITECT. FIXTURE ANGLE ADJUSTABLE TO BE FINALIZED IN COORDINATION WITH OWNER/ARCHITECT	LED

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Remarks at Montebello Assisted Living Residence

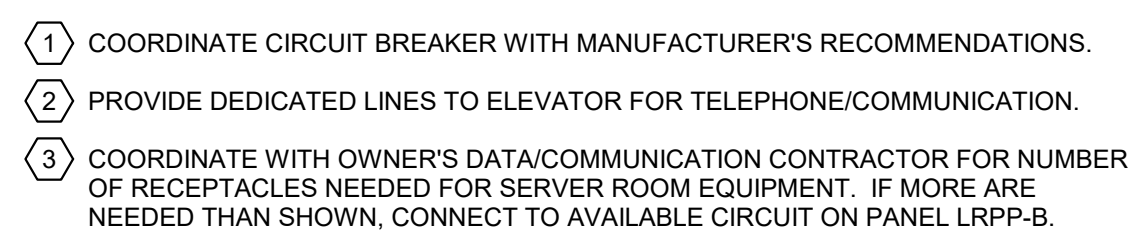
STATUS

SHEET T

DRAWING

T No.

OF



1 ELECTRICAL BASEMENT FLOOR POWER PLAN - PART A
SCALE: 1/8" = 1'-0"



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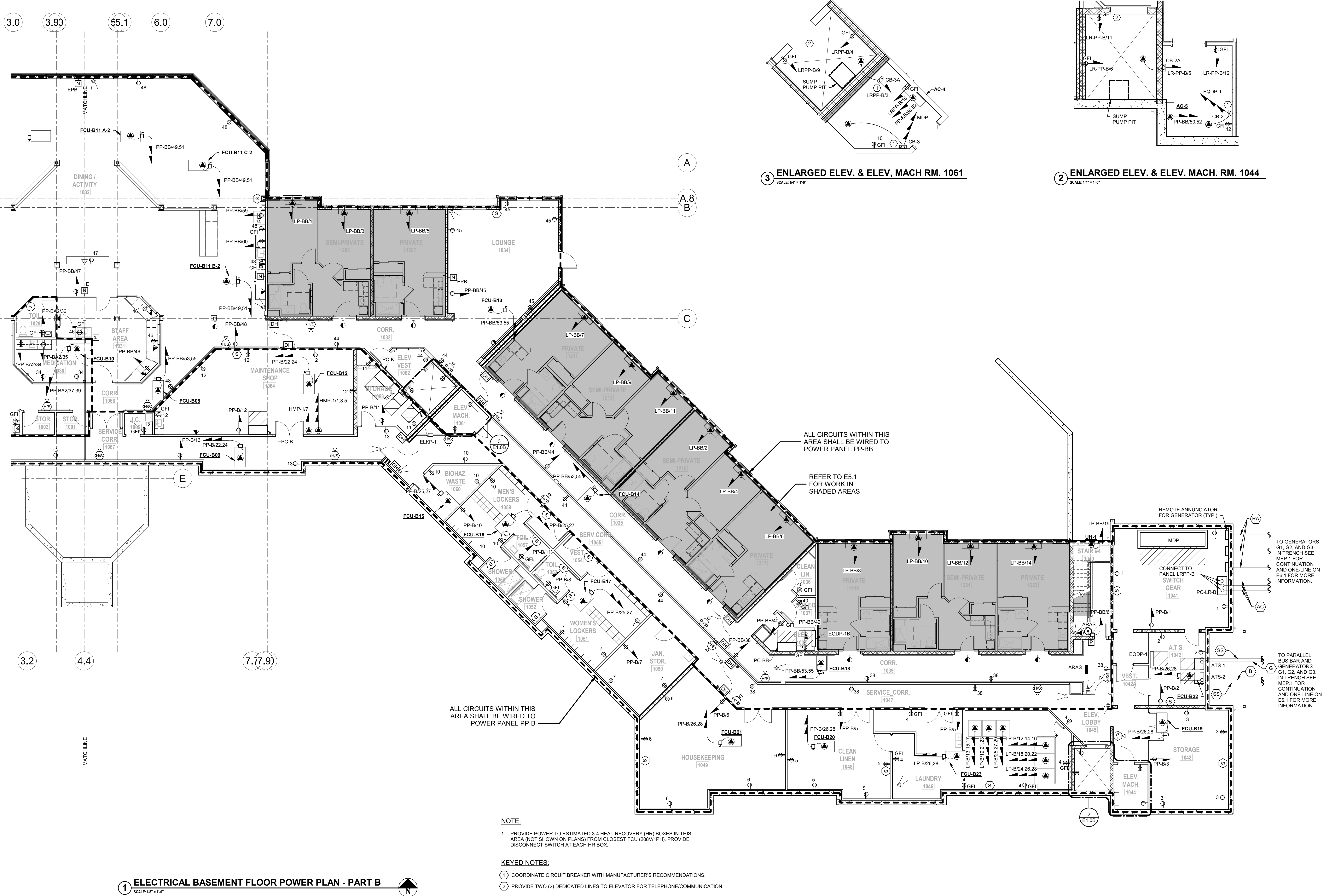
CONTRACT

STATUS	ISSUE FOR BID
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SHEET TITLE

**ELECTRICAL PARTIAL
BASEMENT FLOOR
POWER PLAN - AREA B**

DRAWING No. **E1.0B**

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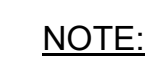
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STATUS	ISSUE FOR BID
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SHEET TITLE

**ELECTRICAL PARTIAL
FIRST FLOOR POWER
PLAN - AREA A**

DRAWING No. **E1.1A**



1. PROVIDE POWER TO ESTIMATED 3-4 HEAT RECOVERY (HR) BOXES IN THIS AREA (NOT SHOWN ON PLANS) FROM CLOSEST FCU (208V/1PH). PROVIDE DISCONNECT SWITCH AT EACH HR BOX.

KEYED NOTE:

- 1 ALL RECEPTACLES IN ROOM SHALL BE TAMPER-RESISTANT.

1 ELECTRICAL FIRST FLOOR POWER PLAN - PART A
SCALE: 1/8" = 1'-0"



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**ELECTRICAL PARTIAL
FIRST FLOOR POWER
PLAN - AREA B**

E1.1B



SCALE: 1/8" = 1'-0"

MARK	DATE	DESCRIPTION
	01/24/20	FINAL BID / PERMIT
	04/15/22	90% V.E. SUBMISSION
	06/3/22	ISSUE FOR BID

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SHEET TITLE

**ELECTRICAL PARTIAL
SECOND FLOOR POWER
PLAN - AREA A**

DRAWING No. **E1.2A**



1. PROVIDE POWER TO ESTIMATED 2-3 HEAT RECOVERY (HR) BOXES IN THIS AREA (NOT SHOWN ON PLANS) FROM CLOSEST FCU (208V/1PH). PROVIDE DISCONNECT SWITCH AT EACH HR BOX.

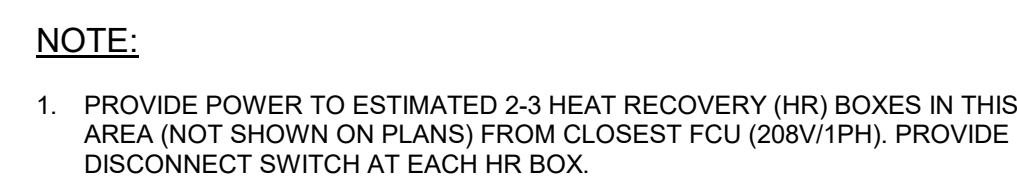
1 ELECTRICAL SECOND FLOOR POWER PLAN - PART A
SCALE: 1/8" = 1'-0"





NOTE:

1. PROVIDE POWER TO ESTIMATED 2-3 HEAT RECOVERY (HR) BOXES IN THIS AREA (NOT SHOWN ON PLANS) FROM CLOSEST FCU (208V/1PH). PROVIDE DISCONNECT SWITCH AT EACH HR BOX.



