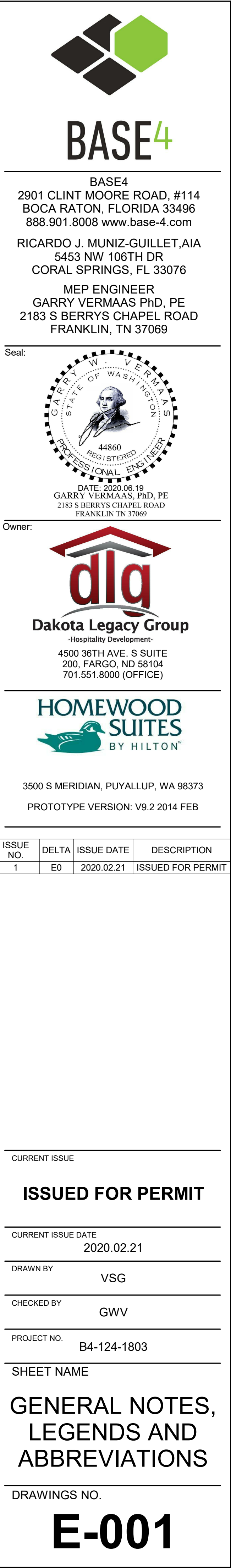


GENERAL NOTES	
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE FOLLOWING CODES/STANDARDS: INTERNATIONAL BUILDING CODE, NATIONAL FIRE PROTECTION ASSOCIATION, INTERNATIONAL ENERGY CONSERVATION CODE, AND ALL LOCAL CODE ORDINANCES, REGULATIONS, NATIONAL ELECTRICAL CODE (NEC)-2017 AND THE AUTHORITY HAVING JURISDICTION. 2. ALL ELECTRICAL WORK PROVIDED FOR THIS PROJECT SHALL COMPLY WITH THE FOLLOWING CRITERIA: A) TRADE SIZE CONDUIT SMALLER THAN 1/2 INCH SHALL NOT BE USED. B) CONDUIT ABOVE GRADE AND NOT EXPOSED TO WEATHER SHALL BE PVC, ENT & MC. C) CONDUIT BELOW GRADE AND PENETRATIONS AT GRADE SHALL BE SCHEDULE 40 PVC EXCEPT TURNS. D) CONDUIT ABOVE GRADE AND EXPOSED TO WEATHER SHALL BE SCHEDULE 80 PVC. E) WIRE SIZE SMALLER THAN #12 AWG. SHALL NOT BE USED FOR POWER CKT. #18 AWG. SHALL BE USED FOR LOW VOLTAGE CKT. F) BRANCH CIRCUIT WIRING PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL BE COPPER; FEEDER & SERVICE WIRING SHALL BE ALUMINUM. G) CONDUCTORS AMPACITY OF NONMETALLIC SHEATHED CABLE IS LIMITED TO THE 60 DEGREE. CONTRACTOR SHALL REFER NEC TABLE 310.15(B)(16). ALL OTHER CONDUCTORS SHALL HAVE A MINIMUM TEMPERATURE RATING OF 75 DEGREES C. (TYPE THWN OR TYPE THHN). 98% COPPER OR ALUMINUM. H) WHERE POSSIBLE, EXCEPT AS SHOWN OTHERWISE ON THE DRAWINGS, ALL CONDUIT SHALL BE RUN CONCEALED BELOW GRADE, WITHIN WALLS OR ABOVE CEILING. I) CONDUCTORS #12 AWG AND SMALLER SHALL BE SOLID. CONDUCTOR 10# AWG AND LARGER SHALL BE STRANDED. CONDUCTOR #12 AWG MAY BE SOLID OR STRANDED, EXCEPT THAT ONLY #12 AWG SOLID OR ONLY #12 AWG STRANDED SHALL BE USED. J) THERE SHALL BE NO MORE THAN 270 DEGREES TOTAL TURN OR 150 FEET BETWEEN PULL POINTS IN CONDUIT RUNS. K) ALL ELECTRICAL RECEPTACLES IN THE BATHROOM, OUTSIDE AREAS AND AIR CONDITIONING / HEATING / REFRIGERATION AREAS SHALL BE GFCI PROTECTED. L) MOUNTING HEIGHT OF WALL MOUNTED CONTROLS AND RECEPTACLES SHALL FOLLOW THE GIVEN DIAGRAM BELOW, UNLESS COMPARABLE CONTROLS OR OUTLETS (THAT PERFORM THE SAME FUNCTIONS) ARE PROVIDED WITHIN THE SAME AREA AND ARE ACCESSIBLE. 3. CONTRACTOR SHALL: A) OBTAIN AND PAY ALL INSURANCE, FEES, PERMITS, ASSOCIATION DUES, ROYALTIES, AND TAXES OF WHATEVER NATURE WHICH SHALL APPLY TO THE WORK. B) PAY ALL INSPECTION FEES AS REQUIRED BY LAW OR ORDINANCE. C) HOLD THE OWNER HARMLESS FROM ANY DAMAGE AND EXPENSE ARISING FROM ANY VIOLATION OF THE LAWS, RULES, OR ORDINANCES. D) PROVIDE MATERIALS THAT ARE NEW AND FREE OF DEFECTS AND UL LISTED FOR THE INTENDED APPLICATION. E) TAKE MEASUREMENTS AND MAKE LAYOUTS AS REQUIRED FOR PROPER INSTALLATION AND COMPLETION OF WORK IF THE ELECTRICAL DRAWINGS ARE NOT TO BE SCALED, WHERE SPECIFIC DETAILS AND DIMENSIONS FOR ELECTRICAL WORK ARE NOT SHOWN IN DRAWINGS. F) INSPECT SITE FOR FIELD VERIFICATION OF ALL ASPECTS OF THE PROJECT PRIOR TO BIDDING. G) EXAMINE ALL DRAWINGS CAREFULLY PRIOR TO SUBMITTING A BID. H) BE REQUIRED TO FURNISH, INSTALL AND/OR CONNECT WITH APPROPRIATE SERVICES ALL ELECTRICAL ITEMS SHOWN ON ANY OF THE ARCHITECTURAL, PLUMBING, AIR CONDITIONING, SPRINKLER DRAWINGS WITHOUT ADDITIONAL EXPENSE TO THE OWNER. 4. START OF WORK BY CONTRACTOR SHALL BE CONSIDERED AS ACCEPTANCE BY HIM OF ALL CLAIMS OR QUESTIONS AS TO SUITABILITY OF THE WORK OF OTHER TRADES OR OTHER CONTRACTORS TO RECEIVE HIS WORK. THIS CONTRACTOR SHALL REMOVE AND REPLACE AT HIS EXPENSE, ALL ELECTRICAL WORK WHICH MAY HAVE TO BE REMOVED BECAUSE OF INTERFERENCE WITH OTHER TRADES 5. VERIFY SERVICES CHARACTERISTICS, LOCATION AND CONNECTION WITH TELEPHONE AND ELECTRICAL UTILITY COMPANIES. THEY SHALL PERFORM ALL WORK RELATED TO SERVICE IN STRICT ACCORDANCE WITH UTILITY COMPANY STANDARDS AND REQUIREMENTS. 6. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, AND TOOLS TO PERFORM ALL WORK NECESSARY FOR THE COMPLETE EXECUTION OF THE ELECTRICAL WORK AS SHOWN ON THE DRAWINGS. 7. DRAWINGS ARE TO BE CONSIDERED DIAGRAMMATIC, NOT NECESSARILY SHOWING IN DETAIL OR TO SCALE ALL OF THE MINOR ITEMS, UNLESS SPECIFIC DIMENSIONS ARE SHOWN. THE STRUCTURAL, ARCHITECTURAL AND SITE CONDITIONS SHALL GOVERN THE EXACT LOCATIONS. IF THE LOCATION OF ELECTRICAL DEVICES ARE NOT SHOWN ON ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYING OUT WORK, CHECK DRAWINGS OF ALL TRADES TO VERIFY SPACES IN WHICH WORK WILL BE INSTALLED AND MAINTAIN MAXIMUM HEAD ROOM, OR SPACES OR CONDITIONS AT ALL POINTS. WHERE HEAD ROOM OR SPACES OR CONDITIONS APPEAR INADEQUATE, ARCHITECT/ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH INSTALLATION. THIS CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE FIELD MODIFICATIONS IN LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF VARIOUS TRADES OR FOR PROPER EXECUTION OF WORK. WHERE DISCREPANCIES OCCUR, THE ARCHITECTURAL REFLECTED CEILING PLANS TAKE PRECEDENCE OVER THE ELECTRICAL LIGHTING FOR LOCATION AND ORIENTATION OF LIGHTING FIXTURES. 8. ALL DISCREPANCIES OF DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER IN WRITING IN AMPLE TIME TO PERMIT REVISIONS PRIOR TO SUBMISSION OF BIDS. SUBMISSION OF A BID CONSTITUTES ACCEPTANCE OF FIELD CONDITIONS AND ELECTRICAL DRAWINGS. 9. PROVIDE MEANS 'FURNISH AND INSTALL COMPLETE AND READY FOR USE'. 10. DRAWINGS DO NOT NECESSARILY INDICATE THE ACTUAL ROUTES OF CONDUIT. WHERE INDICATED, THEY SHALL BE FOLLOWED AS CLOSELY AS PROPER COORDINATION WITH THE WORK OF OTHER TRADES AND SPACES WILL PERMIT. WHERE CONDUIT RUNS ARE NOT SHOWN ON THE DRAWINGS, COORDINATE CONDUIT RUNS WITH THE WORK OF OTHER TRADES AND STRUCTURE. SIMPLIFY INSTALLATION WHERE POSSIBLE, BUT SUBJECT TO APPROVAL OF ARCHITECT FOR VISUAL AND STRUCTURAL REASONS. IT IS NOT WITHIN THE SCOPE OF THE DRAWINGS TO SHOW ALL NECESSARY OFFSETS, BENDS, PULL BOXES, AND OBSTRUCTIONS. THE DRAWINGS ARE NOT INTENDED TO BE SCALED AND REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS 11. LABOR FOR THE INSTALLATION OF MATERIALS AND EQUIPMENT PROVIDED UNDER THE ELECTRICAL CONTRACTORS SCOPE OF WORK SHALL BE PERFORMED IN A NEAT AND FIRST CLASS WORKMANSHIP LIKE MANNER BY THOSE EXPERIENCED AND QUALIFIED OF THE PROPER TRADE AND SHALL BE IN COMPLIANCE WITH THE SPECIFIC REQUIREMENTS OF THE CONTRACT DRAWINGS, AND ALL CODES, ORDINANCES OF STATUES, ETC. APPLICABLE.	12. FIELD DETERMINE EXACT INSTALLATION LOCATION OF FIRE PROTECTION REQUIREMENTS UNDER THE NFPA AND MANUFACTURER'S WRITTEN INSTRUCTIONS. INCLUDE ALL FIRE ALARM SYSTEMS AND DETECTION DEVICES. 13. ALL MOUNTING HEIGHTS INDICATED ARE MEASURED FROM FINISHED FLOOR UNLESS OTHERWISE NOTED. 14. PROVIDE TEMPORARY LIGHTING, POWER, AND WIRING SYSTEMS FOR USE OF ALL TRADES, ADEQUATE FOR ENTIRE NEEDS OF THE PROJECT. 15. CONNECT ALL MOTORS, STARTERS, CONTROLS, DISCONNECT SWITCHES, CIRCUIT BREAKERS, ETC. WHETHER FURNISHED UNDER THIS CONTRACT BY THE GENERAL CONTRACTOR, OTHER SUB-CONTRACTOR, OR BY THE OWNER. 16. PROVIDE PULL WIRES WHEN EMPTY CONDUITS ARE SHOWN ON THE PLANS. 17. PROVIDE LIGHT FIXTURES AS SELECTED BY ARCHITECT, OR AS SPECIFIED. 18. PROVIDE ALL WIRING DEVICES. 19. IDENTIFY CLEARLY ON A TYPE WRITTEN FROM ALL CIRCUITS AND EQUIPMENT TO CORRESPOND WITH THE PLANS AND PANEL SCHEDULE AND ATTACH INSIDE THE PERTAINING PANEL. 20. NM CABLE IS ALLOWED FOR TYPE II, IV AND V CONSTRUCTION FOR TYPE I AND II CONSTRUCTION, THE USE IS PERMITTED IF INSTALLED WITHIN RACEWAYS OR SIMILAR STRUCTURE TO PROTECT FROM PHYSICAL DAMAGE (NEC 334). 21. CONTRACTOR SHALL FURNISH THE ENGINEERING WITH SHOP DRAWINGS OF EQUIPMENT PRIOR TO PURCHASE FOR APPROVAL. 22. THE CONTRACTOR SHALL TEST ALL WORK AND EQUIPMENT AS DIRECTED BY THE ARCHITECT AND BY AUTHORITIES HAVING JURISDICTION, FURNISHING ALL EQUIPMENT AND NECESSARY PERSONNEL AND ELECTRICAL POWER. THE ENTIRE INSTALLATION SHALL BE TESTED FOR SHORTS, GROUNDS AND OPEN CIRCUITS, AND ALL DEFECTS SHALL BE DEMONSTRATED TO BE IN PROPER WORKING AND OPERATING CONDITION TO THE COMPLETE SATISFACTION OF THE ENGINEER. 23. ALL EQUIPMENTS AND MATERIALS SHALL BE GUARANTEED FOR ONE YEAR AFTER THE DATE OF ACCEPTANCE BY OWNER. 24. AT COMPLETION OF JOB THE ELECTRICAL CONTRACTOR SHALL GIVE THE OWNER AN AS-BUILT SET OF REPRODUCIBLE DRAWINGS SHOWING THE EXACT ELECTRICAL INSTALLATION, WRITTEN MAINTENANCE INSTRUCTIONS AND SCHEDULE OF ROUTINE MAINTENANCE AS WELL AS ANY OTHER CLOSE OUT ITEMS REQUIRED BY THE CONTRACT DOCUMENTS. 25. BEFORE BIDDING THE JOB THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ANY EXISTING CONDITIONS. 26. ALL ELECTRICAL SWITCHES, CONTROLS, ETC. IN ALL AREAS ARE TO BE AT A.D.A. ACCESSIBILITY CODE COMPLAINT HEIGHT. REFER TO GENERAL NOTE #2-L. 27. CIRCUIT NUMBERS SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY. BALANCE LOADS AMONG PHASES IN NEW PANEL BOARDS TO WITHIN 10% OF EACH OTHER. 28. FEEDER CONDUCTORS SHALL BE SIZED BY ENGINEER. 29. CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING: A) A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM B) FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION. 30. CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT AN OPERATING MANUAL AND MAINTENANCE MANUAL BE PROVIDED TO THE BUILDING OWNER. THE MANUALS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING: A) SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. B) OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED. C) NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY. 31. ELECTRICAL OUTLETS OR BOXES LOCATED ON OPPOSITE SIDES OF RATED WALLS OR PARTITIONS SHALL MEET ONE OF THE FOLLOWING CRITERIA: A) BOXES SHALL BE SURROUNDED ON 5 SIDES WITH FIRE RATED GYPSUM BOARD TO MAINTAIN THE FIRE RATING OF THE WALL. B) BACK OF BOXES SHALL BE WRAPPED IN FIRE RESISTANT PUTTY SIMILAR TO SPEC. SEAL FIRE RATED PUTTY PADS. 32. DO NOT INSTALL SMOKE DETECTORS UNTIL BUILDING IS FREE OF DUST AND DUST PRODUCING ACTIVITIES, JUST PRIOR TO FINAL INSPECTION FOR CERTIFICATE OF OCCUPANCY. 33. AT COMPLETION OF WORK, CONTRACTOR SHALL CLEAN UP AND REMOVE ALL DEBRIS AND MATERIALS NOT INSTALLED IN WORK, LEAVING PREMISES CLEAN. 34. ALL BRANCH CIRCUITS SUPPLYING OUTLETS IN LIVING AREA, SLEEPING AREA AND DINING AREA SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION TYPE, INSTALLED TO PROVIDE PROTECTION OF BRANCH CIRCUIT AS PER NEC 210.12 FOR HOTEL GUEST ROOMS AND SUITES. 35. PROVIDE ALL NON LOCKING-TYPE, 125-VOLT, 15- AND 20-AMPERE RECEPTACLES LOCATED IN GUESTROOMS AND GUEST SUITES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES AS PER NEC 406.12. 36. THE FRANCHISE BRAND STANDARDS DESIGN DOCUMENT SHALL BE CONSIDER AS AN INTEGRAL PART OF THE CONSTRUCTION DOCUMENTS. ALL CONTRACTORS SHALL ENSURE THEY OBTAIN, READ, AND FAMILIARIZE THEMSELVES WITH THE BRAND STANDARD DOCUMENT BEFORE BIDDING AND ALSO THROUGHOUT THE CONSTRUCTION STAGES. IF THERE ARE ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND THE FRANCHISE BRAND STANDARDS, THE CONTRACTOR SHALL ISSUE AN RFI TO THE AOR AND EOR.

LEGENDS	
SYMBOL	
WIRING DEVICES	
	NEMA 5-20R DUPLEX RECEPTACLE MOUNTED AT 18" AFF ON CENTER, UNO. IG = ISOLATED GROUND WP = WEATHER PROOF AC = MOUNTED 4" ABOVE COUNTER USB = USB OUTLET H = HORIZONTAL OUTLET V = VERTICAL OUTLET
	NEMA 5-20R GROUND FAULT CIRCUIT INTERRUPT DUPLEX RECEPTACLE MOUNTED AT 18" AFF ON CENTER, UNO. WP = WEATHER PROOF H = HORIZONTAL OUTLET V = VERTICAL OUTLET
	NEMA 5-20R DUPLEX RECEPTACLE MOUNTED AT 18" AFF ON CENTER, DEDICATED CIRCUIT, UNO.
	NEMA 5-20R DUPLEX RECEPTACLE FLOOR MOUNTED , UNO.
	NEMA 5-20R DUPLEX RECEPTACLE, CEILING MOUNTED, UNO.
	NEMA 5-20R DOUBLE DUPLEX RECEPTACLE MOUNTED AT 18" AFF ON CENTER, DEDICATED CIRCUITS UNO.
	NEMA 5-20R DOUBLE DUPLEX RECEPTACLE MOUNTED AT 18" AFF ON CENTER, DEDICATED CIRCUITS UNO.
	NEMA 5-20R DOUBLE DUPLEX RECEPTACLE FLOOR MOUNTED , UNO.
	NEMA 5-20R DOUBLE DUPLEX RECEPTACLE CEILING MOUNTED , UNO.
	100-240 VAC 60Hz FLOOR MOUNTED RECEPTACLE, UNO.
	SPECIAL RECEPTACLE SEE PLAN NOTES FOR TYPE.
	JUNCTION BOX FOR ELECTRICAL DEVICE INSTALLATION, PULL OR TAP BOX, CEILING, WALL OR FLOOR MOUNTED
	TELEVISION OUTLET MOUNTED BEHIND TV, UNO
	TELEPHONE OUTLET MOUNTED AT 48" AFF, UNO
	DATA OUTLET MOUNTED AT 18" AFF, UNO
	COMBINATION DATA/PHONE OUTLET MOUNTED AT 18" AFF, UNO
	HOUSEPHONE OUTLET MOUNTED AT 48" AFF, UNO
	2 GANG FLOOR BOX WITH DUPLEX RECEPTACLE AND TV OUTLET.
	2 GANG FLOOR BOX WITH DUPLEX RECEPTACLE AND COMMUNICATION OUTLET.
	CARD READER MOUNTED AT 46" AFF, UNO
	CIRCUIT BREAKER
	125V OR 277V AC SINGLE POLE 20 AMP SWITCH (ROCKER TYPE) MOUNTED AT 46" AFF ON CENTER, UNO.
	NON-FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	GUEST ROOM DOORBELL PUSH-BUTTON MOUNTED @ 46" AFF
	GUEST ROOM DOOR ANNUNCIATOR MOUNTED @ 80" AFF
	GUEST ROOM DOORBELL DISCONNECT SWITCH MOUNTED @ 46" AFF
	WIRELESS ACCESS POINT
	CAT6 OUTLET MOUNTED AT 12" AFF, UNO
	MOTOR DISCONNECT SWITCH
	UNISTRUT RACK
	3 GANG FLOOR BOX WITH DUPLEX RECEPTACLE AND TV OUTLET AND 100-240 VAC OUTLET.
ELECTRICAL EQUIPMENT	
	ELECTRICAL PANEL BOARD
	ELECTRICAL DISTRIBUTION PANEL BOARD OR SWITCHBOARD
	TRANSFORMER
	GENERATOR
MECHANICAL EQUIPMENT & FIXTURE	
	EXHAUST FAN, CEILING MOUNTED
	EXHAUST FAN, WALL MOUNTED
	THERMOSTAT
	PUMP
FIRE ALARM DEVICES	
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	MAGNETIC DOOR HOLDER
	TWO WAY COMMUNICATION
	RADIO RESPONDER
	FIRE SMOKE DAMPER

DRAWING INDEX			
ELECTRICAL			
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E-101	ELECTRICAL DETAILS-1	2020.02.21	ISSUED FOR PERMIT
E-102	ELECTRICAL DETAILS-2	2020.02.21	ISSUED FOR PERMIT
E-103	ELECTRICAL DETAILS-3	2020.02.21	ISSUED FOR PERMIT
E-104	POOL GROUNDING DETAILS	2020.02.21	ISSUED FOR PERMIT
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E-206	3RD FLOOR POWER PLAN B	2020.02.21	ISSUED FOR PERMIT
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E-211	ROOF ELECTRICAL PLAN	2020.02.21	ISSUED FOR PERMIT
E-212	ENLARGED FLOOR POWER PLAN-1	2020.02.21	ISSUED FOR PERMIT
E-213	ENLARGED FLOOR POWER PLAN-2	2020.02.21	ISSUED FOR PERMIT
E-214	TYPICAL UNIT ELECTRICAL PLAN-1	2020.02.21	ISSUED FOR PERMIT
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E-301	PANEL SCHEDULE-1	2020.02.21	ISSUED FOR PERMIT
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E-309	PANEL SCHEDULE-9	2020.06.19	CITY COMMENTS
E-310	ELECTRICAL RISER DIAGRAM	2020.06.19	CITY COMMENTS
E-311	TELEPHONE, DATA AND TV RISER DIAGRAM	2020.02.21	ISSUED FOR PERMIT
ABBREVIATIONS			
A AFC AIC AFF ADA AT ATS AWG BRKR C CB CKT CLG CO CPT DITS EC EF ELEC EM FA FACP G.GND FLUOR GEN GF,GFCI HH HID HOA HP HW IG INCAN PJB TCM KVA KW LTG KWH LTS MCB MCC MDP MSB MH MLO N NEC NF NFPA NL PB PH PNL PVC PWR RCPT RF RGS SF SH SPD SPDT SPST SRAIC SW SWB TELE TTB TWC UG UPS UNO V W WAP WP XFMR	AMP AVAILABLE FAULT CURRENT AMPERES INTERRUPTING CAPACITY ABOVE FINISHED FLOOR AMERICAN DISABILITIES ACT AMP TRIP AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAUGE BREAKER CONDUIT OR CONDUCTOR-AS APPLICABLE CIRCUIT BREAKER CIRCUIT CEILING CONDUIT ONLY CONTROL POWER TRANSFORMER DOUBLE THROW TRANSFER SWITCH EMPTY CONDUIT EXHAUST FAN ELECTRICAL/ELECTRIC EMERGENCY FIRE ALARM FIRE ALARM CONTROL PANEL GROUND FLUORESCENT GENERATOR GROUND FAULT (CIRCUIT)INTERRUPTER HAND HOLE HIGH INTENSITY DISCHARGE HAND/OFF/AUTO HORSE POWER HOT WATER HEATER ISOLATED GROUND INCANDESCENT JUNCTION BOX THOUSAND CIRCULAR MILES KILOVOLT - AMPERE KILOWATT LIGHTING KILOWATT HOUR LIGHTS MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MAIN DISTRIBUTION PANEL MAIN SWITCH BOARD METAL HALIDE OR MANHOLE- AS APPLICABLE MAIN LUG ONLY NEUTRAL NATIONAL ELECTRICAL CODE NON FUSED NATIONAL FIRE PROTECTION ASSOCIATION NIGHT LIGHT (UNSWITCHED CKT.) PULL BOX PHASE PANEL POLYVINYL CHLORIDE POWER RECEPTACLE RADIO RESPONDER RIGID GALVANIZED STEEL SUPPLY FAN SHIELDED SURGE PROTECTIVE DEVICE SINGLE POLE, DOUBLE THROW SINGLE POLE, SINGLE THROW SERIES RATED AMPERES INTERRUPTING CAPACITY SWITCH STRUCTURED WIRING BOX TELEPHONE TELEPHONE TERMINAL BOARD TWO WAY COMMUNICATION UNDERGROUND UNINTERRUPTIBLE POWER SUPPLY UNLESS NOTED OTHERWISE VOLT WATTS WIRELESS ACCESS POINT WEATHERPROOF TRANSFORMER		



RICARDO J. MUNIZ-GUILLET, AIA
5453 NW 106TH DR
CORAL SPRINGS, FL 33076

Professional Engineer Seal for Garry W. Vermans, State of Washington, No. 44860, dated 2020.06.19.

ner: 