1 ELECTRICAL THIRD FLOOR POWER PLAN - PART A
SCALE: 1/8" = 1'-0"

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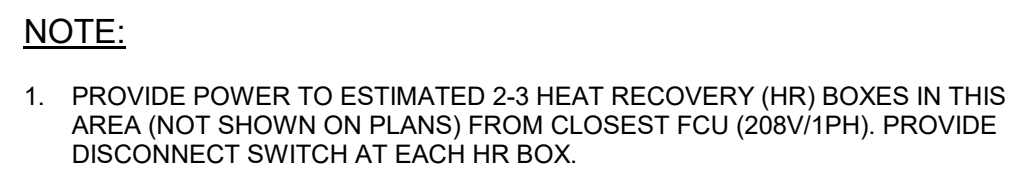
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SHEET TITLE

**ELECTRICAL PARTIAL
THIRD FLOOR POWER
PLAN - AREA B**

DRAWING No. **E1.3B**



1 ELECTRICAL THIRD FLOOR POWER PLAN - PART B
SCALE: 1/8" = 1'-0"



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	06/3/22	ISSUE FOR BID

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CONTRACT

STATUS
ISSUE FOR BID

SHEET TITLE
**ELECTRICAL PARTIAL
BASEMENT FLOOR
LIGHTING PLAN - AREA A**

DRAWING No.
E2.0A

SHEET No.
OF

1 ELECTRICAL BASEMENT FLOOR LIGHTING PLAN - AREA A
SCALE: 1/8" = 1'-0"

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**ELECTRICAL PARTIAL
BASEMENT FLOOR
LIGHTING PLAN - AREA B**

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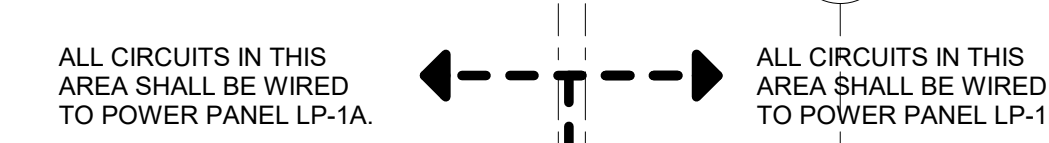
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**ELECTRICAL PARTIAL
FIRST FLOOR LIGHTING
PLAN - AREA A**

E2.1A

SHEET No. _____
OF _____



1 ELECTRICAL FIRST FLOOR LIGHTING PLAN - PART A
SCALE: 1/8" = 1'-0"



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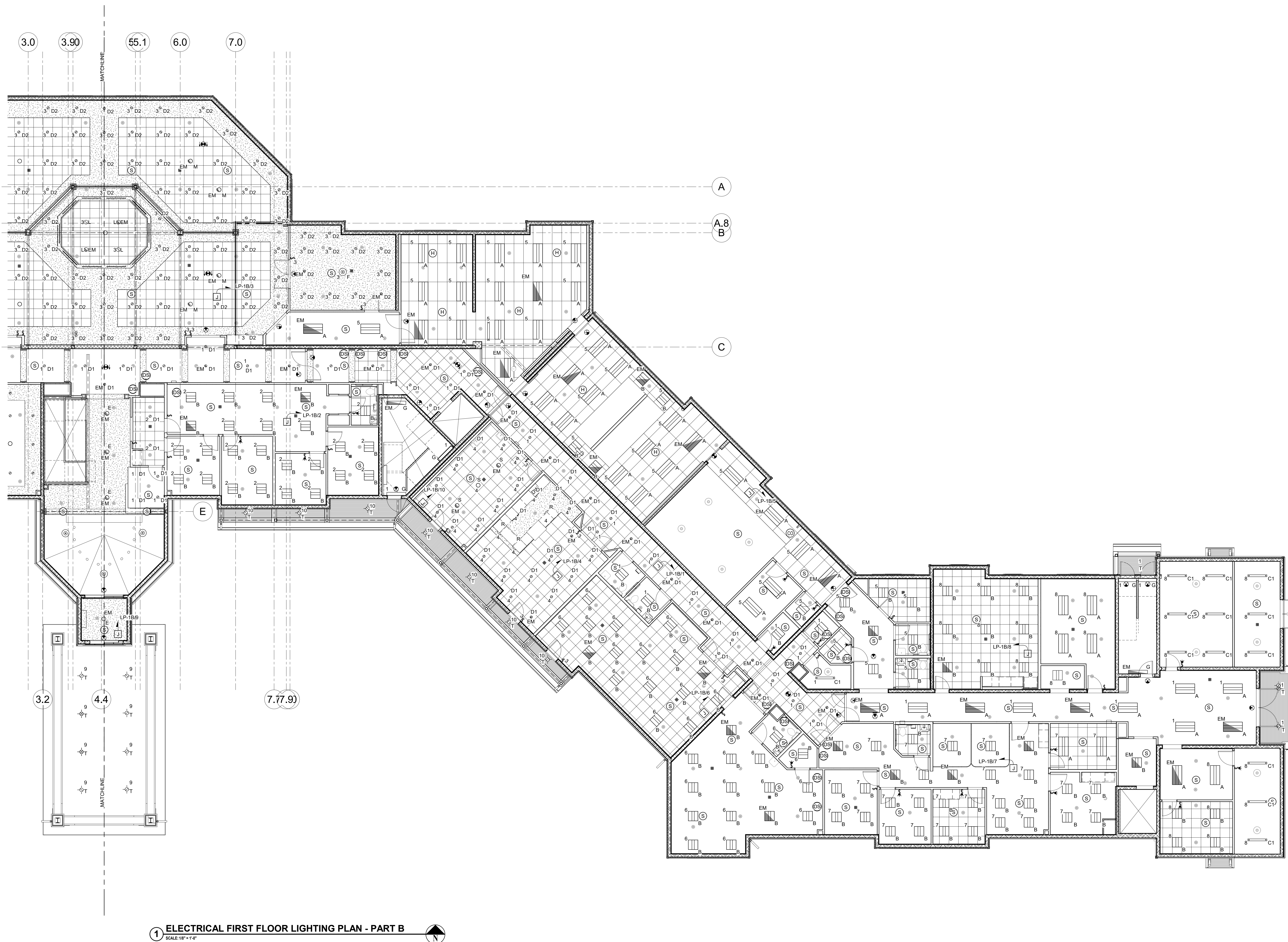
**ELECTRICAL PARTIAL
FIRST FLOOR LIGHTING
PLAN - AREA B**

DRAWING M

E2.1B

SHEET 1

25



1 ELECTRICAL FIRST FLOOR LIGHTING PLAN - PART B
SCALE: 1/8" = 1'-0"

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**ELECTRICAL PARTIAL
SECOND FLOOR LIGHTING
PLAN - AREA A**

E2.2A

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SHEET TITLE

**ELECTRICAL PARTIAL
SECOND FLOOR LIGHTING
PLAN - AREA B**

DRAWING N

E2.2B

SHEET No. /

OF



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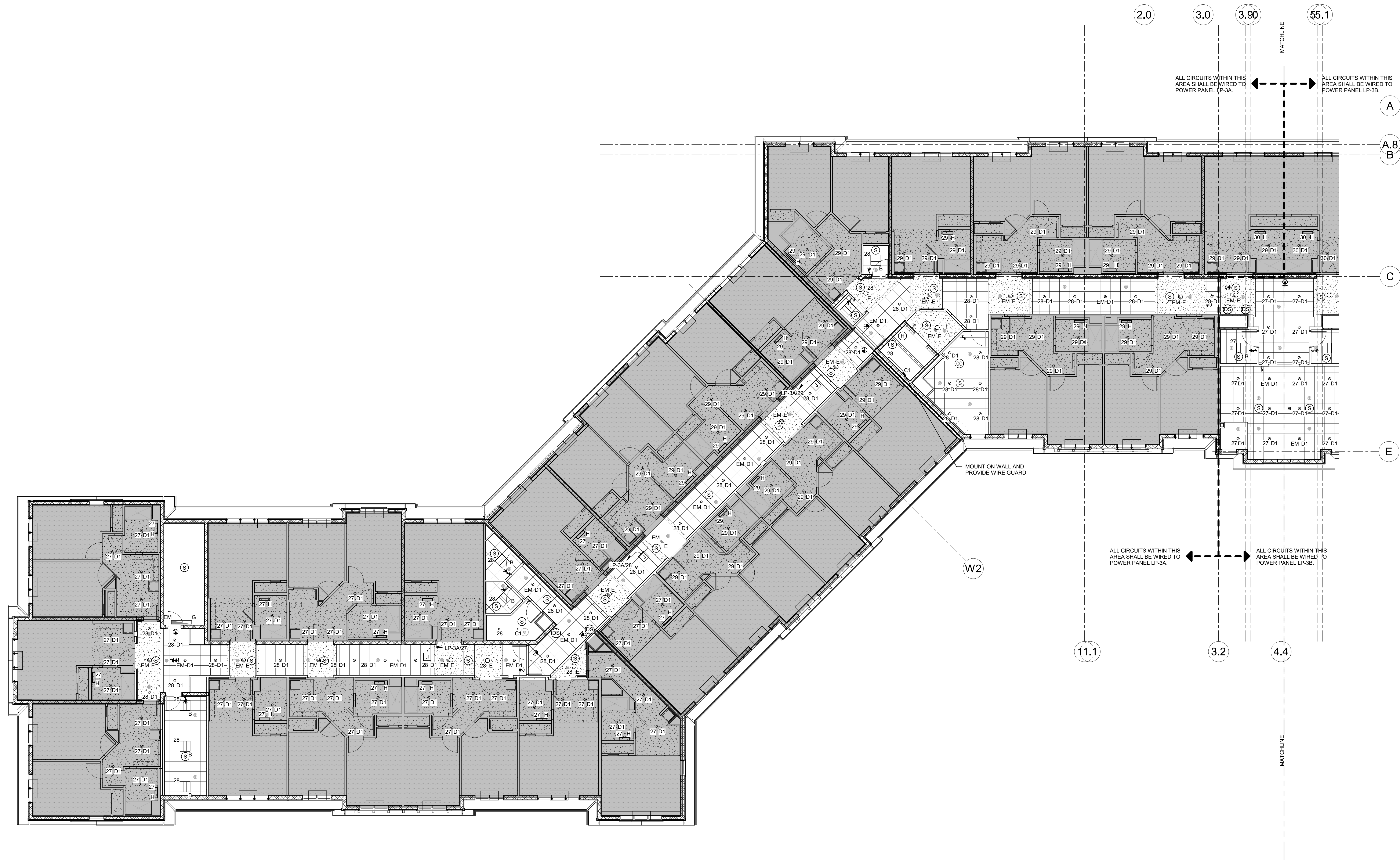
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**ELECTRICAL PARTIAL
THIRD FLOOR LIGHTING
PLAN - AREA A**

E2.3A



1 ELECTRICAL THIRD FLOOR LIGHTING PLAN - PART A
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ELECTRICAL PARTIAL THIRD FLOOR LIGHTING PLAN - AREA B

E2.3E

9



1 E.C. TO PROVIDE DUCT SMOKE DETECTORS AND CONNECT TO FIRE ALARM SYSTEM. FAN SHUTDOWN SHALL OCCUR WITH THE ACTIVATION OF DETECTORS.

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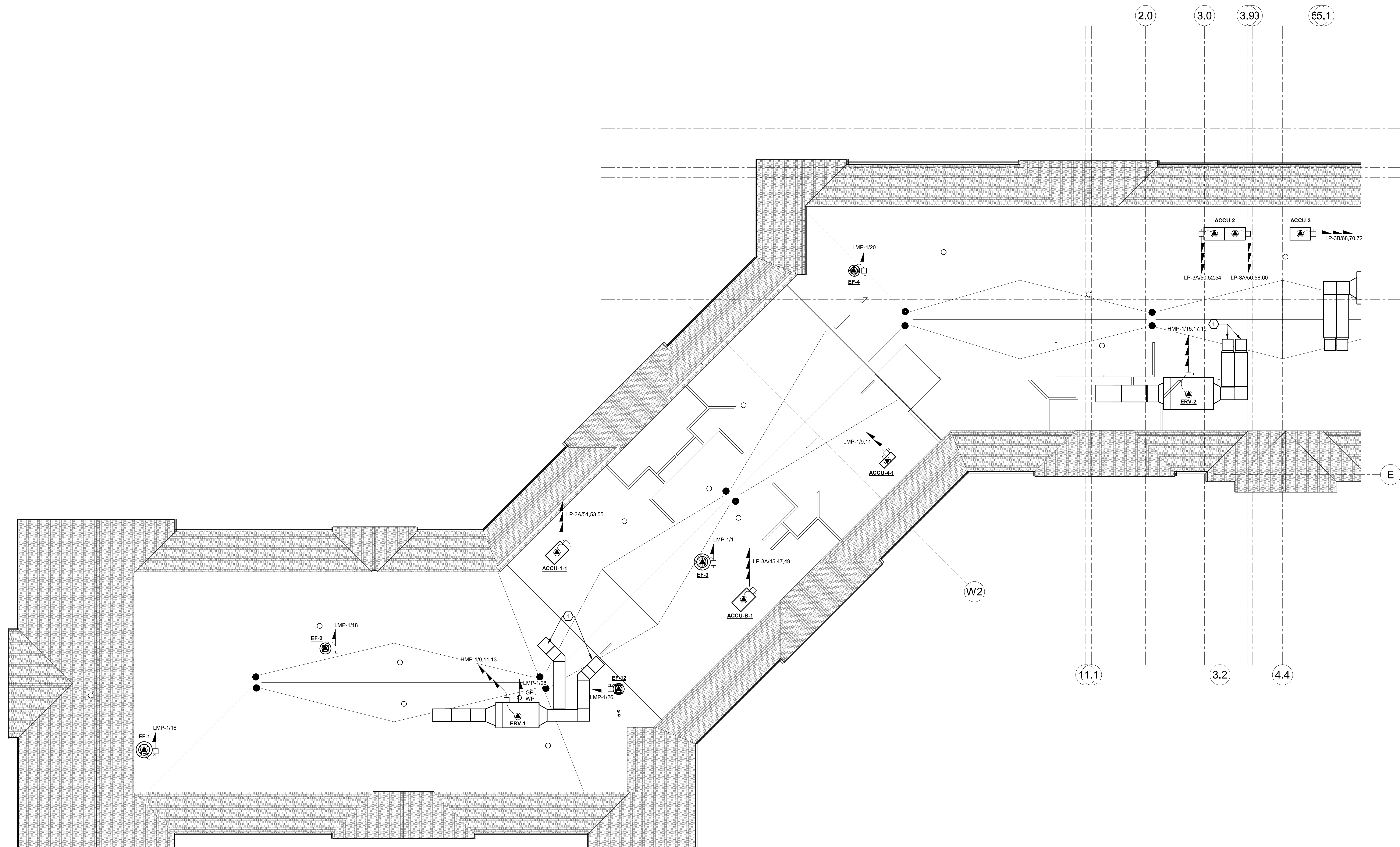
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ELECTRICAL ROOF PLAN - AREA A

E4.1A

OF



1 ELECTRICAL ROOF PLAN - PART A
SCALE: 1/8" = 1'-0"

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PROJECT No: FILB 1501		DATE: 11/15/19	SCALE: AS SHOWN