3500 S MERIDIAN PLUYALLUP WA 9837

PROTOTYPE VERSION: V9.2 2014 FEB

ISSUE NO.	DELTA	ISSUE DATE	DESCRIPTION
1	E0	2020.02.21	ISSUED FOR PERMIT

CURRENT ISSUE

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2020.02.21

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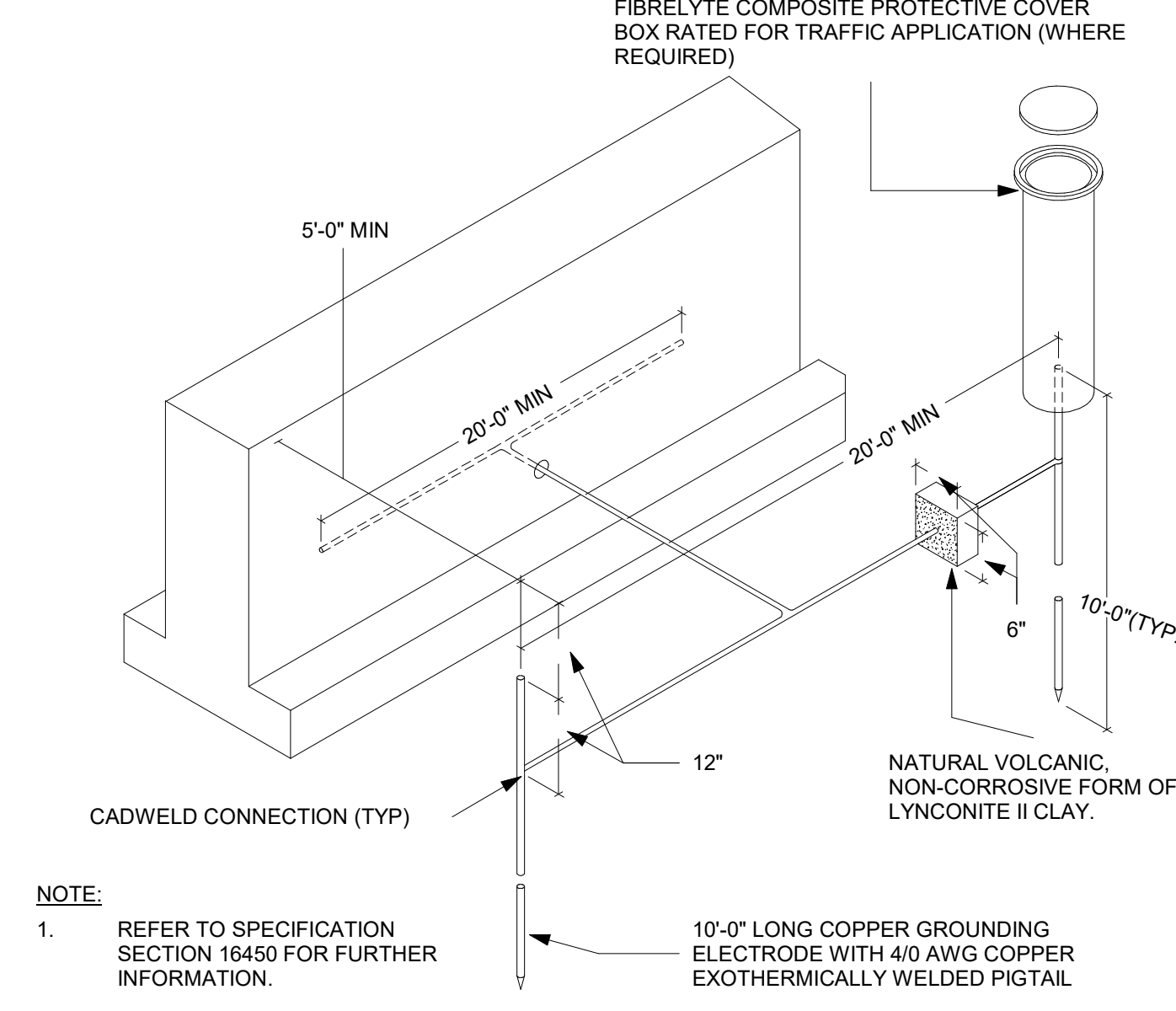
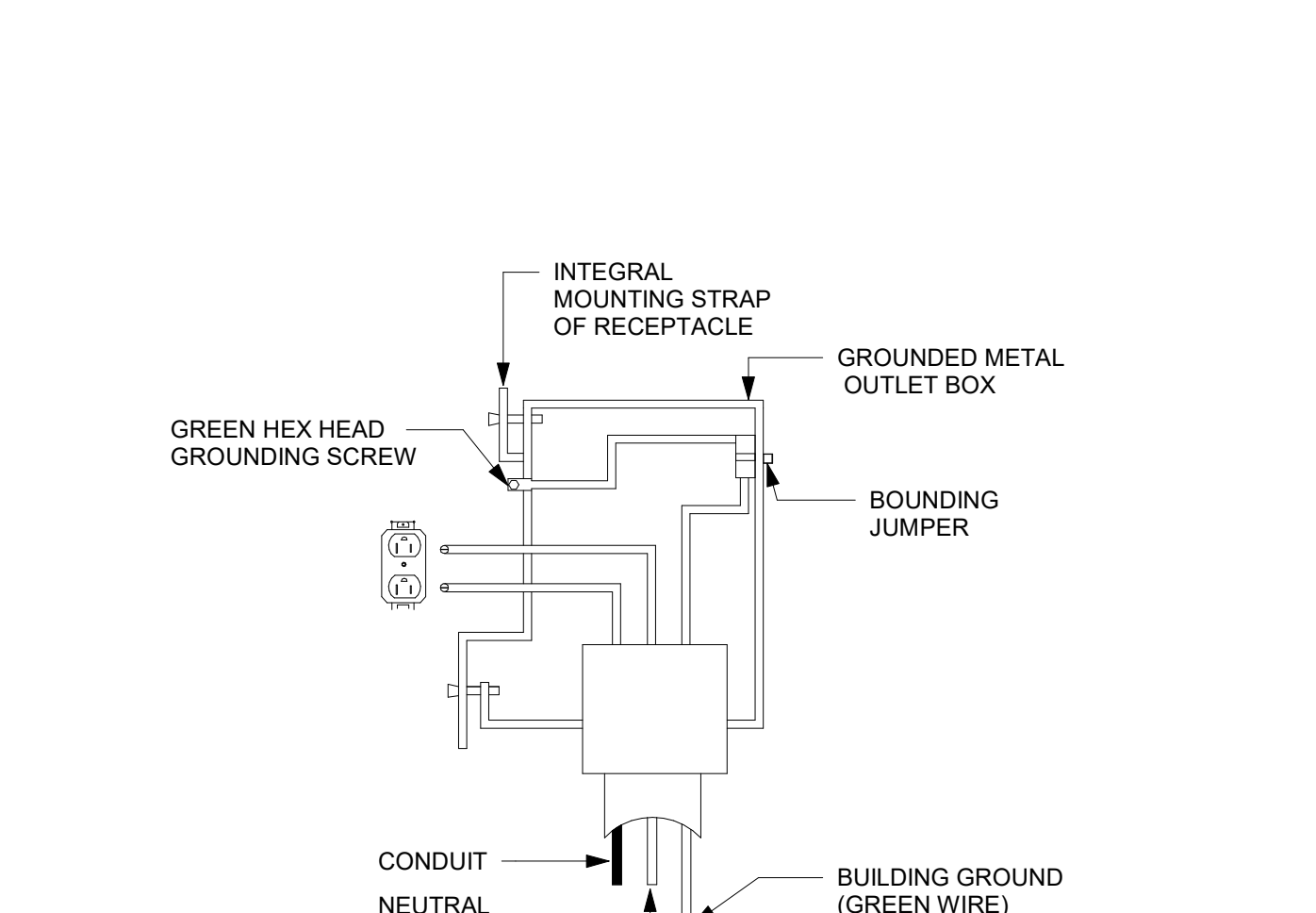
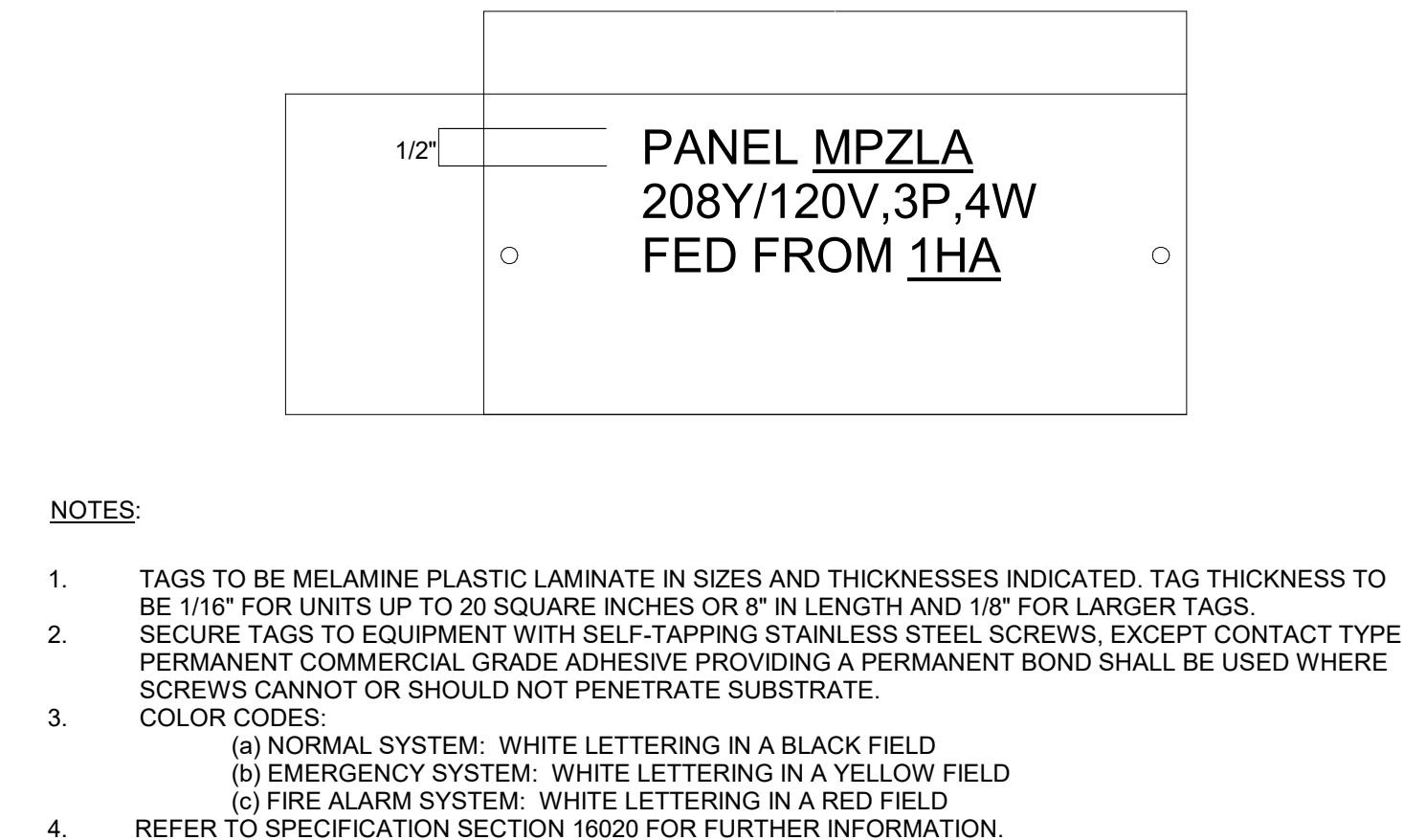
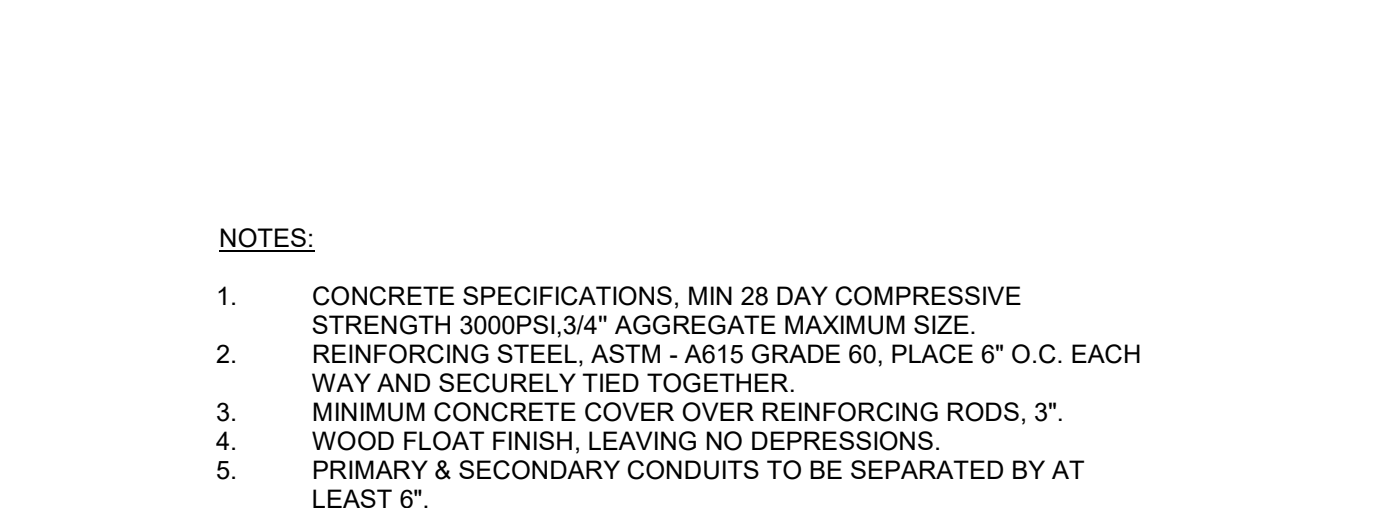
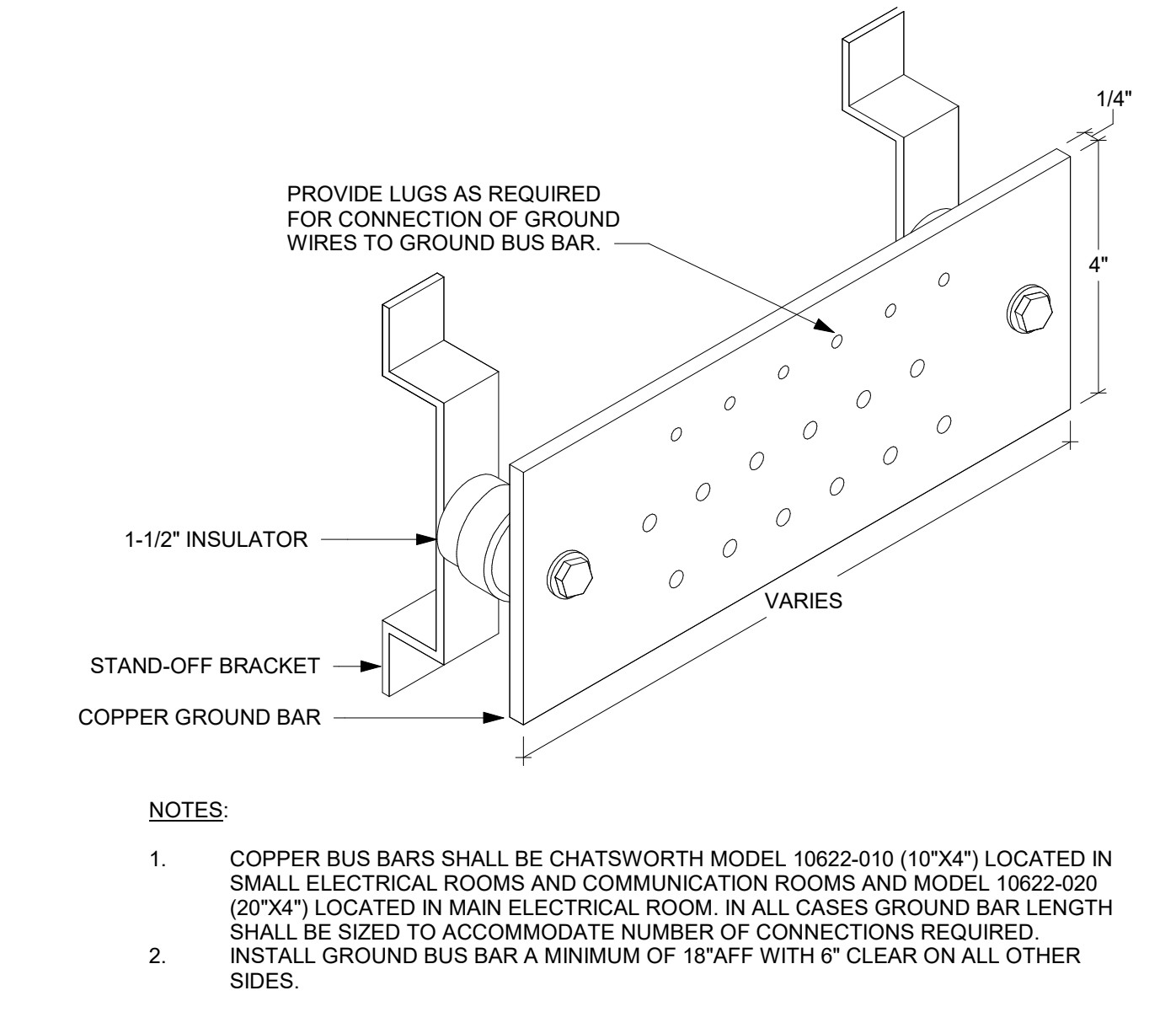
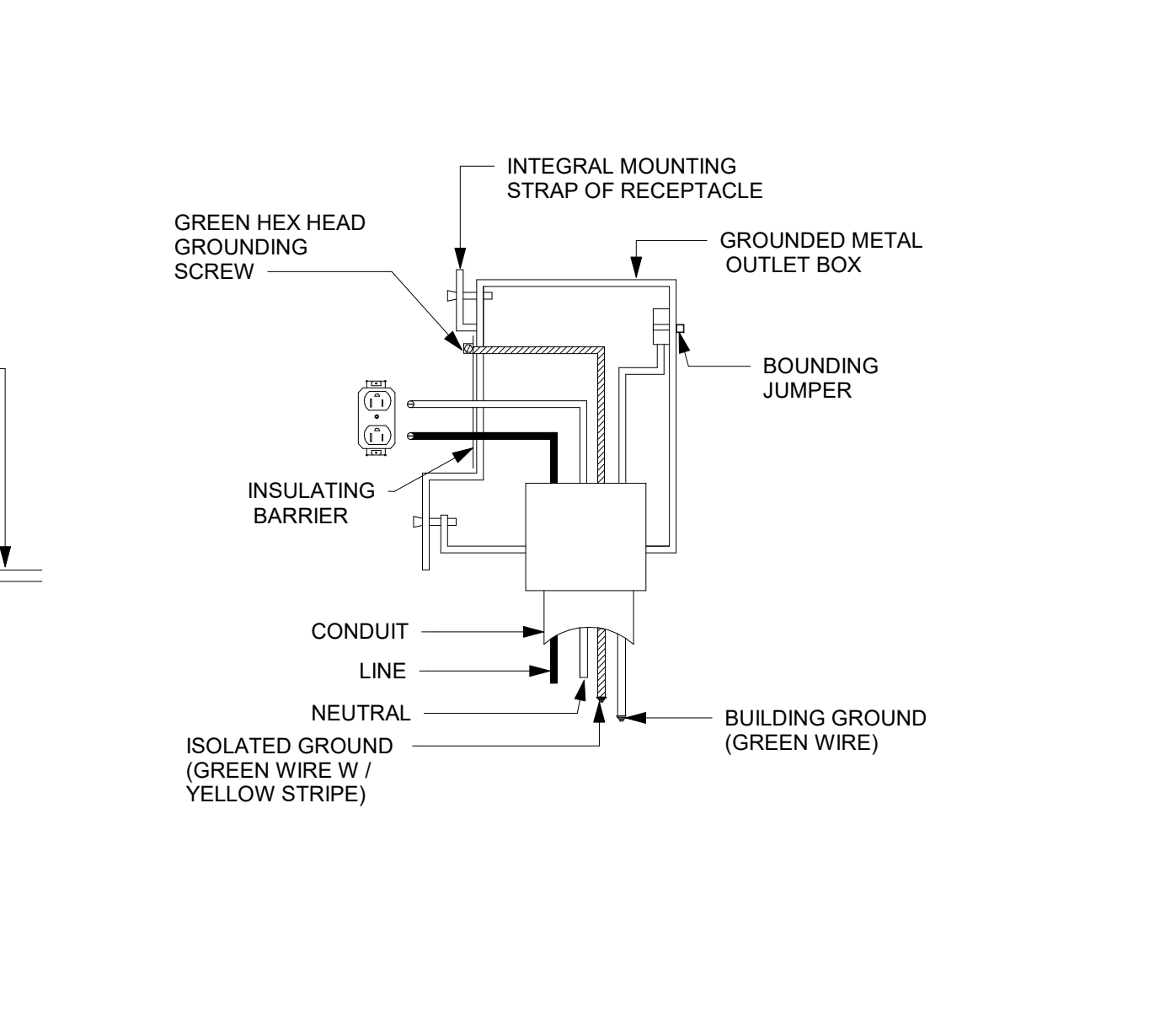
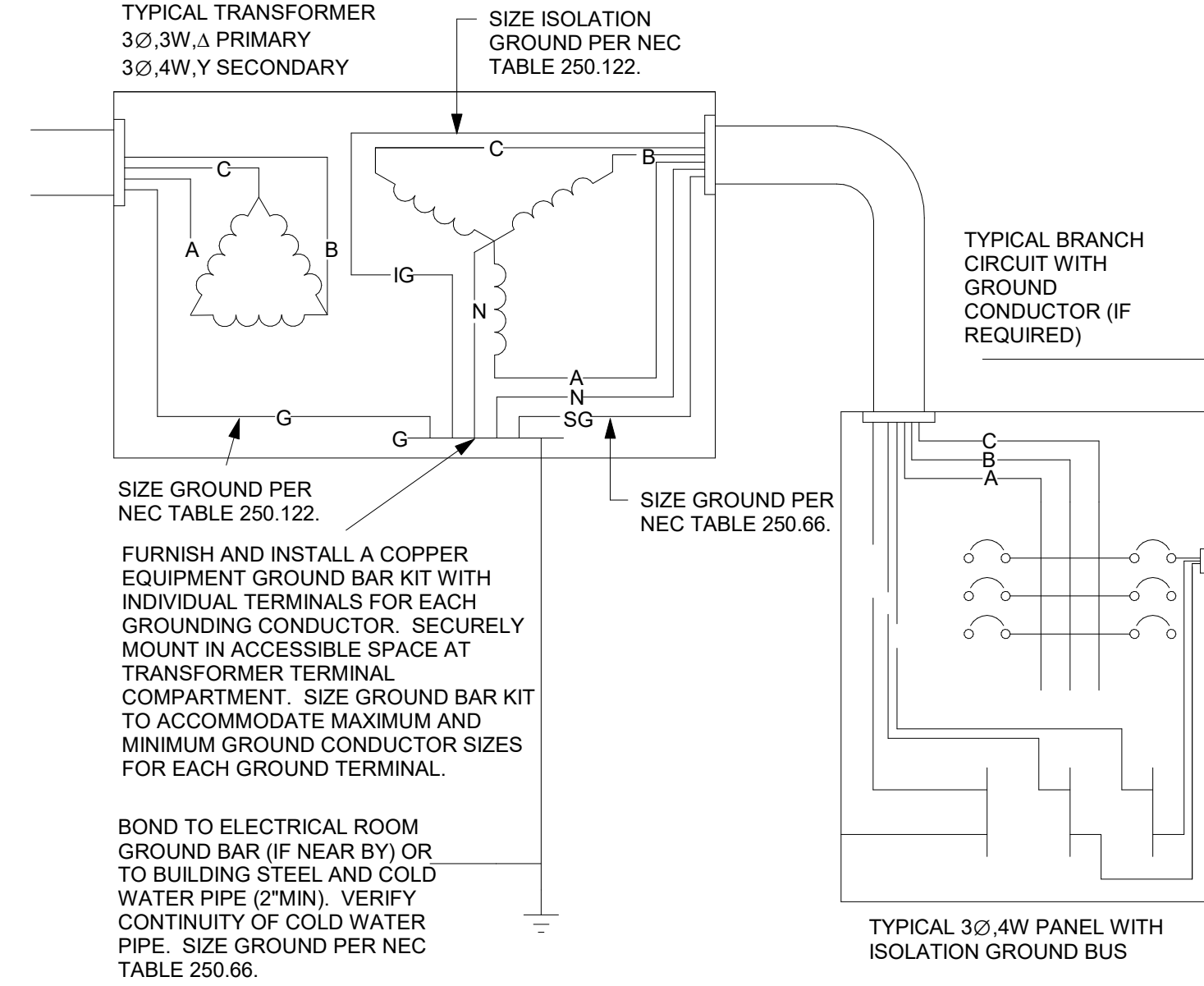
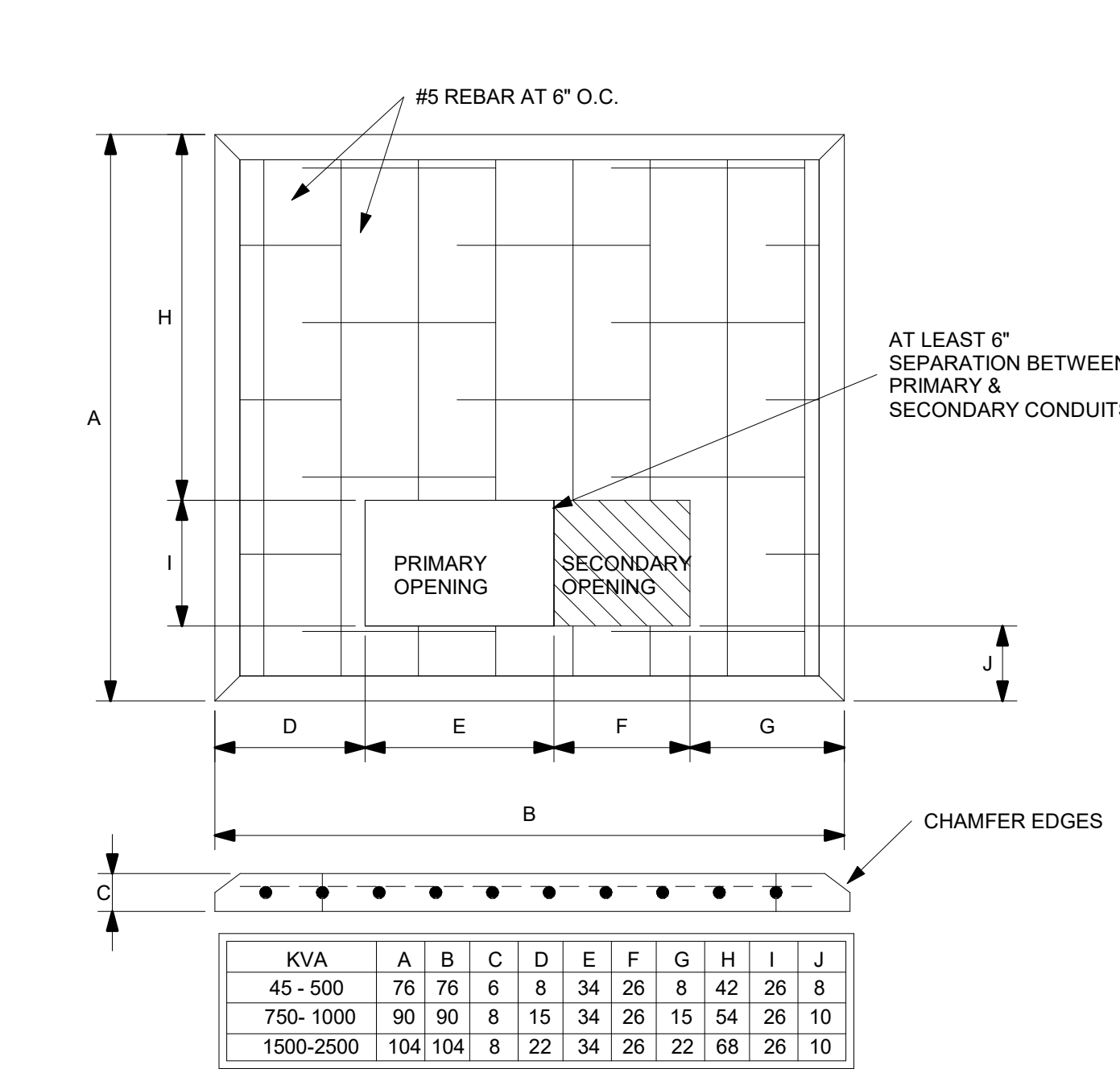
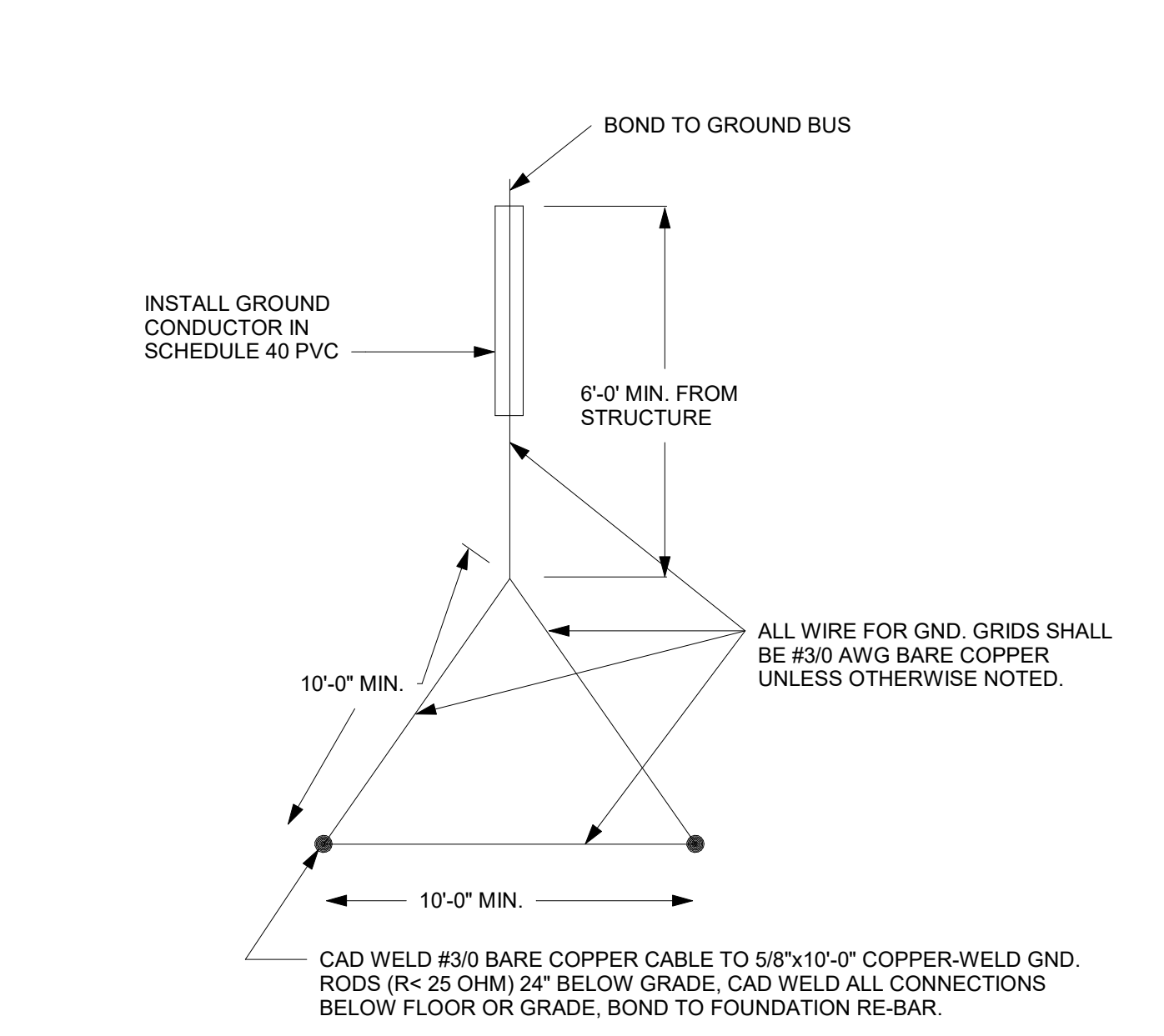
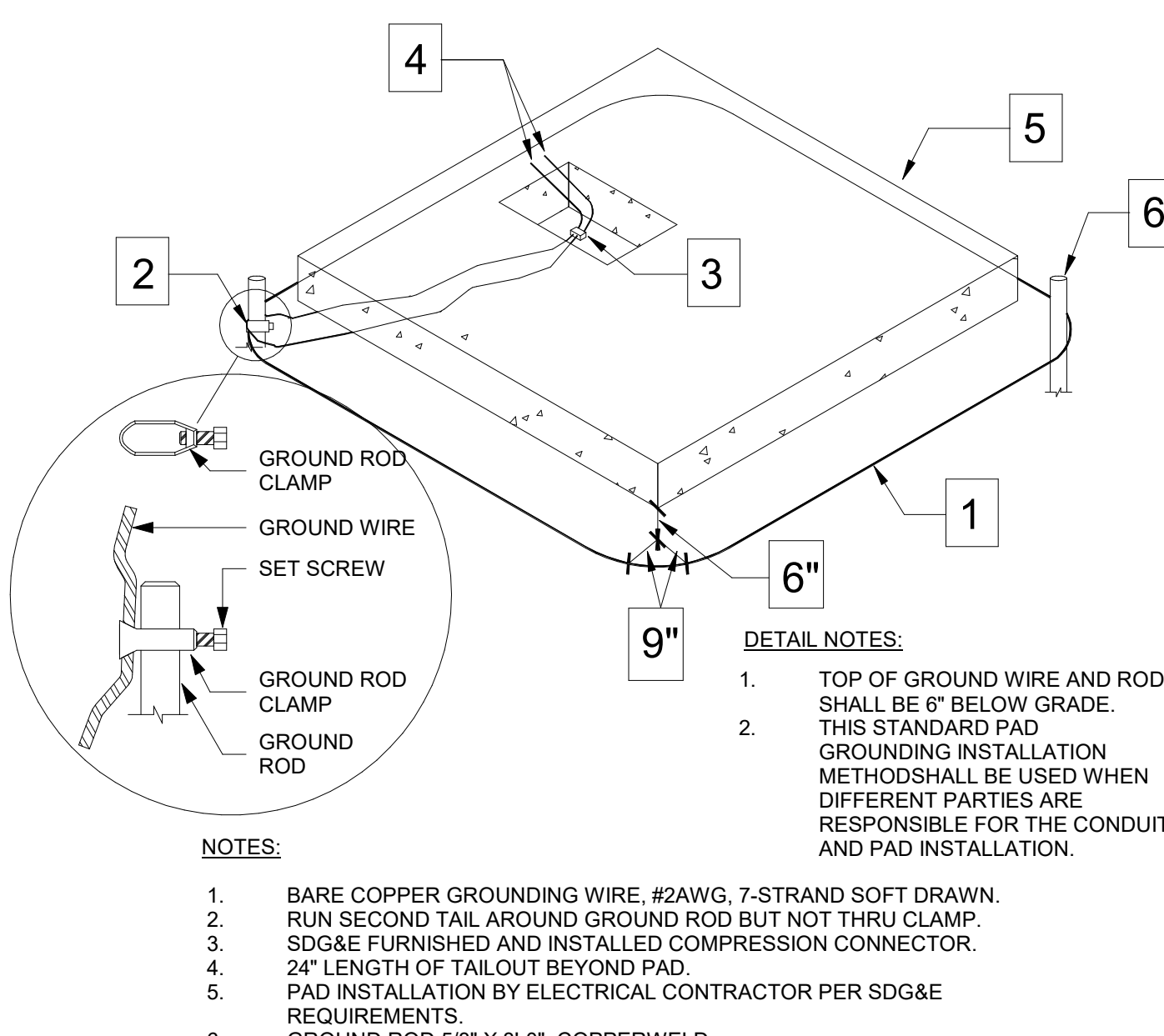
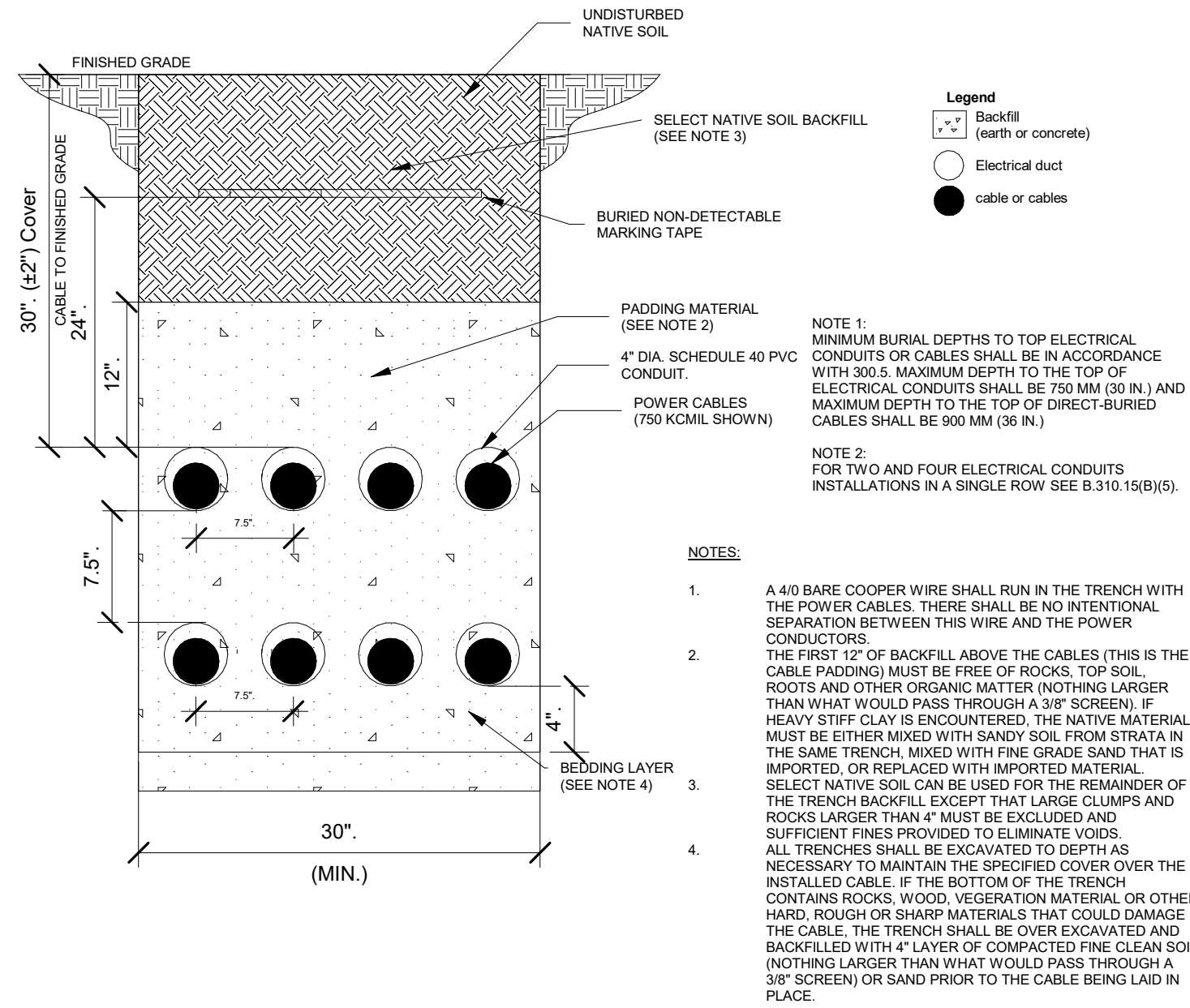
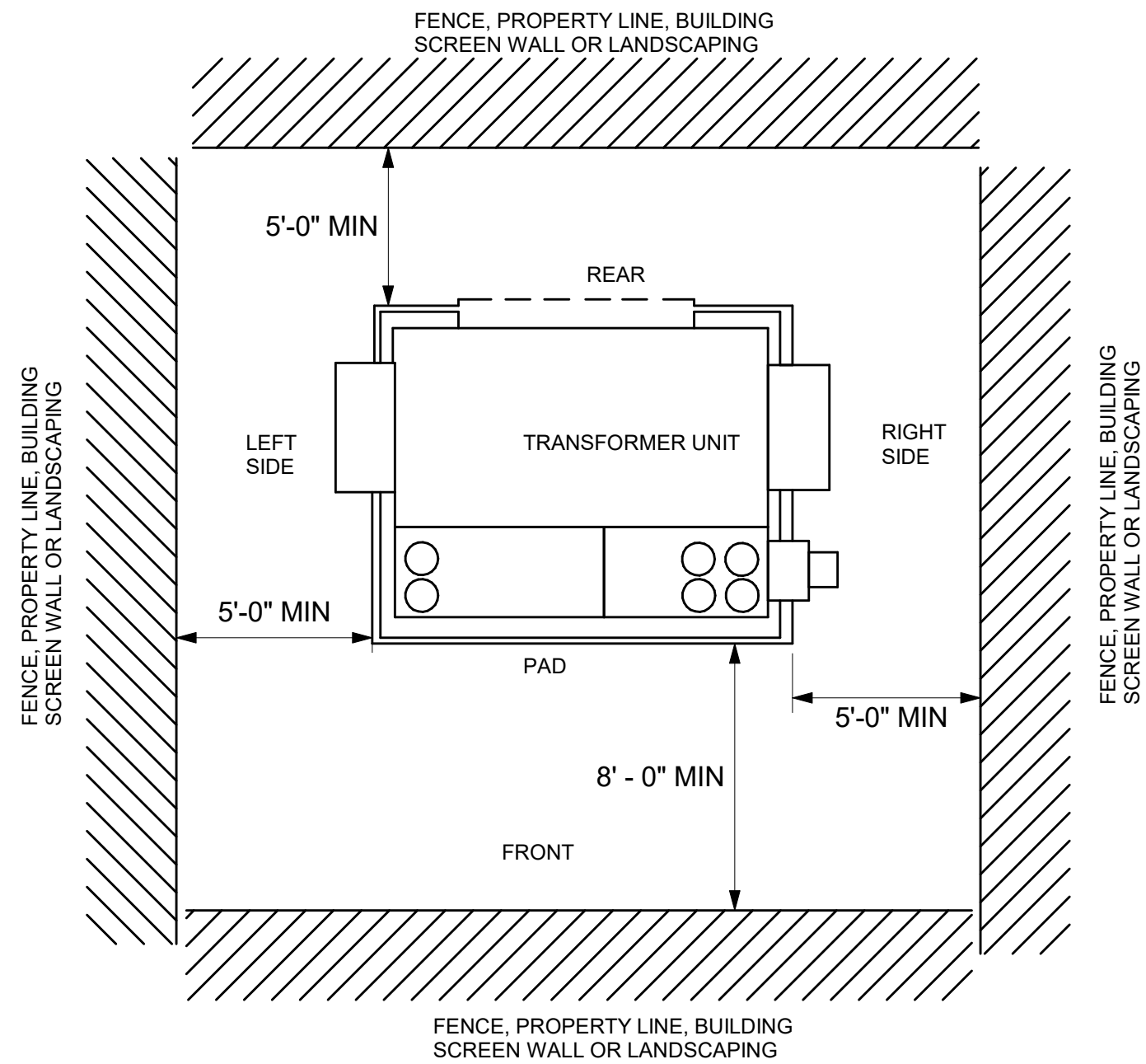
PROJECT NO. _____

D4-124-1000

SHEET NAME

DRAWINGS NO.

E-001



NOTES:

- CONCRETE SPECIFICATIONS, MIN 28 DAY COMPRESSIVE STRENGTH 3000PSI, 3/4" AGGREGATE MAXIMUM SIZE.
- REINFORCING STEEL, ASTM - A615 GRADE 60, PLACE 6" O.C. EACH WAY AND SECURELY TIED TOGETHER.
- MINIMUM CONCRETE COVER OVER REINFORCING RODS, 3".
- WOOD FLOAT FINISH, LEAVING NO DEPRESSIONS.
- PRIMARY & SECONDARY CONDUITS TO BE SEPARATED BY AT LEAST 6".

NOTES:

- TAGS TO BE MELAMINE PLASTIC LAMINATE IN SIZES AND THICKNESSES INDICATED. TAG THICKNESS TO BE 1/16" FOR UNITS UP TO 20 SQUARE INCHES OR 8" IN LENGTH AND 1/8" FOR LARGER TAGS.
- SECURE TAGS TO EQUIPMENT WITH SELF-TAPPING STAINLESS STEEL SCREWS, EXCEPT CONTACT TYPE PERMANENT COMMERCIAL GRADE ADHESIVE PROVIDING A PERMANENT BOND SHALL BE USED WHERE SCREWS CANNOT OR SHOULD NOT PENETRATE SUBSTRATE.
- COLOR CODES:
 - (a) NORMAL SYSTEM: WHITE LETTERING IN A BLACK FIELD
 - (b) EMERGENCY SYSTEM: WHITE LETTERING IN A YELLOW FIELD
 - (c) FIRE ALARM SYSTEM: WHITE LETTERING IN A RED FIELD
- REFER TO SPECIFICATION SECTION 16020 FOR FURTHER INFORMATION.

NOTE:

- REFER TO SPECIFICATION SECTION 16450 FOR FURTHER INFORMATION.

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NOTES:

- CONCRETE SPECIFICATIONS, MIN 28 DAY COMPRESSIVE STRENGTH 3000PSI, 3/4" AGGREGATE MAXIMUM SIZE.
- REINFORCING STEEL, ASTM - A615 GRADE 60, PLACE 6" O.C. EACH WAY AND SECURELY TIED TOGETHER.
- MINIMUM CONCRETE COVER OVER REINFORCING RODS, 3".
- WOOD FLOAT FINISH, LEAVING NO DEPRESSIONS.
- PRIMARY & SECONDARY CONDUITS TO BE SEPARATED BY AT LEAST 6".

NOTES:

- TAGS TO BE MELAMINE PLASTIC LAMINATE IN SIZES AND THICKNESSES INDICATED. TAG THICKNESS TO BE 1/16" FOR UNITS UP TO 20 SQUARE INCHES OR 8" IN LENGTH AND 1/8" FOR LARGER TAGS.
- SECURE TAGS TO EQUIPMENT WITH SELF-TAPPING STAINLESS STEEL SCREWS, EXCEPT CONTACT TYPE PERMANENT COMMERCIAL GRADE ADHESIVE PROVIDING A PERMANENT BOND SHALL BE USED WHERE SCREWS CANNOT OR SHOULD NOT PENETRATE SUBSTRATE.
- COLOR CODES:
 - (a) NORMAL SYSTEM: WHITE LETTERING IN A BLACK FIELD
 - (b) EMERGENCY SYSTEM: WHITE LETTERING IN A YELLOW FIELD
 - (c) FIRE ALARM SYSTEM: WHITE LETTERING IN A RED FIELD
- REFER TO SPECIFICATION SECTION 16020 FOR FURTHER INFORMATION.

NOTE:

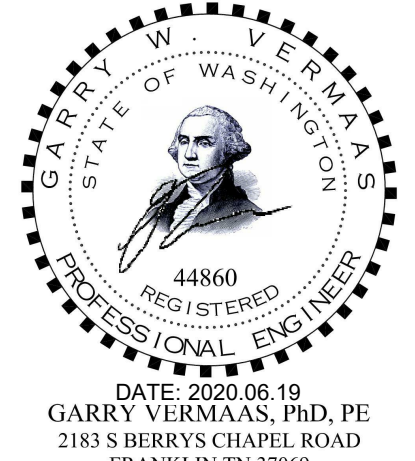
- REFER TO SPECIFICATION SECTION 16450 FOR FURTHER INFORMATION.

NOTE:

- REFER TO SPECIFICATION SECTION 16450 FOR FURTHER INFORMATION.



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2901 CLINT MOORE ROAD, #114
BOCA RATON, FLORIDA 33496
888.901.8008 www.base-4.com
RICARDO J. MUNIZ-GUILLET, AIA
5453 NW 106TH DR
CORAL SPRINGS, FL 33076
MEP ENGINEER
GARRY VERMAAS PhD, PE
2183 S BERRYS CHAPEL ROAD
FRANKLIN, TN 37069



Owner:
DLG
Dakota Legacy Group
Hospitality Development
4500 36TH AVE. S SUITE
200, FARGO, ND 58104
701.551.8000 (OFFICE)



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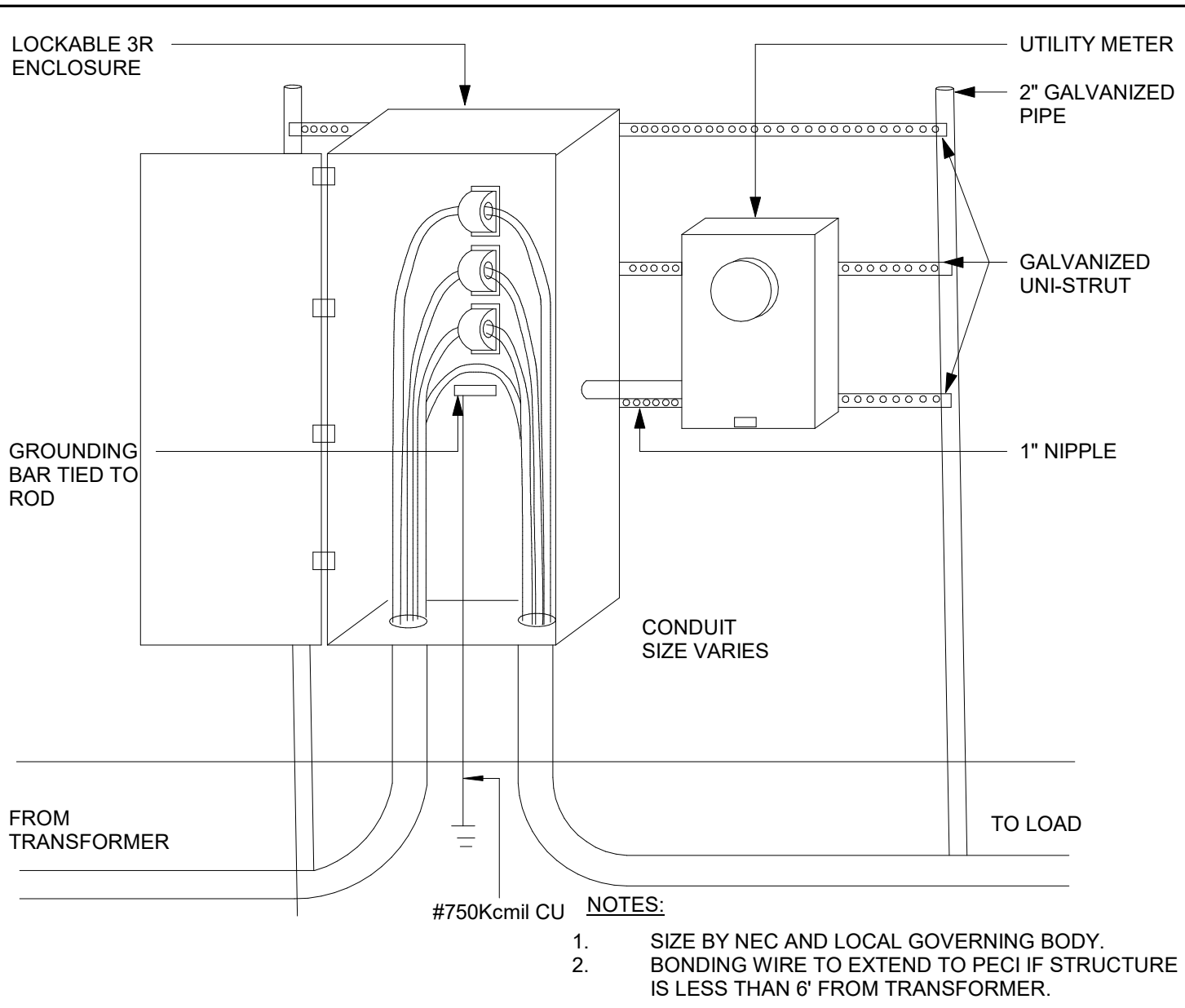
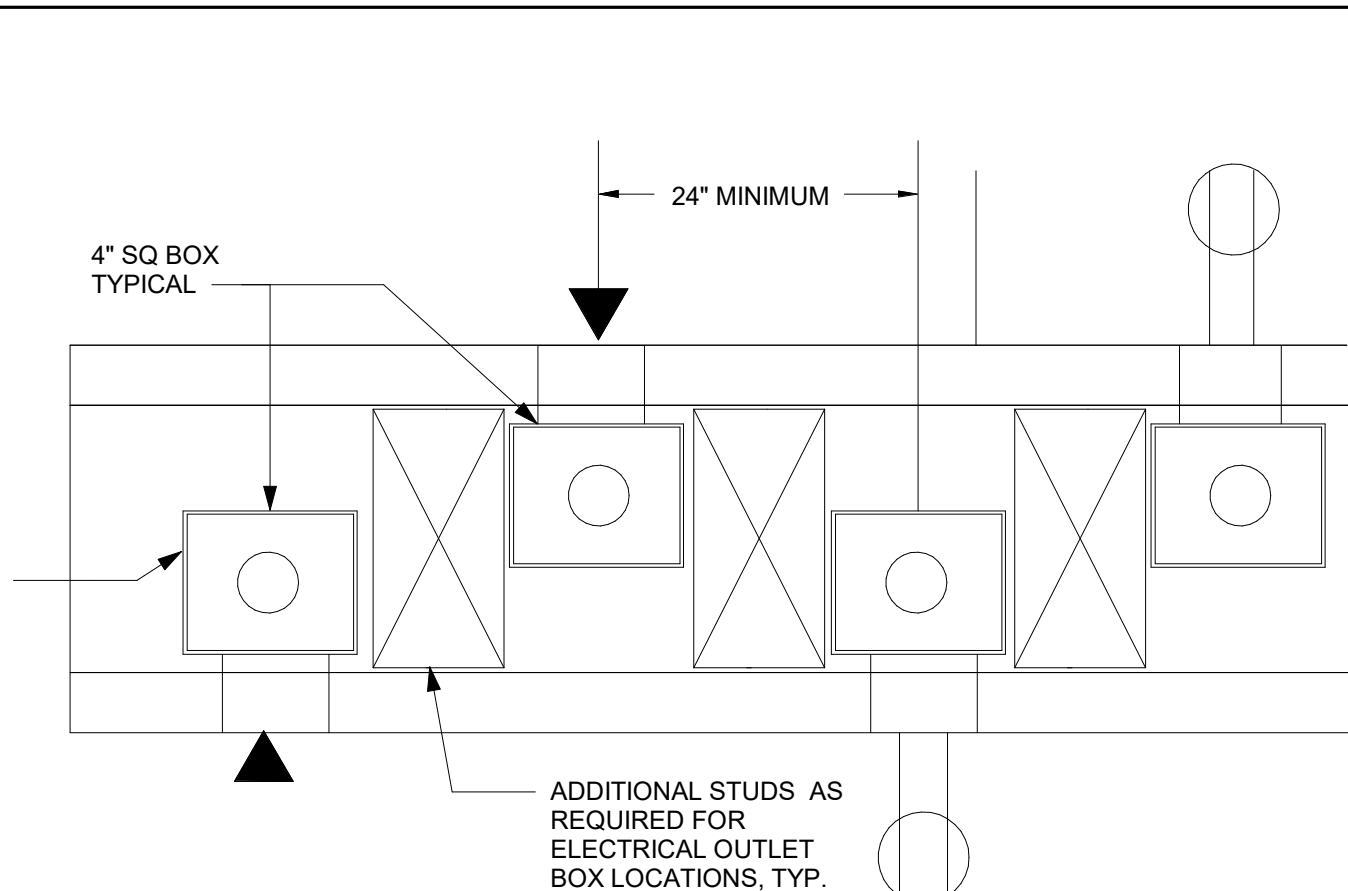
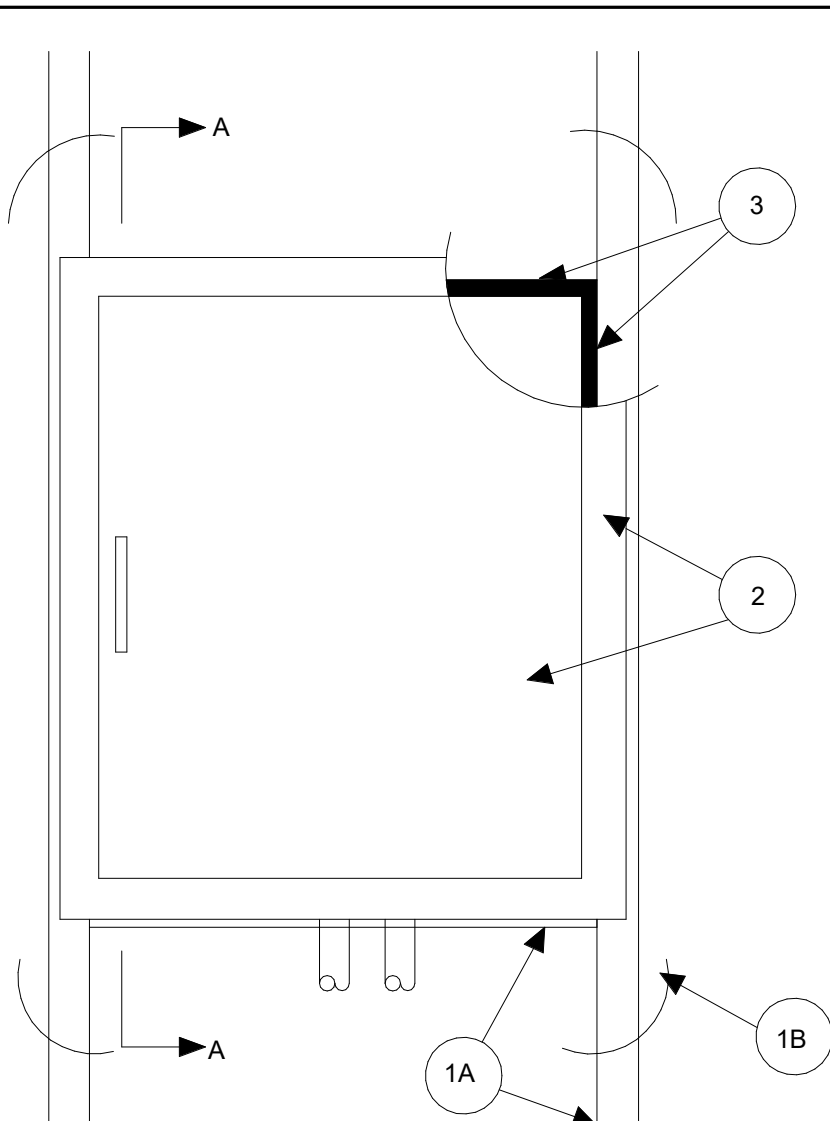
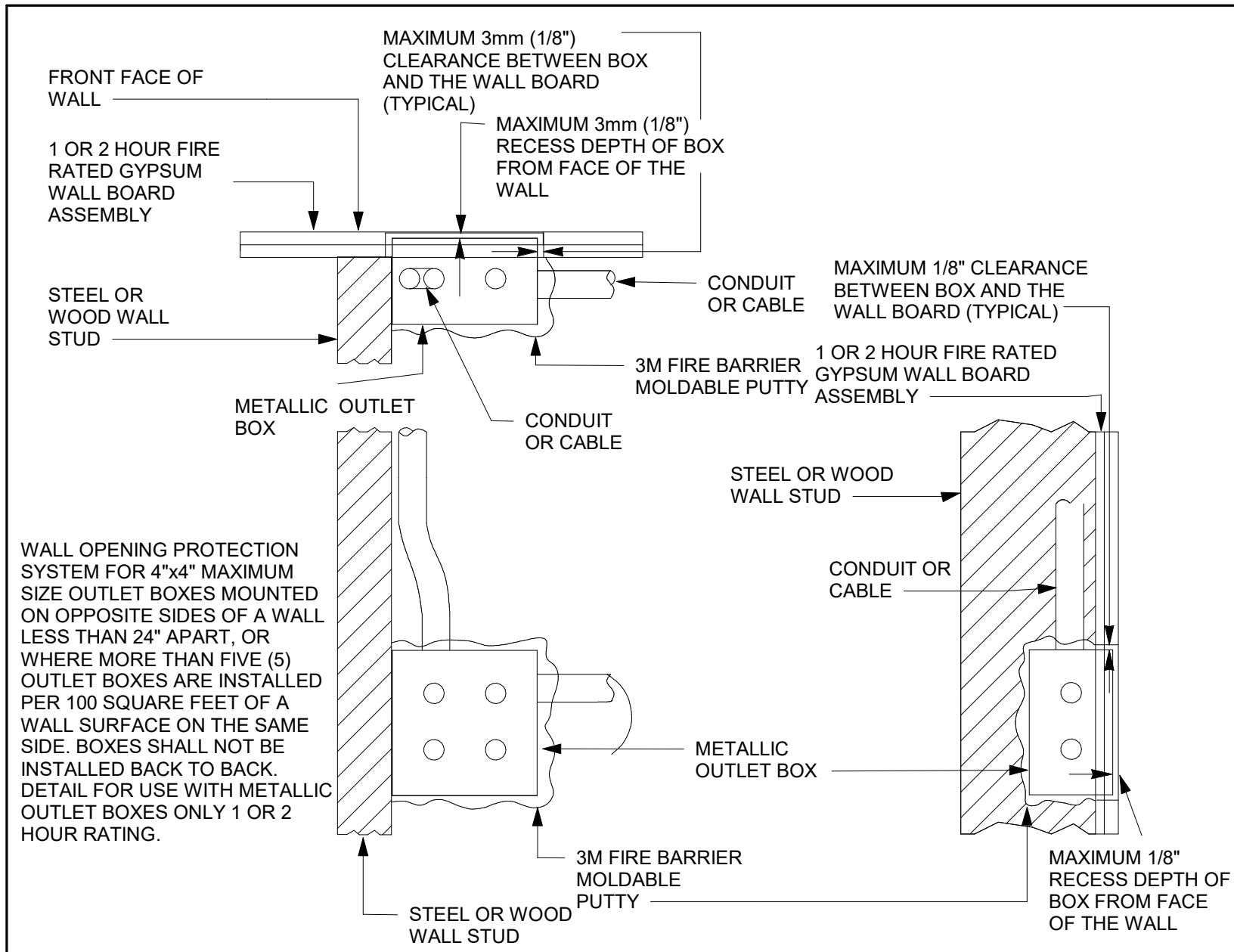
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B4-124-1803

SHEET NAME

ELECTRICAL
DETAILS-1

DRAWINGS NO.