CLIENT

**Montebello Realty
GP LLC**

**Braemar at Montebello Assisted
Living Residence**

**Montebello Crossing,
250 Lafayette Avenue
(Route 59)
Village of Montebello
New York**

CONTRACT

STATUS

ISSUE FOR BID

SHEET TITLE

ENLARGED KITCHEN LAYOUT

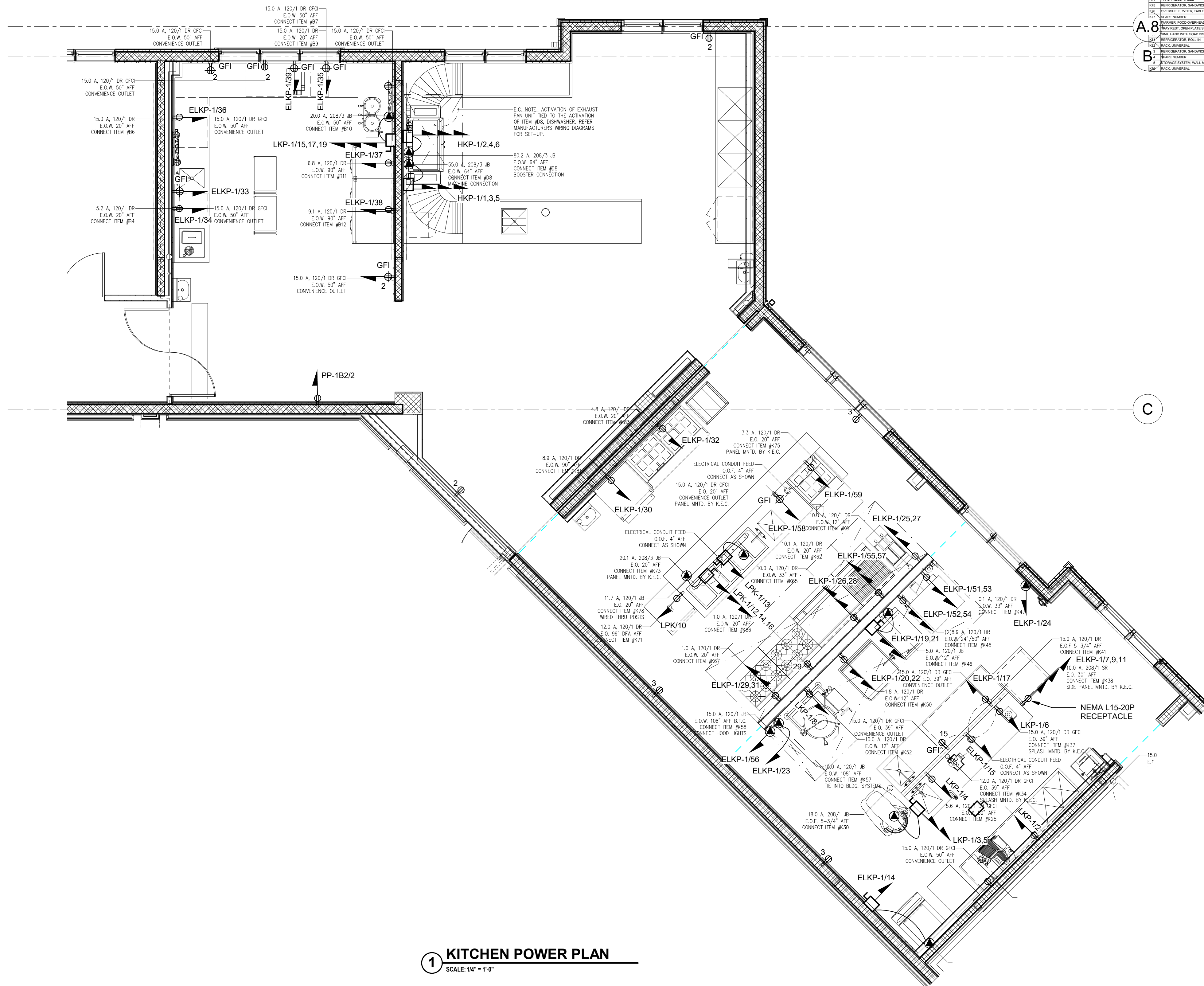
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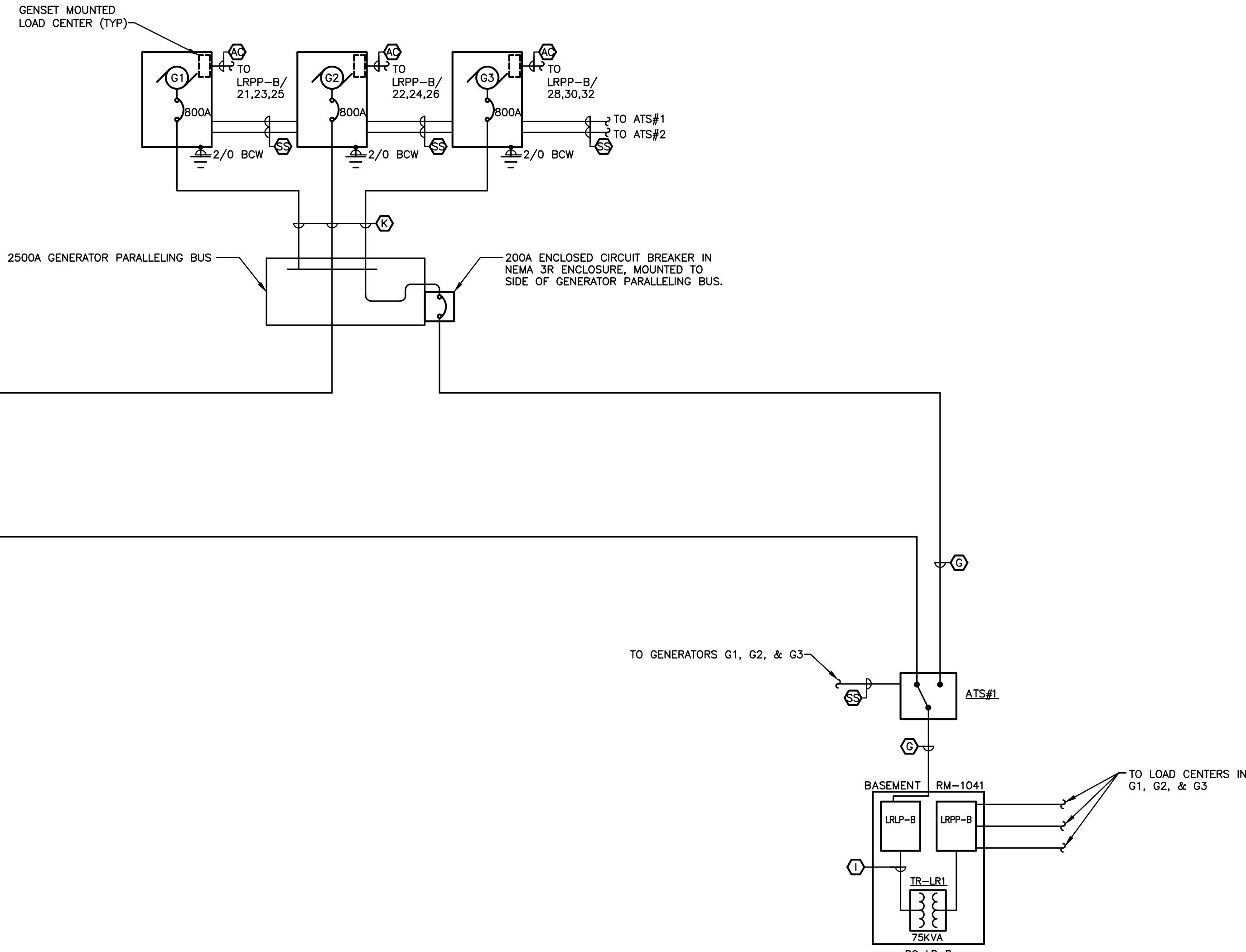
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OF _____

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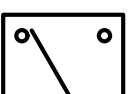
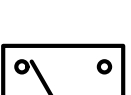
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1 KITCHEN POWER PLAN



WIRE & CONDUIT SCHEDULE		
TAG	FEEDER SIZE	WIRING & CONDUIT
(P)	---	(3) 15KV CONCENTRIC NEUTRAL PRIMARY CABLES IN 4" CONDUIT. PROVIDE CONDUCTORS & CONDUIT PER O&P STANDARDS.
(A)	3000A	8 SETS OF: (4) 500MCM CU (1) 4000MCM GND (1) 4" C
(B)	2500A	6 SETS OF: (4) 600MCM CU (1) 3500MCM GND (1) 4" C
(C)	1000A	3 SETS OF: (4) 350MCM CU (1) 2/O GND (1) 3" C
(D)	600A	2 SETS OF: (4) 350MCM CU (1) #1 GND (1) 5" C
(E)	250A	(4) 250MCM CU (1) #4 GND (1) 3" C
(F)	225A	(4) 4/O CU (1) #4 GND (1) 2 1/2" C
(G)	200A	(4) 3/O CU (1) #6 GND (1) 2" C
(H)	150A	(4) 1/O CU (1) #6 GND (1) 2" C
(I)	100A	(4) #3 CU (1) #8 GND (1) 1 1/2" C
(J)	60A	(4) #6 CU (1) #10 GND (1) 1" C
(K)	800A	2 SETS OF: (4) 500MCM CU (1) 1/O GND (1) 4" C
(S)	N/A	STAT UP SIGNALS: PROVIDE WIRING/CONDUIT PER MANUFACTURER'S INSTRUCTIONS. UNDERGROUND CONDUIT SHALL BE MINIMUM 1/2". INTERIOR CONDUIT ABOVE GROUND SHALL BE MINIMUM 3/4".
(Z)	N/A	REMOTE ANNUNCIATOR CABLING: PROVIDE WIRING/CONDUIT PER MANUFACTURER'S INSTRUCTIONS. UNDERGROUND CONDUIT SHALL BE MINIMUM 1/2". INTERIOR CONDUIT ABOVE GROUND SHALL BE MINIMUM 3/4".
(X)	800A	GENERATOR ACCESSORY POWER: (3) #6 (1) #10 GND (1) 4" C

LEGEND AND SCHEDULE OF GENERATOR & ATS EQUIPMENT			
SYMBOL	MANUFACTURER	MODEL #	DESCRIPTION
 G-1,2,3	CATERPILLAR	---	500KW, 480/277V, 3ø, 4W DIESEL GENSET PROVIDE WITH WEATHER PROOF LEVEL, 2 SOUND ATTENUATING ENCLOSURE, 24 HOUR SUB BASE FUEL TANK, 800A 100% RATED GENSET MOUNTED MAIN CIRCUIT BREAKER, GENSET MOUNTED AND FACTORY PREMIED LOAD CENTER FEEDING GENERATOR ACCESSORIES, NFPA 110 REMOTE ANNUNCIATOR AND UL508 CONTROL PANEL.
 ATS-1	ASCO	J 07 ATB A 3 0200 N C	200A, 480/277V, 3ø, 4W OPEN TRANSITION, SOLID NEUTRAL AUTOMATIC OPEN TRANSITION BYPASS TRANSFER SWITCH.
 ATS-2	ASCO	J 07 ATB A 3 2600 N C	2500A, 480/277V, 3ø, 4W OPEN TRANSITION, SOLID NEUTRAL AUTOMATIC OPEN TRANSITION BYPASS TRANSFER SWITCH.

GENERAL NOTES:

1. MAIN SWITCHBOARD AND DISTRIBUTION BOARDS SHALL HAVE AN AIC RATING OF 65 KAIC.
2. EQUIPMENT LABELED PC-XX (EX. PC-K, PC-2B) SHALL BE SQUARE 'D' INTEGRATED POWER CENTER 2. E.C. TO COORDINATE TYPE AND NUMBER OF SECTIONS WITH NUMBER AND SIZES OF POWER PANELS, SIZE OF TRANSFORMER AND PHYSICAL SPACE IN ELECTRICAL ROOMS.

* INDICATES SERVICE ENTRANCE CONDUCTORS, EQUIPMENT
GROUNDING CONDUCTOR CAN BE OMITTED.

KEYED NOTES:

① PROVIDE BREAKER WITH SHUNT TRIP ASSEMBLY TIED TO FIRE PROTECTION SYSTEM. COORDINATE WITH ELEVATOR EQUIPMENT MANUFACTURER.



architects
+
engineers

538 Broad Hollow Road, 4th Floor East
Melville, NY 11747
631.756.8000 • www.h2m.com

CONSULTANTS:

FELLENZER 
ENGINEERING LLP

**22 Mulberry St., Suite 2A,
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t 845-343-1481 fx 855-320-8735

www.fellp.com
Project #: 15-345

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Village of Montebello
New York**

CONTRACT

STATUS	ISSUE FOR BID

ELECTRICAL: ONE-LINE DIAGRAMS & RISERS

DRAWING No. **E6.1**

FELLENZER 
ENGINEERING LLP

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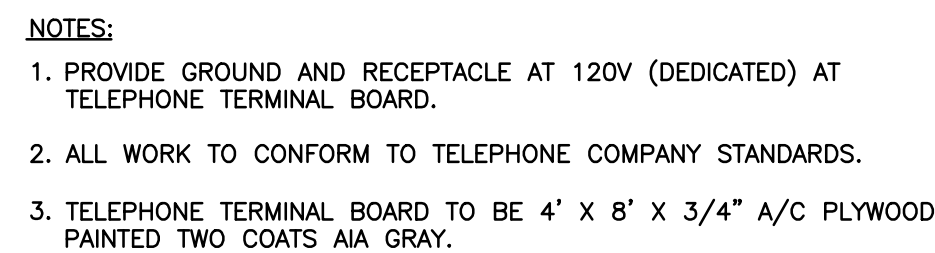
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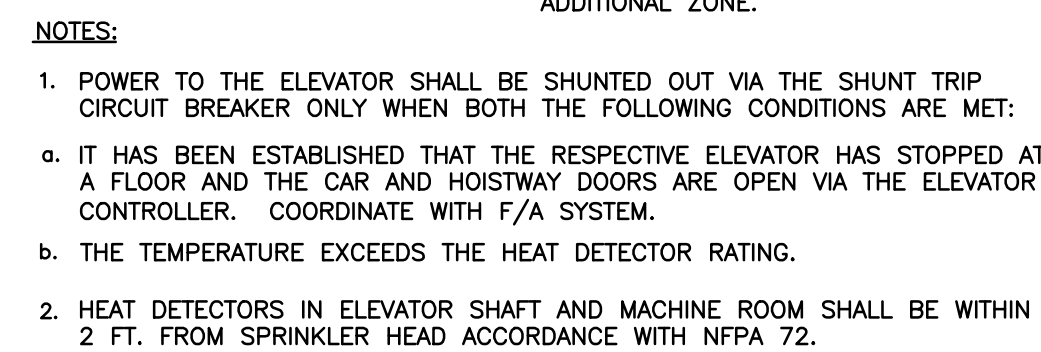
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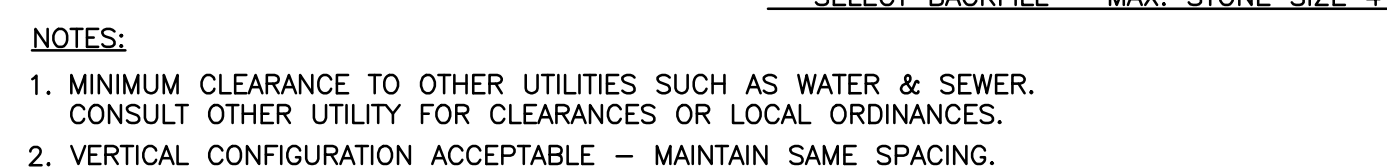


5 TELEPHONE RISER DIAGRAM
N.T.S.



UPON ACTIVATION OF HEAT DETECTOR OR TEST KEY THE ELEVATOR CONTROLLER SHALL DIRECT THE ELEVATOR TO THE NEAREST FLOOR IN THE DIRECTION OF THE EXISTING ELEVATOR MOTION AND OPEN DOORS AT THE NEAREST FLOOR AND STOP. THE ELEVATOR SHALL THEN STOP AND THE SHUNT TRIP BREAKER SHALL OPEN (SIGNALLED BY THE ELEVATOR CONTROLLER) AND DISCONNECT POWER TO THE ELEVATOR.

9 ELEVATOR SPRINKLER CONTROL SCHEMATIC
N.T.S.



10 TYPICAL COMMON TRENCH CONFIGURATION
N.T.S.



Technical drawing of a secondary conduit assembly, showing a top view and a side view.

Top View Labels:

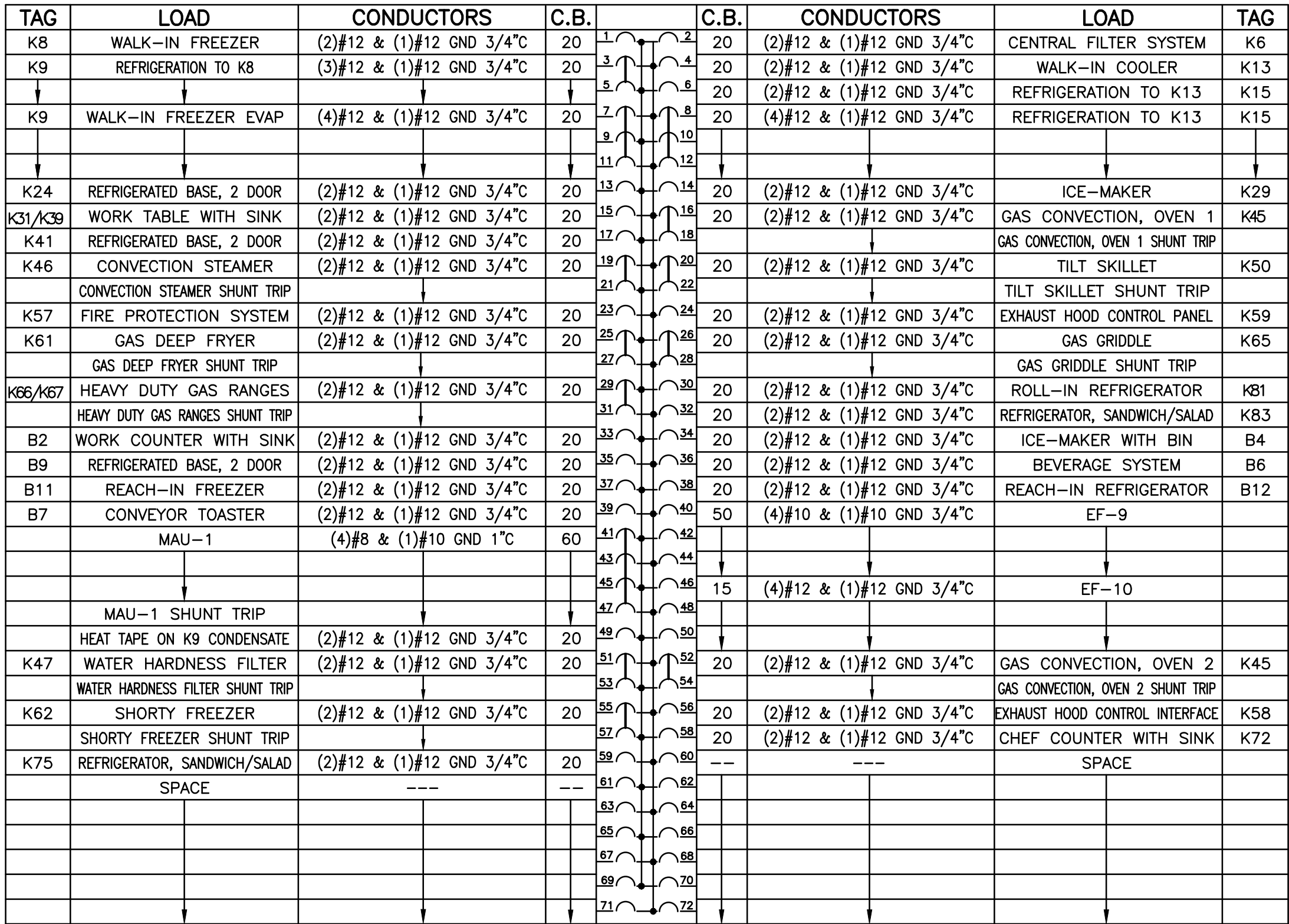
- 3/4" X 10'-0" COPPERWELD GROUND ROD (TYP.), CADWELD ALL GROUNDING CONNECTIONS.
- PRIMARY CONDUIT AREA
- A
- B
- D
- E
- H
- I
- F
- G
- #3/0 BARE COPPER GROUND CABLE
- WIRE MESH
- SECONDARY CONDUIT AREA