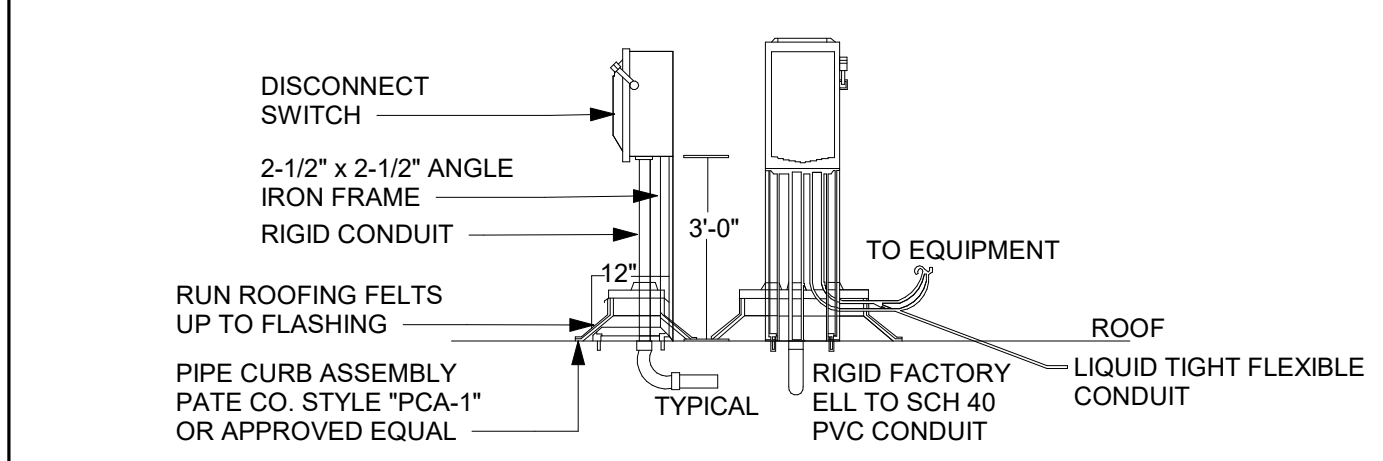
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8 WALL OPENING PROTECTION
NTS

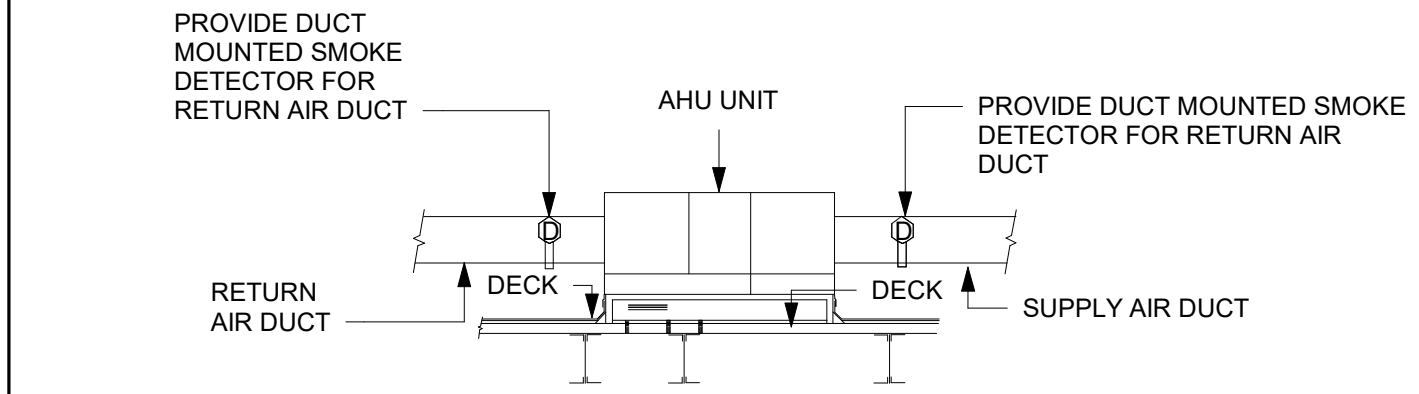
4 OPPOSITE WALLS OUTLET DETAIL
NTS

1 CT CABINET DETAIL
NTS



- NOTES:**
1. WALL ASSEMBLY — THE 1 OR 2 HR FIRE RATED FRAMED GYPSUM BOARD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400, V400, OR W400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - A. STUDS — WALL FRAMING SHALL CONSIST OF STEEL CHANNEL STUDS OR WOOD STUDS. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC. WOOD STUDS TO BE MIN 2 BY 4 IN. (51 BY 102 MM) OR LARGER AND SPACED MAX 16 IN. (406 MM) OC. AN ADDITIONAL FRAMING MEMBER SHALL BE USED TO FORM A SHELF WITHIN THE WALL CAVITY TO SUPPORT THE STEEL BOX (ITEM 2) AND MAT FILL MATERIAL (ITEM 3). THE FRAMED OPENING IS TO BE 1 IN. (25 MM) WIDER THAN THE WIDTH OF THE STEEL BOX.
 - B. GYPSUM BOARD* — THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS AND ORIENTATION SHALL BE, AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. SIZE OF CUTOUT MADE TO ACCOMMODATE STEEL BOX (ITEM 2) IS TO BE 1 IN. (25 MM) WIDER AND 1 IN. (25 MM) HIGHER THAN THE WIDTH AND HEIGHT OF THE STEEL BOX. THE HOURLY F, T, FT, FH AND FTH RATINGS OF THE FIRE STOP SYSTEM ARE EQUAL TO THE HOURLY FIRE RATING OF THE WALL IN WHICH THE FIRE STOP SYSTEM IS INSTALLED.

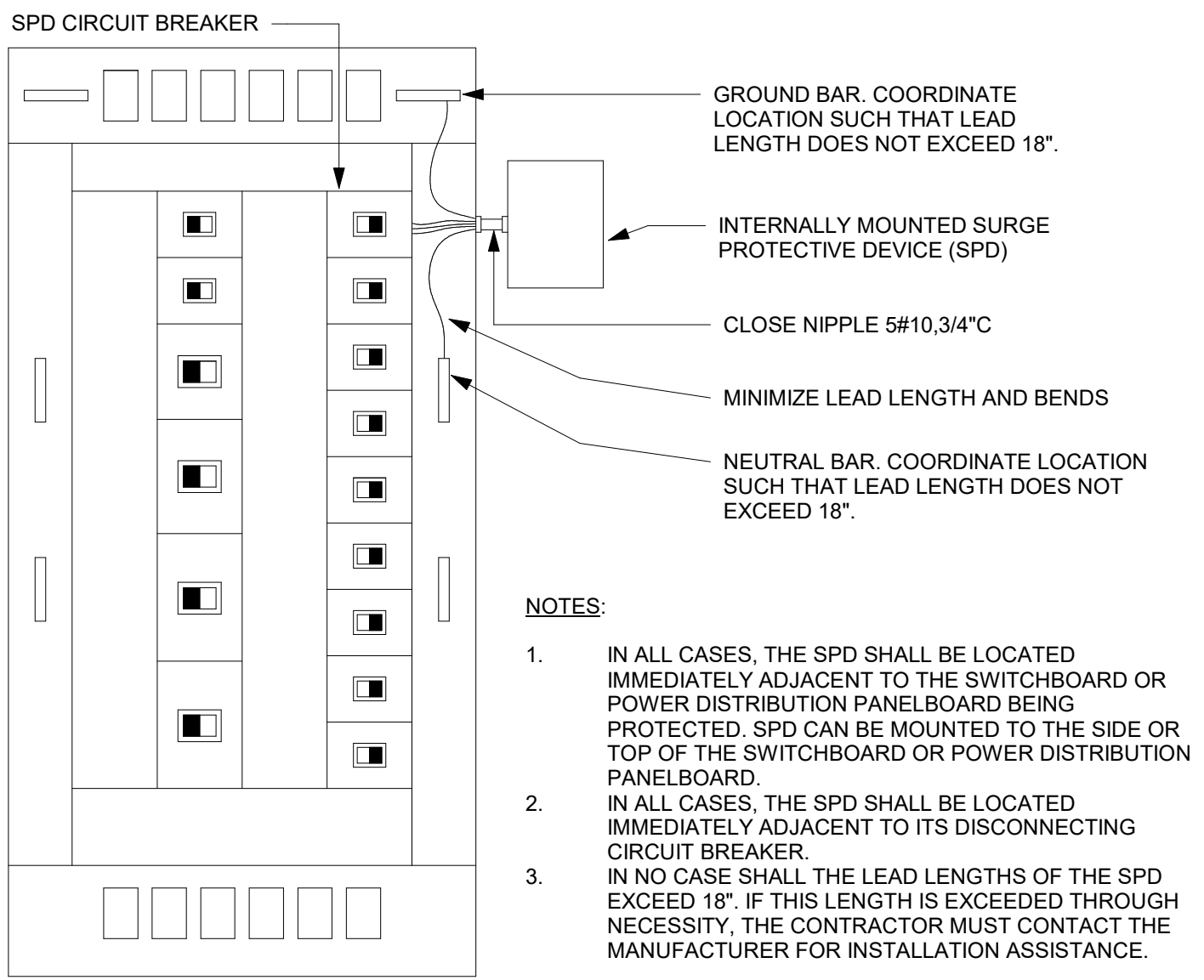
9 MOTOR DISCONNECT DETAILS
NTS



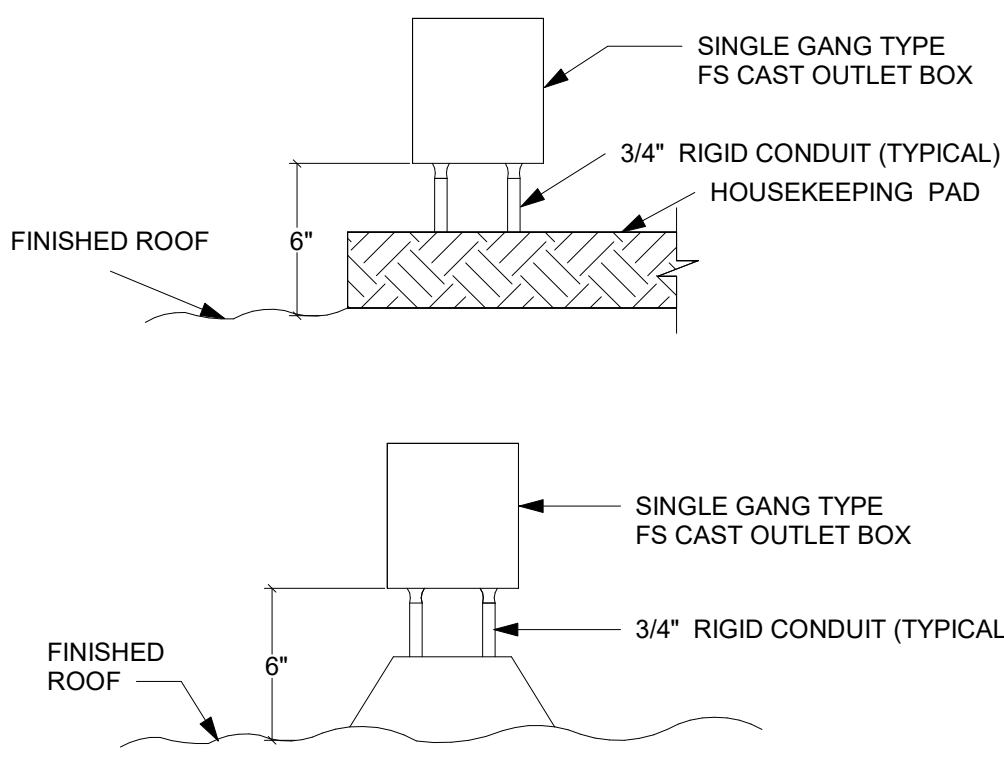
2. STEEL BOX — MAX 19 IN. (483 MM) WIDE BY MAX 32 IN. (813 MM) HIGH BY MAX 3 1/2 IN. (89 MM) DEEP FOR STEEL STUD WALLS. MAX 12 IN. (305 MM) WIDE BY MAX 32 IN. (813 MM) HIGH BY MAX 3 1/2 IN. (89 MM) DEEP FOR WOOD STUD WALLS. BOX TO BE RECESSED BOX WITH HINGED STEEL DOOR AND MOUNTING FLANGE. STEEL BOX SECURED TO STEEL STUDS WITH STEEL SCREWS AFTER APPLICATION OF MAT MATERIAL (ITEM 3) ON EXTERIOR SURFACES OF STEEL BOX. BOTTOM AND/OR TOP OF STEEL BOX MAY BE PENETRATED BY UP TO TWO MAX 1-1/2 IN. (38 MM) DIAM COPPER, STEEL OR IRON PIPES OR TUBES. OPEN PIPES OR TUBES WHICH TERMINATE WITHIN THE BOX SHALL BE SEALED WITH CAULK (ITEM 4) OR PLUGGED WITH A BALL OF PUTTY (ITEM 5).
3. FILL, VOID OR CAVITY MATERIALS* - MAT — NOMINAL 0.4 IN. (10 MM) THICK ALUMINUM FOIL FACED ENDOTHERMIC MAT SUPPLIED IN 24 IN. WIDE ROLLS. INDIVIDUAL PIECES OF MAT CUT TO COVER FOUR SIDES AND BACK OF BOX AND LAMINATED TO BOX WITH HIGH STRENGTH, FAST, CONTACT TYPE ADHESIVE (FOIL FACE EXPOSED). THE MAT SECTIONS ON THE TOP AND BOTTOM OF THE BOX SHALL BE CUT TO OVERLAP. THE MAT SECTIONS ON THE SIDES OF THE BOX. THE MAT SECTION ON THE BACK OF THE BOX SHALL BE CUT TO LAP OVER THE EDGE OF THE MAT SECTIONS ON THE TOP, BOTTOM AND VERTICAL SIDES OF BOX. CIRCULAR CUTOUTS MADE IN THE MAT TO ACCOMMODATE THE PIPES OR TUBES TO BE 1/4 IN. TO 1/2 IN. (6 TO 13 MM) LARGER THAN OUTSIDE DIAM OF PIPE OR TUBE. ALL CORNERS AND BUTTED SEAMS IN THE MAT ARE TO BE COVERED WITH MIN 2 MIL ALUMINUM FOIL TAPE.

10 MAKE-UP AIR UNIT DUCT MOUNTED SMOKE DETECTOR DETAIL
NTS

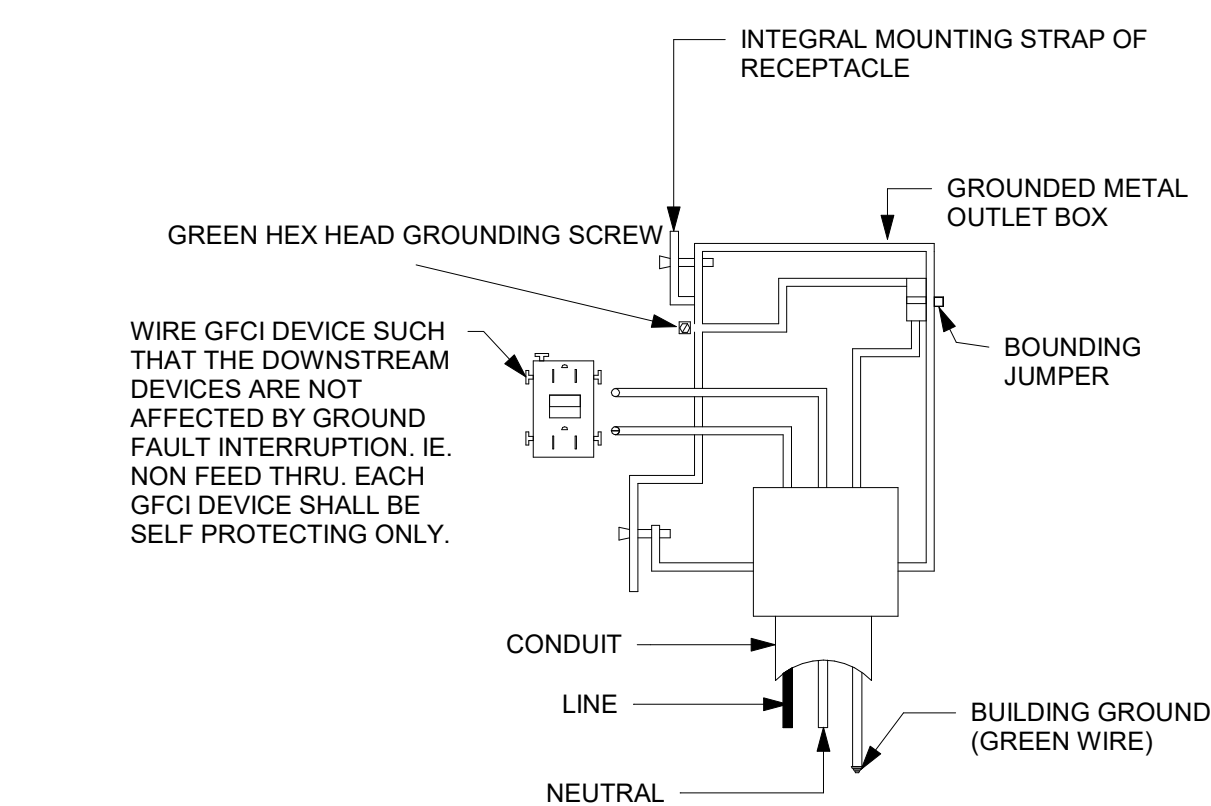
7 FLUSH MOUNTED PANEL BOARD DETAIL
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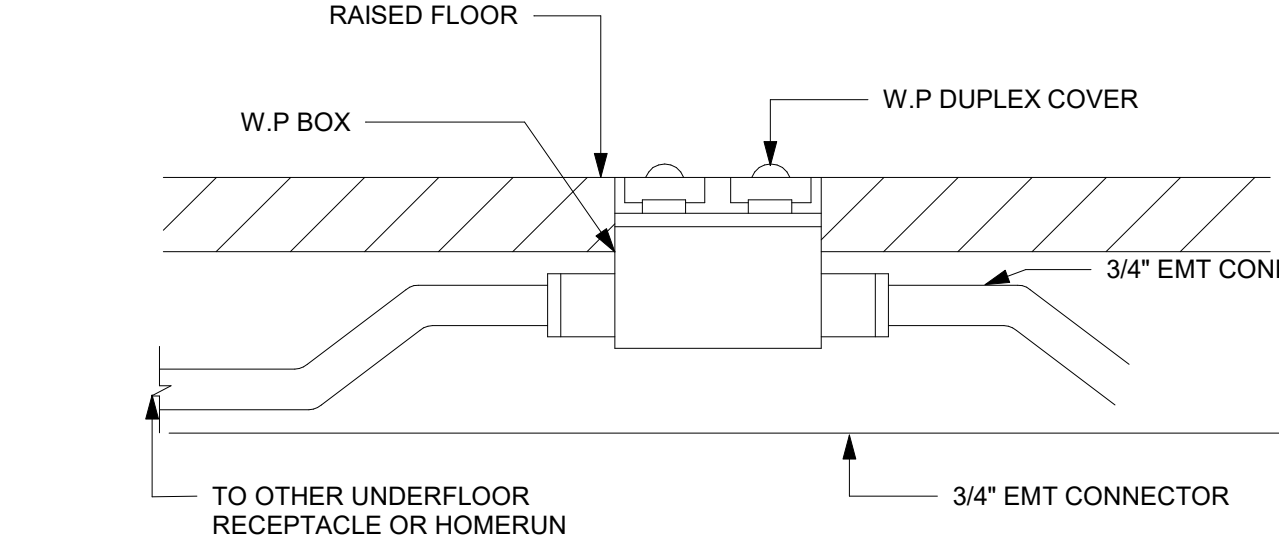
5 SWITCHBOARD SPD INSTALLATION DETAIL
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6 TYPICAL ROOF MOUNTED RECEPTACLE
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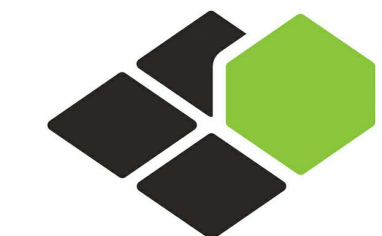


2 GFCI RECEPTACLE - WIRE DIAGRAM
NTS



NOTE:
CONTRACTOR SHALL PROVIDE APPROVE 3M FIRE BARRIER MOLDABLE PUTTY 1 HR. RATED FIRE STOP SYSTEM, IN ACCORDANCE WITH ASTM E814 OR UL 1479 AS PER IBC 714.4.2

3 UNDER FLOOR RECEPTACLE DETAIL
NTS



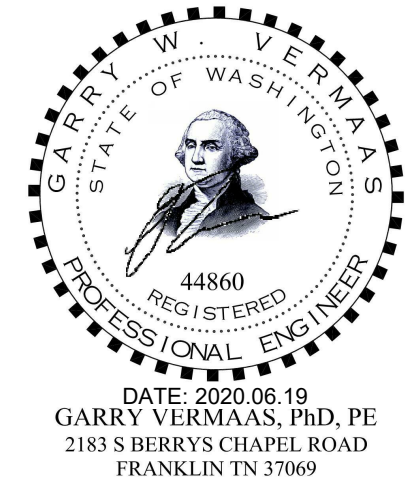
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2901 CLINT MOORE ROAD, #114
BOCA RATON, FLORIDA 33496
888.901.8008 www.base-4.com

RICARDO J. MUNIZ-GUILLET, AIA
5453 NW 106TH DR
CORAL SPRINGS, FL 33076

MEP ENGINEER
GARRY VERMAAS PhD, PE
2183 S BERRYS CHAPEL ROAD
FRANKLIN, TN 37069

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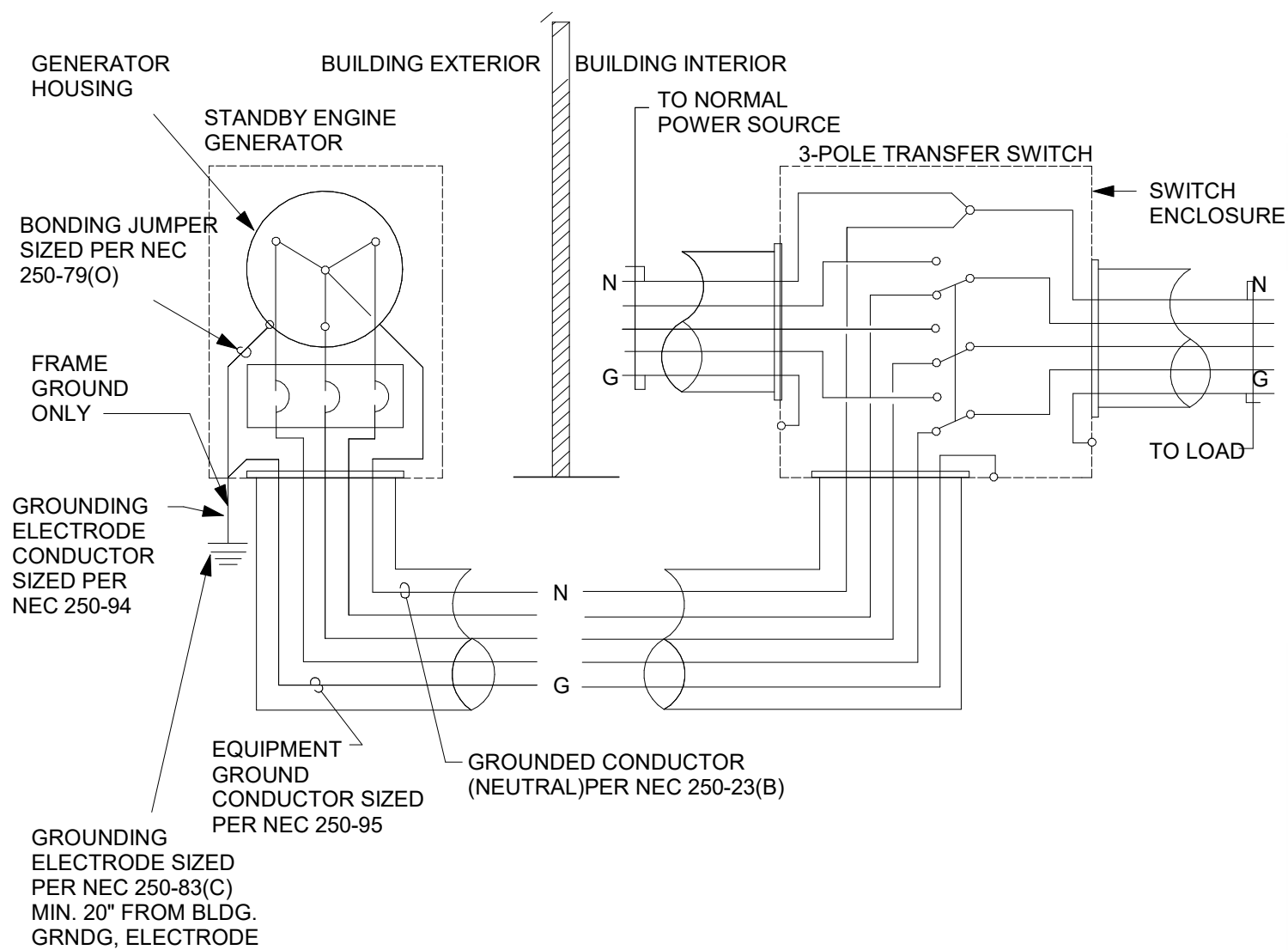
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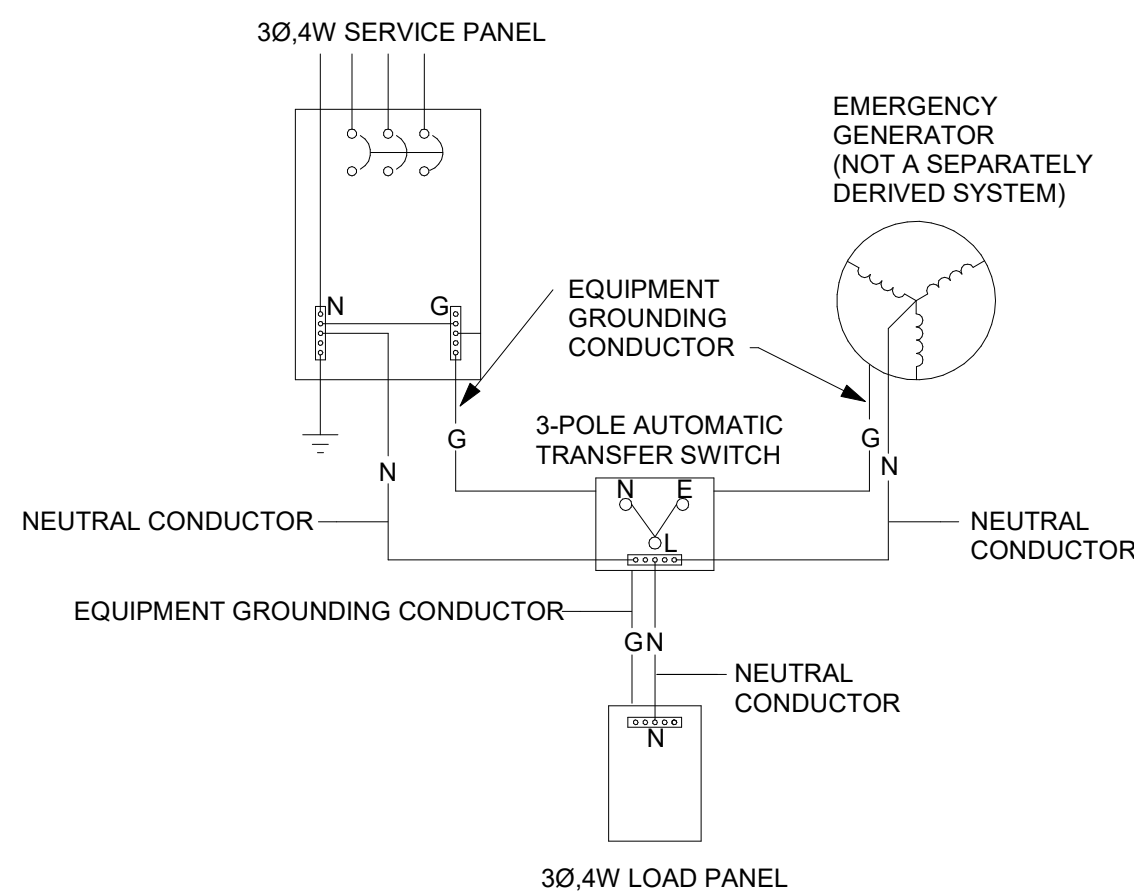
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9 EMERGENCY GENERATOR DETAIL
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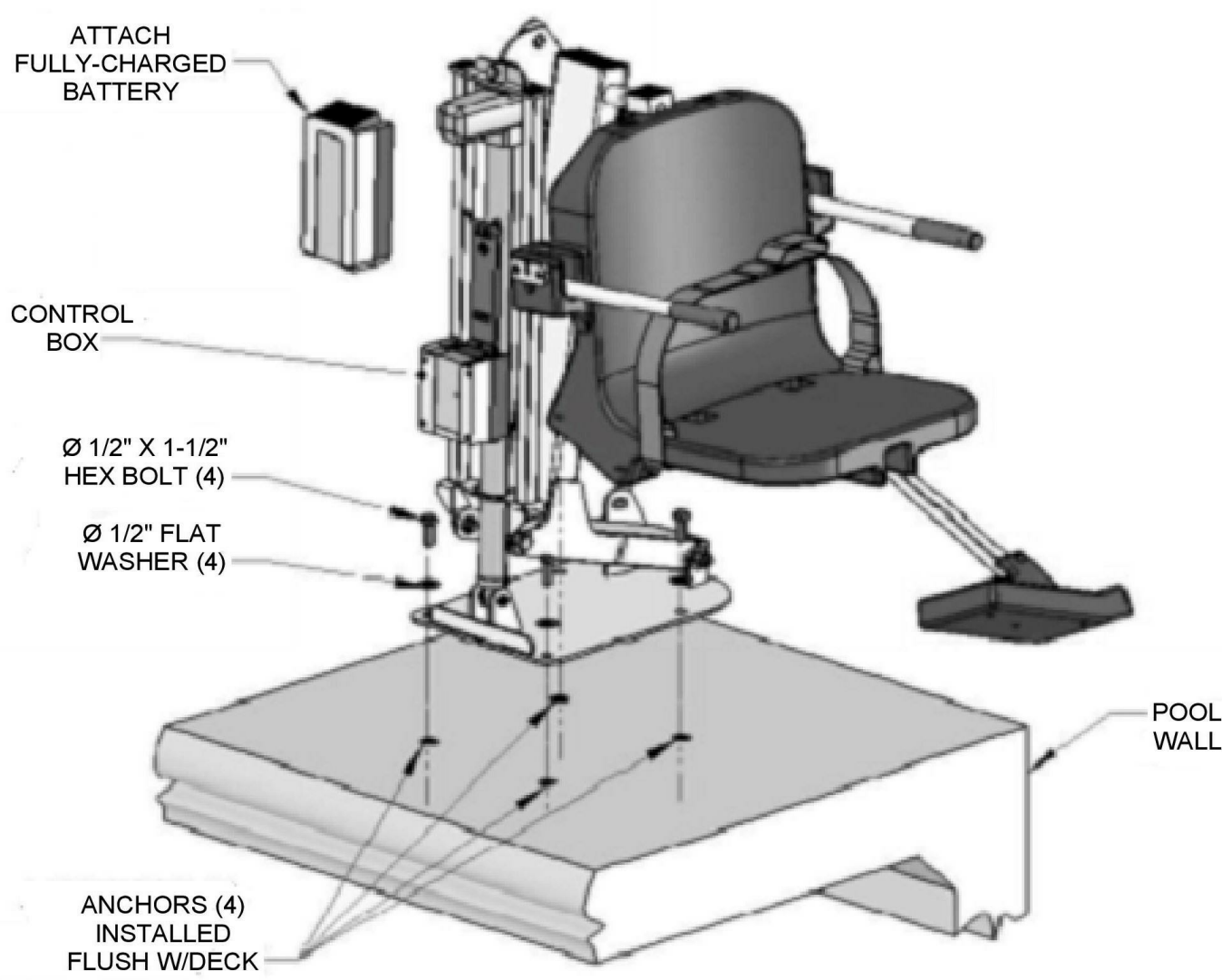


10 ENGINE GENERATOR W/3-POLE TRANSFER SWITCH GROUNDING DETAIL
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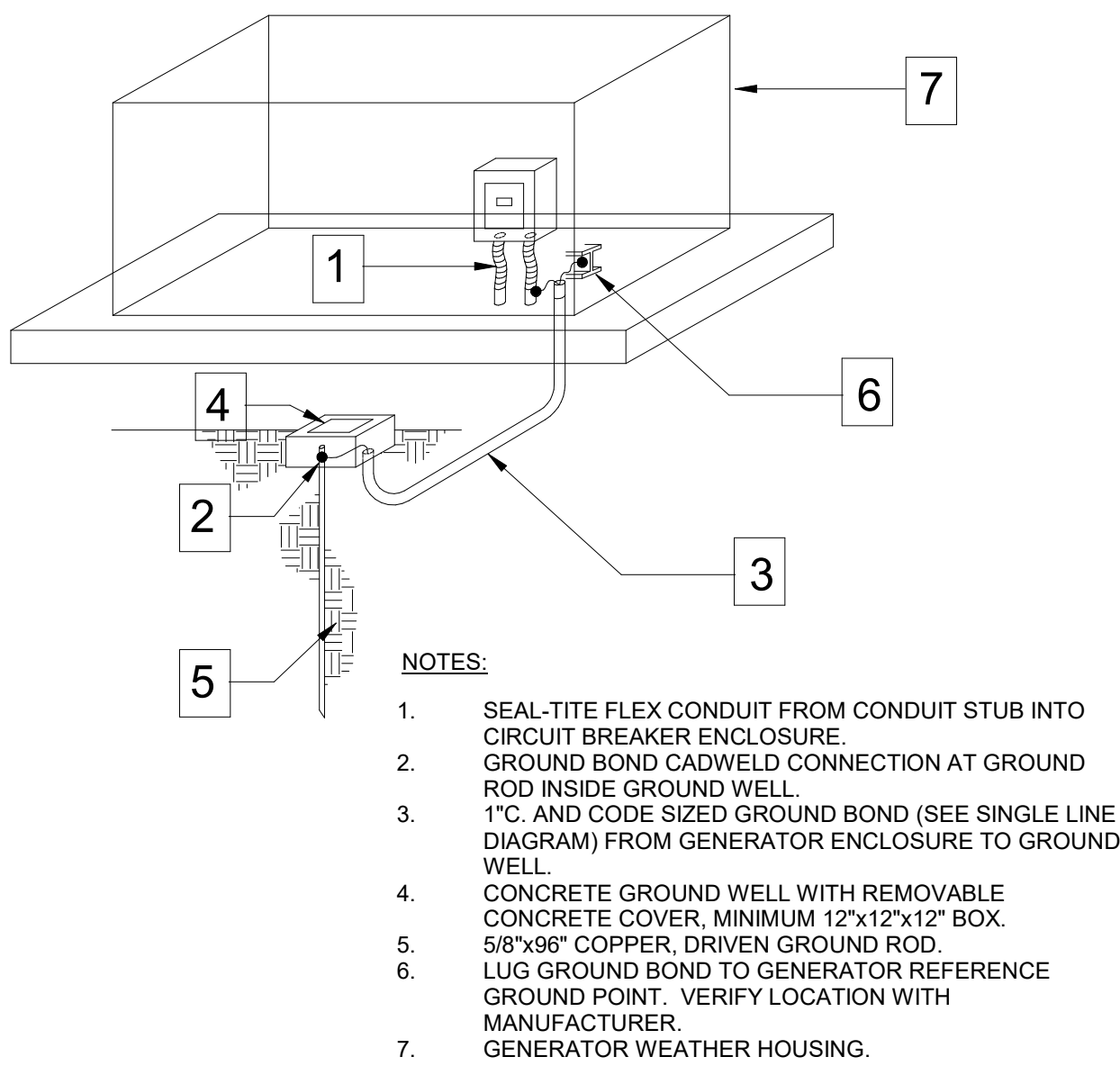


11 3-POLE ATS WIRING DIAGRAM
NTS

6 DUCT MOUNTED SMOKE DETECTOR DETAILS
NTS



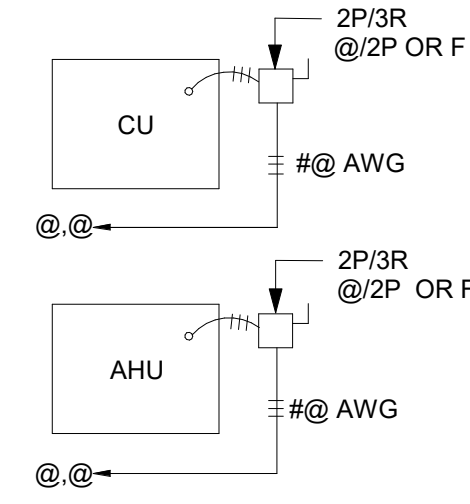
7 POOL LIFT DETAIL
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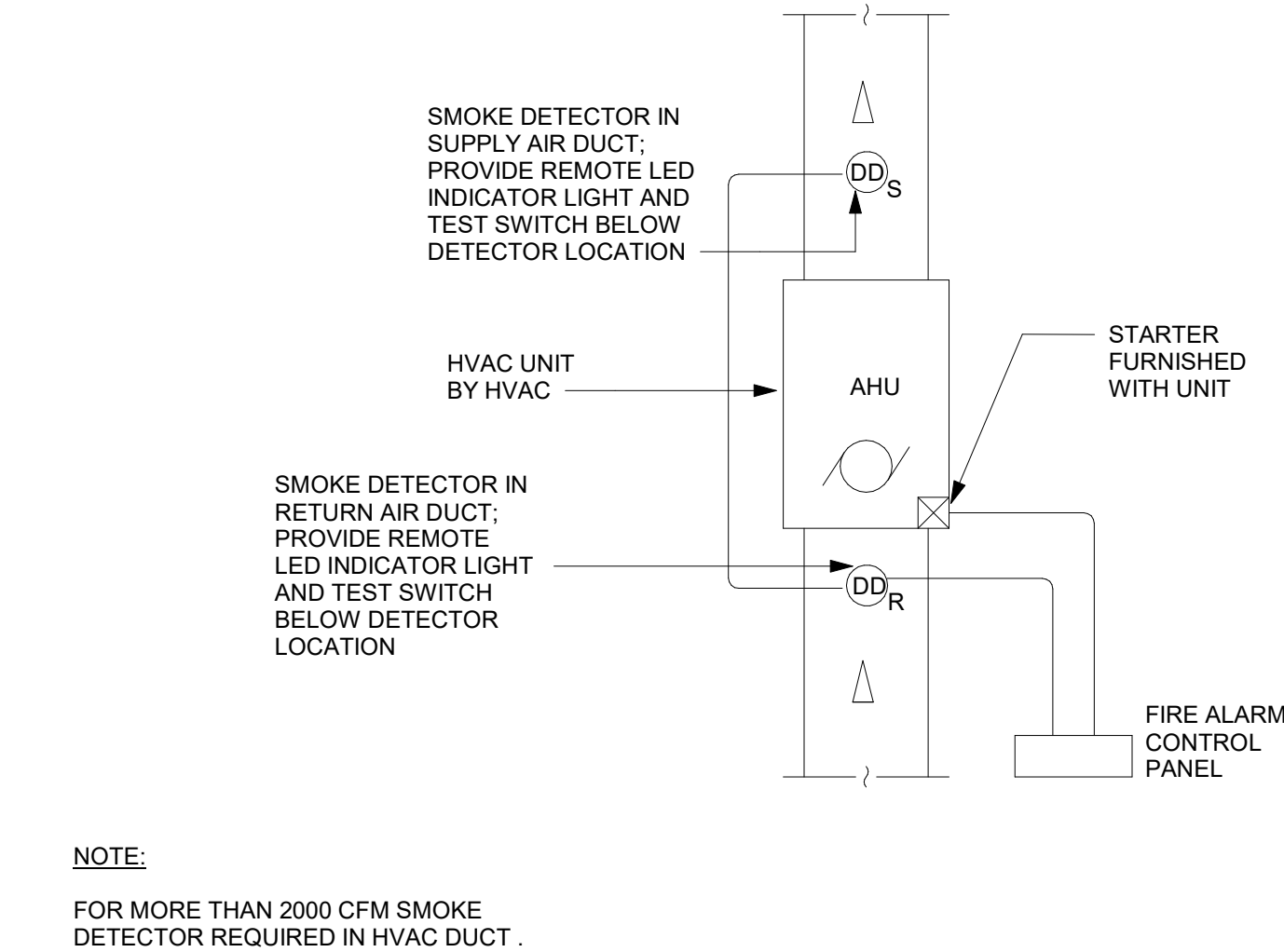
8 GENERATOR GROUNDING DETAIL
NTS

1 DATA/PHONE PROTECTION SYSTEM
NTS

- NOTES:
1. VERIFY NAMEPLATE RATINGS, LOCATIONS AND POINT OF POWER CONNECTIONS PRIOR TO ROUGH-IN. DO NOT LOCATE DISCONNECT SWITCHES OVER UNIT ACCESS PANELS.
 2. PROVIDE A 3/4" EMPTY CONDUIT THROUGH INACCESSIBLE LOCATIONS (I.E. WALLS, UNDER SLAB)
 3. EQUIPMENT REQUIREMENTS ARE FOR MANUFACTURER AND MODEL NUMBER LISTED ON MECHANICAL PLANS. THE MECHANICAL CONTRACTOR SHALL BEAR ANY ADDITIONAL COSTS INCURRED IF ALTERNATE EQUIPMENT IS USED.
 4. ALL MOTOR STARTERS AND/OR COMBINATION STARTERS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
 5. #@ REPRESENTS THE TYPICAL WIRE SIZE AND TO VERIFY WIRE SIZE PER MANUFACTURER NAMEPLATE.
 6. @@ REPRESENTS THE TYPICAL PANEL AND CIRCUIT PER PIECE OF EQUIPMENT.
 7. CONTRACTOR SHALL PROVIDE FUSED DISCONNECTS WHERE AVAILABLE FAULT CURRENT AT EQUIPMENT IS ABOVE 5KA AMPS.

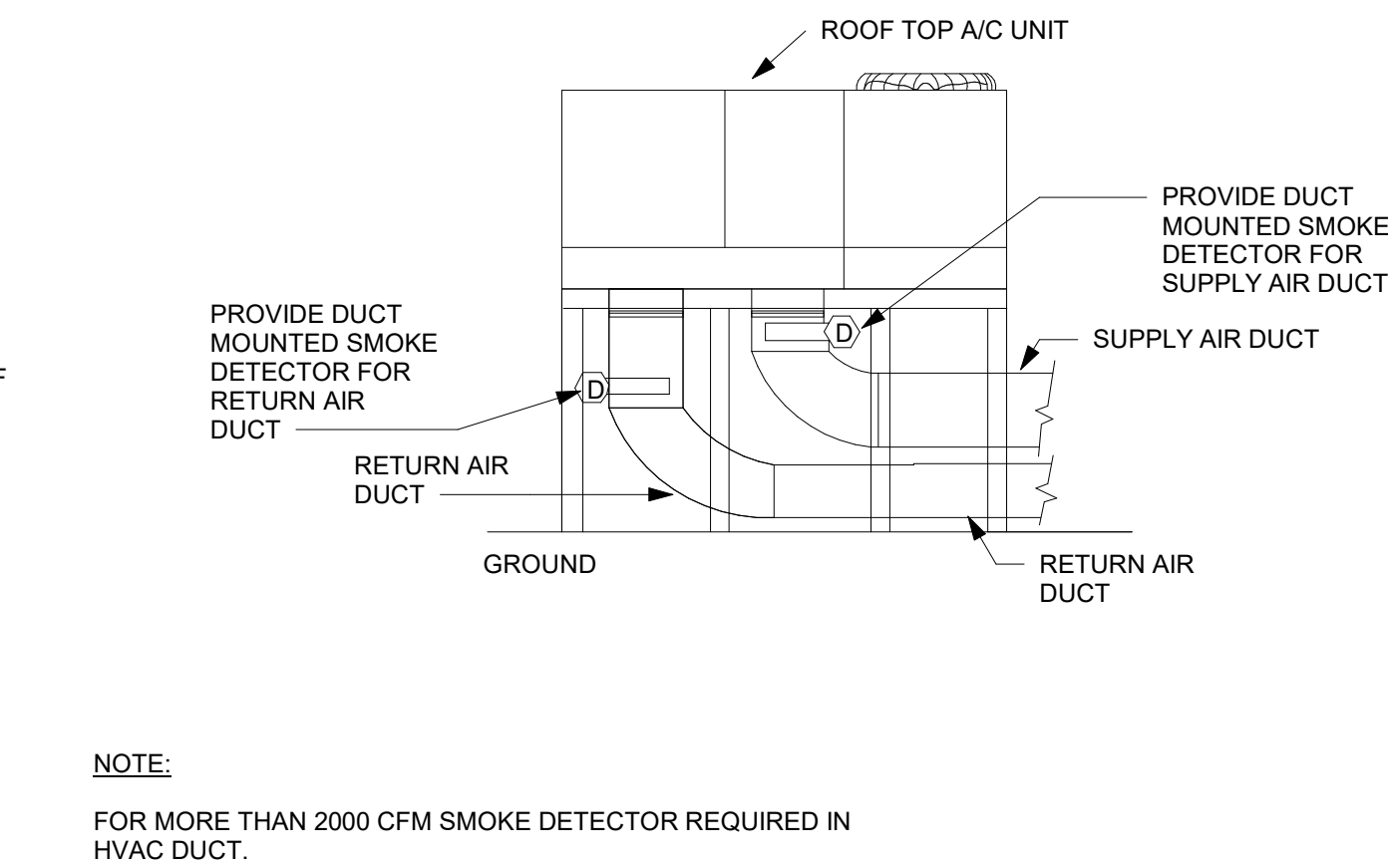


4 WIRING DIAGRAM - HVAC SPLIT SYSTEM.
NTS

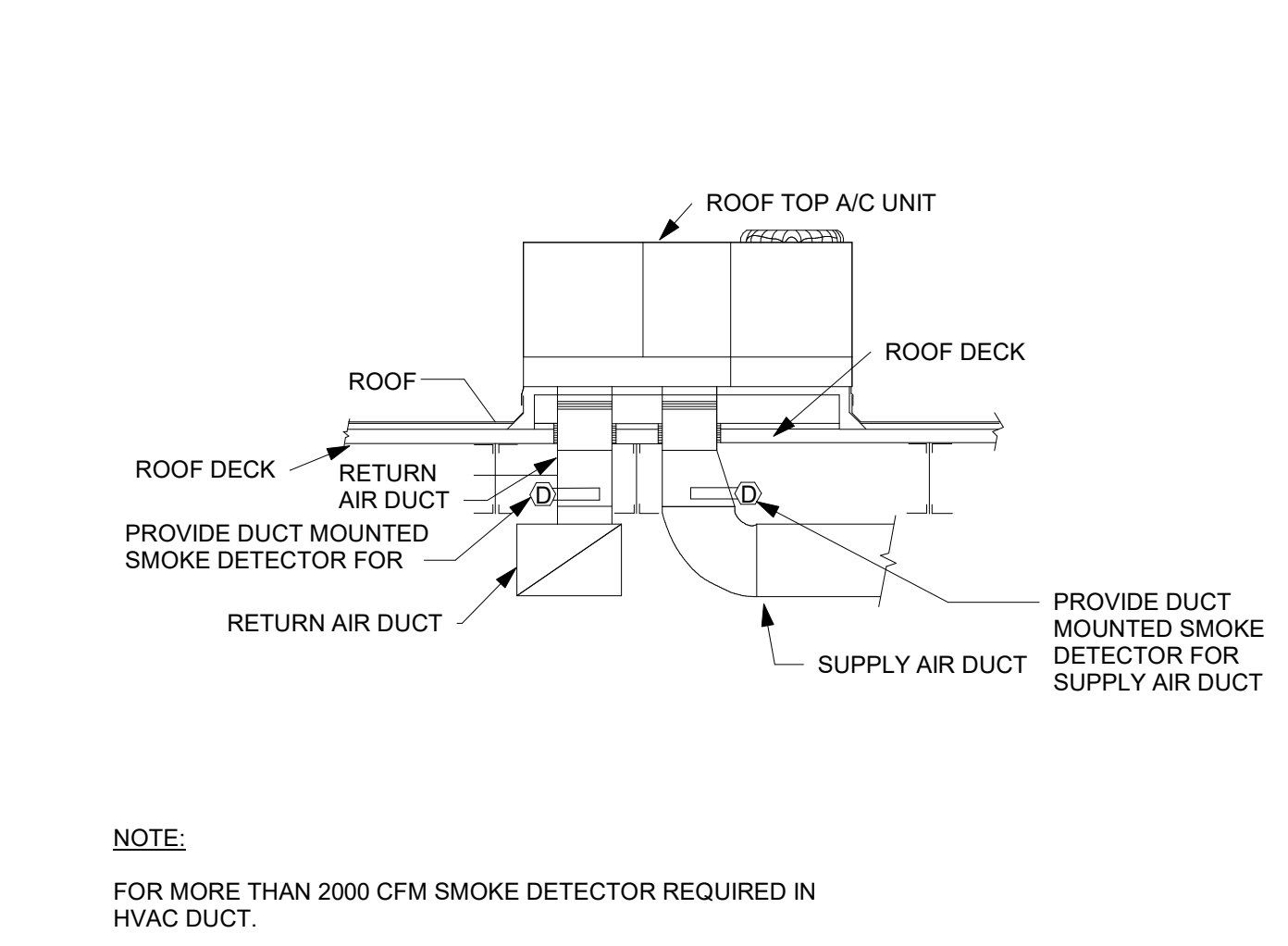


5 WIRING DIAGRAM - HVAC DUCT SMOKE DETECTOR
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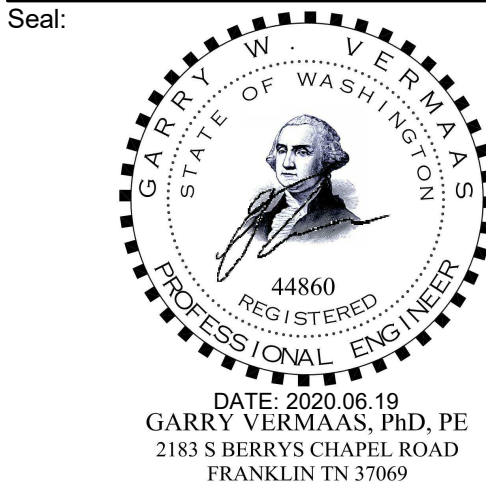
2 AIR HANDLER UNIT DUCT MOUNTED SMOKE DETECTOR DETAIL
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3 ROOF TOP UNIT DUCT MOUNTED SMOKE DETECTOR DETAIL
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BASE4
2901 CLINT MOORE ROAD, #114
BOCA RATON, FLORIDA 33496
888.901.8008 www.base-4.com
RICARDO J. MUNIZ-GUILLET, AIA
5453 NW 106TH DR
CORAL SPRINGS, FL 33076
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GARRY VERMAAS PhD, PE
2183 S BERRYS CHAPEL ROAD
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DLG
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4500 36TH AVE. S SUITE
200, FARGO, ND 58104
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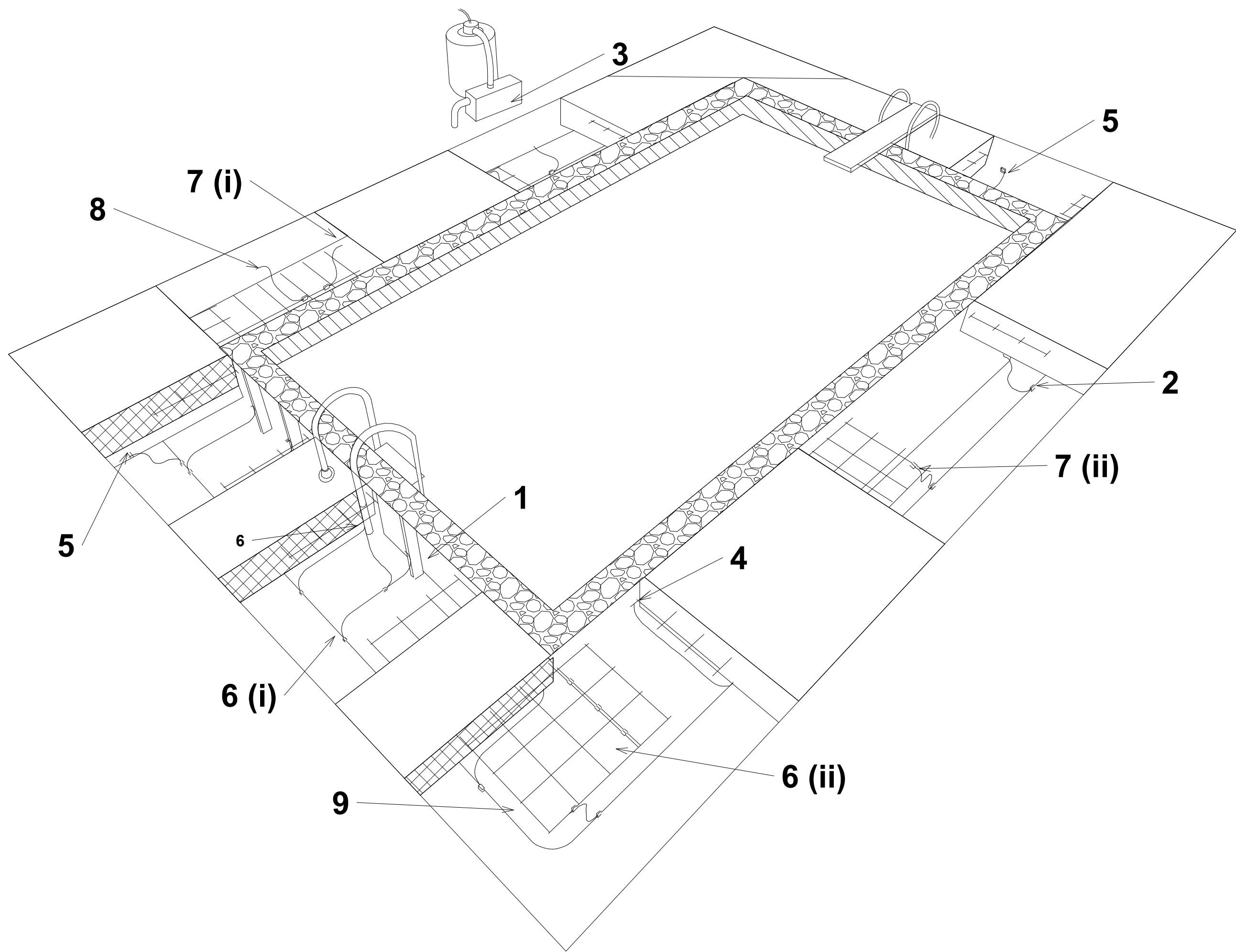
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ELECTRICAL
DETAILS-3

DRAWINGS NO.

E-103



TECHNICAL NOTES:

• 680.26 Equipotential Bonding* (Summarized)

(A) Performance:

The equipotential bonding required by this section shall be installed to reduce voltage gradients in the pool area.

(B) Bonded Parts:

The parts specified in 680.26(B)(1) through (B)(7) shall be bonded together using solid copper conductors,insulated covered, or bare, not smaller than 8 AWG or with rigid metal conduit of brass or other identified corrosion-resistant metal.Connections to bonded parts shall be made in accordance with 250.8**. An 8 AWG or larger solid copper bonding conductor provided to reduce voltage gradients in the pool area shall not be required to be extended or attached to remote panelboards, service equipment, or electrodes.

(1) Conductive Pool Shells:

Bonding to conductive pool shells shall be provided as specified in 680.26(B)(1)(a) or (B)(1)(b). Poured concrete, pneumatically applied or sprayed concrete, and concrete block with painted or plastered coatings shall all be considered conductive materials due to water permeability and porosity. Vinyl liners and fiberglass composite shells shall be considered to be nonconductive materials.

(a) Structural Reinforcing Steel:

Unencapsulated structural reinforcing steel shall be bonded together by steel tie wires or the equivalent. Where structural reinforcing steel is encapsulated in a nonconductive compound, a copper conductor grid shall be installed in accordance with 680.26(B)(1)(b).

(b) Copper Conductor Grid:

A copper conductor grid shall be provided and shall comply with (b)(1) through (b) (4).

- (1) Be constructed of minimum 8 AWG bare solid copper conductors bonded to each other at all points of crossing. The bonding shall be in accordance with 250.8 or approved means.
- (2) Conform to the contour of the pool.
- (3) Be arranged in a 300 mm (12 in.) by 300 mm (12 in.) network of conductors in a uniformly spaced perpendicular grid pattern with a tolerance of 100 mm (4 in.).
- (4) Be secured within or under the pool no more than 150 mm (6 in.) from the outer contour of the pool shell.

(2) Perimeter Surfaces:

The perimeter surface shall extend for 1 m (3 ft.) horizontally beyond the inside walls of the pool and shall include unpaved surfaces as well as poured concrete surfaces and other types of paving. Perimeter surfaces less than 1 m (3 ft.) separated by a permanent wall or building 1.5 m (5 ft.) in height or more shall require equipotential bonding on the pool side of the permanent wall or building. Bonding to perimeter surfaces shall be provided as specified in 680.26(B)(2)(a) or (2)(b) and shall be attached to the pool reinforcing steel or copper conductor grid at a minimum of four (4) points uniformly spaced around the perimeter of the pool.

For nonconductive pool shells, bonding at four points shall not be required.

- (a) Structural Reinforcing Steel. Structural reinforcing steel shall be bonded in accordance with 680.26(B)(1)(a).
- (b) Alternate Means. Where structural reinforcing steel is not available or is encapsulated in a nonconductive compound, a copper conductor(s) shall be utilized where the following requirements are met:
 - (1) At least one minimum 8 AWG bare solid copper conductor shall be provided.
 - (2) The conductors shall follow the contour of the perimeter surface.
 - (3) Only listed splices shall be permitted.
 - (4) The required conductor shall be 450 to 600 mm (18 in. to 24 in.) from the inside walls of the pool.
 - (5) The required conductor shall be secured within or under the perimeter surface 100 to 150 mm (4 in. to 6 in.) below the subgrade.

(3) Metallic Components:

All metallic parts of the pool structure, including reinforcing metal not addressed in 680.26(B)(1)(a) shall be bonded. Where reinforcing steel is encapsulated with a nonconductive compound, the reinforcing steel shall not be required to be bonded.

(4) Underwater Lighting.

(5) Metal Fittings.

(6) Electrical Equipment.

(7) Fixed Metal Parts:

All fixed metal parts shall be bonded including, but not limited to, metal-sheathed cables and raceways,metal piping, metal awnings, metal fences, and metal door and window frames.

Exception No 1:

Those separated from the pool by a permanent barrier that prevents contact by a person shall not be required to be bonded.

Exception No 2:

Those greater than 1.5 m (5 ft.) horizontally from the inside walls of the pool shall not be required to be bonded.

Exception No 3:

Those greater than 3.7 m (12 ft.) measured vertically above the maximum water level of the pool, or as measured vertically above any observation stands, towers, or platforms, or any diving structures, shall not be required to be bonded.

(C) Pool Water.

Where none of the bonded parts is in direct connection with the pool water, the pool water shall be in direct contact with an approved corrosion-resistant conductive surface that exposes not less than 5800 mm2 (9 in.2) of surface area to the pool water at all times. The conductive surface shall be located where it is not exposed to physical damage or dislodgement during usual pool activities,and it shall be bonded in accordance with 680.26(B).

• 250.8 Connection of Grounding and Bonding Equipment**

(A) Permitted Methods:

Equipment grounding conductors, grounding electrodes conductors, and bonding jumpers shall be connected by one or more of the following means:

- (1) Listed pressure connectors
- (2) Terminal bars
- (3) Pressure connectors listed as grounding and bonding equipment
- (4) Exothermic welding process
- (5) Machine screw-type fasteners that engage not less than two threads or are secured with a nut.
- (6) Thread-forming machine screws that engage not less than two threads in the enclosure
- (7) Connections that are part of a listed assembly
- (8) Other listed means

(B) Methods Not Permitted:

Connection devices or fittings that depend solely on solder shall not be used.

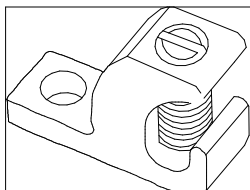
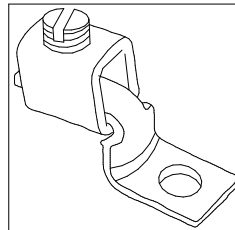
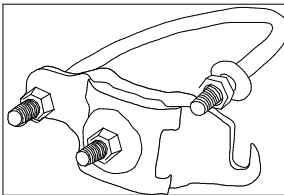
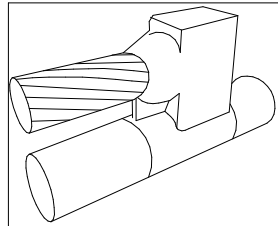
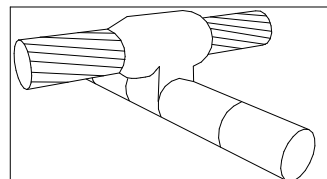
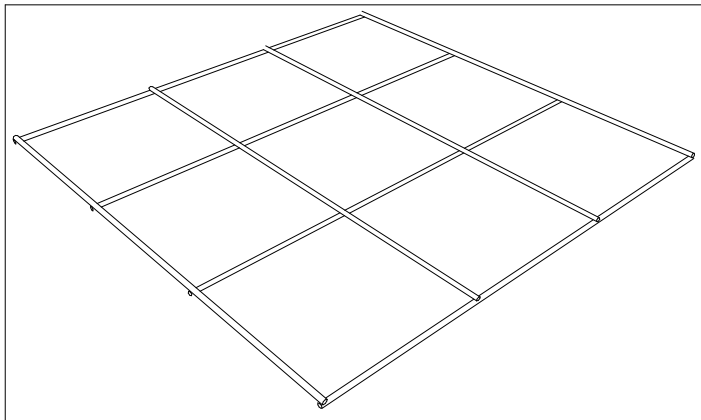
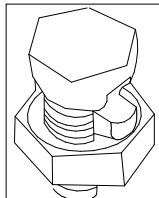
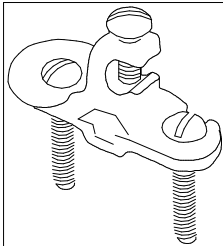
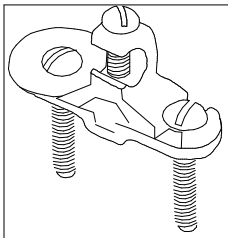
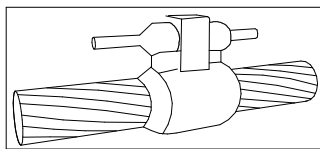
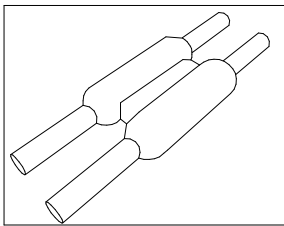
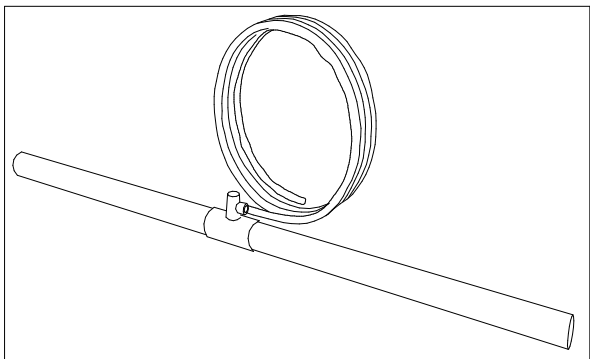
* NEC 2017 Equipotential Bonding Article 680.26

**NEC 2017 Connection of Grounding and Bonding Equipment Article 250.8

GENERAL NOTES:

(1) FINAL POOL DRAWING SUBMITTED BY POOL VENDOR FOR CITY REVIEW BEFORE CONSTRUCTION.

(2) POOL VENDOR SHALL PROVIDE EQUIPOTENTIAL BONDING DETAILS FOR THE SWIMMING POOL AS REQUIRED PER ARTICLE 680.26, 2017 NEC

 Detail-1 <table><tr><th>Conductor Range (AWG)</th><th>Bolt Hole Size</th></tr><tr><td>4 - 14</td><td>#10</td></tr></table> • Suitable for direct burial.	Conductor Range (AWG)	Bolt Hole Size	4 - 14	#10	 Detail-3 <table><tr><th>Conductor Range (AWG)</th><th>Bolt Hole Size</th></tr><tr><td>14 Str. - 6 Str.</td><td>#8</td></tr></table> • Not suitable for direct burial.	Conductor Range (AWG)	Bolt Hole Size	14 Str. - 6 Str.	#8	 Detail-5 <table><tr><th>Material</th><th>Nom. Pipe Size Range</th><th>Pipe Outside Diameter</th></tr><tr><td>Tinned Bronze</td><td>1.5" - 2"</td><td>1" - 2.4"</td></tr><tr><td>Tinned Bronze</td><td>2.5" - 3"</td><td>2.25" - 3.5"</td></tr></table> • Suitable for direct burial. • Other sizes available. • Conductor Range #6 - 250 MCM.	Material	Nom. Pipe Size Range	Pipe Outside Diameter	Tinned Bronze	1.5" - 2"	1" - 2.4"	Tinned Bronze	2.5" - 3"	2.25" - 3.5"	 Detail-7(i)RP  Detail-7(ii)RO <table><tr><th colspan="2">Weld Metal</th><th rowspan="2">Required Handle</th><th rowspan="2">Packing Mat'l No.</th></tr><tr><th>UltraShot</th><th>NUWTUBE</th></tr><tr><td>US25</td><td>NUWTUBE25</td><td>MH1</td><td>WRPSLV</td></tr><tr><td>US25</td><td>NUWTUBE25</td><td>Included</td><td>CERPM1</td></tr><tr><td>US65</td><td>NUWTUBE65</td><td>MH1</td><td>WRPSLV</td></tr><tr><td>US65</td><td>NUWTUBE65</td><td>MH1</td><td>WRPSLV</td></tr><tr><td>US65</td><td>NUWTUBE65</td><td>MH1</td><td>WRPSLV</td></tr></table>	Weld Metal		Required Handle	Packing Mat'l No.	UltraShot	NUWTUBE	US25	NUWTUBE25	MH1	WRPSLV	US25	NUWTUBE25	Included	CERPM1	US65	NUWTUBE65	MH1	WRPSLV	US65	NUWTUBE65	MH1	WRPSLV	US65	NUWTUBE65	MH1	WRPSLV	 Detail-9 <table><tr><th>Width (ft.)</th><th>Length (ft.)</th><th>Conductor Spacing (in.)</th><th>Approx. Wt. (lbs.)</th></tr><tr><td>3</td><td>50</td><td>12</td><td>32</td></tr><tr><td>3</td><td>75</td><td>12</td><td>42</td></tr><tr><td>3</td><td>100</td><td>12</td><td>51</td></tr></table> • Other mesh sizes and wire gauges available.	Width (ft.)	Length (ft.)	Conductor Spacing (in.)	Approx. Wt. (lbs.)	3	50	12	32	3	75	12	42	3	100	12	51
Conductor Range (AWG)	Bolt Hole Size																																																														
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3	75	12	42																																																												
3	100	12	51																																																												
1One-Hole Tinned Copper Lay-In Lug	3Copper Offset Terminal Lug	5CPC Pipe Clamps	7Cable to Rebar Ultraweld Exothermic Connection Molds	9UL Listed Prefabricated #8 Solid Copper Ground Mesh																																																											
 Detail-2 <table><tr><th>Range for Equal Main (AWG)</th><th>Minimum Tap</th></tr><tr><td>4 Sol. - 8 Sol.</td><td>16 Sol.</td></tr></table> • Suitable for direct burial.	Range for Equal Main (AWG)	Minimum Tap	4 Sol. - 8 Sol.	16 Sol.	 Detail-4(i) RB12A  Detail-4(ii) RB12B <table><tr><th>Pipe & Rebar Range</th><th>Conductor Range (AWG)</th></tr><tr><td>3/8" - 1"</td><td>10 Sol. - 2 Str.</td></tr><tr><td>3/8" - 1"</td><td>10 Sol. - 2 Str.</td></tr></table> • Suitable for direct burial.	Pipe & Rebar Range	Conductor Range (AWG)	3/8" - 1"	10 Sol. - 2 Str.	3/8" - 1"	10 Sol. - 2 Str.	 Detail-6(i) PT  Detail-6(ii) PS <table><tr><th colspan="2">Weld Metal</th><th rowspan="2">Required Handle</th></tr><tr><th>UltraShot</th><th>NUWTUBE</th></tr><tr><td>US25</td><td>NUWTUBE25</td><td>MH1</td></tr><tr><td>US25</td><td>NUWTUBE25</td><td>MH3 (Included)</td></tr><tr><td>US25</td><td>NUWTUBE25</td><td>MH3 (Included)</td></tr></table>	Weld Metal		Required Handle	UltraShot	NUWTUBE	US25	NUWTUBE25	MH1	US25	NUWTUBE25	MH3 (Included)	US25	NUWTUBE25	MH3 (Included)	 Detail-8 <table><tr><th>Rebar Size</th><th>Conductor Type (AWG)</th><th>Conductor Length (ft.)</th></tr><tr><td>3</td><td>8 Sol.</td><td>5</td></tr></table> • Prefabricated rebar grounding assembly with exothermically welded connection. • Standard 24" long rebar. • Can be wire tied or welded to rebar cage prior to concrete pour.	Rebar Size	Conductor Type (AWG)	Conductor Length (ft.)	3	8 Sol.	5	NOT IN USE																													
Range for Equal Main (AWG)	Minimum Tap																																																														
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Rebar Size	Conductor Type (AWG)	Conductor Length (ft.)																																																													
3	8 Sol.	5																																																													
2Copper Split Bolt	4Rebar & Water Pipe Ground Clamps	6Cable to Cable Ultraweld Exothermic Connection Molds	8Rebar Grounding Assembly																																																												



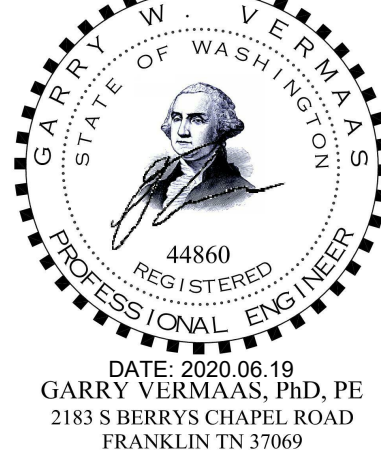
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2901 CLINT MOORE ROAD, #114
BOCA RATON, FLORIDA 33496
888.901.8008 www.base-4.com

RICARDO J. MUNIZ-GUILLET,AIA
5453 NW 106TH DR
CORAL SPRINGS, FL 33076

MEP ENGINEER
GARRY VERMAAS PhD, PE
2183 S BERRYS CHAPEL ROAD
FRANKLIN, TN 37069

Seal:



Owner:



3500 S MERIDIAN, PUYALLUP, WA 98373

PROTOTYPE VERSION: V9.2 2014 FEB

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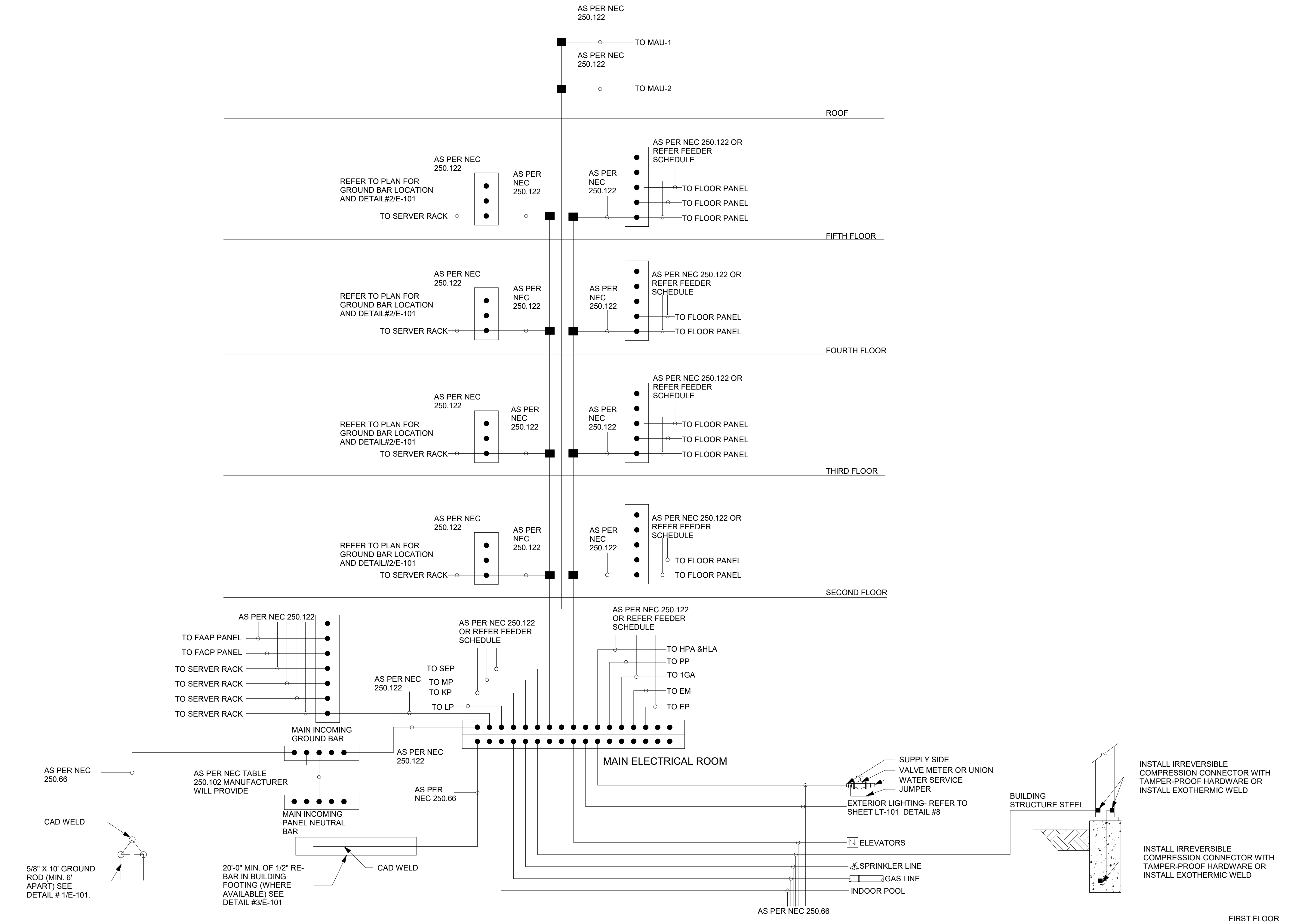
B4-124-1803

SHEET NAME

POOL GROUNDING
DETAILS

DRAWINGS NO.

E-104



NOTE: GROUNDING RISER IS ONLY FOR REFERENCE PURPOSE.

1 GROUNDING RISER DIAGRAM
NTS



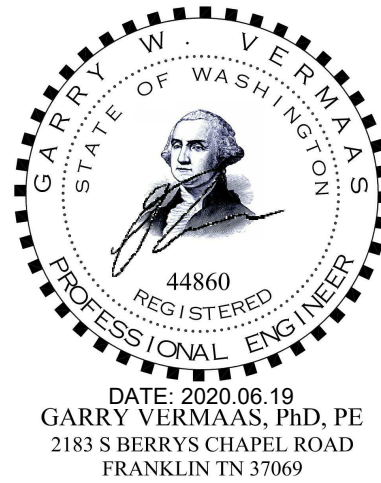
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BOCA RATON, FLORIDA 33496
888.901.8008 www.base-4.com

RICARDO J. MUNIZ-GUILLET, AIA
5453 NW 106TH DR
CORAL SPRINGS, FL 33076

MEP ENGINEER
GARRY VERMAAS PhD, PE
2183 S BERRYS CHAPEL ROAD
FRANKLIN, TN 37069

Seal:



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SHEET NAME

ELECTRICAL
GROUNDING
DETAILS

DRAWINGS NO.

E-105



1. ALL WIRING IS TO BE #12 AWG AND #12 AWG GROUND MINIMUM THHN/THWN (90 DEG. C) IN 1" SCHEDULE 40 PVC (MINIMUM SIZE). TRENCH 30" DEEP. CLEAN BACKFILL USING SITE MATERIALS CAN BE USED. PROVIDE PREMIUM BACKFILL WHERE SITE MATERIALS ARE NOT ACCEPTABLE FOR USE.
2. ALL CONDUIT ENTRIES TO THE BUILDING SHALL PITCH AWAY FROM BUILDING WALLS. SEAL PENETRATIONS TIGHT WITH LINK-SEAL PIPE SEALS OR APPROVED EQUIVALENT.
3. PROVIDE WARNING TAPE ABOVE ALL ELECTRICAL CIRCUITS. WARNING TAPE FOR SITE LIGHTING CIRCUITS TO BE 8" BELOW GRADE, 3" WIDE, RED WITH ELECTRICAL WARNING.
4. CUT AND PATCH EXISTING PAVING AS REQUIRED FOR THE INSTALLATION OF NEW WIRING WHERE PAVING EXISTS.
5. PROVIDE INTERMATIC ASTRONOMIC TIMECLOCK TO CONTROL ALL BUILDING SIGNAGE CIRCUITS AND BUILDING SIGNAGE CIRCUITS. CIRCUITS SHALL HAVE THE ABILITY TO BE INDIVIDUALLY CONTROLLED AND PROGRAMMED BY THE TIMECLOCK. TIMECLOCK TO BE INSTALLED IN THE MAIN ELECTRICAL ROOM.

MINIMUM WIRE & CONDUIT SIZES FOR CIRCUIT BREAKERS AND FUSES		
AMPS	CONDUCTOR	GROUND
15	#12	#12
20	#12	#12
25	#10	#10
30	#10	#10
35	#8	#10
40	#8	#10
45	#8	#10
50	#8	#10
60	#6	#10
70	#4	#8
80	#4	#8
90	#3	#8
100	#3	#8

PROVIDE THE FOLLOWING QUANTITIES:
 1 POLE CIRCUIT - 1 HOT, 1 NEUTRAL, 1 GROUND
 2 POLE CIRCUIT - 2 HOT, 1 GROUND
 3 POLE CIRCUIT - 3 HOT, 1 GROUND
 1 POLE IG CIRCUIT - 1 HOT, 1NEUTRAL,
 1 GROUND. 1 ISOLATED GROUND

208 VOLT BRANCH CIRCUITS UP TO 3.4 AMPS			
RUN DISTANCE IN FEET		WIRE SIZE AWG	
1'	-	525'	#12
208 VOLT BRANCH CIRCUITS UP TO 4.5 AMPS			
RUN DISTANCE IN FEET		WIRE SIZE AWG	
1'	-	400'	#12
401'	-	667'	#10

1'	-	230'	#12
231'	-	383'	#10
384'	-	589'	#8

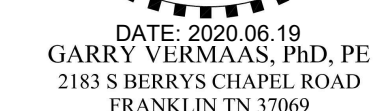
1'	-	85'	#12
86'	-	141'	#10
142'	-	217'	#8
218'	-	346'	#6

WIRE SIZES INDICATED IN PANEL SCHEDULES ARE MINIMUM WIRE SIZES. CONTRACTOR SHALL UPSIZE WIRES BASED ON LOAD AND LENGTH OF RUN AS INDICATED IN SCHEDULE ABOVE.



RICARDO J. MUNIZ-GUILLET, AIA
5453 NW 106TH DR
CORAL SPRINGS, FL 33076

Seal:



Owner: _____



701.551.8000 (OFFIC



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2	E1	2020.06.19	CITY COMMENTS
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CURRENT ISSUE DATE
2020.02.21

CURRENT ISSUE DATE
2020.02.21

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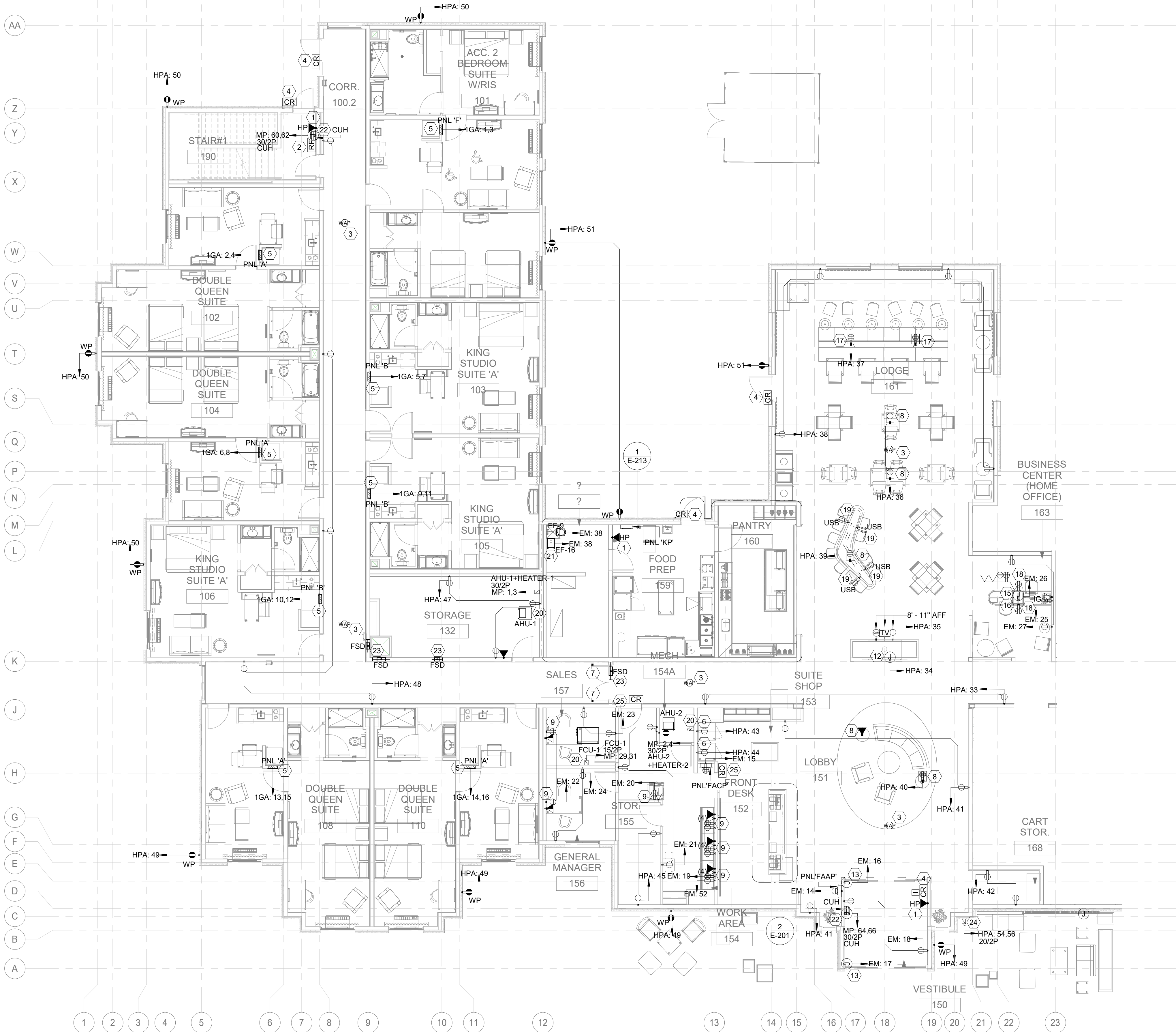
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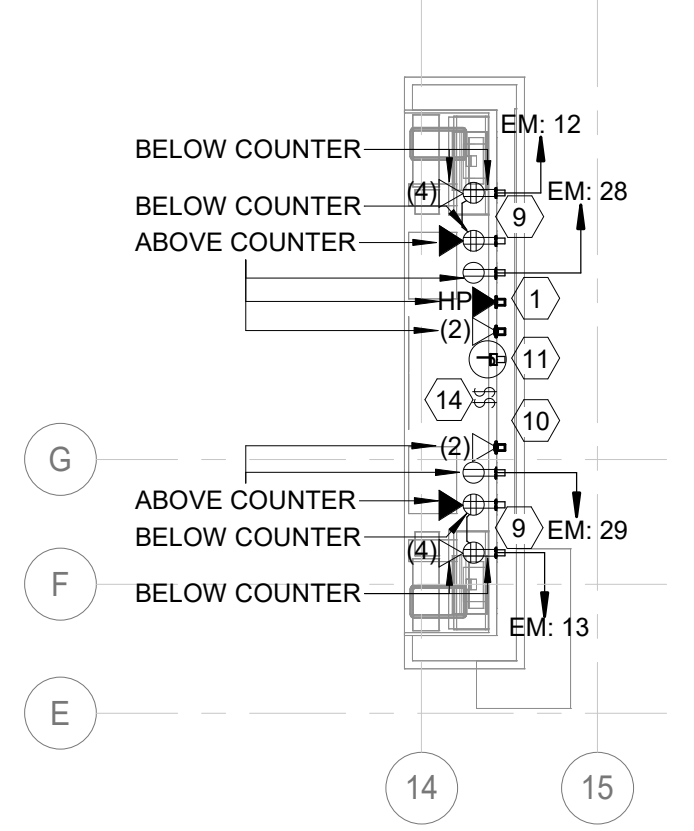
SITE POWER PLAN

DRAWINGS NO.

E-200



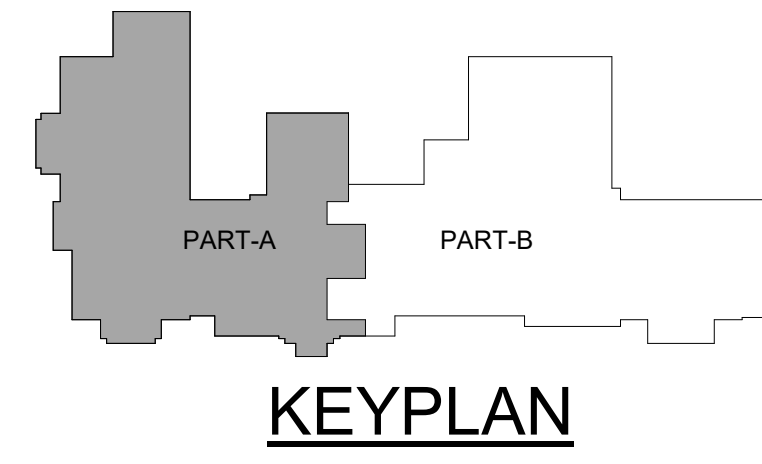
1 1ST FLOOR POWER PLAN A
1/8" = 1'-0"



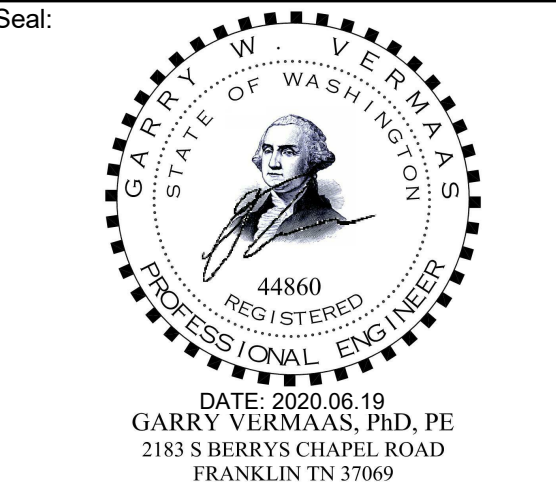
2 FRONT DESK
1/4" = 1'-0"

- GENERAL ELECTRICAL NOTES**
- ELECTRICAL CONTRACTOR SHALL PROVIDE ELECTRICAL ROUTE INCLUDING FEEDER HOME RUN TO METER CENTER.
 - CONTRACTOR SHALL USE COPPER CONDUCTOR BELOW 100AMP. FOR 100AMP AND ABOVE USE ALUMINIUM CONDUCTOR UNLESS NOTED OTHERWISE.
 - ELECTRICAL CONTRACTOR SHALL BALANCE CURRENT IN ALL PANELS MODIFY AND/OR ADJUST CIRCUITS AS REQUIRED.
 - DATA CABLING SHOULD BE INSTALLED IN "SMURF TUBE".
 - CONTRACTOR SHALL PROVIDE MIN. CLEAR SPACE AS PER NEC TABLE 110.26 FOR ALL ELECTRICAL LIVE PARTS.
 - CONTRACTOR SHALL VERIFY WITH ELECTRICAL EQUIPMENT SUPPLIER AND OWNER THAT ALL THE SERVICE DISCONNECTING MEANS SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT AS REQUIRED BY SECTION 110.24 OF NFPA 70
 - CONTRACTOR SHALL CO-ORDINATE WITH FURNITURE VENDOR FOR PLACEMENT AND CONNECTION AND CO-ORDINATE WITH ARCH DRAWING FOR EXACT LOCATION AND HEIGHT.
 - CONTRACTOR SHALL PROVIDE GFCI PROTECTION FOR ALL 15A AND 20A, 120V RECEPTACLES LOCATED IN BATHROOMS, ROOFTOPS, AND KITCHENS. CONTRACTOR TO PROVIDE GFCI RECEPTACLE AT READILY ACCESSIBLE LOCATION.
 - ALL FLOOR OUTLETS MUST BE FLUSH WITH THE FINISH FLOOR SURFACE.