Side View Labels:

- C
- 6"
- WIRE MESH

- 1 THREE PHASE TRANSFORMER PAD DETAIL**
N.T.S.

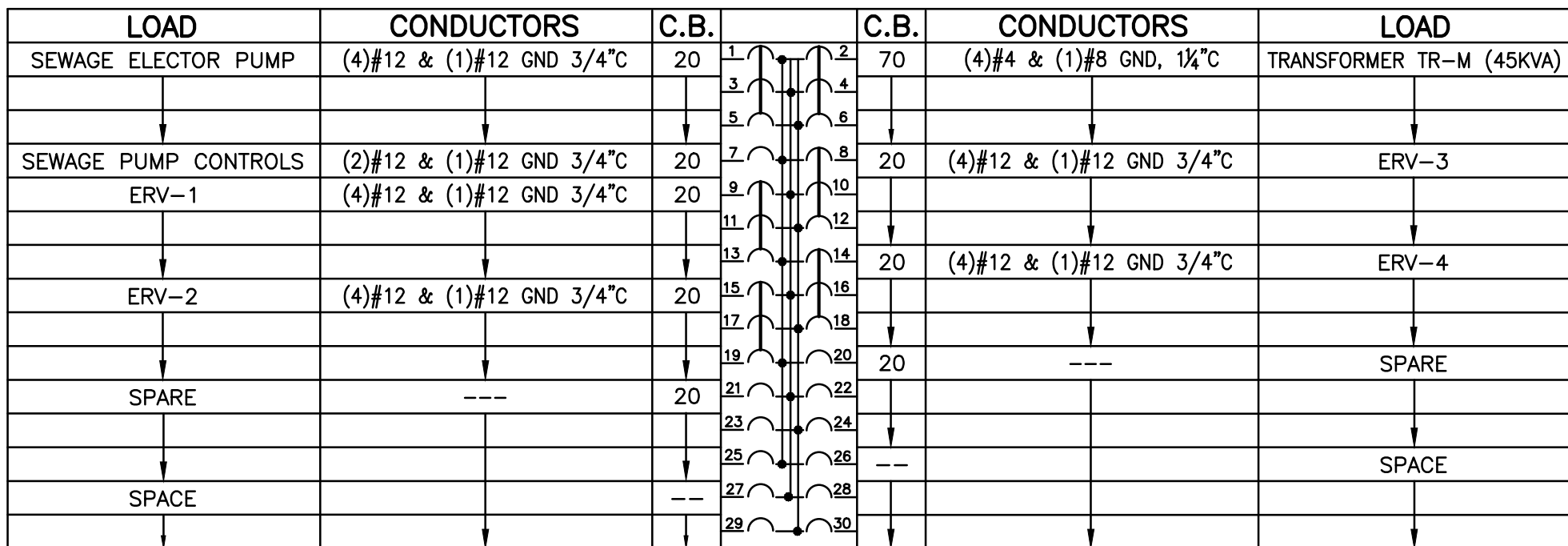




POWER PANEL - (ELKP-1)

TYPE: SQUARE 'D' NQ
RATING: 208/120V 3ø, 4W
MAINS: 250A MCB
BRANCHES: 10,000 AIC
BRACING: 10,000 AIC
ENCLOSURE: NEMA 1
POLES: 72

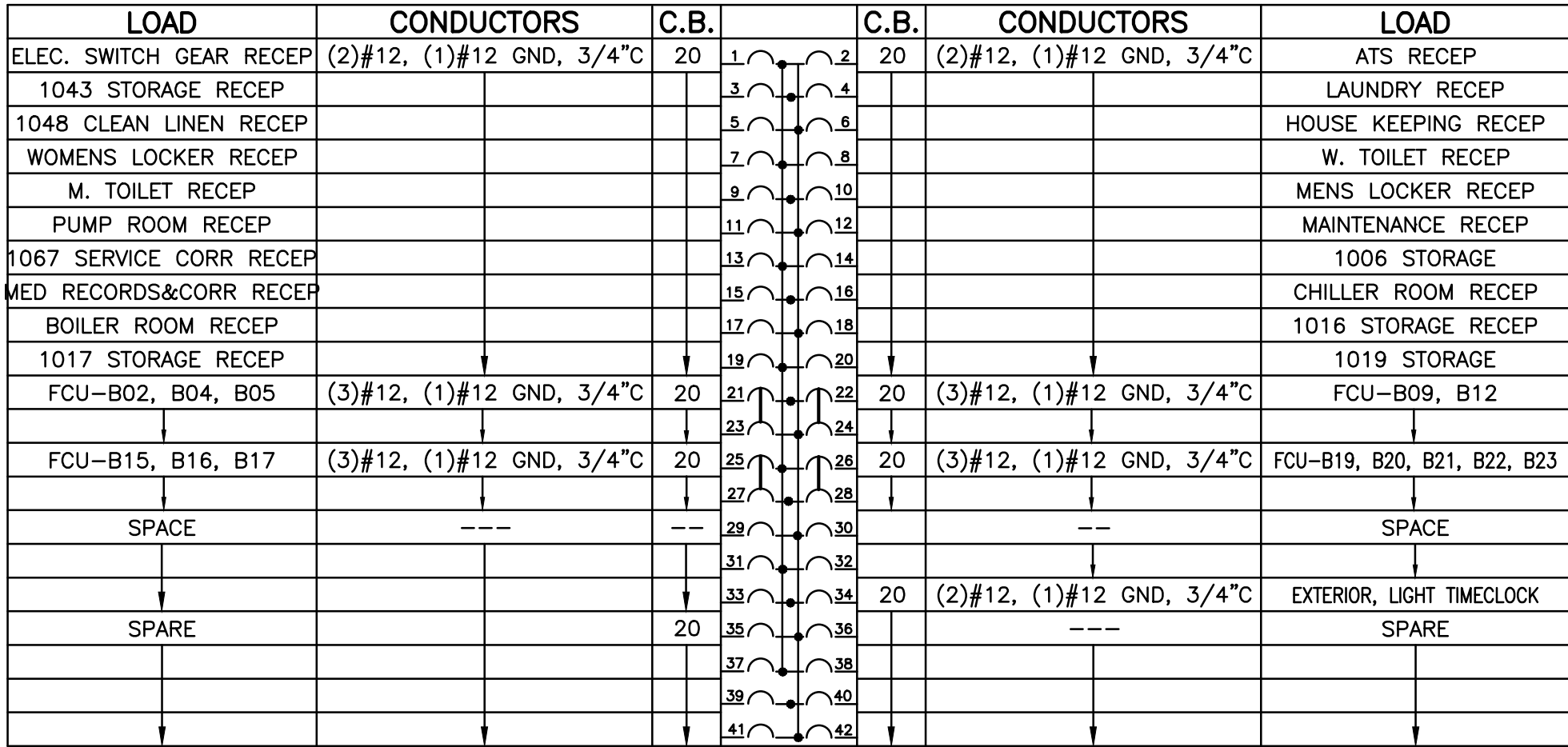
NOTES:
1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.
* PROVIDE SHUNT TRIP CIRCUIT BREAKER TO BE INTEGRATED WITH KITCHEN FIRE PROTECTION SYSTEM AND BUILDING FIRE ALARM SYSTEM.