E-201 KEY NOTES	
#	TEXT
1	HOUSE PHONE ONLY W/ AUTOMATIC DIAL TO FRONT DESK AT LOCATE 12" FROM DOOR U.N.O..44" AFF.
2	GO/FIRE VENDOR SHALL PERFORM RADIO FREQUENCY COVERAGE TESTING AND PROVIDE DISTRIBUTED ANTENNA SYSTEM (DAS) ACCORDINGLY TO COMPLY WITH FCC SECTION 510 AND LOCAL AHJ REQUIREMENT.
3	WIRELESS ACCESS POINT ABOVE CEILING IN ACCESSIBLE LOCATION SITE SURVEY SHALL BE COMPLETED BY THE TECHNOLOGY CONTRACTOR TO DETERMINE BEST LOCATION FOR EACH ZONE.
4	CONTRACTOR SHALL PROVIDE CARD READERS WITH POWER SUPPLY. PROVIDE ELECTRICAL CONNECTION TO CARD READER FROM CKT EM: 55.
5	GUEST ROOM PANEL BOARD SHALL BE FLUSH MOUNTED ON WALL AND MAINTAIN MIN. 2HR FIRE RESISTANCE RATING OF THE WALL CONTRACTOR SHALL REFER DETAIL 7 ON SHEET E-102.CONTRACTOR SHALL MAINTAIN MIN CLEAR SPACE REQUIRED AS PER NEC ARTICLE 110.26
6	AS PER NEC 210.8 PROVIDE GFCI RECEPTACLE AT READILY ACCESSIBLE LOCATION IF NOT CONTRACTOR SHALL PROVIDE GFCI PROTECTION IN BREAKER FOR CIRCUIT.
7	MAGNETIC DOOR-HOLD TIED TO THE BUILDING FIRE ALARM CONTROL PANEL. PROVIDE ELECTRICAL CIRCUIT EM:54 CONNECTION TO MAGNETIC DOOR-HOLD TYPICAL FOR ALL FLOORS. CONTRACTOR SHALL ENSURE TO PROVIDE ELECTROMAGNETIC DOOR HOLD OPEN MECHANISM CONNECTED TO THE FIRE ALARM SYSTEM AND ELECTRICAL SERVICE TO HOLD DOOR OPEN AND TO AUTOMATICALLY RELEASE DOORS WHEN AN ALARM IS ACTIVATED.
8	CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR RECEPTACLE INSTALLED ON FLOOR AND ON MILLWORK TYPICAL FOR ALL. CO-ORDINATE POWER REQUIREMENTS AND EXACT LOCATION WITH FURNISHING PLAN AND FF&E DRAWINGS SPECIFICATIONS.
9	PROVIDE IG TYPE RECEPTACLE FOR TYPICAL FLOOR IT EQUIPMENTS.
10	CONTRACTOR SHALL PROVIDE MINIMUM 2" UNDER FLOOR CONDUIT FOR TELECOM FROM CLOSET TO FRONT DESK
11	PROVIDE JUNCTION BOX FOR VESTIBULE SLIDING DOOR RELEASE BUTTON.
12	CONTRACTOR SHALL COORDINATE WITH VENDOR FOR FIRE PLACE CONNECTION AND NECESSARY ARRANGEMENTS REFER TO MANUFACTURER'S WIRING DIAGRAM FOR DETAILS.
13	JN. BOX FOR AUTOMATIC DOORS
14	SWITCHES FOR LIGHT AND MAIN FLAME FOR FIRE PLACE. CONTRACTOR SHALL MAKE THE NECESSARY CONNECTIONS ACCORDINGLY.
15	CONTRACTOR SHALL PROVIDE 120V, 1 PHASE SERVICE, 20 AMPS (2 QUAD RECEPTACLE), STUB AS NOTED, FOR COMPUTER SYSTEM, (DEDICATED CIRCUIT, ISOLATED GROUND, ADD DATA(2), PROVIDE EMPTY J-BOX WITH CONDUIT FOR INTERCONNECTING THE SYSTEM).CONTRACTOR SHALL VERIFY ALL THE REQUIREMENT WITH COMPUTER SYSTEM SUPPLIER.
16	COORDINATE STUB-UP AND/OR JUNCTION BOX LOCATIONS W/ MILLWORK PRIOR TO INSTALLATION. PROPER WIRE MANAGEMENT NEEDS TO BE INCORPORATED TO ALLOW FOR ALL COMPUTER EQUIPMENTS.
17	CONTRACTOR SHALL PROVIDE POWER CONNECTION TO CONVENIENCE RECEPTACLES IN SPINE OF SECTIONAL. CONTRACTOR SHALL COORDINATE WITH MILLWORK VENDOR FOR EXACT LOCATION AND WITH FURNISHING PLAN AND FF&E DRAWINGS/SPECIFICATIONS.
18	UNIT ITSELF TO INCORPORATE TWO (2) DUPLEX RECEPTACLES FLUSH WITH FACE OF APRON ON EACH SIDE FOR GUEST CHARGING.
19	CONTRACTOR SHALL PROVIDE CONVENIENCE OUTLETS IN TABLE SKIRT. ACCESS PANEL PROVIDED IN THE TABLE BASE TO CONNECT ELECTRICAL TO FLOOR OUTLET. TABLE WIRING IS RATED AT 20 AMP WITH A STANDARD 3 PRONG MALE PLUG. ALL PLUG-IN CONNECTIONS AND POWER RECEPTACLE MUST BE UL LISTED.
20	CONTRACTOR SHALL CO-ORDINATE WITH MECHANICAL VENDOR FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT AND PROVIDE DISCONNECT SWITCH ACCORDINGLY. CONTRACTOR SHALL MAINTAIN MIN. CLEAR SPACE REQUIRED AS PER NEC ARTICLE 110.26. CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH NOT ACCESSIBLE TO COMMON PERSON.
21	CONTRACTOR SHALL PROVIDE SWITCH FOR DISCONNECT FOR EXHAUST FAN APPLIANCE OF MORE THAN 1/8HP THAT COMPLIES WITH NEC 422.34(A), (B), (C) OR OTHERWISE PROVIDE HARDWARE CONNECTION TO EXHAUST FAN ON EM PANEL.
22	CONTRACTOR SHALL PROVIDE HARDWARE CONNECTION TO CUH UNIT ELECTRICAL CONTRACTOR SHALL PROVIDE JN BOX AND CO-ORDINATE WITH MECHANICAL VENDOR FOR CONNECTION.
23	FIRE/SMOKE DAMPER CONNECT TO FIRE ALARM SYSTEM. SEE MECHANICAL DRAWING FOR LOCATION AND REQUIREMENT. PROVIDE ELECTRICAL CONNECTION TO FIRE/SMOKE DAMPER FROM CKT EM: 53 TYPICAL FOR ALL FLOOR.
24	CONTRACTOR SHALL PROVIDE A DISCONNECT LOCATED WITHIN SIGHT OF THE CONTROLLER MUST BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
25	CONTRACTOR SHALL PROVIDE BATTERY PACK CARD READER FOR ALL INTERIOR DOOR.



BASE4
2901 CLINT MOORE ROAD, #114
BOCA RATON, FLORIDA 33496
888.901.8008 www.base-4.com
RICARDO J. MUNIZ-GUILLET,AIA
5453 NW 106TH DR
CORAL SPRINGS, FL 33076
MEP ENGINEER
GARRY VERMAAS PhD, PE
2183 S BERRYS CHAPEL ROAD
FRANKLIN, TN 37069



Owner:
DLG
Dakota Legacy Group
Hospitality Development:
4500 36TH AVE. S SUITE
200, FARGO, ND 58104
701.551.8000 (OFFICE)



3500 S MERIDIAN, PUYALLUP, WA 98373
PROTOTYPE VERSION: V9.2 2014 FEB

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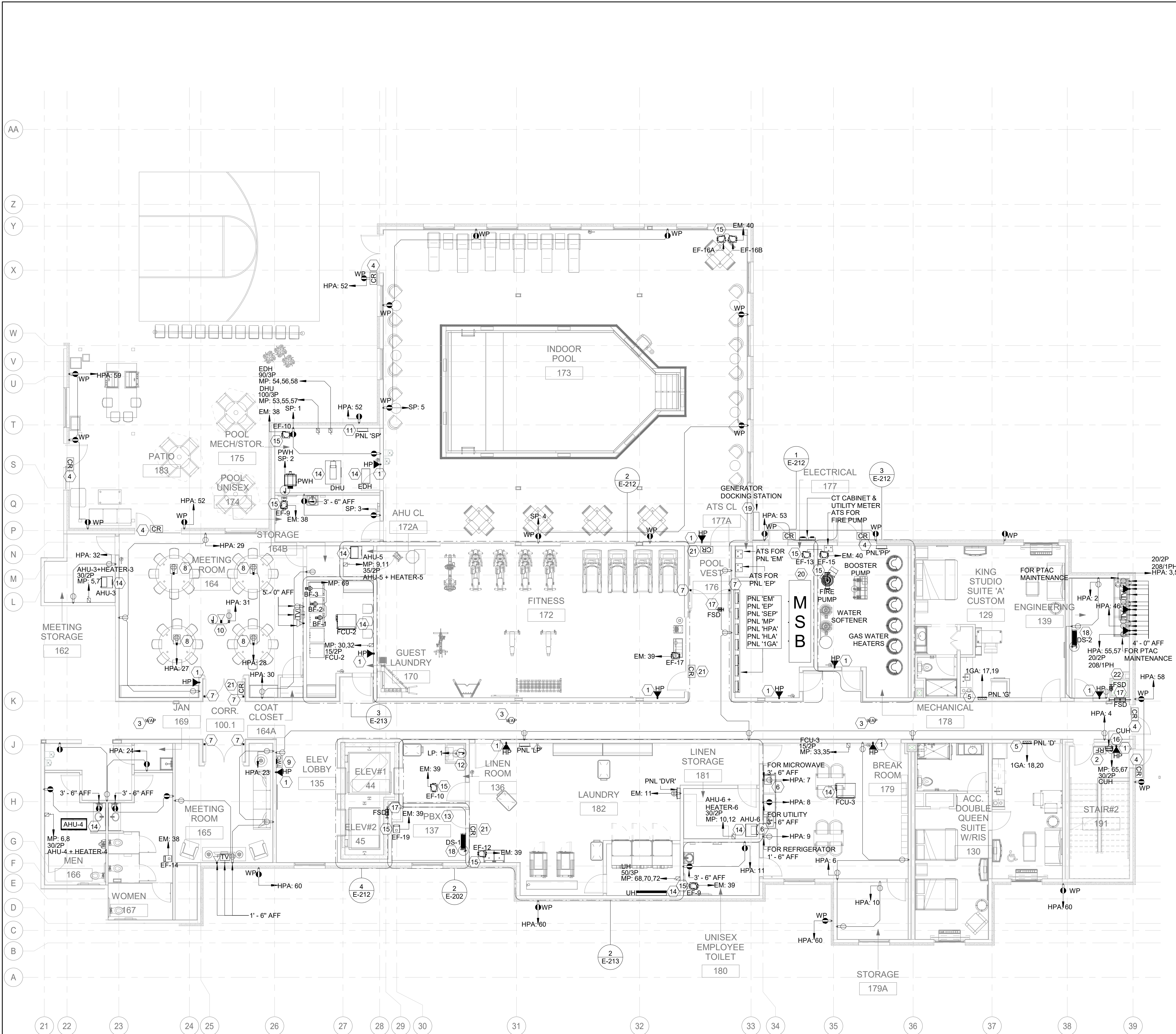
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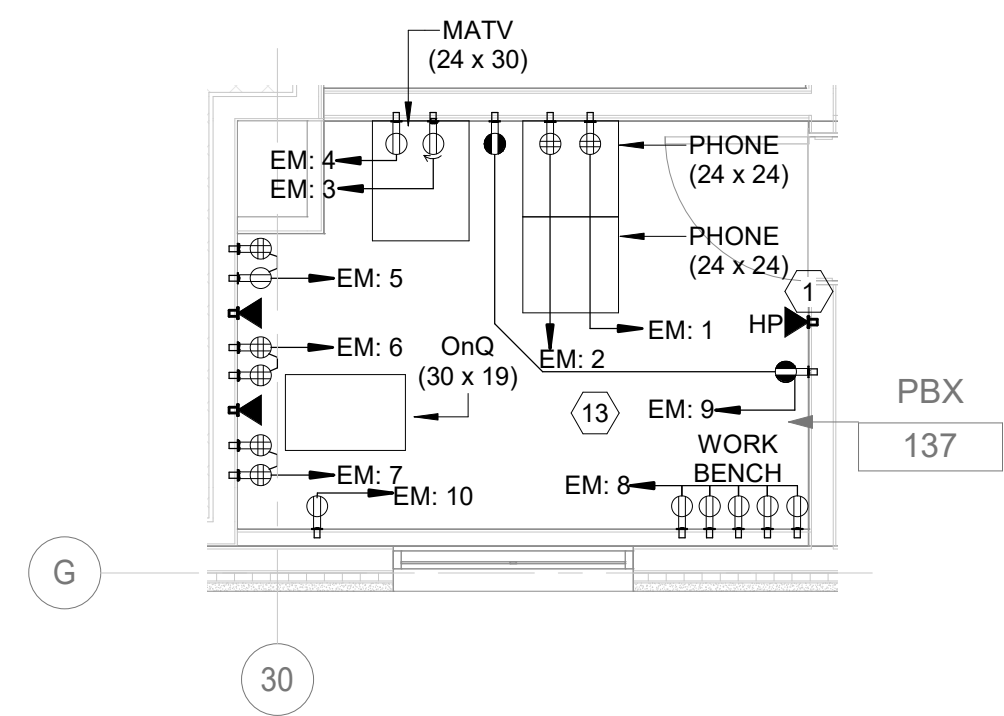
1ST FLOOR POWER PLAN A

DRAWINGS NO.

E-201



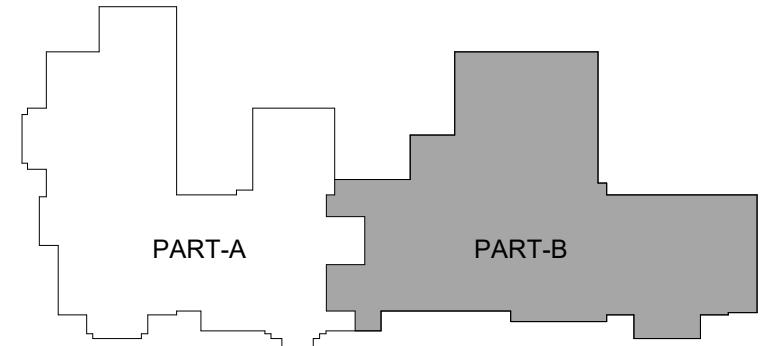
1 1ST FLOOR POWER PLAN B
1/8" = 1'-0"



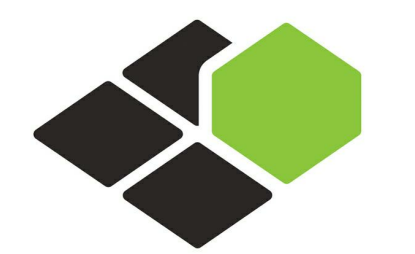
2 PBX
1/4" = 1'-0"

E-202 KEY NOTES

#	TEXT
1	HOUSE PHONE ONLY W/ AUTOMATIC DIAL TO FRONT DESK AT LOCATE 12" FROM DOOR U.N.O.
2	GO/FIRE VENDOR SHALL PERFORM RADIO FREQUENCY COVERAGE TESTING AND PROVIDE DISTRIBUTED ANTENNA SYSTEM (DAS) ACCORDINGLY TO COMPLY WITH IFC SECTION 510 AND LOCAL AHJ REQUIREMENT.
3	WIRELESS ACCESS POINT ABOVE CEILING IN ACCESSIBLE LOCATION SITE SURVEY SHALL BE COMPLETED BY THE TECHNOLOGY CONTRACTOR TO DETERMINE BEST LOCATION FOR EACH ZONE.
4	CONTRACTOR SHALL PROVIDE CARD READERS WITH POWER SUPPLY. PROVIDE ELECTRICAL CONNECTION TO CARD READER FROM CKT EM: 55.
5	GUEST ROOM PANEL BOARD SHALL BE FLUSH MOUNTED ON WALL AND MAINTAIN MIN. 2HR FIRE RESISTANCE RATING OF THE WALL CONTRACTOR SHALL REFER DETAIL 7 ON SHEET E-102 CONTRACTOR SHALL MAINTAIN MIN CLEAR SPACE REQUIRED AS PER NEC ARTICLE 110.26
6	AS PER NEC 210.8 PROVIDE GFCI RECEPTACLE AT READILY ACCESSIBLE LOCATION IF NOT CONTRACTOR SHALL PROVIDE GFCI PROTECTION IN BREAKER FOR CIRCUIT.
7	MAGNETIC DOOR-HOLD TIED TO THE BUILDING FIRE ALARM CONTROL PANEL. PROVIDE ELECTRICAL CIRCUIT EM:54 CONNECTION TO MAGNETIC DOOR-HOLD TYPICAL FOR ALL FLOORS. CONTRACTOR SHALL ENSURE TO PROVIDE ELECTROMAGNETIC DOOR HOLD OPEN MECHANISM CONNECTED TO THE FIRE ALARM SYSTEM AND ELECTRICAL SERVICE TO HOLD DOOR OPEN AND TO AUTOMATICALLY RELEASE DOORS WHEN AN ALARM IS ACTIVATED.
8	CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION FOR RECEPTACLE INSTALLED ON FLOOR AND ON MILLWORK TYPICAL FOR ALL CO-ORDINATE POWER REQUIREMENTS AND EXACT LOCATION WITH FURNISHING PLAN AND FF&E DRAWINGS SPECIFICATIONS.
9	TWO WAY COMMUNICATION SYSTEM SHALL PROVIDE COMMUNICATION BETWEEN EACH REQUIRED LOCATION AND THE FIRE COMMAND CENTER OR A INTERNAL CONTROL POINT LOCATION APPROVED BY THE FIRE DEPARTMENT. WHERE THE CENTRAL CONTROL POINT IS NOT CONSTANTLY ATTENDED, A TWO WAY COMMUNICATION SYSTEM SHALL HAVE A TIMED AUTOMATIC TELEPHONE DIAL OUT CAPABILITY TO A MONITORING LOCATION OR 911. THE TWO WAY COMMUNICATION SYSTEM SHALL INCLUDE BOTH AUDIBLE AND VISIBLE SIGNALS. DIRECTION FOR THE USE OF TWO WAY COMMUNICATION SYSTEM, INSTRUCTION FOR SUMMONING ASSISTANCE VIA THE TWO WAY COMMUNICATION SYSTEM AND WRITTEN IDENTIFICATION OF THE LOCATION SHALL BE POSTED ADJACENT TO THE TWO WAY COMMUNICATION SYSTEM.
10	CONTRACTOR SHALL PROVIDE POWER IN CEILING FOR PROJECTOR. CONTRACTOR SHALL PROVIDE EMPTY CONDUIT IN CEILING FOR LV CABLES FROM PROJECTOR TO SCREEN.
11	POOL VENDOR SHALL PROVIDE NEMA 3R RATED AND POOL RECEPTACLE PROTECTED BY WP PROTECTION.
12	J-BOX FOR LAUNDRY CHUTE DOOR INTERLOCK TO TIE TO CIRCUIT LP: 1. CONTRACTOR SHALL COORDINATE WITH LAUNDRY VENDOR FOR CONNECTION OF LAUNDRY CHUTE CONTROL PANEL AND FOR LOCKOUT TIMER SWITCH LOCATION.
13	CONTRACTOR SHALL COORDINATE WITH LV VENDOR FOR FINAL LAYOUT. BASE4 HAS PROVIDED PBX ROOM LAYOUT FOR REFERENCE ONLY, FINAL PBX ROOM LAYOUT TO BE PROVIDED BY LV VENDOR.
14	CONTRACTOR SHALL CO-ORDINATE WITH MECHANICAL VENDOR FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT AND PROVIDE DISCONNECT SWITCH ACCORDINGLY. CONTRACTOR SHALL MAINTAIN MIN. CLEAR SPACE REQUIRED AS PER NEC ARTICLE 110.26. CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH NOT ACCESSIBLE TO COMMON PERSON.
15	CONTRACTOR SHALL PROVIDE SWITCH FOR DISCONNECT FOR EXHAUST FAN APPLIANCE OF MORE THAN 1/8HP THAT COMPLIES WITH NEC 422.34(A), (B), (C) OR OTHERWISE PROVIDE HARDWARE CONNECTION TO EXHAUST FAN ON EM PANEL.
16	CONTRACTOR SHALL PROVIDE HARDWARE CONNECTION TO CUH UNIT ELECTRICAL CONTRACTOR SHALL PROVIDE JN BOX AND CO-ORDINATE WITH MECHANICAL VENDOR FOR CONNECTION.
17	FIRE/SMOKE DAMPER CONNECT TO FIRE ALARM SYSTEM. SEE MECHANICAL DRAWING FOR LOCATION AND REQUIREMENT. PROVIDE ELECTRICAL CONNECTION TO FIRE/SMOKE DAMPER FROM CKT EM: 53 TYPICAL FOR ALL FLOOR.
18	CONTRACTOR TO PROVIDE JUNCTION BOX FOR SPLIT UNIT CONNECTION BEING FED BY ITS RESPECTIVE OUTDOOR UNIT. CONTRACTOR TO COORDINATE WITH MECHANICAL VENDOR ON SITE AND PROVIDE NECESSARY ARRANGEMENTS.
19	CONTRACTOR SHALL FIELD VERIFY AND PROVIDE PANEL FOR DOCKING SYSTEM AT THE TIME OF MAINTENANCE OF GENERATOR. AS PER NEC-2017 ARTICLE 700.3(F). CONTRACTOR SHALL COORDINATE WITH LOCAL AHJ FOR FINAL LOCATION AND PROVIDE CONNECTION ACCORDINGLY.
20	CONTRACTOR SHALL PROVIDE HOUSEKEEPING PAD FOR MSB AND OTHER FLOOR MOUNTED PANELS. PADS SHALL BE OF CONCRETE AND NOT LESS THAN 4" THICK. FOR FINAL PAD SIZE, CONTRACTOR TO VERIFY WITH ELECTRICAL SWITCHGEAR SUBMITTAL.
21	CONTRACTOR SHALL PROVIDE BATTERY PACK CARD READER FOR ALL INTERIOR DOOR.
22	CONTRACTOR SHALL ROUTE THE MAU-2 CONDUITS THROUGH THE 8" X 8" CHASE.



KEYPLAN



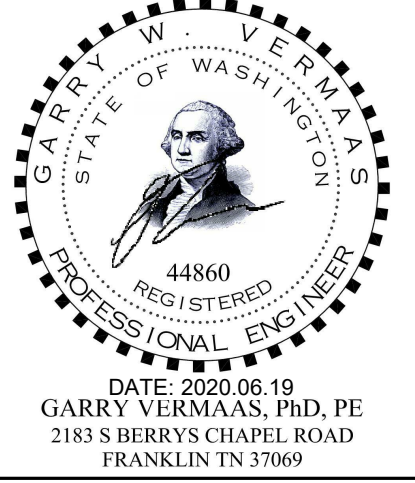
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888.901.8008 www.base-4.com

RICARDO J. MUNIZ-GUILLET, AIA
5453 NW 106TH DR
CORAL SPRINGS, FL 33076

MEP ENGINEER
GARRY VERMAAS PhD, PE
2183 S BERRYS CHAPEL ROAD
FRANKLIN, TN 37069

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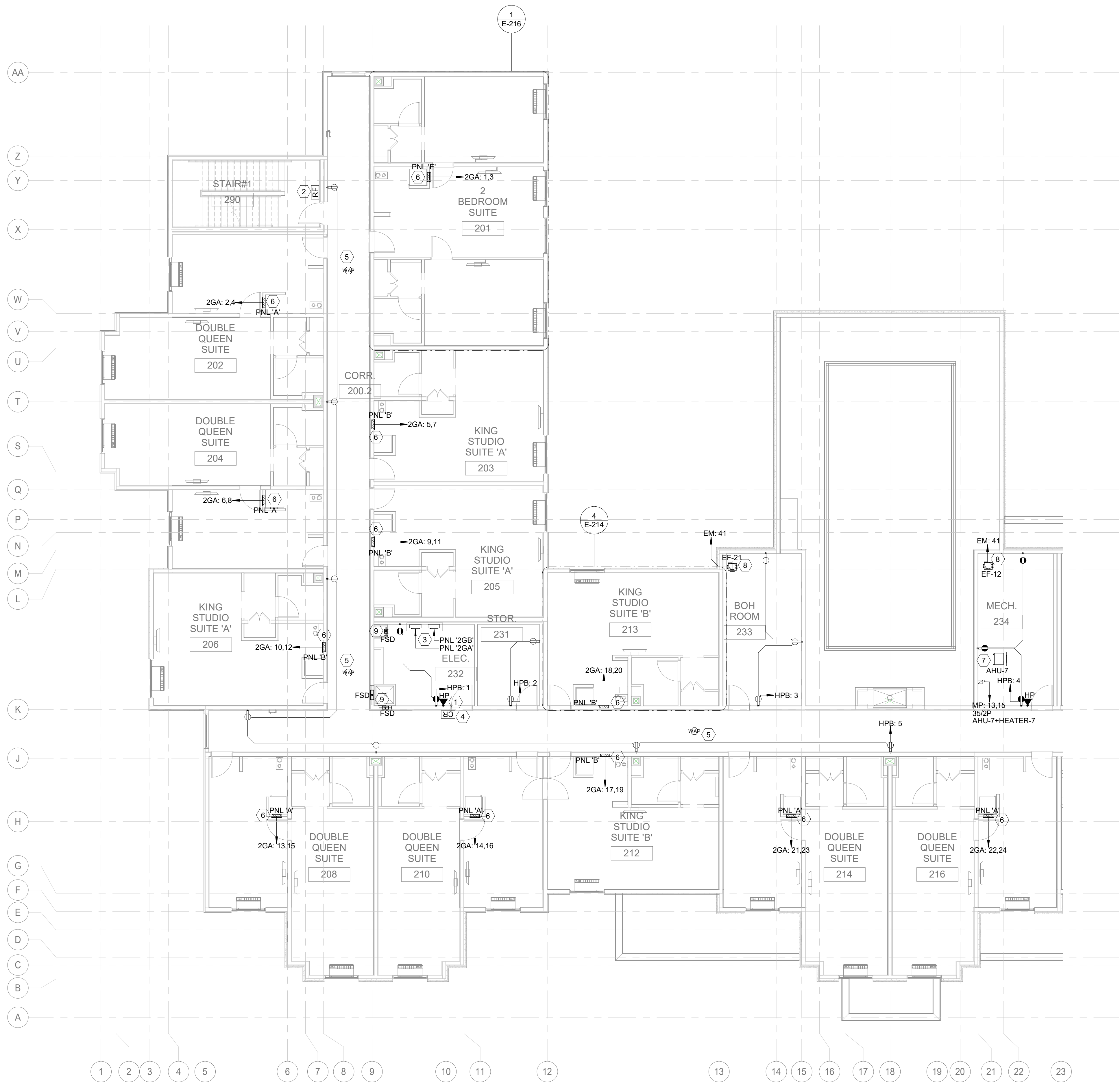
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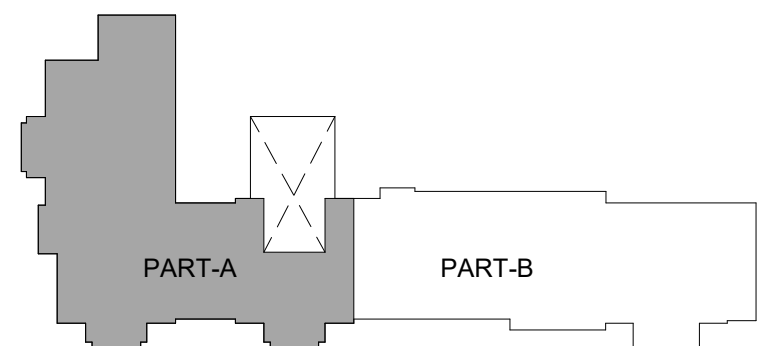
1ST FLOOR POWER
PLAN B

DRAWINGS NO.

E-202

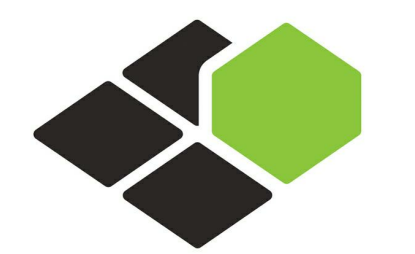


1 2ND FLOOR POWER PLAN A
1/8" = 1'-0"



KEYPLAN

E-203 KEY NOTES	
#	TEXT
1	HOUSE PHONE ONLY W/ AUTOMATIC DIAL TO FRONT DESK AT LOCATE 12" FROM DOOR U.N.O. 44" AFF.
2	GC/FIRE VENDOR SHALL PERFORM RADIO FREQUENCY COVERAGE TESTING AND PROVIDE DISTRIBUTED ANTENNA SYSTEM (DAS) ACCORDINGLY TO COMPLY WITH IFC SECTION 510 AND LOCAL AHJ REQUIREMENT.
3	CONTRACTOR SHALL CO-ORDINATE ELECTRICAL ROOM SIZE WITH PANEL PHYSICAL DIMENSION. CONTRACTOR SHALL PROVIDE MIN. CLEARANCE REQUIRED AS PER NEC ARTICLE 110.26 AND PLACE PANEL ACCORDINGLY.
4	CONTRACTOR SHALL PROVIDE BATTERY PACK CARD READER.
5	WIRELESS ACCESS POINT ABOVE CEILING IN ACCESSIBLE LOCATION SITE SURVEY SHALL BE COMPLETED BY THE TECHNOLOGY CONTRACTOR TO DETERMINE BEST LOCATION FOR EACH ZONE.
6	GUEST ROOM PANEL BOARD SHALL BE FLUSH MOUNTED ON WALL AND MAINTAIN MIN. 2HR FIRE RESISTANCE RATING OF THE WALL. CONTRACTOR SHALL REFER DETAIL 7 ON SHEET E-102. CONTRACTOR SHALL MAINTAIN MIN CLEAR SPACE REQUIRED AS PER NEC ARTICLE 110.26
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9	FIRE/SMOKE DAMPER CONNECT TO FIRE ALARM SYSTEM. SEE MECHANICAL DRAWING FOR LOCATION AND REQUIREMENT. PROVIDE ELECTRICAL CONNECTION TO FIRE/SMOKE DAMPER FROM CKT EM: 53 TYPICAL FOR ALL FLOOR.



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888.901.8008 www.base-4.com

RICARDO J. MUNIZ-GUILLET, AIA
5453 NW 106TH DR
CORAL SPRINGS, FL 33076

MEP ENGINEER
GARRY VERMAAS PhD, PE
2183 S BERRYS CHAPEL ROAD
FRANKLIN, TN 37069

Seal:



DATE: 2020.06.19
GARRY VERMAAS, PhD, PE
2183 S BERRYS CHAPEL ROAD
FRANKLIN, TN 37069

Owner:



Hospitality Development:
4500 36TH AVE. S SUITE
200, FARGO, ND 58104
701.551.8000 (OFFICE)



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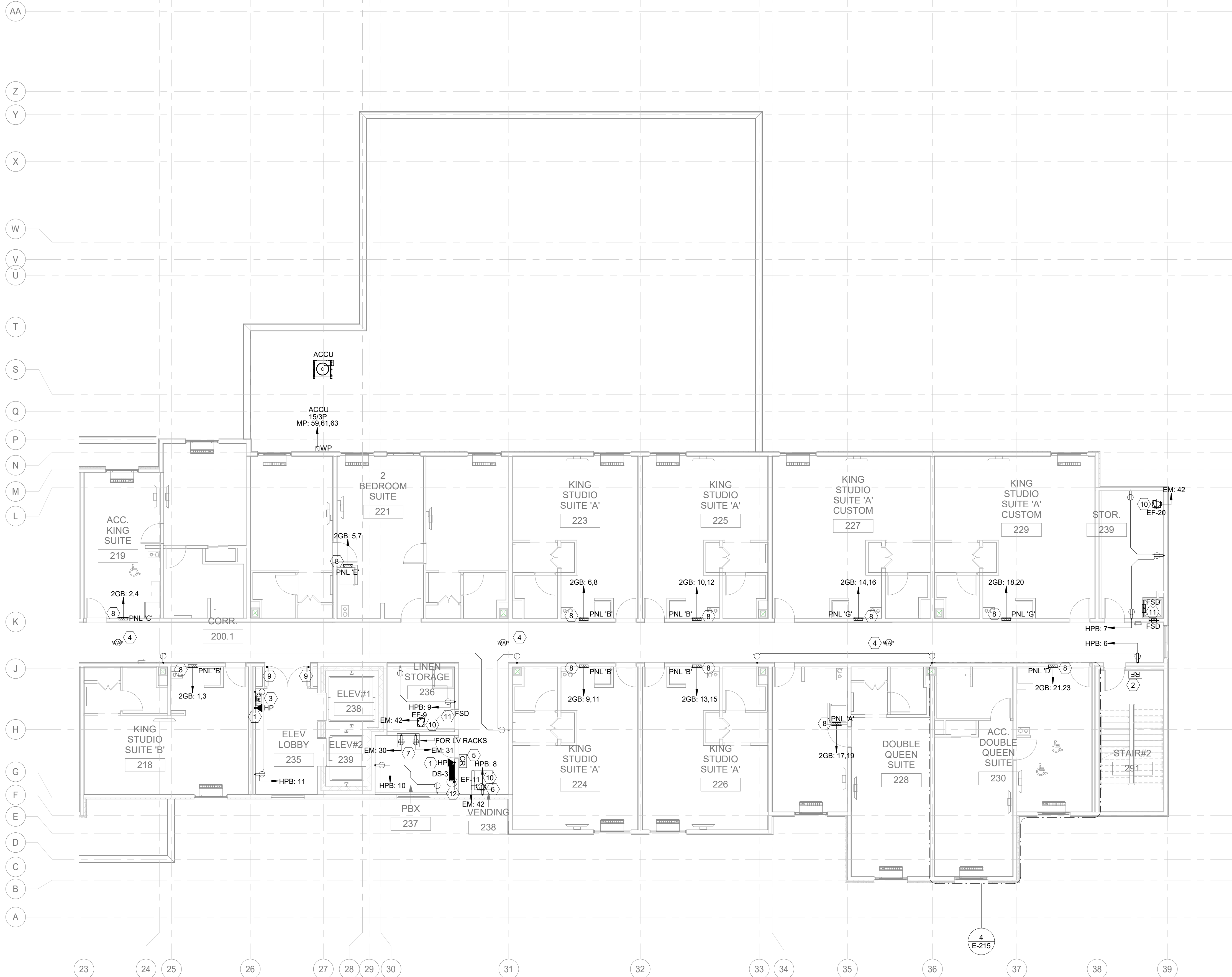
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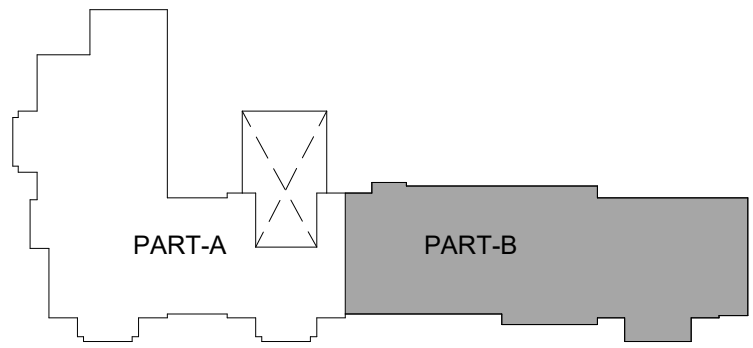
2ND FLOOR
POWER PLAN A

DRAWINGS NO.

E-203



1 2ND FLOOR POWER PLAN B
1/8" = 1'-0"



KEYPLAN

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5	CONTRACTOR SHALL PROVIDE BATTERY PACK CARD READER.
6	AS PER NEC 210.8 PROVIDE GFCI RECEPTACLE AT READILY ACCESSIBLE LOCATION IF NOT CONTRACTOR SHALL PROVIDE GFCI PROTECTION IN BREAKER FOR CIRCUIT.
7	PROVIDE IG TYPE RECEPTACLE FOR TYPICAL FLOOR IT EQUIPMENTS.
8	GUEST ROOM PANEL BOARD SHALL BE FLUSH MOUNTED ON WALL AND MAINTAIN MIN. 2HR FIRE RESISTANCE RATING OF THE WALL. CONTRACTOR SHALL REFER DETAIL 7 ON SHEET E-102. CONTRACTOR SHALL MAINTAIN MIN CLEAR SPACE REQUIRED AS PER NEC ARTICLE 110.26
9	MAGNETIC DOOR-HOLD TIED TO THE BUILDING FIRE ALARM CONTROL PANEL. PROVIDE ELECTRICAL CIRCUIT EM:54 CONNECTION TO MAGNETIC DOOR-HOLD TYPICAL FOR ALL FLOORS. CONTRACTOR SHALL ENSURE TO PROVIDE ELECTROMAGNETIC DOOR HOLD OPEN MECHANISM CONNECTED TO THE FIRE ALARM SYSTEM AND ELECTRICAL SERVICE TO HOLD DOOR OPEN AND TO AUTOMATICALLY RELEASE DOORS WHEN AN ALARM IS ACTIVATED.
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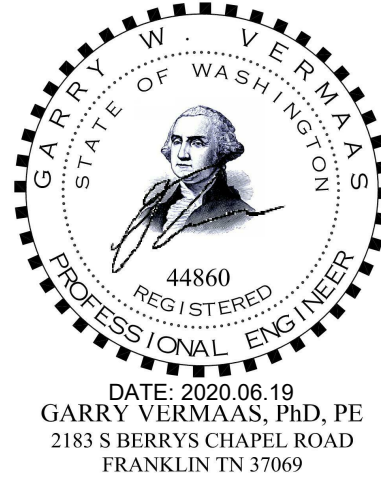
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BOCA RATON, FLORIDA 33496
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RICARDO J. MUNIZ-GUILLET, AIA
5453 NW 106TH DR
CORAL SPRINGS, FL 33076

MEP ENGINEER
GARRY VERMAAS PhD, PE
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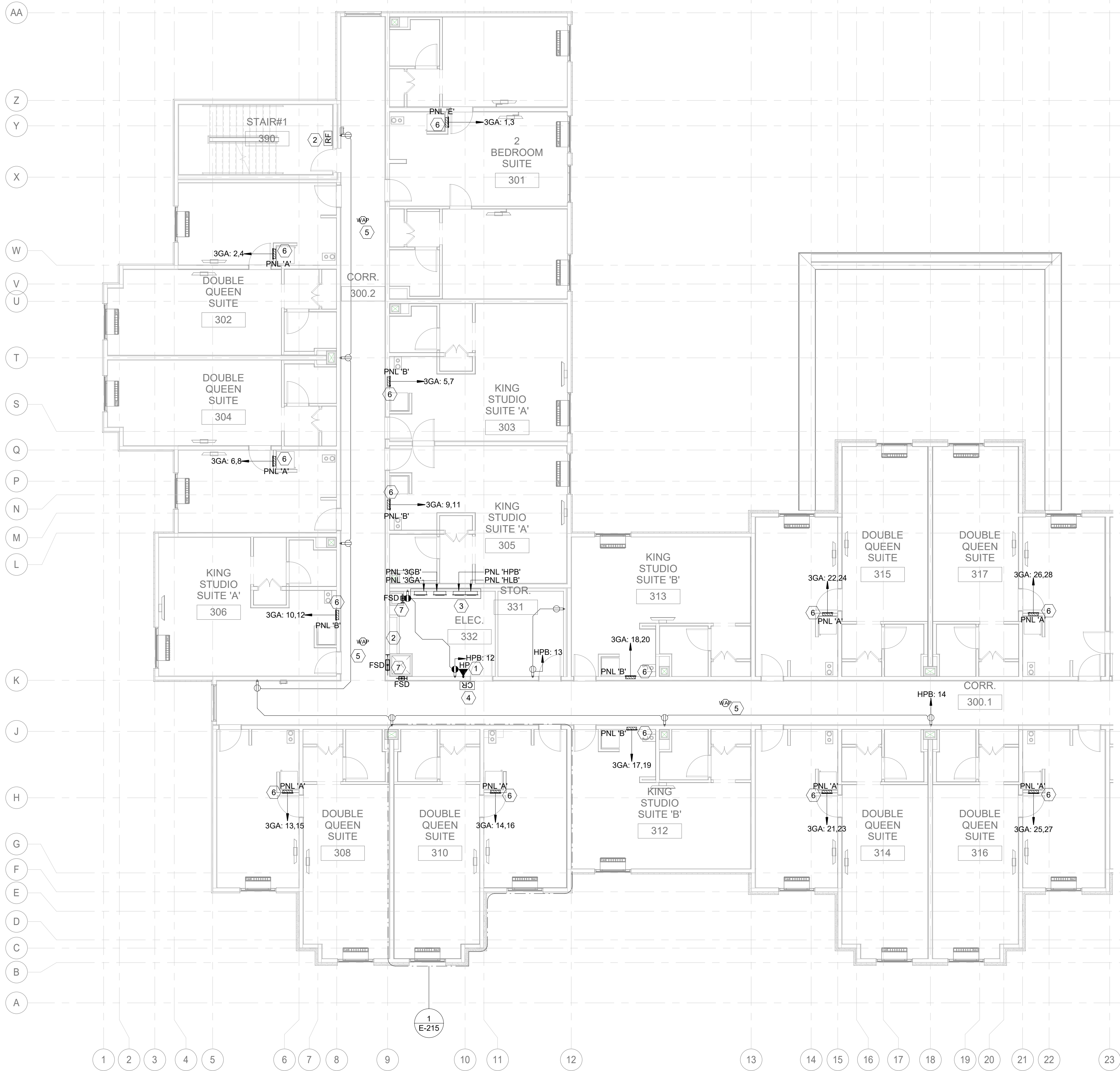
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SHEET NAME

2ND FLOOR
POWER PLAN B

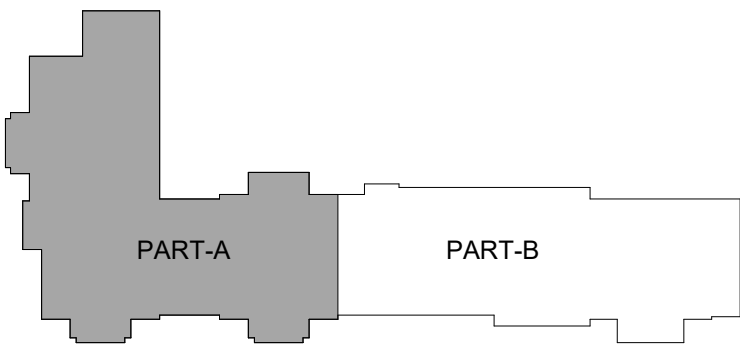
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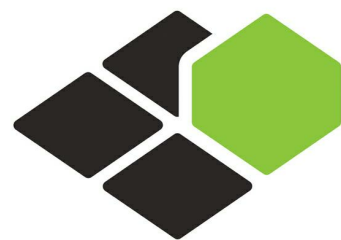


1 3RD FLOOR POWER PLAN A
1/8" = 1'-0"

E-205 KEY NOTES	
SYMBOL	TEXT
1	HOUSE PHONE ONLY W/ AUTOMATIC DIAL TO FRONT DESK AT LOCATE 12" FROM DOOR U.N.O., 44" AFF.
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KEYPLAN



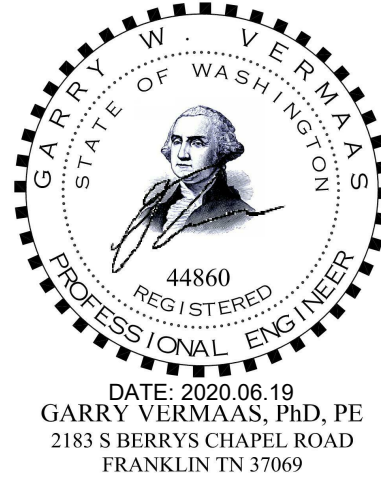
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5453 NW 106TH DR
CORAL SPRINGS, FL 33076

MEP ENGINEER
GARRY VERMAAS PhD, PE
2183 S BERRYS CHAPEL ROAD
FRANKLIN, TN 37069

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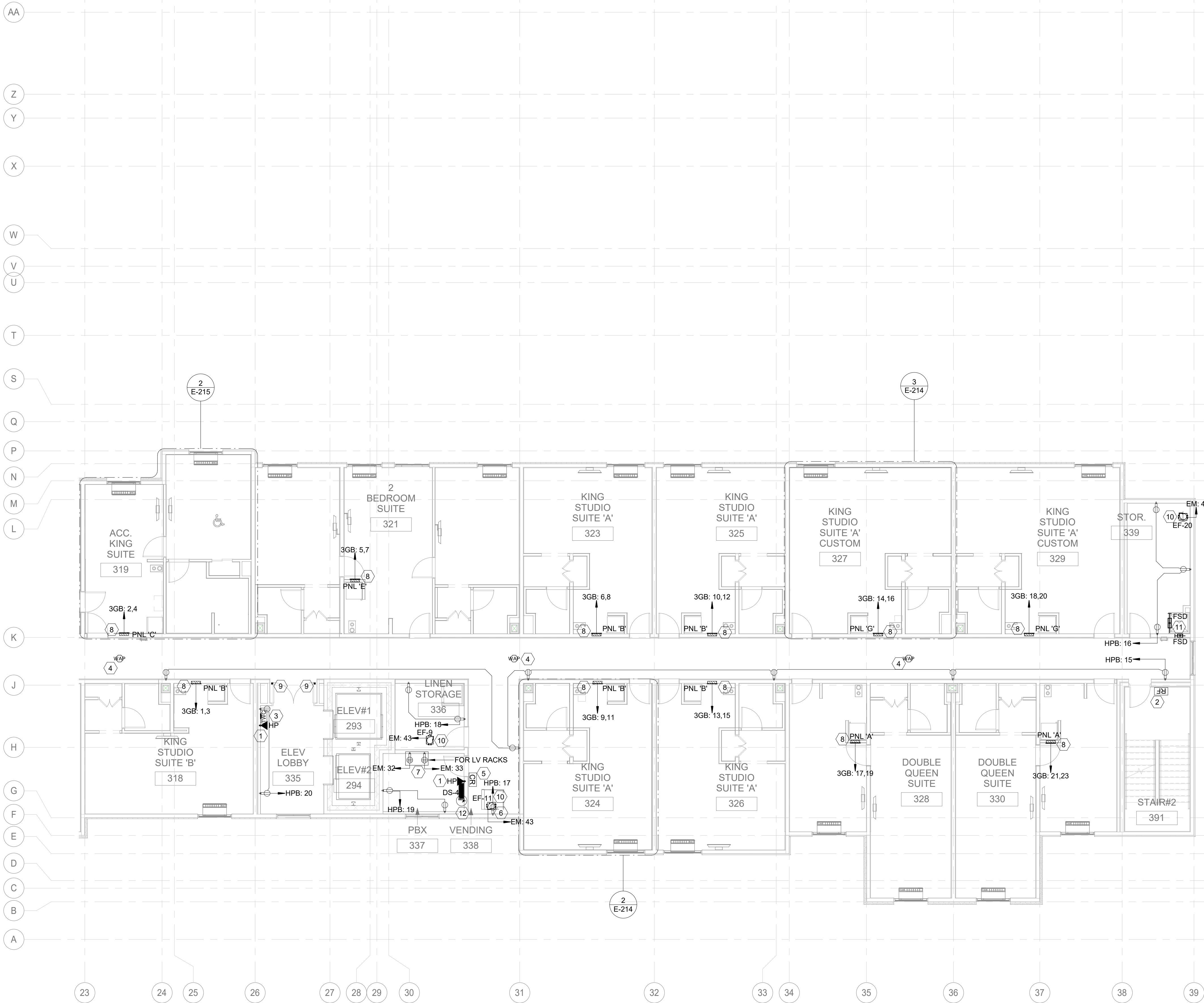
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SHEET NAME

3RD FLOOR
POWER PLAN A

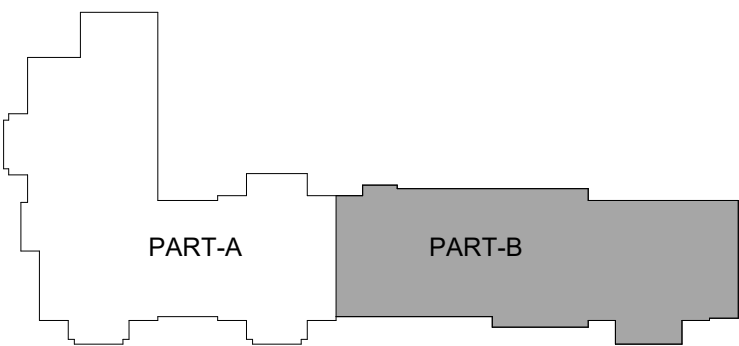
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E-205



1 3RD FLOOR POWER PLAN B
1/8" = 1'-0"

E-206 KEY NOTES	
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KEYPLAN



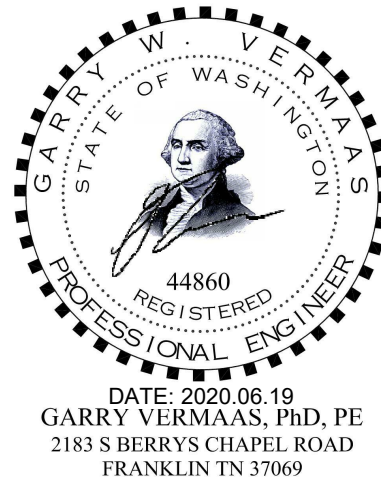
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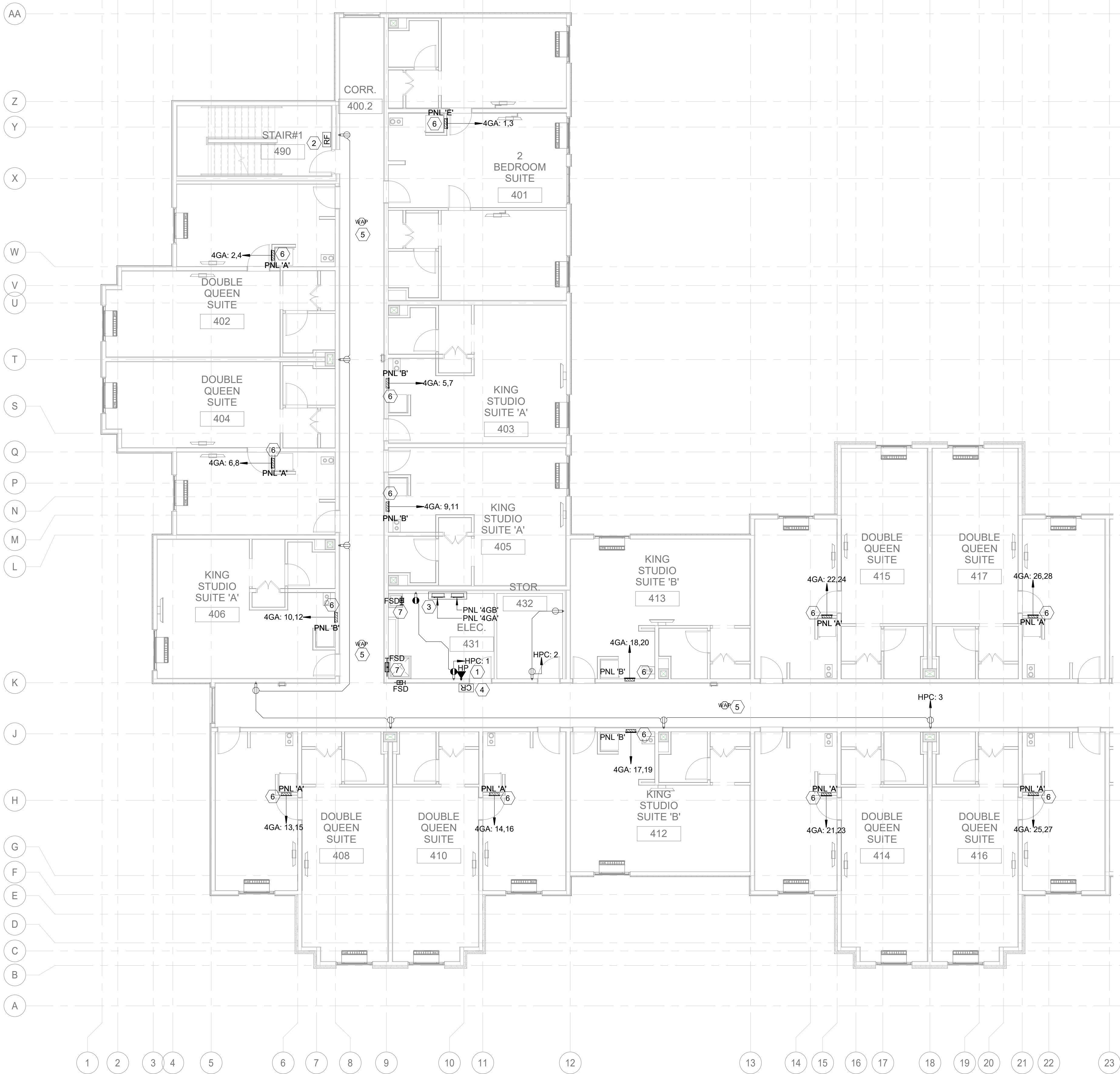
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3RD FLOOR
POWER PLAN B

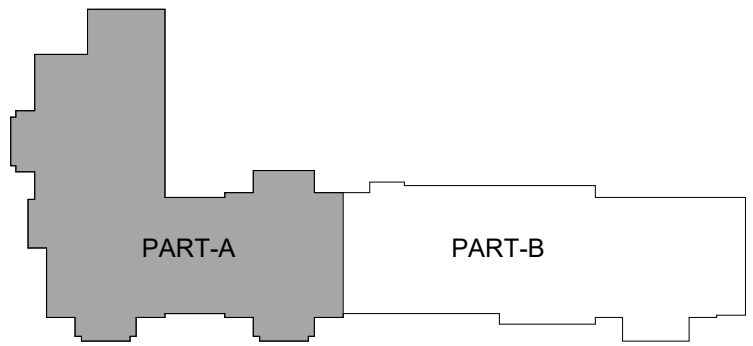
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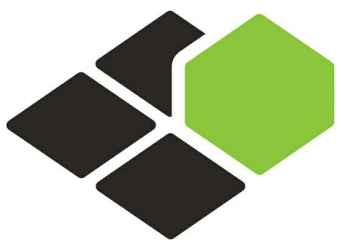


1 4TH FLOOR POWER PLAN A
1/8" = 1'-0"

E-207 KEY NOTES	
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KEYPLAN



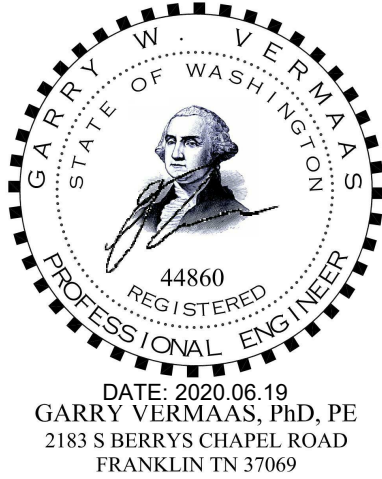
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888.901.8008 www.base-4.com

RICARDO J. MUNIZ-GUILLET, AIA
5453 NW 106TH DR
CORAL SPRINGS, FL 33076

MEP ENGINEER
GARRY VERMAAS PhD, PE
2183 S BERRYS CHAPEL ROAD
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SHEET NAME

4TH FLOOR POWER
PLAN A

DRAWINGS NO.

E-207

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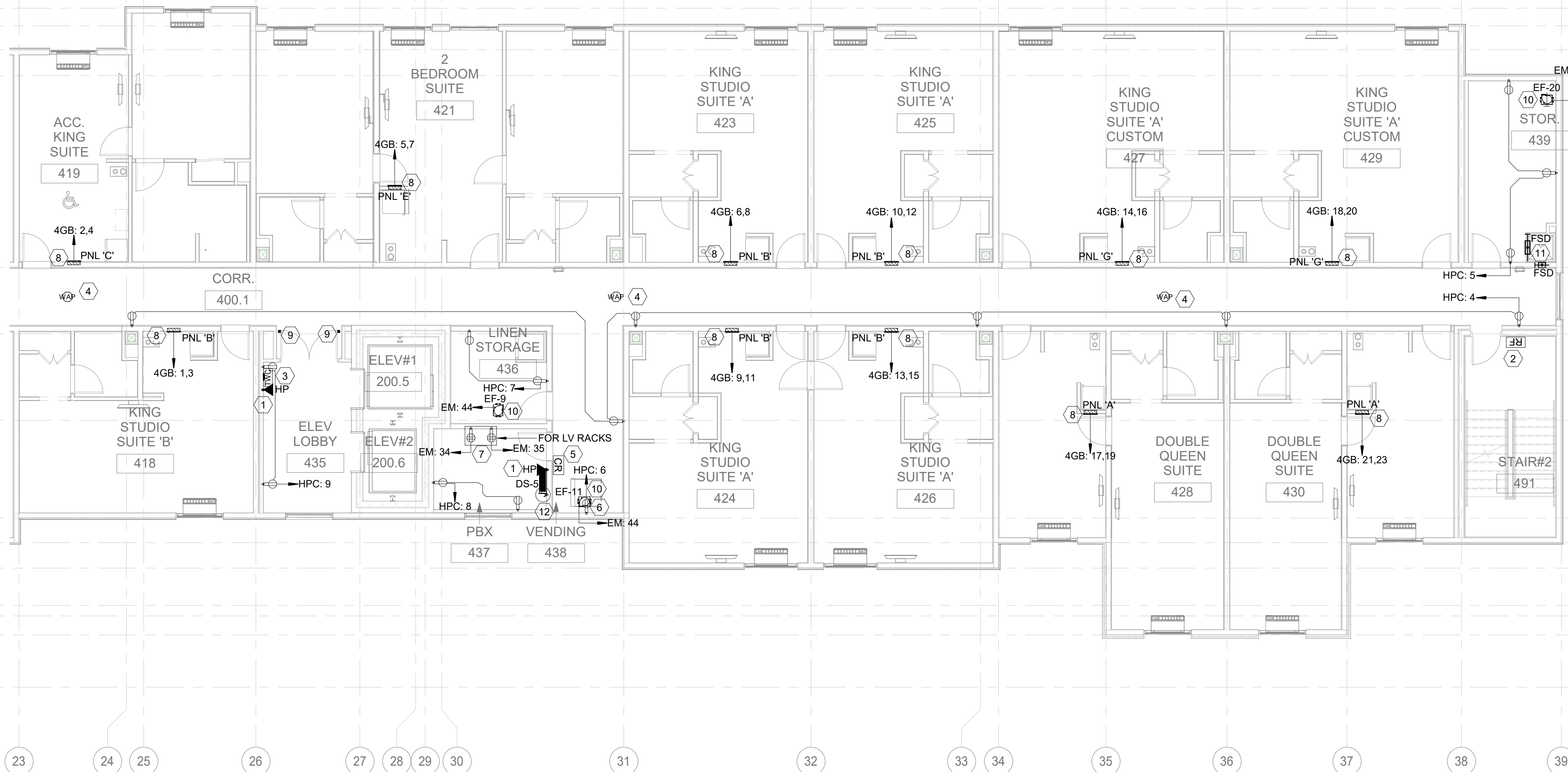
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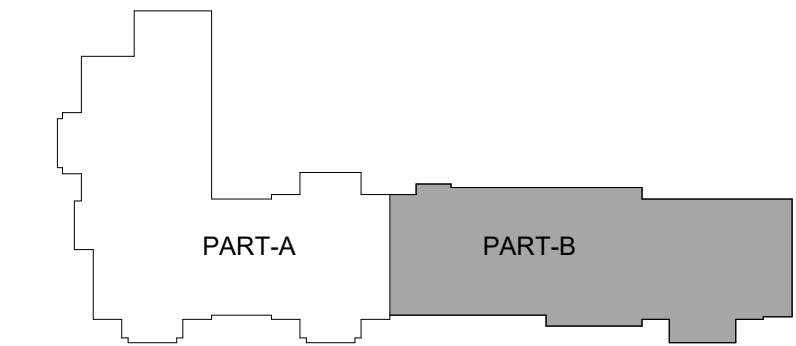
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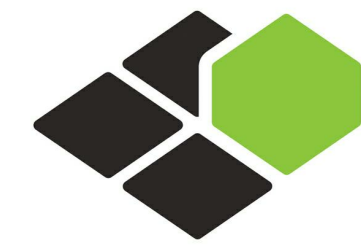


1 4TH FLOOR POWER PLAN B
1/8" = 1'-0"



KEYPLAN

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3	TWO WAY COMMUNICATION SYSTEM SHALL PROVIDE COMMUNICATION BETWEEN EACH REQUIRED LOCATION AND THE FIRE COMMAND CENTER OR A INTERNAL CONTROL POINT LOCATION APPROVED BY THE FIRE DEPARTMENT. WHERE THE CENTRAL CONTROL POINT IS NOT CONSTANTLY ATTENDED, A TWO WAY COMMUNICATION SYSTEM SHALL HAVE A TIMED AUTOMATIC TELEPHONE DIAL OUT CAPABILITY TO A MONITORING LOCATION OR 911. THE TWO WAY COMMUNICATION SYSTEM SHALL INCLUDE BOTH AUDIBLE AND VISIBLE SIGNALS. DIRECTION FOR THE USE OF TWO WAY COMMUNICATION SYSTEM. INSTRUCTION FOR SUMMONING ASSISTANCE VIA THE TWO WAY COMMUNICATION SYSTEM AND WRITTEN IDENTIFICATION OF THE LOCATION SHALL BE POSTED ADJACENT TO THE TWO WAY COMMUNICATION SYSTEM.
4	WIRELESS ACCESS POINT ABOVE CEILING IN ACCESSIBLE LOCATION SITE SURVEY SHALL BE COMPLETED BY THE TECHNOLOGY CONTRACTOR TO DETERMINE BEST LOCATION FOR EACH ZONE.
5	CONTRACTOR SHALL PROVIDE BATTERY PACK CARD READER.
6	AS PER NEC 210.8 PROVIDE GFCI RECEPTACLE AT READILY ACCESSIBLE LOCATION IF NOT CONTRACTOR SHALL PROVIDE GFCI PROTECTION IN BREAKER FOR CIRCUIT.
7	PROVIDE IG TYPE RECEPTACLE FOR TYPICAL FLOOR IT EQUIPMENTS.
8	GUEST ROOM PANEL BOARD SHALL BE FLUSH MOUNTED ON WALL AND MAINTAIN MIN. 2HR FIRE RESISTANCE RATING OF THE WALL. CONTRACTOR SHALL REFER DETAIL 7 ON SHEET E-102. CONTRACTOR SHALL MAINTAIN MIN CLEAR SPACE REQUIRED AS PER NEC ARTICLE 110.26
9	MAGNETIC DOOR-HOLD TIED TO THE BUILDING FIRE ALARM CONTROL PANEL. PROVIDE ELECTRICAL CIRCUIT EM-54 CONNECTION TO MAGNETIC DOOR-HOLD TYPICAL FOR ALL FLOORS. CONTRACTOR SHALL ENSURE TO PROVIDE ELECTROMAGNETIC DOOR HOLD OPEN MECHANISM CONNECTED TO THE FIRE ALARM SYSTEM AND ELECTRICAL SERVICE TO HOLD DOOR OPEN AND TO AUTOMATICALLY RELEASE DOORS WHEN AN ALARM IS ACTIVATED.
10	CONTRACTOR SHALL PROVIDE SWITCH FOR DISCONNECT FOR EXHAUST FAN APPLIANCE OF MORE THAN 1/8HP THAT COMPLIES WITH NEC 422.34(A), (B), (C) OR OTHERWISE PROVIDE HARDWARE CONNECTION TO EXHAUST FAN ON EM PANEL.
11	FIRE/SMOKE DAMPER CONNECT TO FIRE ALARM SYSTEM. SEE MECHANICAL DRAWING FOR LOCATION AND REQUIREMENT. PROVIDE ELECTRICAL CONNECTION TO FIRE/SMOKE DAMPER FROM CKT EM: 53 TYPICAL FOR ALL FLOOR.
12	CONTRACTOR TO PROVIDE JUNCTION BOX FOR SPLIT UNIT CONNECTION BEING FED BY ITS RESPECTIVE OUTDOOR UNIT. CONTRACTOR TO COORDINATE WITH MECHANICAL VENDOR ON SITE AND PROVIDE NECESSARY ARRANGEMENTS.



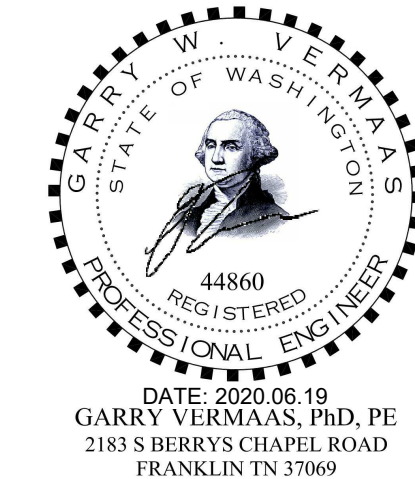
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RICARDO J. MUNIZ-GUILLET, AIA
5453 NW 106TH DR
CORAL SPRINGS, FL 33076

MEP ENGINEER
GARRY VERMAAS PhD, PE
2183 S BERRYS CHAPEL ROAD
FRANKLIN, TN 37069

Seal:



Owner:



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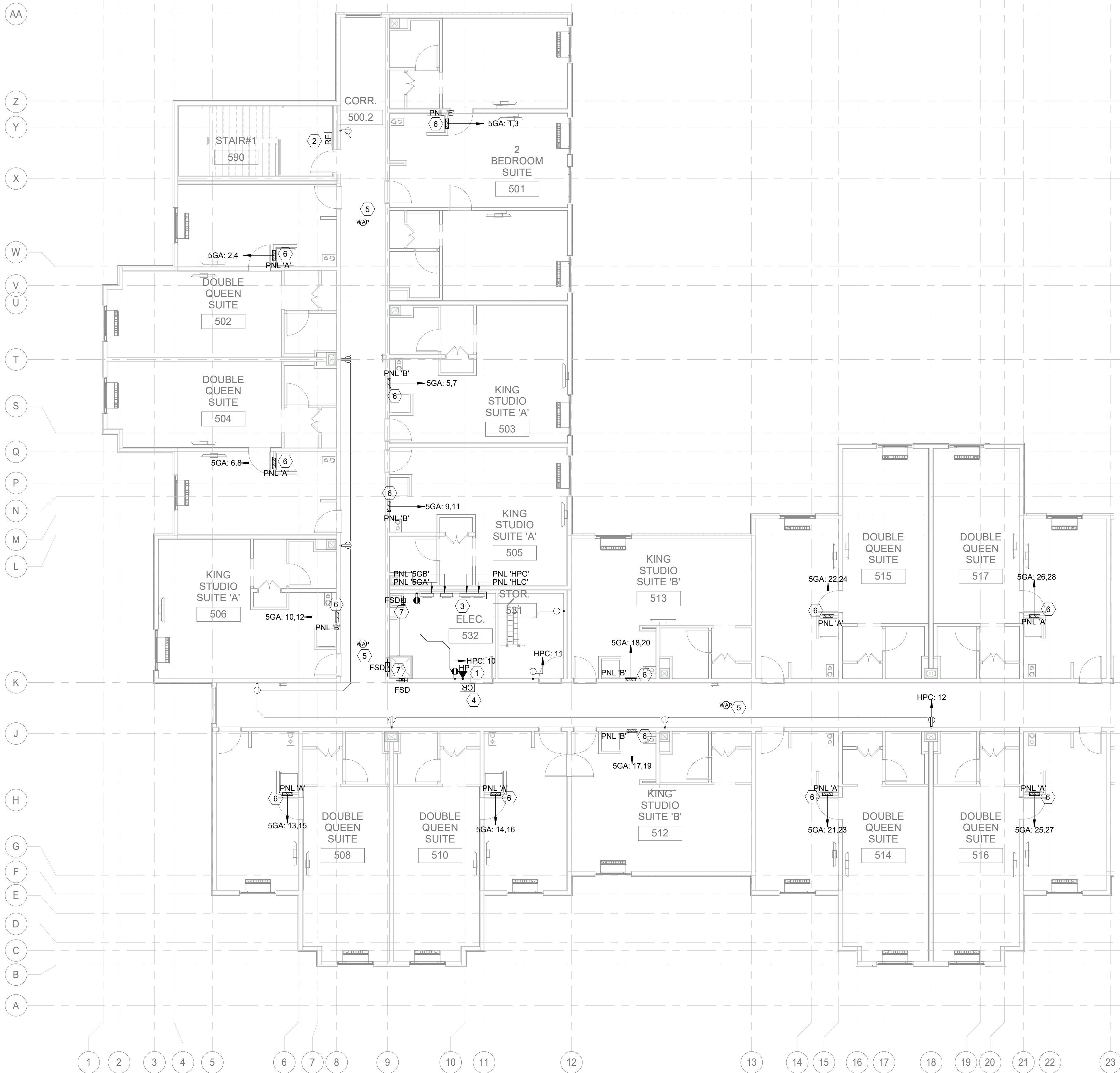
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SHEET NAME

4TH FLOOR POWER
PLAN B

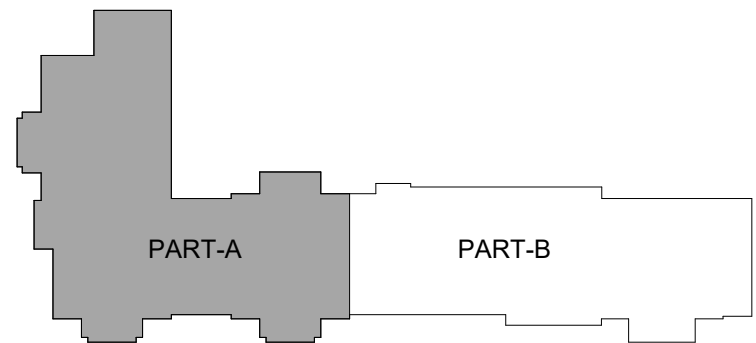
DRAWINGS NO.

E-208

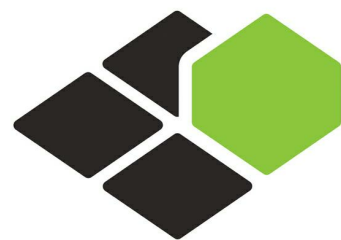


1 5TH FLOOR POWER PLAN A
1/8" = 1'-0"

E-209 KEY NOTES	
#	TEXT
1	HOUSE PHONE ONLY W/ AUTOMATIC DIAL TO FRONT DESK AT LOCATE 12" FROM DOOR U.N.O. 44" AFF.
2	GC/FIRE VENDOR SHALL PERFORM RADIO FREQUENCY COVERAGE TESTING AND PROVIDE DISTRIBUTED ANTENNA SYSTEM (DAS) ACCORDINGLY TO COMPLY WITH IFC SECTION 510 AND LOCAL AHJ REQUIREMENT.
3	CONTRACTOR SHALL CO-ORDINATE ELECTRICAL ROOM SIZE WITH PANEL PHYSICAL DIMENSION. CONTRACTOR SHALL PROVIDE MIN. CLEARANCE REQUIRED AS PER NEC ARTICLE 110.26 AND PLACE PANEL ACCORDINGLY.
4	CONTRACTOR SHALL PROVIDE BATTERY PACK CARD READER.
5	WIRELESS ACCESS POINT ABOVE CEILING IN ACCESSIBLE LOCATION SITE SURVEY SHALL BE COMPLETED BY THE TECHNOLOGY CONTRACTOR TO DETERMINE BEST LOCATION FOR EACH ZONE.
6	GUEST ROOM PANEL BOARD SHALL BE FLUSH MOUNTED ON WALL AND MAINTAIN MIN. 2HR FIRE RESISTANCE RATING OF THE WALL. CONTRACTOR SHALL REFER DETAIL 7 ON SHEET E-102. CONTRACTOR SHALL MAINTAIN MIN CLEAR SPACE REQUIRED AS PER NEC ARTICLE 110.26
7	FIRE/SMOKE DAMPER CONNECT TO FIRE ALARM SYSTEM. SEE MECHANICAL DRAWING FOR LOCATION AND REQUIREMENT. PROVIDE ELECTRICAL CONNECTION TO FIRE/SMOKE DAMPER FROM CKT EM: 53 TYPICAL FOR ALL FLOOR.



KEYPLAN



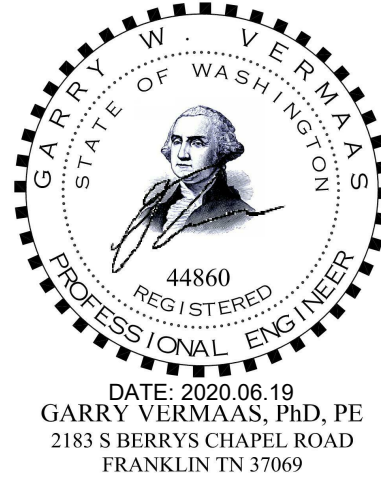
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RICARDO J. MUNIZ-GUILLET, AIA
5453 NW 106TH DR
CORAL SPRINGS, FL 33076

MEP ENGINEER
GARRY VERMAAS PhD, PE
2183 S BERRYS CHAPEL ROAD
FRANKLIN, TN 37069

Seal:



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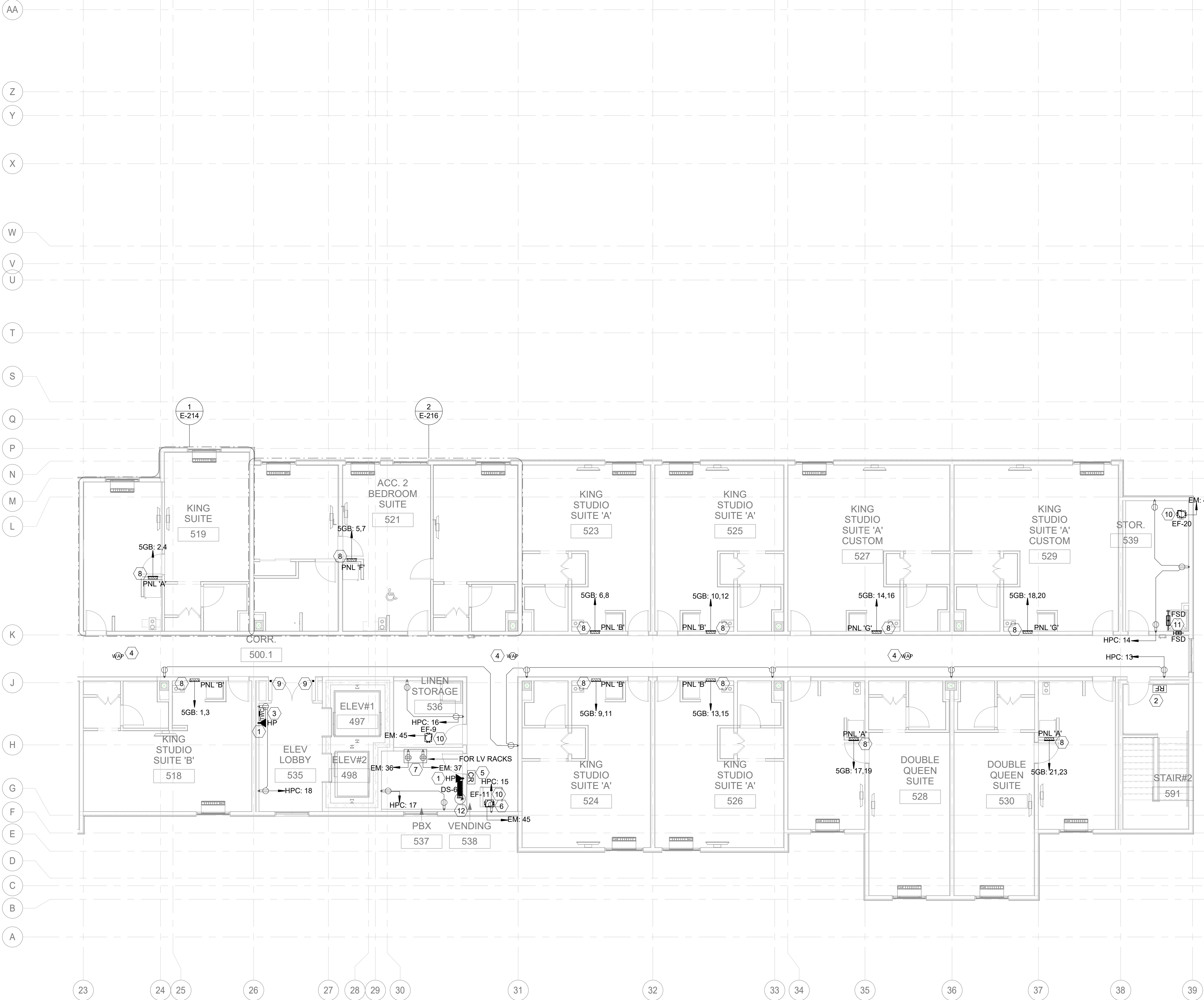
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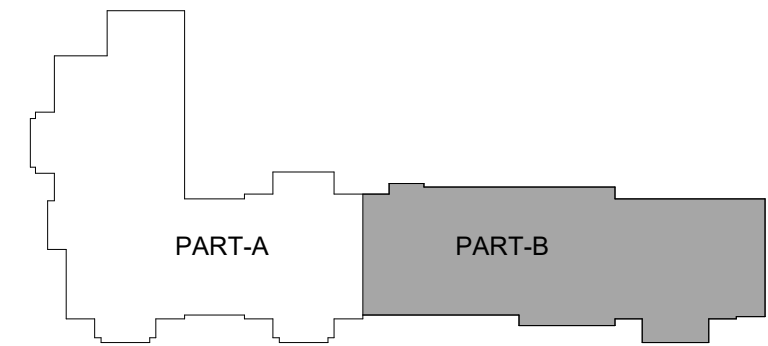
5TH FLOOR POWER
PLAN A

DRAWINGS NO.

E-209



1 5TH FLOOR POWER PLAN B
1/8" = 1'-0"



KEYPLAN

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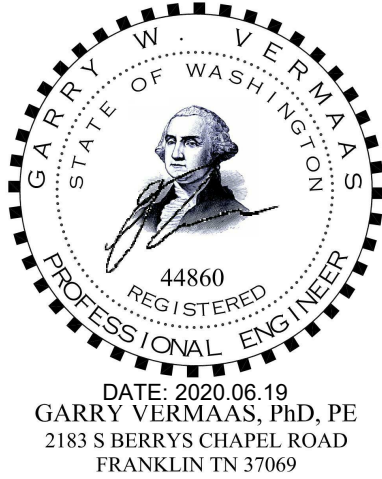
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5453 NW 106TH DR
CORAL SPRINGS, FL 33076

MEP ENGINEER
GARRY VERMAAS PhD, PE
2183 S BERRYS CHAPEL ROAD
FRANKLIN, TN 37069

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Dakota Legacy Group
Hospitality Development
4500 36TH AVE. S SUITE
200, FARGO, ND 58104
701.551.8000 (OFFICE)



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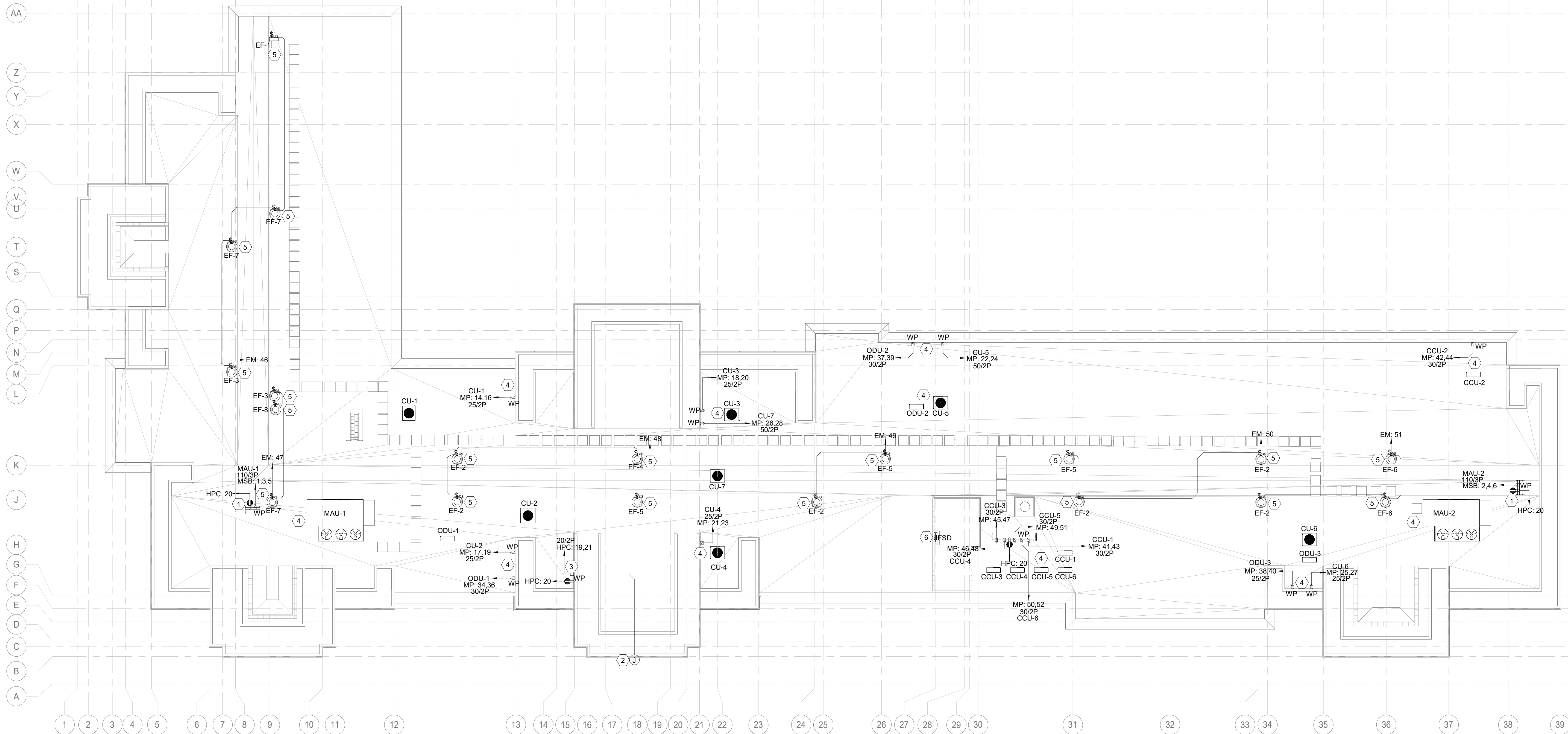
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SHEET NAME

5TH FLOOR POWER
PLAN B

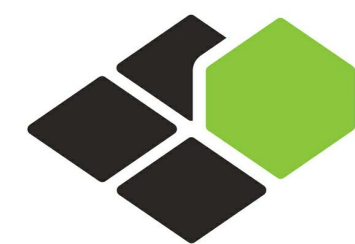
DRAWINGS NO.

E-210



1 ROOF POWER PLAN
3/32" = 1'-0"

E-211 KEY NOTES	
#	TEXT
1	CONTRACTOR SHALL PROVIDE WP/GFCI TYPE UTILITY RCPT WITH IN 25FT FOR MAINTENANCE ACCORDING TO NEC 2017 ARTICLE 210.63 NOT IN THE SAME CIRCUIT AS THAT OF THE EQUIPMENT.
2	J-BOX FOR BUILDING SIGN. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS BEFORE ROUGH-IN SIGN. WILL BE CONTROLLED BY TIME CLOCK.
3	CONTRACTOR SHALL PROVIDE A DISCONNECT LOCATED WITHIN SIGHT OF THE CONTROLLER MUST BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
4	CONTRACTOR SHALL CO-ORDINATE WITH MECHANICAL VENDOR FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT AND PROVIDE DISCONNECT SWITCH ACCORDINGLY. CONTRACTOR SHALL MAINTAIN MIN. CLEAR SPACE REQUIRED AS PER NEC ARTICLE 110.26. CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH NOT ACCESSIBLE TO COMMON PERSON.
5	CONTRACTOR SHALL PROVIDE SWITCH FOR DISCONNECT FOR EXHAUST FAN APPLIANCE OF MORE THAN 1/8HP THAT COMPLIES WITH NEC 422.34(A), (B), (C) OR OTHERWISE PROVIDE HARDWARE CONNECTION TO EXHAUST FAN ON EM PANEL.
6	FIRE/SMOKE DAMPER CONNECT TO FIRE ALARM SYSTEM. SEE MECHANICAL DRAWING FOR LOCATION AND REQUIREMENT. PROVIDE ELECTRICAL CONNECTION TO FIRE/SMOKE DAMPER FROM CKT EM: 53 TYPICAL FOR ALL FLOOR.



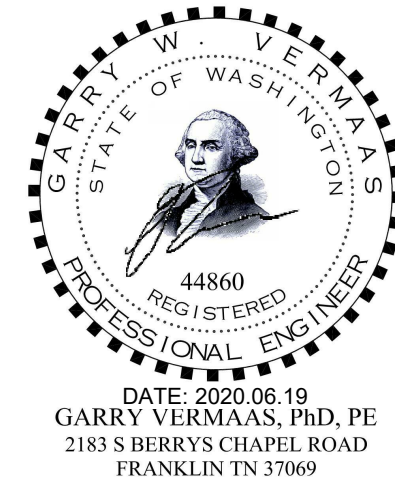
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RICARDO J. MUNIZ-GUILLET, AIA
5453 NW 106TH DR
CORAL SPRINGS, FL 33076

MEP ENGINEER
GARRY VERMAAS PhD, PE
2183 S BERRYS CHAPEL ROAD
FRANKLIN, TN 37069

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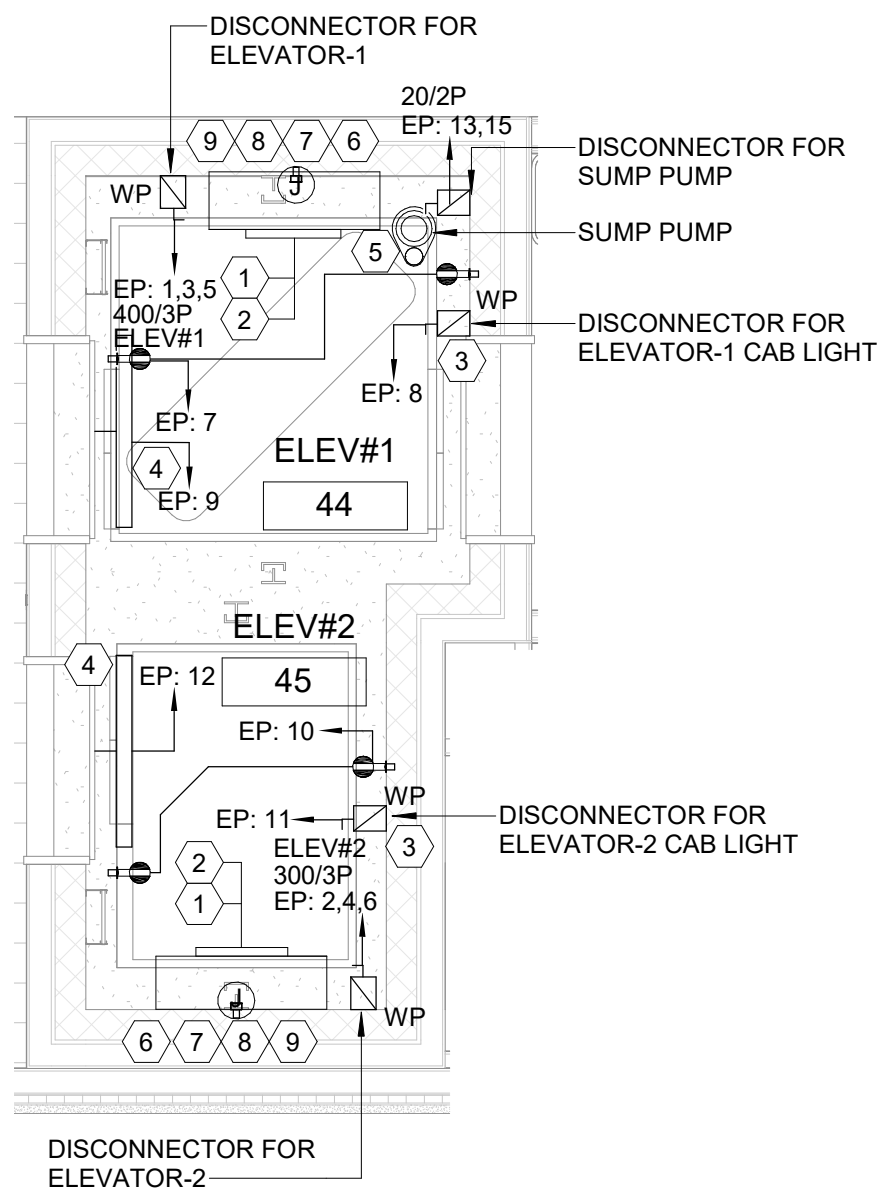
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SHEET NAME

ROOF ELECTRICAL
PLAN

DRAWINGS NO.