POWER PANEL - (HMP-1)

TYPE: SQUARE 'D' NQ
RATING: 208/120V 3ø, 4W
MAINS: 200A MCB
BRANCHES: 22 KAIC
BRACING: NEMA 1
ENCLOSURE: NEMA 1
POLES: 30

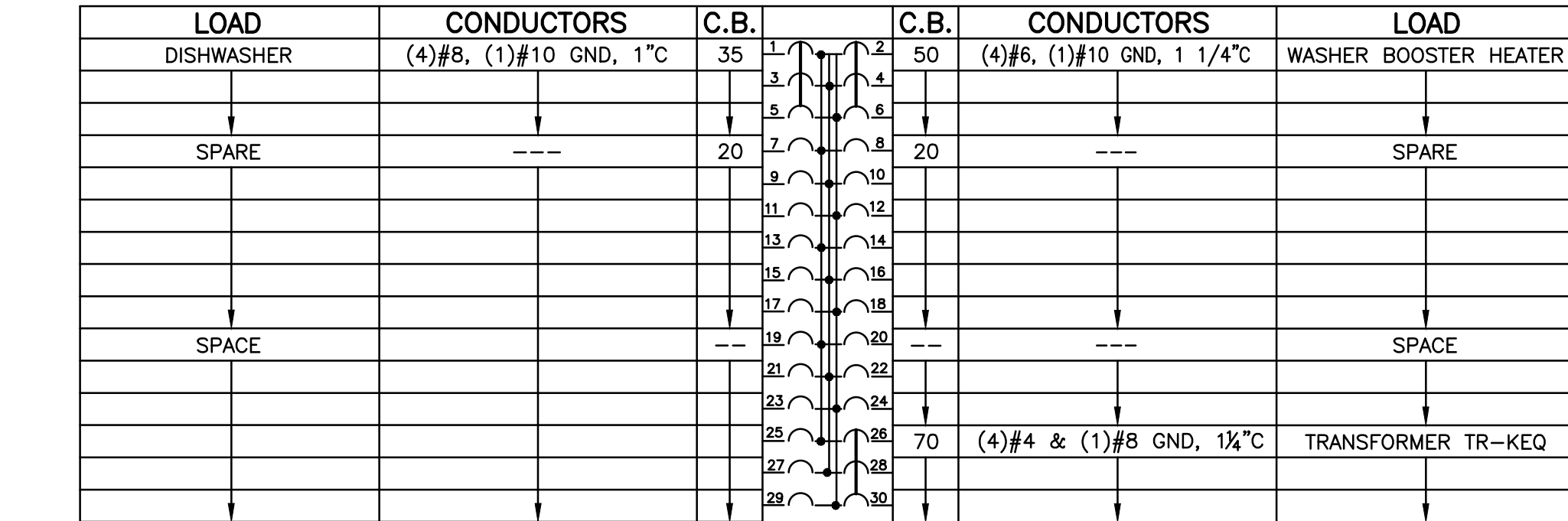
NOTES:
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POWER PANEL - (PP-B)

TYPE: SQUARE 'D' NQ
RATING: 208/120V 3ø, 4W
MAINS: 150A MCB
BRANCHES: 22 KAIC
BRACING: NEMA 1
ENCLOSURE: NEMA 1
POLES: 42

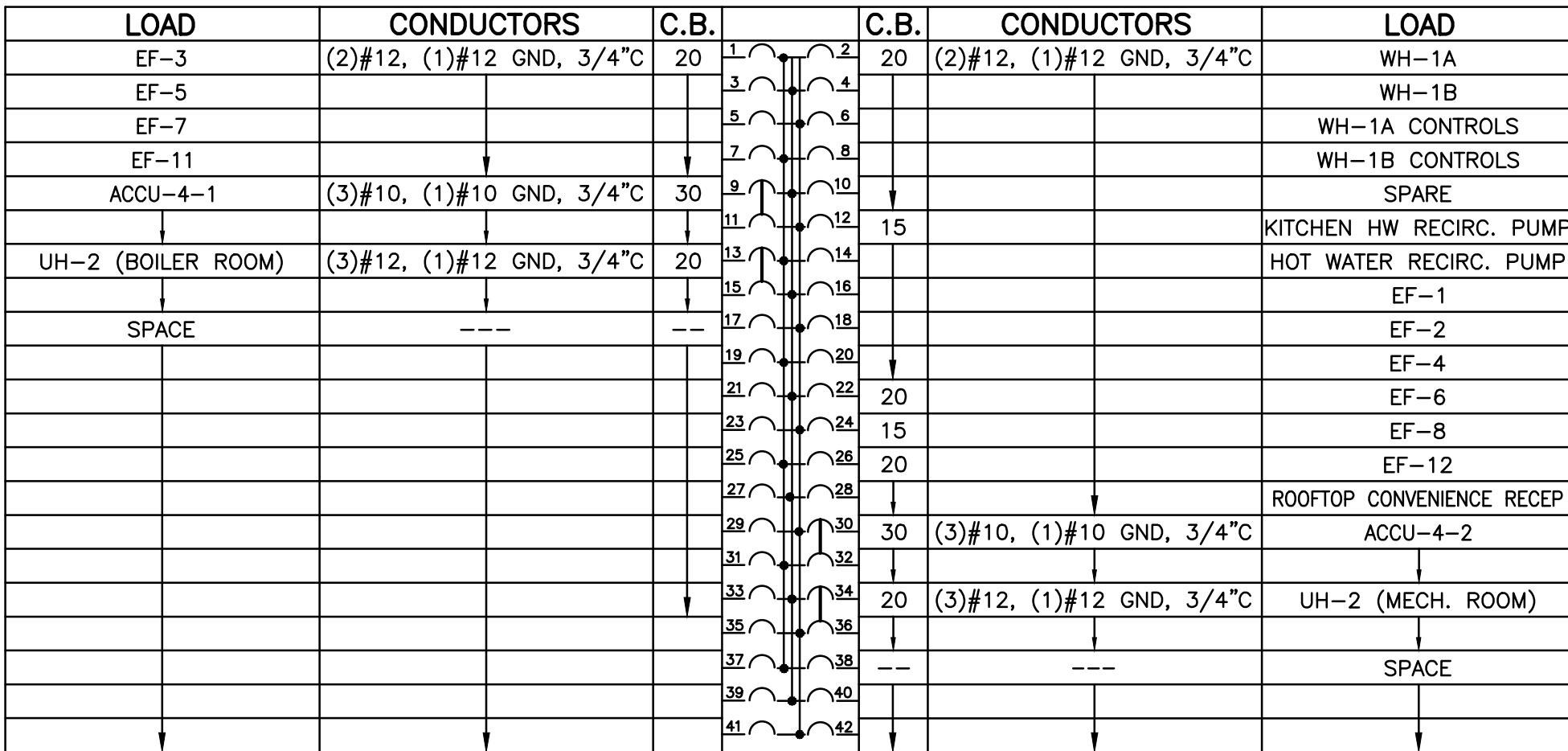
NOTES:
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POWER PANEL - (HKP-1)

TYPE: SQUARE 'D' NF
RATING: 480/277V 3ø, 4W
MAINS: 200A MCB
BRANCHES: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 30