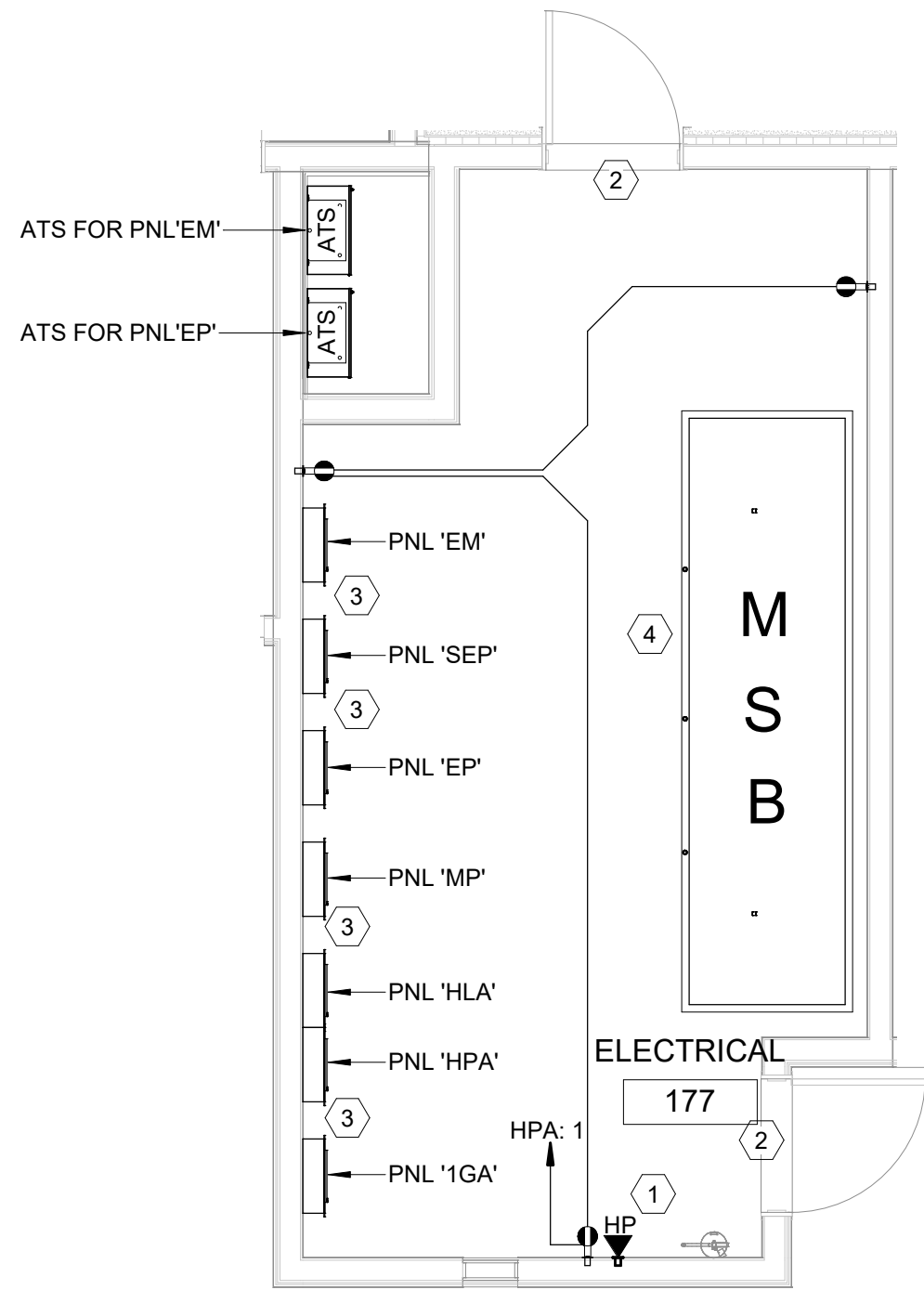
E-211



ELEVATOR EQUIPMENT SCHEDULE							
QTY	DESCRIPTION	ELECTRICAL LOAD IN KW (EACH)	MOTOR HORSEPOWER RATING	OUTLET RATING	ELECTRICAL SUPPLY	MOUNTING HEIGHT	REMARKS
1	SP	2.516	1	20/2P	208/60Hz/1PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM
1	ELEVATOR-1	56.2	50	400/3P (SHUNT TRIP)	208/60Hz/3PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM
1	ELEVATOR-2	44.1	40	300/3P (SHUNT TRIP)	208/60Hz/3PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM

#	TEXT
1	CAT. #6 CABLES TO ELECTRICAL ROOM IN 3/4"C. ONE CABLE FOR EACH ELEVATOR.
2	JUNCTION BOX FOR TELEPHONE SERVICE TO ELEVATOR.
3	PROVIDE DISCONNECT SWITCH-20AMP-120V-1PHASE-60HZ FOR ELEVATOR CAB LIGHTING.
4	WALL MOUNTED ELEVATOR PIT LIGHTING AND RECEPTACLE LOCATED AT EACH FLOOR. CONTRACTOR SHALL PROVIDE GFCI RECEPTACLE AT READILY ACCESSIBLE LOCATION. CONTRACTOR SHALL PROVIDE GFCI PROTECTION TO PIT RCPT ACCORDING TO NEC SECTION 620.85
5	CONTRACTOR SHALL CO-ORDINATE WITH PLUMBING VENDOR FOR SUMP PUMP LOCATION AND CONTROLLER LOCATION AND PROVIDE DISCONNECT SWITCH ACCORDINGLY.
6	CONTROL CIRCUIT TO SHUT DOWN ELEVATOR POWER SHALL BE MONITORED FOR THE PRESENCE OF OPERATING VOLTAGE. LOSS OF VOLTAGE TO THE CONTROL CIRCUIT FOR THE DISCONNECTING MEANS SHALL CAUSE A SUPERVISORY SIGNAL TO BE INDICATED AT THE BUILDING FIRE CONTROL UNIT.
7	CONTRACTOR SHALL REFER SECTION 620.53 OF THE NEC AND CIRCUITS SHALL BE PROVIDED WITH AN ENCLOSED CIRCUIT BREAKER OR EXTERNALLY OPERABLE FUSED MOTOR CIRCUIT SWITCH AS A DISCONNECTING MEANS.
8	CONTRACTOR SHALL CO-ORDINATE WITH ELEVATOR VENDOR FOR FINAL SIZE AND TYPE OF CONTROLLER BEFORE PRIOR TO PURCHASE SWITCHGEAR.
9	CONTRACTOR SHALL CO-ORDINATE WITH ELEVATOR VENDOR FOR EXACT LOCATION AND CONNECTION.

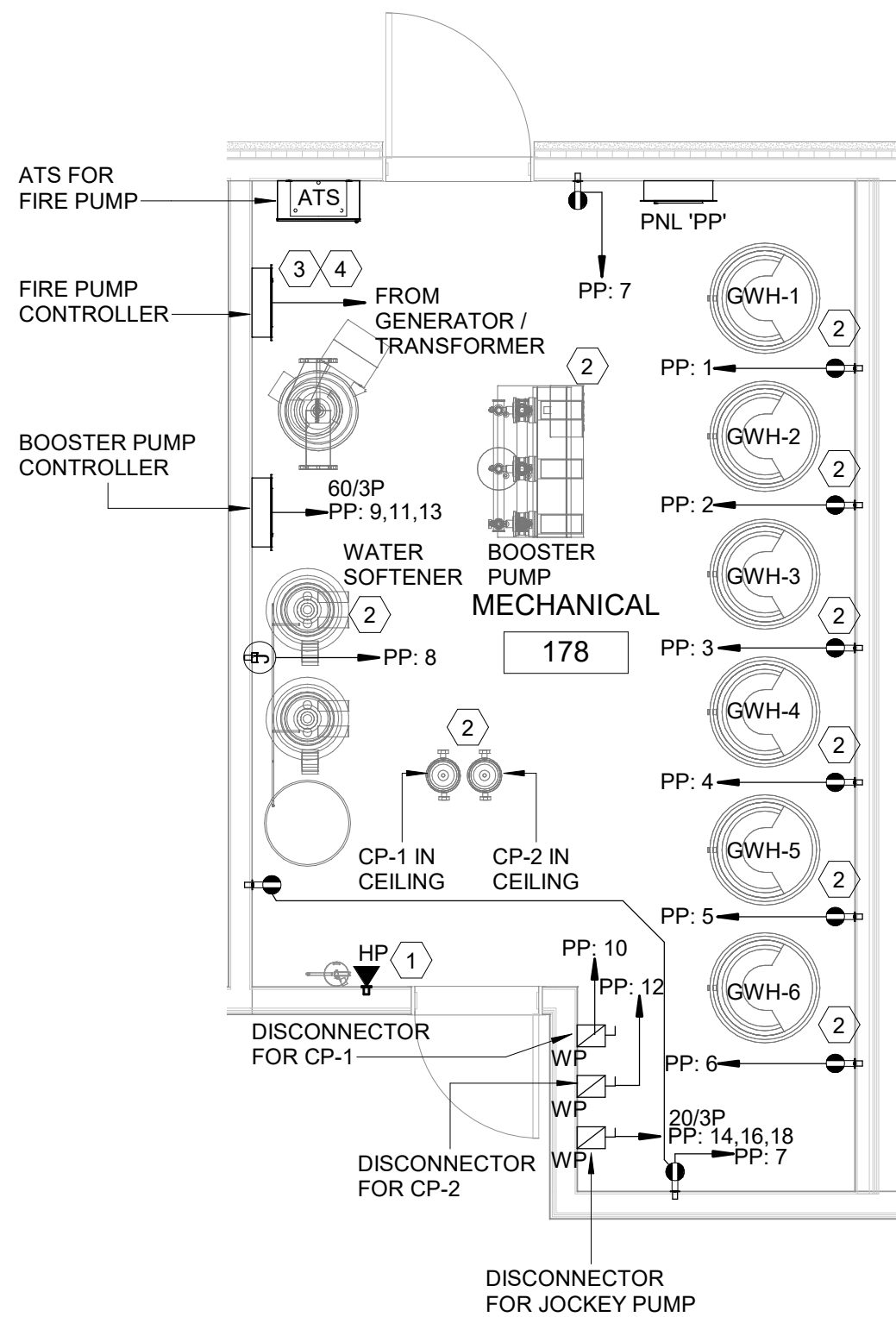
- NOTE:
1. ELECTRICAL CONTRACTOR SHALL OBTAIN ELEVATOR CUT SHEETS FROM OWNER AND COORDINATE BREAKER SIZE FOR ELEVATOR AS PER MANUFACTURER'S SPECIFICATIONS AT THE TIME OF BIDDING AND BEFORE SWITCHGEAR PRICING.
 2. ELECTRICAL CONTRACTOR SHALL PROVIDE SELECTIVE COORDINATION REPORT TO CITY REVIEW BEFORE PRIOR TO INSTALLATION.



#	TEXT
1	HOUSE PHONE ONLY W/AUTOMATIC DIAL TO FRONT DESK. LOCATE HOUSE PHONES 12" FROM DOOR U.N.O., 44" AFF.
2	CONTRACTOR SHALL PROVIDE A PERSONNEL DOOR(S) INTENDED FOR ENTRANCE TO AND EGRESS FROM THE WORKING SPACE LESS THAN 7.6 M (25 FT) FROM THE NEAREST EDGE OF THE WORKING SPACE. THE DOOR(S) SHALL OPEN IN THE DIRECTION OF EGRESS AND BE EQUIPPED WITH PANIC BARS, PRESSURE PLATES, OR OTHER DEVICES THAT ARE NORMALLY LATCHED BUT OPEN UNDER SIMPLE PRESSURE AS PER SECTION 110.26(C)(3) OF THE NEC.
3	CONTRACTOR SHALL VERIFY ELECTRICAL EQUIPMENT, SUCH AS SWITCHBOARDS, PANEL BOARDS AND METER SOCKET ENCLOSURES, THAT ARE IN OTHER THAN DWELLING UNITS SHALL BE MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS AS REQUIRED BY SECTION 110.16 OF NFPA 70.
4	CONTRACTOR SHALL PROVIDE HOUSEKEEPING PAD FOR MSB AND OTHER FLOOR MOUNTED PANELS. PADS SHALL BE OF CONCRETE AND NOT LESS THAN 4" THICK. FOR FINAL PAD SIZE, CONTRACTOR TO VERIFY WITH ELECTRICAL SWITCHGEAR SUBMITTAL.

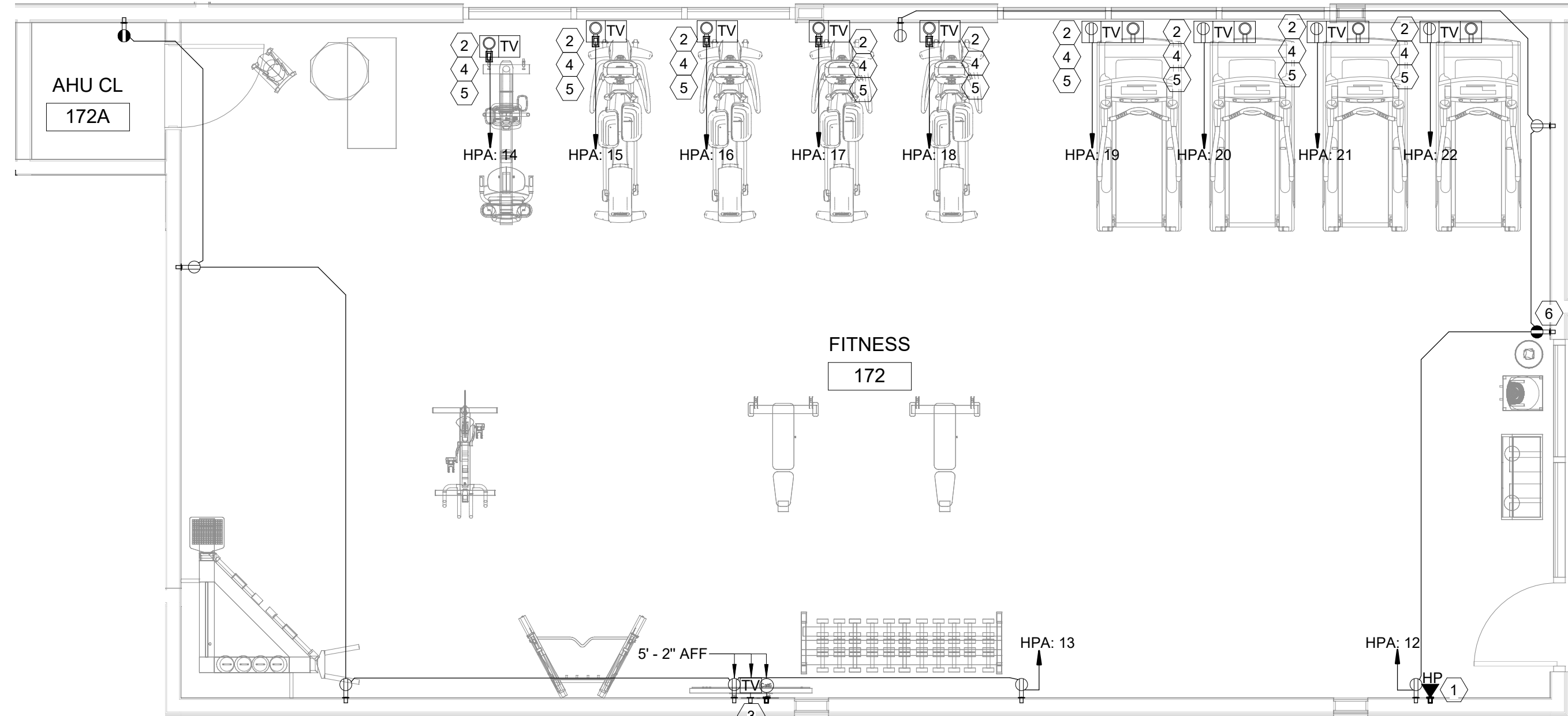
4 ELEVATOR 1/4" = 1'-0"

1 ELECTRICAL ROOM 1/4" = 1'-0"



#	TEXT
1	HOUSE PHONE ONLY W/AUTOMATIC DIAL TO FRONT DESK. LOCATE HOUSE PHONES 12" FROM DOOR U.N.O., 44" AFF.
2	CONTRACTOR SHALL CO-ORDINATE WITH PLUMBING VENDOR FOR EQUIPMENTS FINAL LOCATION AND PROVIDE POWER AND CONNECTION ACCORDINGLY. CONTRACTOR SHALL MAINTAINANCE MIN CLEAR SPACE REQUIRED AS PER NEC ARTICLE 110.26. CONTRACTOR SHALL ALSO REFER CODE AND PROVIDE POWER FOR MOTOR ACCORDINGLY.
3	FIRE PUMP VENDOR NEED TO CHECK THE EXACT LOCATION OF FIRE PUMP AND PROVIDE POWER ACCORDINGLY.
4	CONTRACTOR TO INSTALL A SOFT START KIT ON THE FIRE PUMP TO REDUCE THE MOTOR LOAD.

PLUMBING EQUIPMENT SCHEDULE							
EQUIPMENT TAG	QTY	DESCRIPTION	ELECTRICAL LOAD IN KW (EACH)	ELECTRICAL SUPPLY	MOUNTING HEIGHT	REMARKS	ELECTRICAL CIRCUIT
1	6	GWH-1,2,3,4,5,6	0.2	120V/60Hz/1PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM	PP: 1; PP: 2; PP: 3; PP: 4; PP: 5; PP: 6
2	1	WATER SOFTENER	0.5	120V/60Hz/1PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM	PP: 8
3	1	CP-1	0.625	120V/60Hz/1PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM	PP: 10
4	1	CP-2	0.28	120V/60Hz/1PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM	PP: 12
5	1	BOOSTER PUMP	15.99	208V/60Hz/3PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM	PP: 9, 11, 13
6	1	FIRE PUMP	31.702	208V/60Hz/3PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM	FROM GENERATOR/TRANSFORMER
7	1	JOCKEY PUMP	2.701	208V/60Hz/3PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM	PP: 14, 16, 18



#	TEXT
1	HOUSE PHONE ONLY W/AUTOMATIC DIAL TO FRONT DESK. LOCATE HOUSE PHONES 12" FROM DOOR U.N.O., 48" MAX AFF.
2	PROVIDE CABLE CONNECTION TO EACH LCD EQUIPPED EXERCISE MACHINE.
3	CONTRACTOR NEED TO VERIFY TELEVISION HEIGHT WITH ARCHITECTURAL DRAWING.
4	RECEPTACLE ARE IN FLOOR CONTRACTOR NEED TO PROVIDE ADEQUATE PROTECTION FOR THE SAME. TYPICAL FOR ALL FLOOR MOUNTED BOXES.
5	CONTRACTOR SHALL PROVIDE REQUIRED DATA AND POWER CONNECTIONS TO TREADMILL AND ELLIPTICAL CROSS TRAINERS ATTACHED WITH LCD SCREEN AS PER THE FINAL PLACEMENT OF THE EQUIPMENT.
6	CONTRACTOR SHALL CO-ORDINATE WITH FITNESS VENDOR AND PROVIDE POWER CONNECTION TO WATER COOLER STATION.

3 MECHANICAL ROOM 1/4" = 1'-0"

2 FITNESS ROOM 1/4" = 1'-0"



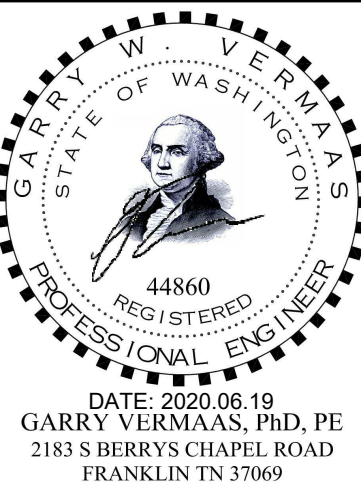
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5453 NW 106TH DR
CORAL SPRINGS, FL 33076

MEP ENGINEER
GARRY VERMAAS PhD, PE
2183 S BERRYS CHAPEL ROAD
FRANKLIN, TN 37069

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Hospitality Development:
4500 36TH AVE. S SUITE
200, FARGO, ND 58104
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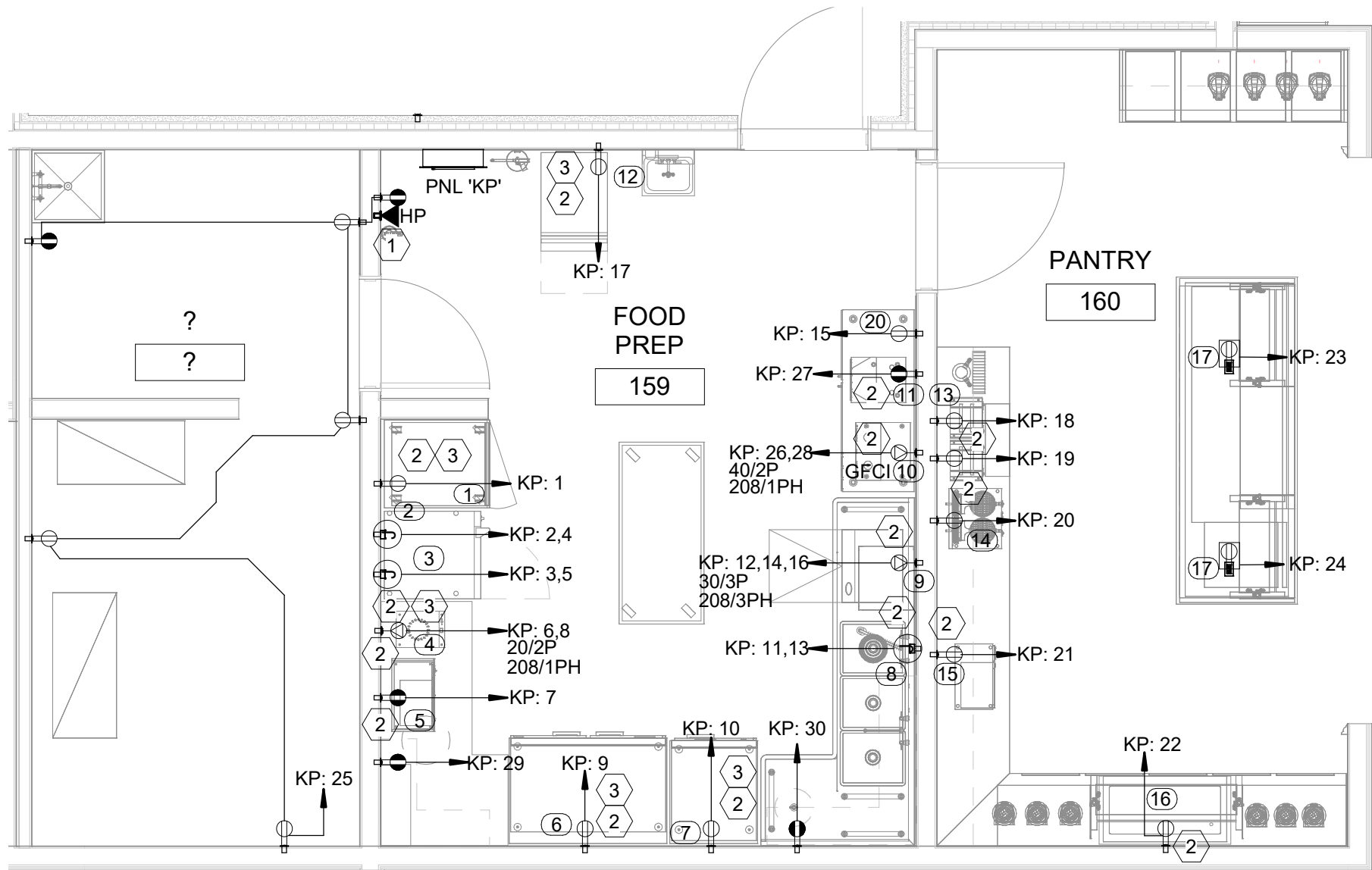
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SHEET NAME

ENLARGED FLOOR
POWER PLAN-1

DRAWINGS NO.

E-212



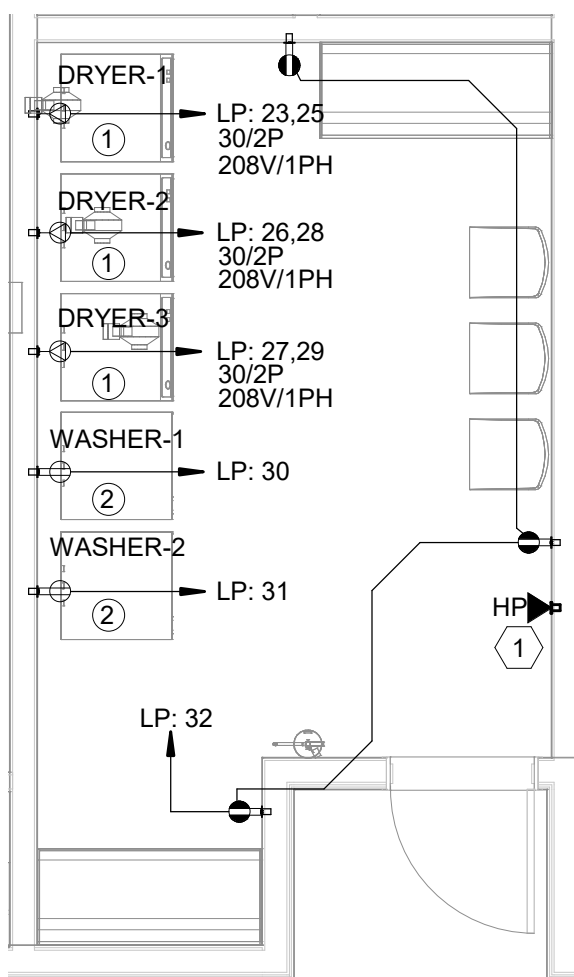
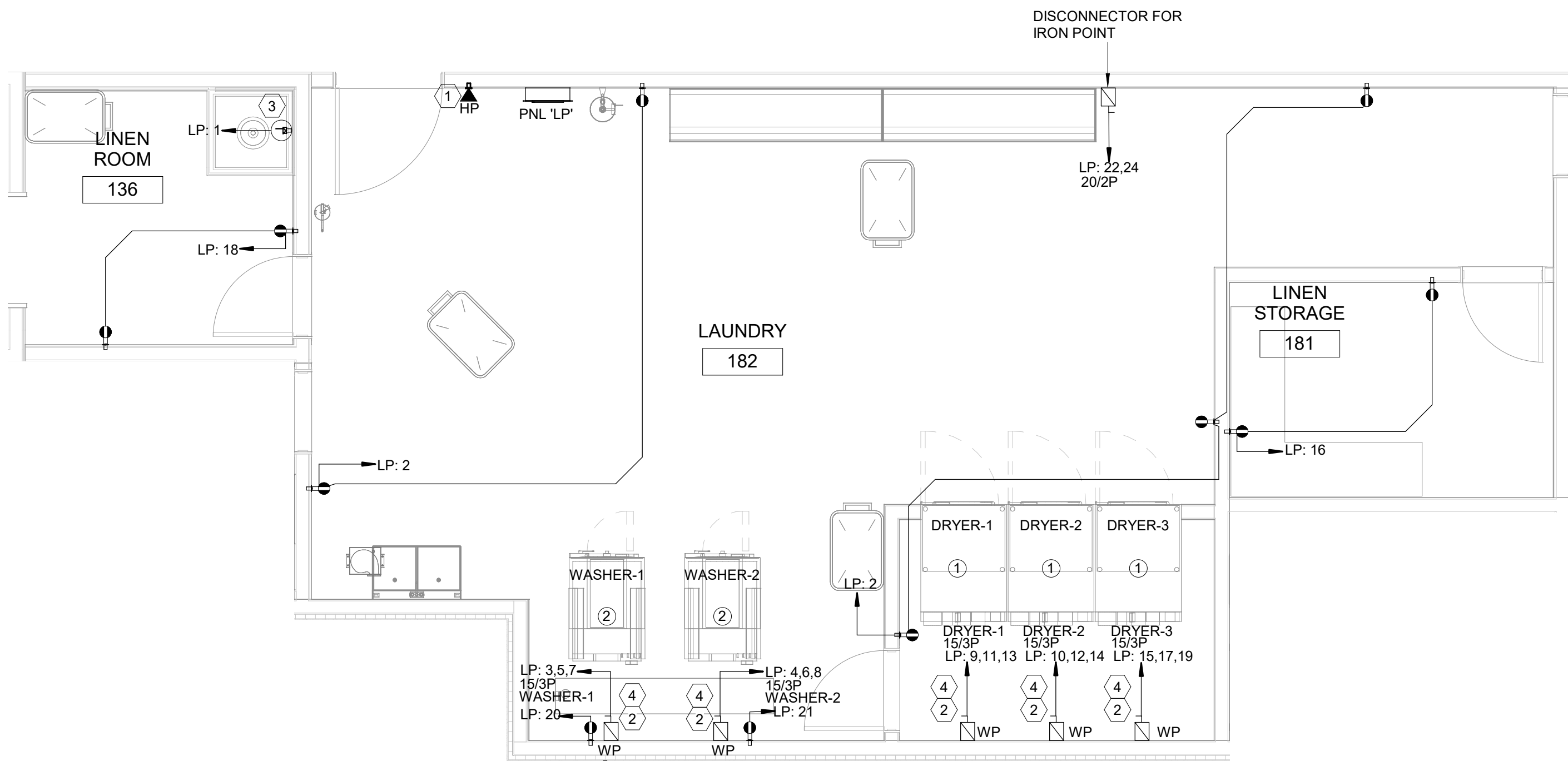
KITCHEN AND COFFEE HOUSE PUB EQUIPMENT SCHEDULE							
EQUIPMENT TAG	QTY	DESCRIPTION	ELECTRICAL LOAD IN KW	ELECTRICAL SUPPLY	MOUNTING HEIGHT	REMARK	ELECTRICAL CIRCUIT
1	1	REACH-IN REFRIGERATOR	0.720KW	120V/60Hz/1PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM	KP: 1
2	1	VENTLESS EXHAUST HOOD	0.416KW	208V/60Hz/1PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM	KP: 2.4
3	1	CONVECTION OVEN	5.8KW	208V/60Hz/1PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM	KP: 3.5
4	1	INDUCTION COOKER	3.8KW	208V/60Hz/1PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM	KP: 6.8
5	1	MICROWAVE OVEN	1.55KW	120V/60Hz/1PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM	KP: 7
6	1	REACH-IN REFRIGERATOR	0.840KW	120V/60Hz/1PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM	KP: 9
7	1	REACH-IN FREEZER	1.080KW	120V/60Hz/1PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM	KP: 10
8	1	DISPOSER	1.60KW	208V/60Hz/1PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM	KP: 11,13
9	1	UNDERCOUNTER DISHWASHER	6.0KW	208V/60Hz/3PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM	KP: 12,14,16
10	1	COFFEE BREWER	8.856KW	208V/60Hz/1PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM	KP: 26,28
11	1	JUICE DISPENSER	1.2KW	120V/60Hz/1PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM	KP: 27
12	1	ICE MACHINE	1.380KW	120V/60Hz/1PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM	KP: 17
13	2	TOASTER	1.8KW	120V/60Hz/1PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM	KP: 18 ; KP: 19
14	1	WAFFLE MAKER	1.2KW	120V/60Hz/1PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM	KH: 20
15	1	MICROWAVE OVEN	1.55KW	120V/60Hz/1PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM	KH: 21
16	1	REFRIGERATED COLD PAN	0.588KW	120V/60Hz/1PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM	KH: 22
17	2	CHAFING DISH	0.504KW	120V/60Hz/1PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM	KP: 23 ; KP: 24
20	1	KEG COOLER	0.66KW	120V/60Hz/1PH	VENDOR TO CONFIRM	VENDOR TO CONFIRM	KP: 15

KEY NOTES FOR FOOD PREP

#	TEXT
1	HOUSE PHONE ONLY W/AUTOMATIC DIAL TO FRONT DESK. LOCATE HOUSE PHONES 12" FROM DOOR U.N.O., 44"AFF.
2	CONTRACTOR SHALL COORDINATE WITH KITCHEN VENDOR AND PROVIDE CONNECTION ACCORDINGLY. CONTRACTOR SHALL PROVIDE ALL NECESSARY CORD AND ARRANGEMENT FOR CONNECTION.
3	AS PER NEC 210.8 PROVIDE GFCI RECEPTACLE AT READILY ACCESSIBLE LOCATION IF NOT CONTRACTOR SHALL PROVIDE GFCI PROTECTION IN BREAKER FOR CIRCUIT.

1 FOOD PREP & PANTRY

1/4" = 1'-0"



LAUNDRY EQUIPMENT SCHEDULE							
EQUIPMENT TAG	QTY	DESCRIPTION	ELECTRICAL LOAD IN KW (EACH)	OUTLET RATING	ELECTRICAL SUPPLY	MOUNTING HEIGHT	ELECTRICAL CIRCUIT
1	3	MAIN LAUNDRY-DRYERS (UNIMAC-UTF75N)	2.161	15/3P	208V/60Hz/3PH	VENDOR TO CONFIRM	LP: 9,11,13 LP: 10,12,14 LP: 15,17,19
2	2	MAIN LAUNDRY-WASHERS (UNIMAC-UW7065D40V)	3.602	15/3P	208V/60Hz/3PH	VENDOR TO CONFIRM	LP: 3,5,7 LP: 4,6,8

GUEST LAUNDRY EQUIPMENT SCHEDULE							
EQUIPMENT TAG	QTY	DESCRIPTION	ELECTRICAL LOAD IN KW (EACH)	OUTLET RATING	ELECTRICAL SUPPLY	MOUNTING HEIGHT	ELECTRICAL CIRCUIT
1	3	GUEST LAUNDRY-DRYERS (SPEED QUEEN-SDENCAGS)	5.408	30/2P	208V/60Hz/1PH	VENDOR TO CONFIRM	LP: 23,25 LP: 26,28 LP: 27,29
2	2	GUEST LAUNDRY-WASHERS (SPEED QUEEN-SENNCAGS)	1.176	15/1P	120V/60Hz/1PH	VENDOR TO CONFIRM	LP: 30 LP: 31

KEY NOTES FOR LAUNDRY

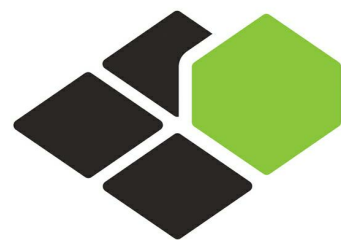
#	TEXT
1	HOUSE PHONE ONLY W/AUTOMATIC DIAL TO FRONT DESK. LOCATE HOUSE PHONES 12" FROM DOOR U.N.O., 44"AFF.
2	AS PER NEC SECTION 210.50 (C) APPLIANCE OUTLETS, APPLIANCE RECEPTACLE OUTLETS INSTALLED SPECIFIC APPLIANCES, SUCH AS LAUNDRY EQUIPMENT, SHALL BE INSTALLED WITHIN 1.8 M (6 FT) OF THE INTENDED LOCATION OF THE APPLIANCE. (CONTRACTOR TO PROVIDE ELECTRICAL POINT FOR DRYER AND WASHER SHOULD BE WITHIN 6FT FROM THE EQUIPMENT).
3	J-BOX FOR LAUNDRY CHUTE DOOR INTERLOCK TO TIE TO CIRCUIT LP: 1. CONTRACTOR SHALL COORDINATE WITH LAUNDRY VENDOR FOR CONNECTION OF LAUNDRY CHUTE CONTROL PANEL AND FOR LOOKOUT TIMER SWITCH LOCATION.
4	CONTRACTOR SHALL CO-ORDINATE WITH LAUNDRY VENDOR FOR EXACT LOCATION AND POWER REQUIREMENT. PROVIDE ALL NECESSARY ARRANGEMENT AND CORD REQUIRED FOR CONNECTION.

2 LAUNDRY

1/4" = 1'-0"

3 GUEST LAUNDRY

1/4" = 1'-0"



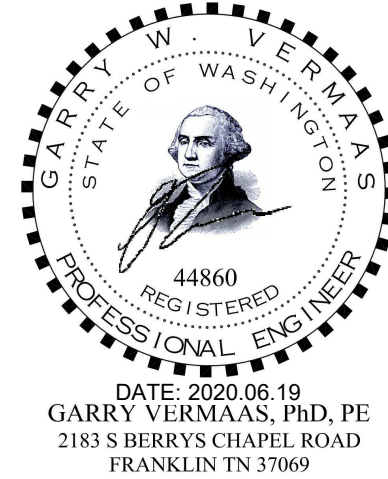
BASE4

2901 CLINT MOORE ROAD, #114
BOCA RATON, FLORIDA 33496
888.901.8008 www.base-4.com

RICARDO J. MUNIZ-GUILLET, AIA
5453 NW 106TH DR
CORAL SPRINGS, FL 33076

MEP ENGINEER
GARRY VERMAAS PhD, PE
2183 S BERRYS CHAPEL ROAD
FRANKLIN, TN 37069

Seal:



Owner:



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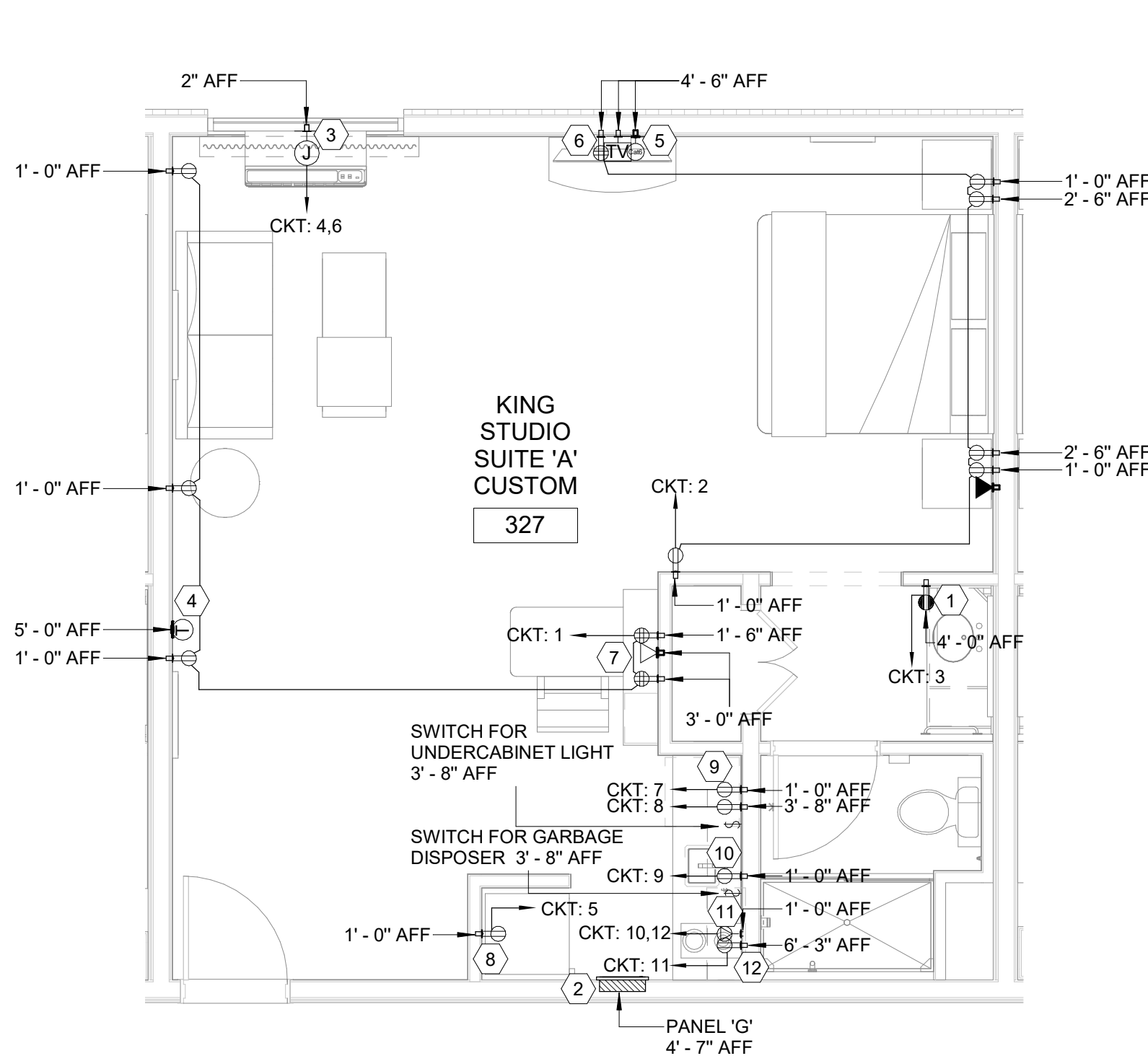
PROJECT NO.
B4-124-1803

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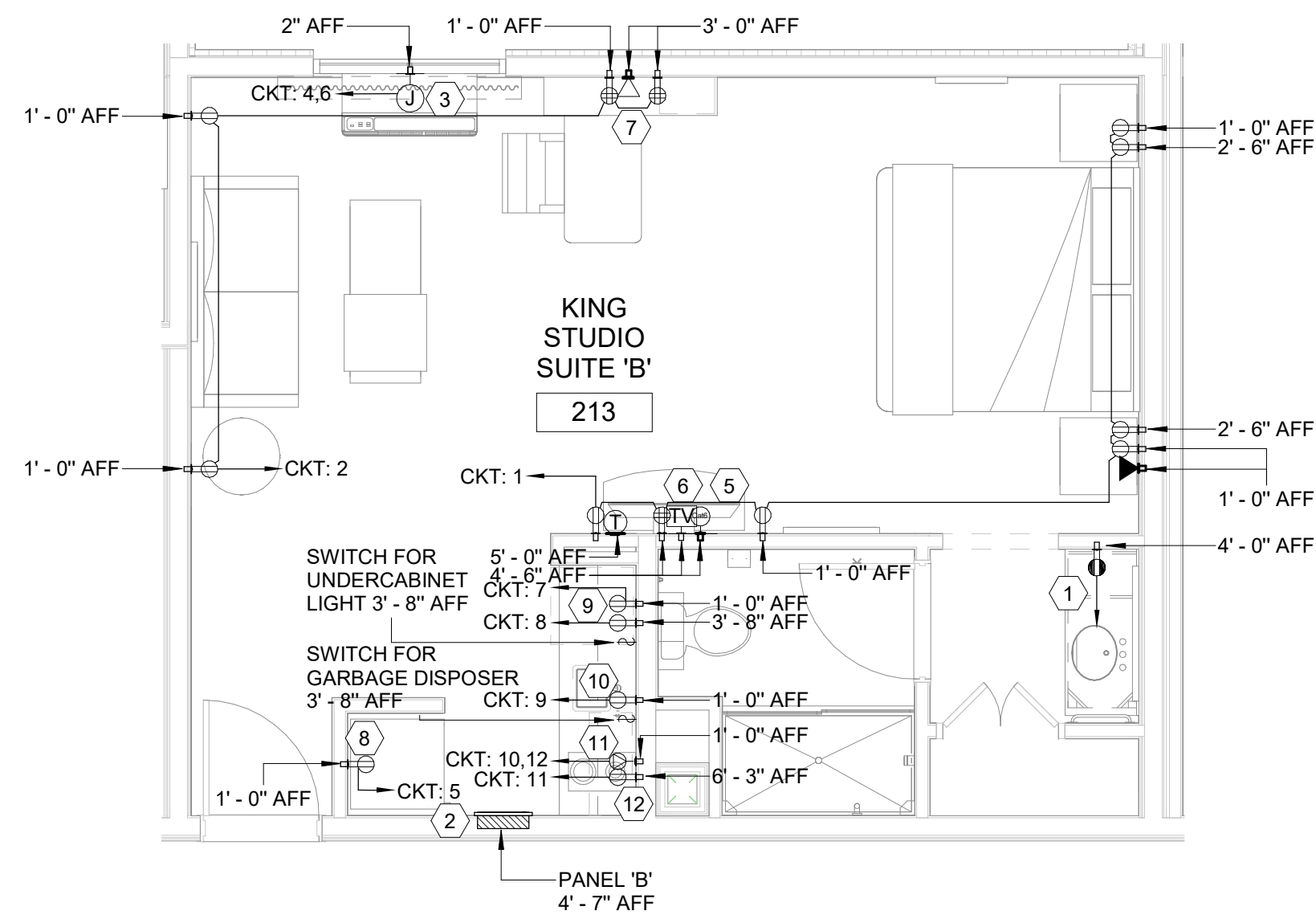
ENLARGED FLOOR
POWER PLAN-2

DRAWINGS NO.