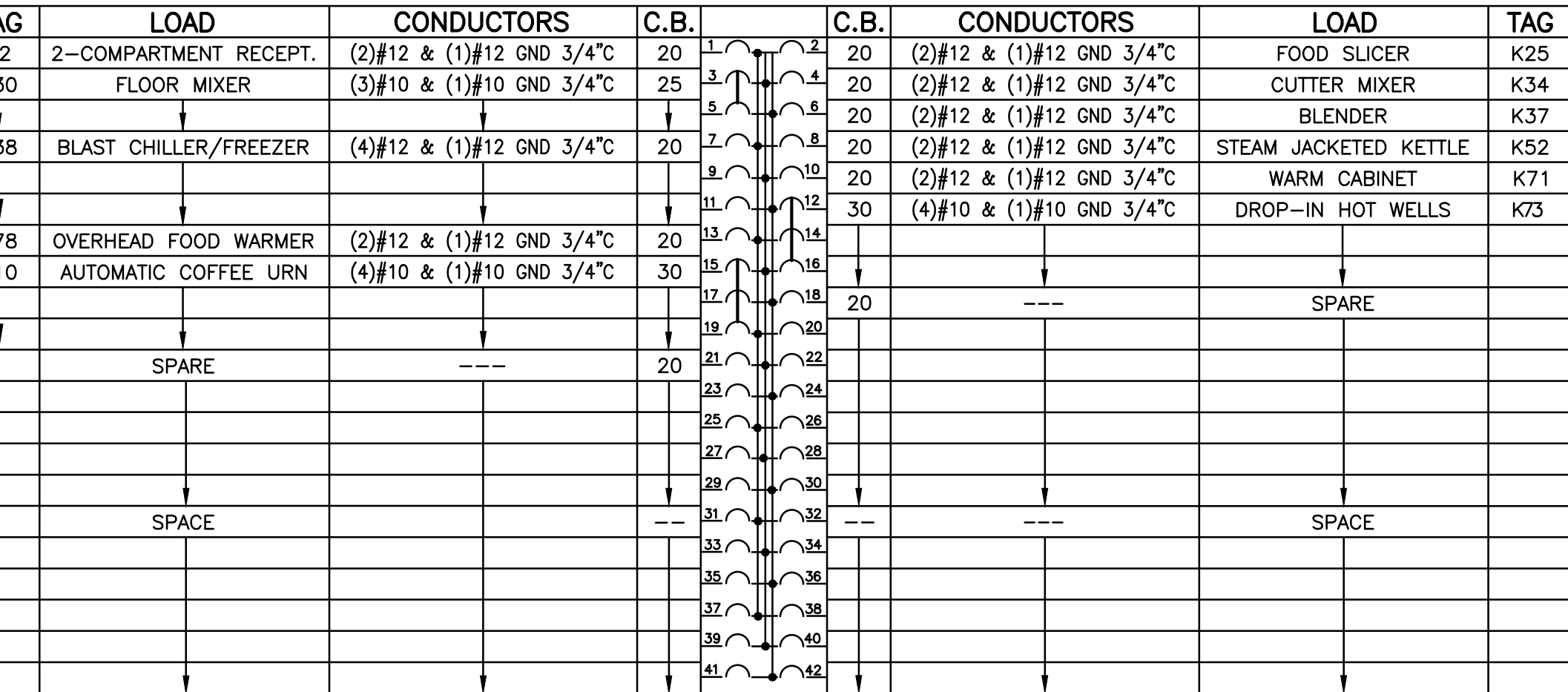
NOTES:
1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.



POWER PANEL - (LMP-1)

TYPE: SQUARE 'D' NQ
RATING: 208/120V 3ø, 4W
MAINS: 100A MCB
BRANCHES: 10 KAIC
ENCLOSURE: NEMA 1
POLES: 42

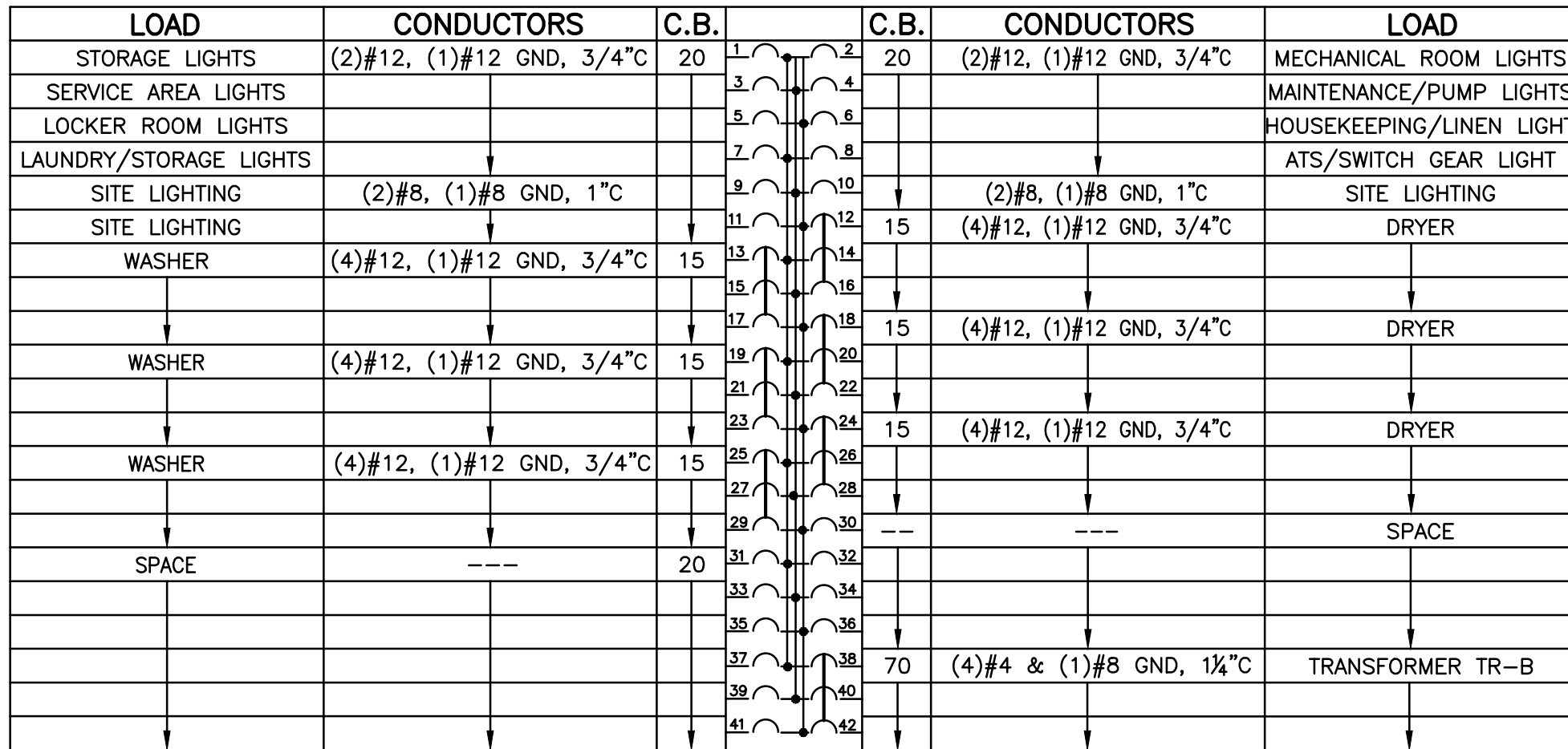
NOTES:
1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.



POWER PANEL - (LKP-1)

TYPE: SQUARE 'D' NQ
RATING: 208/120V 3ø, 4W
MAINS: 200A MCB
BRANCHES: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 42

NOTES:
1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.
* PROVIDE SHUNT TRIP CIRCUIT BREAKER TO BE INTEGRATED WITH KITCHEN FIRE PROTECTION SYSTEM AND BUILDING FIRE ALARM SYSTEM.



[illegible]

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NOTES:

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SHEET No. _____

TYPE: SQUARE 'D' NQ
RATING: 208/120V, 3Ø, 4W
MAINS: 150A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 72

NOTES:

1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
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TYPE: SQUARE 'D' NQ
RATING: 208/120V, 3Ø, 4W
MAINS: 100A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 42

NOTES:

1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.

TYPE: SQUARE 'D' NQ
RATING: 208/120V, 3Ø, 4W
MAINS: 100A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 42

NOTES:

1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
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TYPE: SQUARE 'D' NF
RATING: 480/277V, 3Ø, 4
MAINS: 200A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 42

NOTES:

1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
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TYPE: SQUARE 'D' NQ
RATING: 208/120V, 3Ø, 4W
MAINS: 100A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 42

NOTES:

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TYPE: SQUARE 'D' NF
RATING: 480/277V, 3Ø,
MAINS: 150A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 42

NOTES:

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2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.

POWER PANEL - (LP-2A)		NOTES:
TYPE:	SQUARE 'D' NF	1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
RATING:	480/277V, 3Ø, 4W	2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.
MAINS:	200A MCB	
BRACING:	22 KAIC	
ENCLOSURE:	NEMA 1	
POLES:	54	

NOTES:

1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
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<u>POWER PANEL - (LP-2B)</u>		<u>NOTES:</u>
TYPE:	480V "D" NF	1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
RATING:	425/277V, 3Ø, 4W	2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.
MAINS:	200A MCB	
BRACING:	22 KAIC	
ENCLOSURE:	NEMA 1	
POLES:	54	

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