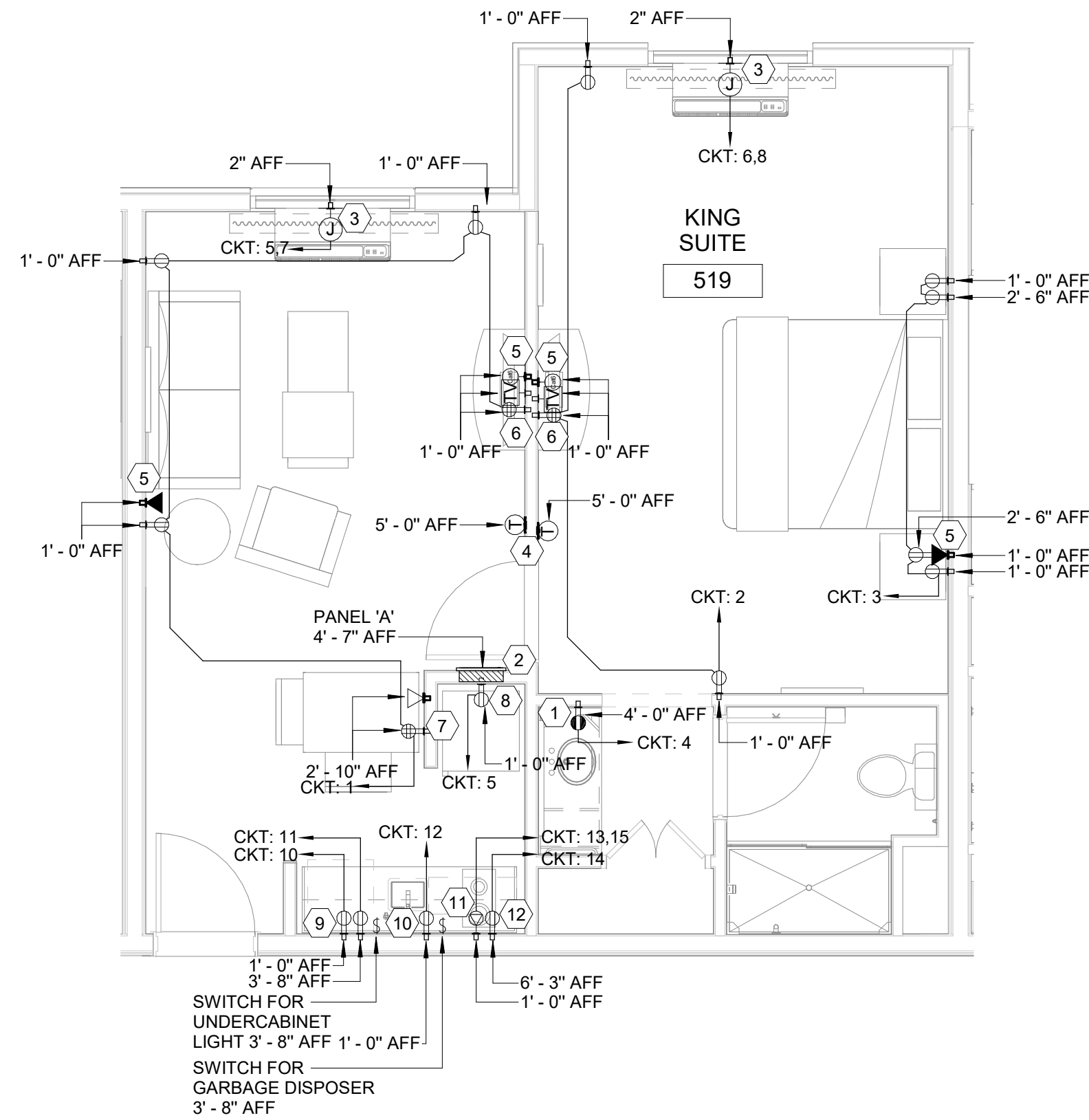
E-213



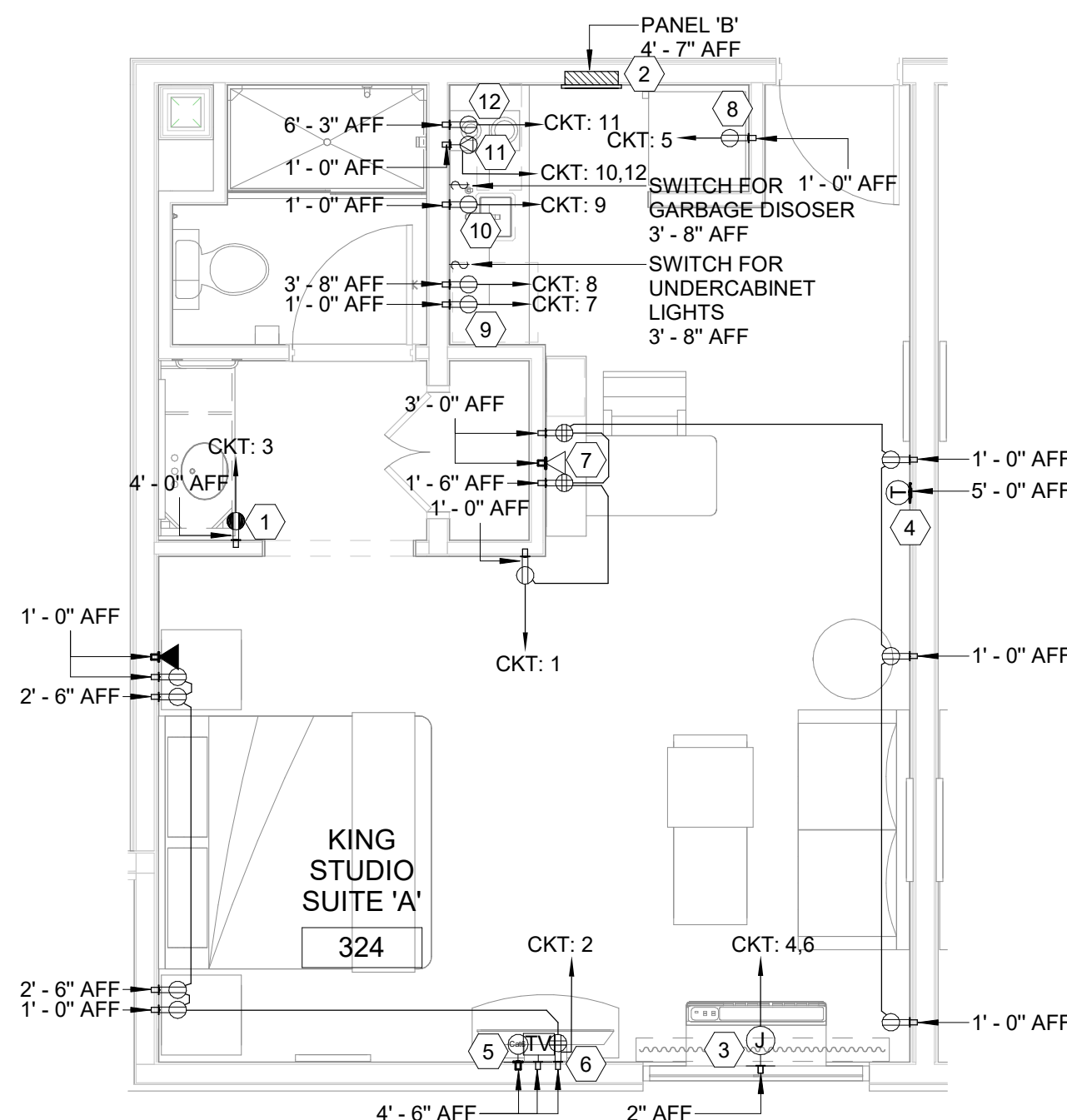
3 KING STUDIO 'A' CUSTOM
1/4" = 1'-0"



4 KING STUDIO SUITE 'B'
1/4" = 1'-0"



1 KING SUITE
1/4" = 1'-0"



2 KING STUDIO SUITE 'A'
1/4" = 1'-0"

GENERAL NOTES:

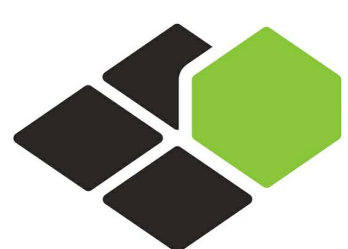
- REFER TO ARCHITECTURAL/ID DRAWINGS FOR EXACT DIMENSIONS AND HEIGHT.
- REFER TO SHEET E-301 THROUGH E-310 FOR PANEL SCHEDULE, RISER DIAGRAM AND BRANCH CIRCUIT INFORMATION.
- BOXES ON OPPOSITE SIDES OF A RATED WALL OR PARTITION MUST BE SPACED 24" (603CM) MINIMUM HORIZONTAL. REDUCED SPACING IS ALLOWED IF BOXES ARE PROTECTED WITH 3/4" FIRE BARRIER MOLDABLE PUTTY+PADS, PROVIDED BOXES ARE NOT BACK TO BACK.
- ALL SWITCHES IN GUEST ROOM TO BE MOUNTED AT 42" A.F.F. TO CENTER UNLESS OTHERWISE NOTED.
- PROVIDE ALL NON LOCKING-TYPE, 125-VOLT, 15- AND 20-AMPERE RECEPTACLES LOCATED IN GUESTROOMS AND GUEST SUITES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES AS PER NEC 406.12.
- ACCESSIBLE AND HEARING IMPAIRED GUEST ROOMS SHALL COMPLY W/REQUIREMENTS OF THE A.D.A GUIDELINES MANUAL; NAMELY ADA 9.2.2, 9.3 & 4.315 TELEPHONE SHALL HAVE ADJUSTABLE VOLUME CONTROL AND THE ROOM SHALL HAVE NOTIFICATION ALARM DEVICE SYSTEMS FOR DOOR KNOCK OR BELL AND FOR INCOMING TELEPHONE CALLS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING WITH THE AUTHORITY HAVING JURISDICTION, THAT THE RECEPTACLES LAYOUT MEETS THE REQUIREMENTS OF 210.52 AND LOCAL REQUIREMENTS.
- AS PER NEC ARTICLE 210.8 GFCI PROTECTION REQUIRED FOR ALL RECEPTACLES THAT SERVE KITCHEN COUNTERTOP SURFACES IN DWELLING UNIT. GFCI PROTECTION IS NOT REQUIRED FOR RECEPTACLES SERVING APPLIANCES LIKE DISHWASHERS, OR CONVENIENCE RECEPTACLES INSTALLED WITHIN 6FT OF THE OUTSIDE EDGE OF A WET BAR SINK MUST ALSO BE GFCI-PROTECTED. GFCI PROTECTION IS NOT REQUIRED FOR RECEPTACLES REFRIGERATORS, ICE MAKERS, WATER HEATERS OR CONVENIENCE RECEPTACLES THAT DO NOT SUPPLY COUNTER-TOP SURFACES
- ALL BRANCH CIRCUITS SUPPLYING OUTLETS IN LIVING AREA, SLEEPING AREA AND DINING AREA IN GUEST ROOM AND SUITES SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION TYPE, INSTALLED TO PROVIDE PROTECTION OF BRANCH CIRCUIT AS PER NEC 210.12.
- CONTRACTOR SHALL PROVIDE REMOTE OPERATED, WALL-MOUNTED, HARD-WIRED ELECTRONIC DIGITAL THERMOSTAT IN GUEST ROOM SLEEPING AREA.
- COORDINATE JUNCTION BOX & OUTLET LOCATIONS ACCORDING TO FURNITURE LOCATION.
- AT WALLS BETWEEN ADJACENT ROOMS, ELECTRICAL OUTLET LOCATIONS, INCLUDING TV AND TELEPHONE OUTLETS, SHALL BE OFFSET 6" MIN. HORIZONTALLY FOR INSTALLATION.
- LIGHT SWITCH AND GFCI OUTLETS CAN BE MOUNTED IN A COMMON BOX WITH COVER PLATE. COORDINATE CLEARANCE WITH MIRROR.
- HEIGHT OF ALL SWITCHES, OUTLETS, ETC., TO MEET ACCESSIBILITY STANDARDS FOR MAXIMUM AND MINIMUM REACH RANGE. FEDERAL AND LOCAL CODES APPLY AND THE MOST STRINGENT STANDARD PREVAILS. SWITCHES ON LAMPS MUST BE TOGGLE TYPE.
- ACCESSIBLE CLEARANCES INDICATED IN THESE DRAWINGS ARE FOR DESIGN INTENT ONLY. DESIGNER OF RECORD SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ACCESSIBILITY REQUIREMENTS PER LOCAL AND NATIONAL CODES.
- CONTRACTOR TO PROVIDE COAXIAL AND DATA (CAT6 RJ45) WIRING AT GUESTROOM TV LOCATIONS TO ENSURE CURRENT GUESTROOM ENTERTAINMENT STANDARDS CAN BE MET. THE COAXIAL AND DATA LINE SHOULD BE BROUGHT INTO THE ROOM VIA A FLEX-TUBE OR SIMILAR CONDUIT TO ALLOW FOR ADJUSTMENT/MODIFICATION AS NEEDED FOR FUTURE PROGRAMMING CHANGES.

E-214 KEY NOTES

#	TEXT
1	ALL GFCI RECEPTACLES IN GUEST BATHROOMS SHALL BE MOUNTED 48" TO CENTER A.F.F. UNLESS NOTED OTHERWISE.
2	GUEST ROOM PANEL BOARD SHALL BE FLUSH MOUNTED ON WALL AND MAINTAIN MIN. 2HR FIRE RESISTANCE RATING OF THE WALL. CONTRACTOR SHALL REFER DETAIL 7 ON SHEET E-102. CONTRACTOR SHALL MAINTAIN MIN CLEAR SPACE REQUIRED AS PER NEC ARTICLE 110.26.
3	FLUSH JUNCTION BOX MOUNTED BELOW PTAC UNIT, PROVIDE FINAL CONNECTIONS TO UNIT WITH FLEX. UNIT PROVIDED WITH SUB-BASE DISCONNECT.
4	CONTRACTOR SHALL PROVIDE A HARDWIRED THERMOSTAT IN GUESTROOMS MOUNTED AT HEIGHT SHOWN.
5	CONTRACTOR SHALL PROVIDE CAT6 RJ45 AT TV AND AT PHONES AT HEIGHT SHOWN.
6	CONTRACTOR SHALL PROVIDE COAX TV SYSTEM OUTLET IN GUESTROOMS AT HEIGHT SHOWN.
7	CONTRACTOR SHALL PROVIDE HIGH SPEED INTERNET ACCESS (HSIA) WIRED WHERE APPLICABLE.
8	OUTLET FOR REFRIGERATOR @ HEIGHT SHOWN
9	OUTLET FOR DISHWASHER @ HEIGHT SHOWN
10	OUTLET FOR DISPOSER @HEIGHT SHOWN
11	OUTLET FOR ELECTRIC COOKTOP @HEIGHT SHOWN
12	OUTLET FOR MICROWAVE WITH DUCTLESS EXHAUST HOOD @ HEIGHT SHOWN

ELECTRICAL OUTLET HEIGHTS (U.N.O)

#	DESCRIPTION	HEIGHT (A.F.F)
1	TYPICAL WALL OUTLET	12" A.F.F.
2	TYPICAL ACCESSIBLE WALL OUTLET	18" A.F.F.
3	BATHROOM VANITY OUTLET	48" A.F.F.
4	GUESTROOM STUDIO WET BAR	48" A.F.F.
5	TYPICAL KITCHEN OUTLET	42" A.F.F.
6	ACCESSIBLE KITCHEN OUTLET	46" A.F.F. MAX.
7	ACCESSIBLE BATHROOM VANITY OUTLET	44" A.F.F. MAX.



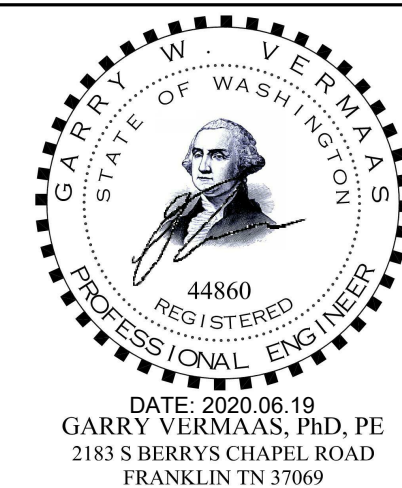
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2901 CLINT MOORE ROAD, #114
BOCA RATON, FLORIDA 33496
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RICARDO J. MUNIZ-GUILLET, AIA
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CORAL SPRINGS, FL 33076

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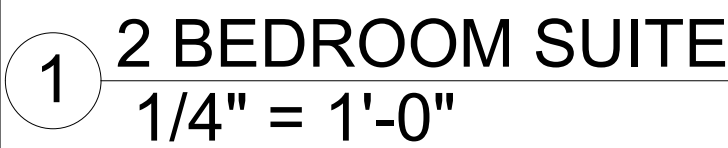
SHEET NAME

TYPICAL UNIT ELECTRICAL PLAN-1

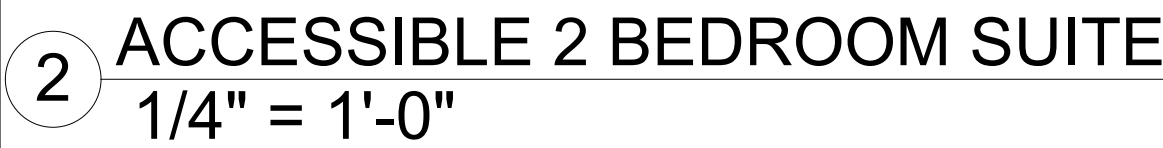
DRAWINGS NO.

E-214

NOT IN USE



NOT IN USE



- E-216 KEY NOTES

ELECTRICAL OUTLET HEIGHTS (U.N.O)		
#	DESCRIPTION	HEIGHT (A.F.F)
1	TYPICAL WALL OUTLET	12" A.F.F.
2	TYPICAL ACCESSIBLE WALL OUTLET	18" A.F.F.
3	BATHROOM VANITY OUTLET	48" A.F.F.
4	GUESTROOM STUDIO WET BAR	48" A.F.F.
5	TYPICAL KITCHEN OUTLET	42" A.F.F.
6	ACCESSIBLE KITCHEN OUTLET	46" A.F.F. MAX.
7	ACCESSIBLE BATHROOM VANITY OUTLET	44" A.F.F. MAX.



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PROJECT NO. B4-124-1803

SHEET NAME

TYPICAL UNIT
ELECTRICAL
PLAN-3

DRAWINGS NO.

E-216

SERVICE:2 PHASE,3-WIRE		PANEL 'A'								MAIN BUS (A)		100
VOLTAGE:120/240										NEUTRAL		100%
MOUNTING:FLUSH MOUNTED										MAINS (A)		MLO
TYPE:LOAD CENTRE										AIC (A)		10,000
LOAD DESCRIPTION	CKT NO.	TRIP POLE	WIRE	CONDUIT (INCH)	LOAD		CONDUIT (INCH)	WIRE	TRIP POLE	CKT NO.	LOAD DESCRIPTION	
LIVING AREA RCPT & LTG	1	20/1P(AFCI)	12	3/4	1360	950	3/4	12	20/1P(AFCI)	2	BEDROOM RCPT & LTG	
BEDROOM RCPT	3	20/1P(AFCI)	12	3/4	900	1000	3/4	12	20/1P	4	BATHROOM RCPT & LTG	
LIVING AREA PTAC-1	5	15/2P	12	3/4	950	950	3/4	12	15/2P	6	BEDROOM PTAC-1	
	7				950	950				8		
REFRIGERATOR RCPT	9	20/1P(AFCI/GFCI)	12	3/4	500	1500	3/4	12	20/1P(AFCI/GFCI)	10	DISHWASHER RCPT	
KITCHEN UTILITY RCPT	11	20/1P(AFCI/GFCI)	12	3/4	1500	1500	3/4	12	20/1P(AFCI/GFCI)	12	GARBAGE DISPOSER RCPT	
ELECTRIC COOKTOP RCPT	13	30/2P(AFCI/GFCI)	12	3/4	1500	1200	3/4	12	20/1P(AFCI/GFCI)	14	MICROWAVE RCPT	
	15				1500					16		SPACE
SPACE	17									18	SPACE	
SPACE	19									20	SPACE	
SUBTOTAL VA					9160	8050					SUBTOTAL VA	
		TOTAL				17210						
LOAD	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	1) PROVIDE ALL NON LOCKING-TYPE, 125-VOLT, 15 AND 20-AMPERE RECEPTACLES LOCATED IN LIVING AREA, SLEEPING AREA AND DINING AREA IN GUESTROOM AND GUESTSUITS SHALL BE PROTECTED BY A LISTED ARC-FAULT CURRENT INTERRUPTER, COMBINATION TYPE, INSTALLED TO PROVIDE PROTECTION OF BRANCH CIRCUIT AS PER NEC 210.12. 2)AS PER NEC 210.8 GFCI RECEPTACLE SHALL BE ON READILY ACCESSIBLE LOCATION IF NOT CONTRACTOR SHALL PROVIDE GFCI BREAKER IN PANEL. PROVIDE GFCI TYPE RECEPTACLE AT READILY ACCESSIBLE LOCATION. IF ANY GFCI RECEPTACLE COMING BEHIND EQUIPMENT PROVIDE GFCI PROTECTION IN BREAKER AS PER CODE. 3) ELECTRICAL CONTRACTOR TO CHECK WITH VENDOR FOR EXACT MODEL NUMBER OF GUEST ROOM KITCHEN EQUIPMENT. BASE4 HAS CONSIDERED MAXIMUM RATING OF EQUIPMENT.								
LIGHTING AND RCPT LOAD@ 3WATT/SQFT	4210	AS PER NEC	1875									
COOKTOP/RANGE	3000	AS PER NEC	3000									
DISHWASHER	1500	AS PER NEC	1500									
DISPOSER	1500	AS PER NEC	1500									
MICROWAVE	1200	AS PER NEC	1200									
REFRIGERATOR	500	AS PER NEC	500									
SMALL APPLIANCES	1500	AS PER NEC	1500									
TOTAL LOAD IN VA	13410		11075									
1AT 10KW@100%	11075	AS PER NEC	11075									
REMAINDER@40%	0	AS PER NEC	0									
HVAC LOAD	3800	AS PER NEC	3800									
TOTAL DEMAND LOAD	14875		14875									
TOTAL LOAD IN AMPERE	72		72									
TAKING 20% SPARE CAPACITY IN AMP			86									

SERVICE:2 PHASE,3-WIRE		PANEL 'C'								MAIN BUS (A)	100
VOLTAGE:120/240										NEUTRAL	100%
MOUNTING:FLUSH MOUNTED										MAINS (A)	MLO
TYPE:LOAD CENTRE										AIC (A)	10,000
LOAD DESCRIPTION	CKT NO.	TRIP POLE	WIRE	CONDUIT (INCH)	LOAD		CONDUIT (INCH)	WIRE	TRIP POLE	CKT NO.	LOAD DESCRIPTION
LIVING AREA RCPT & LTG	1	20/1P(AFCI)	12	3/4	1560	1500	3/4	12	20/1P(AFCI)	2	BEDROOM RCPT & LTG
BATHROOM RCPT & LTG	3	20/1P	12	3/4	1000	950	3/4	12	15/2P	4	LIVING AREA PTAC-1
BEDROOM PTAC-1	5	15/2P	12	3/4	950	950				6	
	7				950	500	3/4	12	20/1P(AFCI/GFCI)	8	REFRIGERATOR RCPT
DISHWASHER RCPT	9	20/1P(AFCI/GFCI)	12	3/4	1500	1500	3/4	12	20/1P(AFCI/GFCI)	10	KITCHEN UTILITY RCPT
GARBAGE DISPOSER RCPT	11	20/1P(AFCI/GFCI)	12	3/4	1500	1500	3/4	10	30/2P(AFCI/GFCI)	12	ELECTRIC COOKTOP RCPT
MICROWAVE RCPT	13	20/1P(AFCI/GFCI)	12	3/4	1200	1500				14	
EXHAUST HOOD	15	20/1P(AFCI/GFCI)	12	3/4	200					16	SPACE
SPACE	17									18	SPACE
SPACE	19									20	SPACE
SUBTOTAL VA					8860	8400					SUBTOTAL VA
				TOTAL	17260						
LOAD	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	1) PROVIDE ALL NON LOCKING-TYPE, 125-VOLT, 15 AND 20-AMPERE RECEPTACLES LOCATED IN LIVING AREA, SLEEPING AREA AND DINING AREA IN GUESTROOM AND GUESTSUITES SHALL BE PROTECTED BY A LISTED ARC-FAULT CURRENT INTERRUPTER, COMBINATION TYPE, INSTALLED TO PROVIDE PROTECTION OF BRANCH CIRCUIT AS PER NEC 210.12.							
LIGHTING AND RCPT LOAD@ 3WATT/SQFT	4060	AS PER NEC	1749	2)AS PER NEC 210.8 GFCI RECEPTACLE SHALL BE ON READILY ACCESSIBLE LOCATION IF NOT CONTRACTOR SHALL PROVIDE GFCI BREAKER IN PANEL. PROVIDE GFCI TYPE RECEPTACLE AT READILY ACCESSIBLE LOCATION. IF ANY GFCI RECEPTACLE COMING BEHIND EQUIPMENT PROVIDE GFCI PROTECTION IN BREAKER AS PER CODE.							
COOKTOP/RANGE	3000	AS PER NEC	3000	3)ELECTRICAL CONTRACTOR TO CHECK WITH VENDOR FOR EXACT MODEL NUMBER OF GUEST ROOM KITCHEN EQUIPMENT. BASE4 HAS CONSIDERED MAXIMUM RATING OF EQUIPMENT.							
DISHWASHER	1500	AS PER NEC	1500								
DISPOSER	1500	AS PER NEC	1500								
MICROWAVE	1200	AS PER NEC	1200								
REFRIGERATOR	500	AS PER NEC	500								
SMALL APPLIANCES	1500	AS PER NEC	1500								
EXHAUST HOOD	200	AS PER NEC	200								
TOTAL LOAD IN VA	13460		11149								
1AT 10KW@100%	10000	AS PER NEC	10000								
REMAINDER@40%	1149	AS PER NEC	460								
HVAC LOAD	3800	AS PER NEC	3800								
TOTAL DEMAND LOAD	14949		14260								
TOTAL LOAD IN AMPERE	72		69								
TAKING 20% SPARE CAPACITY IN AMP			82								

SERVICE:2 PHASE,3-WIRE		PANEL 'B'								MAIN BUS (A)		100
VOLTAGE:120/240										NEUTRAL		100%
MOUNTING:FLUSH MOUNTED										MAINS (A)		MLO
TYPE:LOAD CENTRE										AIC (A)		10,000
LOAD DESCRIPTION	CKT NO.	TRIP POLE	WIRE	CONDUIT (INCH)	LOAD		CONDUIT (INCH)	WIRE	TRIP POLE	CKT NO.	LOAD DESCRIPTION	
GUESTROOM RCPT	1	20/1P(AFCI)	12	3/4	1440	1360	3/4	12	20/1P(AFCI)	2	GUESTROOM RCPT & LTG	
BATHROOM RCPT & LTG	3	20/1P	12	3/4	1000	950	3/4	12	15/2P	4	GUESTROOM PTAC-1	
REFRIGERATOR RCPT	5	20/1P(AFCI/GFCI)	12	3/4	500	950				6		
DISHWASHER RCPT	7	20/1P(AFCI/GFCI)	12	3/4	1500	1500	3/4	12	20/1P(AFCI/GFCI)	8	KITCHEN UTILITY RCPT	
GARBAGE DISPOSER RCPT	9	20/1P(AFCI/GFCI)	12	3/4	1500	1500	3/4	10	30/2P(AFCI/GFCI)	10	ELECTRIC COOKTOP RCPT	
MICROWAVE RCPT	11	20/1P(AFCI/GFCI)	12	3/4	1200	1500				12		
SPACE	13									14	SPACE	
SPACE	15									16	SPACE	
SPACE	17									18	SPACE	
SPACE	19									20	SPACE	
SUBTOTAL VA					7140	7760					SUBTOTAL VA	
				TOTAL		14900						
LOAD	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	1) PROVIDE ALL NON LOCKING-TYPE, 125-VOLT, 15 AND 20-AMPERE RECEPTACLES LOCATED IN LIVING AREA, SLEEPING AREA AND DINING AREA IN GUESTROOM AND GUESTSUITES SHALL BE PROTECTED BY A LISTED ARC-FAULT CURRENT INTERRUPTER, COMBINATION TYPE, INSTALLED TO PROVIDE PROTECTION OF BRANCH CIRCUIT AS PER NEC 210.12. 2)AS PER NEC 210.8 GFCI RECEPTACLE SHALL BE ON READILY ACCESSIBLE LOCATION IF NOT CONTRACTOR SHALL PROVIDE GFCI BREAKER IN PANEL. PROVIDE GFCI TYPE RECEPTACLE AT READILY ACCESSIBLE LOCATION. IF ANY GFCI RECEPTACLE COMING BEHIND EQUIPMENT PROVIDE GFCI PROTECTION IN BREAKER AS PER CODE. 3) ELECTRICAL CONTRACTOR TO CHECK WITH VENDOR FOR EXACT MODEL NUMBER OF GUEST ROOM KITCHEN EQUIPMENT. BASE4 HAS CONSIDERED MAXIMUM RATING OF EQUIPMENT.								
LIGHTING AND RCPT LOAD@ 3WATT/SQFT	3800	AS PER NEC	1452									
COOKTOP/RANGE	3000	AS PER NEC	3000									
DISHWASHER	1500	AS PER NEC	1500									
DISPOSER	1500	AS PER NEC	1500									
MICROWAVE	1200	AS PER NEC	1200									
REFRIGERATOR	500	AS PER NEC	500									
SMALL APPLIANCES	1500	AS PER NEC	1500									
TOTAL LOAD IN VA	13000		10652									
1AT 10KW@100%	10000	AS PER NEC	10000									
REMAINDER@40%	652	AS PER NEC	261									
HVAC LOAD	1900	AS PER NEC	1900									
TOTAL DEMAND LOAD	12552		12161									
TOTAL LOAD IN AMPERE	60		58									
TAKING 20% SPARE CAPACITY IN AMP			70									

SERVICE:2 PHASE,3-WIRE		PANEL 'D'								MAIN BUS (A)	100
VOLTAGE:120/240										NEUTRAL	100%
MOUNTING:FLUSH MOUNTED										MAINS (A)	MLO
TYPE:LOAD CENTRE										AIC (A)	10,000
LOAD DESCRIPTION	CKT NO.	TRIP POLE	WIRE	CONDUIT (INCH)	LOAD		CONDUIT (INCH)	WIRE	TRIP POLE	CKT NO.	LOAD DESCRIPTION
LIVING AREA RCPT & LTG	1	20/1P(AFCI)	12	3/4	1560	410	3/4	12	20/1P(AFCI)	2	BEDROOM RCPT & LTG
BEDROOM RCPT	3	20/1P(AFCI/GFCI)	12	3/4	920	1000	3/4	12	20/1P	4	BATHROOM RCPT & LTG
LIVING AREA PTAC-1	5	15/2P	12	3/4	950	950	3/4	12	15/2P	6	BEDROOM PTAC-1
	7				950	8					
REFRIGERATOR RCPT	9	20/1P(AFCI/GFCI)	12	3/4	500	1500	3/4	12	20/1P(AFCI/GFCI)	10	DISHWASHER RCPT
KITCHEN UTILITY RCPT	11	20/1P(AFCI/GFCI)	12	3/4	1500	1500	3/4	12	20/1P(AFCI/GFCI)	12	GARBAGE DISPOSER RCPT
ELECTRIC COOKTOP RCPT	13	30/2P(AFCI/GFCI)	10	3/4	1500	1200	3/4	12	20/1P(AFCI/GFCI)	14	MICROWAVE RCPT
	15				1500	200	3/4	12	20/1P(AFCI/GFCI)	16	EXHUAUST HOOD
SPACE	17									18	SPACE
SPACE	19									20	SPACE
SUBTOTAL VA					9380	7710					SUBTOTAL VA
				TOTAL	17090						
LOAD	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	1) PROVIDE ALL NON LOCKING-TYPE, 125-VOLT, 15 AND 20-AMPERE RECEPTACLES LOCATED IN LIVING AREA, SLEEPING AREA AND DINING AREA IN GUESTROOM AND GUESTSUITES SHALL BE PROTECTED BY A LISTED ARC-FAULT CURRENT INTERRUPTER, COMBINATION TYPE, INSTALLED TO PROVIDE PROTECTION OF BRANCH CIRCUIT AS PER NEC 210.12. 2)AS PER NEC 210.8 GFCI RECEPTACLE SHALL BE ON READILY ACCESSIBLE LOCATION IF NOT CONTRACTOR SHALL PROVIDE GFCI BREAKER IN PANEL. PROVIDE GFCI TYPE RECEPTACLE AT READILY ACCESSIBLE LOCATION. IF ANY GFCI RECEPTACLE COMING BEHIND EQUIPMENT PROVIDE GFCI PROTECTION IN BREAKER AS PER CODE. 3)ELECTRICAL CONTRACTOR TO CHECK WITH VENDOR FOR EXACT MODEL NUMBER OF GUEST ROOM KITCHEN EQUIPMENT. BASE4 HAS CONSIDERED MAXIMUM RATING OF EQUIPMENT.							
LIGHTING AND RCPT LOAD@ 3WATT/SQFT	3890	AS PER NEC	1872								
COOKTOP/RANGE	3000	AS PER NEC	3000								
DISHWASHER	1500	AS PER NEC	1500								
DISPOSER	1500	AS PER NEC	1500								
MICROWAVE	1200	AS PER NEC	1200								
REFRIGERATOR	500	AS PER NEC	500								
SMALL APPLIANCES	1500	AS PER NEC	1500								
KITCHEN HOOD	200	AS PER NEC	200								
TOTAL LOAD IN VA	13290		11272								
1AT 10KW@100%	10000	AS PER NEC	10000								
REMAINDER@40%	1272	AS PER NEC	509								
HVAC LOAD	3800	AS PER NEC	3800								
TOTAL DEMAND LOAD	15072		14309								
TOTAL LOAD IN AMPERE	72		69								
TAKING 20% SPARE CAPACITY IN AMP			83								

SERVICE:2 PHASE,3-WIRE		PANEL 'E'								MAIN BUS (A)		100
VOLTAGE:120/240										NEUTRAL		100%
MOUNTING:FLUSH MOUNTED										MAINS (A)		MLO
TYPE:LOAD CENTRE										AIC (A)		10,000
LOAD DESCRIPTION	CKT NO.	TRIP POLE	WIRE	CONDUIT (INCH)	LOAD		CONDUIT (INCH)	WIRE	TRIP POLE	CKT NO.	LOAD DESCRIPTION	
LIVING AREA RCPT & LTG	1	20/1P(AFCI)	12	3/4	1360	1460	3/4	12	20/1P(AFCI)	2	BEDROOM RCPT & LTG	
BEDROOM RCPT & LTG	3	20/1P(AFCI)	12	3/4	1280	1000	3/4	12	20/1P	4	BATHROOM RCPT & LTG	
BATHROOM RCPT & LTG	5	20/1P	12	3/4	1000	950	3/4	12	15/2P	6	LIVING AREA PTAC-1	
BEDROOM PTAC-1	7	15/2P	12	3/4	950	950				8		
	9				950	950				10		
REFRIGERATOR RCPT	11	20/1P(AFCI/GFCI)	12	3/4	500	950	3/4	12	15/2P	12	BEDROOM PTAC-1	
DISHWASHER RCPT	13	20/1P(AFCI/GFCI)	12	3/4	1500	1500	3/4	12	20/1P(AFCI/GFCI)	14	KITCHEN UTILITY RCPT	
GARBAGE DISPOSER RCPT	15	20/1P(AFCI/GFCI)	12	3/4	1500	1500	3/4	10	30/2P(AFCI/GFCI)	16	ELECTRIC COOKTOP RCPT	
MICROWAVE RCPT	17	20/1P(AFCI/GFCI)	12	3/4	1200	1500				18		
SPACE	19									20	SPACE	
SUBTOTAL VA					10240	10760					SUBTOTAL VA	
				TOTAL		21000						
LOAD	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	1) PROVIDE ALL NON LOCKING-TYPE, 125-VOLT, 15 AND 20-AMPERE RECEPTACLES LOCATED IN LIVING AREA AND DINING AREA IN GUESTROOM AND GUESTSUITES SHALL BE PROTECTED BY A LISTED ARC-FAULT CURRENT INTERRUPTER, COMBINATION TYPE, INSTALLED TO PROVIDE PROTECTION OF BRANCH CIRCUIT AS PER NEC 210.12. 2)AS PER NEC 210.8 GFCI RECEPTACLE SHALL BE ON READILY ACCESSIBLE LOCATION IF NOT CONTRACTOR SHALL PROVIDE GFCI BREAKER IN PANEL. PROVIDE GFCI TYPE RECEPTACLE AT READILY ACCESSIBLE LOCATION. IF ANY GFCI RECEPTACLE COMING BEHIND EQUIPMENT PROVIDE GFCI PROTECTION IN BREAKER AS PER CODE. 3)ELECTRICAL CONTRACTOR TO CHECK WITH VENDOR FOR EXACT MODEL NUMBER OF GUEST ROOM KITCHEN EQUIPMENT. BASE4 HAS CONSIDERED MAXIMUM RATING OF EQUIPMENT.								
LIGHTING AND RCPT LOAD@ 3WATT/SOFT	6100	AS PER NEC	2556									
COOKTOP/RANGE	3000	AS PER NEC	3000									
DISHWASHER	1500	AS PER NEC	1500									
DISPOSER	1500	AS PER NEC	1500									
MICROWAVE	1200	AS PER NEC	1200									
REFRIGERATOR	500	AS PER NEC	500									
SMALL APPLIANCES	1500	AS PER NEC	1500									
TOTAL LOAD IN VA	15300		11756									
1AT 10KW@100%	10000	AS PER NEC	10000									
REMAINDER@40%	1756	AS PER NEC	702									
HVAC LOAD	5700	AS PER NEC	5700									
TOTAL DEMAND LOAD	17456		16402									
TOTAL LOAD IN AMPERE	84		79									
TAKING 20% SPARE CAPACITY IN AMP			95									

SERVICE:2 PHASE,3-WIRE		PANEL 'G'								MAIN BUS (A)		100
VOLTAGE:120/240										NEUTRAL		100%
MOUNTING:FLUSH MOUNTED										MAINS (A)		MLO
TYPE:LOAD CENTRE										AIC (A)		10,000
LOAD DESCRIPTION	CKT NO.	TRIP POLE	WIRE	CONDUIT (INCH)	LOAD		CONDUIT (INCH)	WIRE	TRIP POLE	CKT NO.	LOAD DESCRIPTION	
GUESTROOM RCPT	1	20/1P(AFCI)	12	3/4	1440	1360	3/4	12	20/1P(AFCI)	2	GUESTROOM RCPT & LTG	
BATHROOM RCPT & LTG	3	20/1P	12	3/4	1000	1415	3/4	12	20/2P	4	GUESTROOM PTAC-2	
REFRIGERATOR RCPT	5	20/1P(AFCI/GFCI)	12	3/4	500	1415				6		
DISHWASHER RCPT	7	20/1P(AFCI/GFCI)	12	3/4	1500	1500	3/4	12	20/1P(AFCI/GFCI)	8	KITCHEN UTILITY RCPT	
GARBAGE DISPOSER RCPT	9	20/1P(AFCI/GFCI)	12	3/4	1500	1500	3/4	10	30/2P(AFCI/GFCI)	10	ELECTRIC COOKTOP RCPT	
MICROWAVE RCPT	11	20/1P(AFCI/GFCI)	12	3/4	1200	1500				12		
SPACE	13									14	SPACE	
SPACE	15									16	SPACE	
SPACE	17									18	SPACE	
SPACE	19									20	SPACE	
SUBTOTAL VA					7140	8690					SUBTOTAL VA	
				TOTAL		15830						
LOAD	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	1) PROVIDE ALL NON LOCKING-TYPE, 125-VOLT, 15 AND 20-AMPERE RECEPTACLES LOCATED IN LIVING AREA, SLEEPING AREA AND DINING AREA IN GUESTROOM AND GUESTSUITES SHALL BE PROTECTED BY A LISTED ARC-FAULT CURRENT INTERRUPTER, COMBINATION TYPE, INSTALLED TO PROVIDE PROTECTION OF BRANCH CIRCUIT AS PER NEC 210.12. 2)AS PER NEC 210.8 GFCI RECEPTACLE SHALL BE ON READILY ACCESSIBLE LOCATION IF NOT CONTRACTOR SHALL PROVIDE GFCI BREAKER IN PANEL. PROVIDE GFCI TYPE RECEPTACLE AT READILY ACCESSIBLE LOCATION. IF ANY GFCI RECEPTACLE COMING BEHIND EQUIPMENT PROVIDE GFCI PROTECTION IN BREAKER AS PER CODE. 3) ELECTRICAL CONTRACTOR TO CHECK WITH VENDOR FOR EXACT MODEL NUMBER OF GUEST ROOM KITCHEN EQUIPMENT. BASE4 HAS CONSIDERED MAXIMUM RATING OF EQUIPMENT.								
LIGHTING AND RCPT LOAD@ 3WATT/SQFT	3800	AS PER NEC	1452									
COOKTOP/RANGE	3000	AS PER NEC	3000									
DISHWASHER	1500	AS PER NEC	1500									
DISPOSER	1500	AS PER NEC	1500									
MICROWAVE	1200	AS PER NEC	1200									
REFRIGERATOR	500	AS PER NEC	500									
SMALL APPLIANCES	1500	AS PER NEC	1500									
TOTAL LOAD IN VA	13000		10652									
1AT 10KW@100%	10000	AS PER NEC	10000									
REMAINDER@40%	652	AS PER NEC	261									
HVAC LOAD	2830	AS PER NEC	2830									
TOTAL DEMAND LOAD	13482		13091									
TOTAL LOAD IN AMPERE	65		63									
TAKING 20% SPARE CAPACITY IN AMP			76									

SERVICE:2 PHASE,3-WIRE		PANEL 'F'								MAIN BUS (A)		100
VOLTAGE:120/240										NEUTRAL		100%
MOUNTING:FLUSH MOUNTED										MAINS (A)		MLO
TYPE:LOAD CENTRE										AIC (A)		10,000
LOAD DESCRIPTION	CKT NO.	TRIP POLE	WIRE	CONDUIT (INCH)	LOAD		CONDUIT (INCH)	WIRE	TRIP POLE	CKT NO.	LOAD DESCRIPTION	
LIVING AREA RCPT & LTG	1	20/1P(AFCI)	12	3/4	1560	950	3/4	12	20/1P(AFCI)	2	BEDROOM RCPT & LTG	
BEDROOM RCPT	3	20/1P(AFCI)	12	3/4	920	1500	3/4	12	20/1P(AFCI)	4	BEDROOM RCPT & LTG	
BATHROOM RCPT & LTG	5	20/1P	12	3/4	1000	1000	3/4	12	20/1P	6	BATHROOM RCPT & LTG	
LIVING AREA PTAC-1	7	15/2P	12	3/4	950	950	3/4	12	15/2P	8	BEDROOM PTAC-1	
	9				950	950				10		
BEDROOM PTAC-1	11	15/2P	12	3/4	950	500	3/4	12	20/1P(AFCI/GFCI)	12	REFRIGERATOR RCPT	
	13				950	1500	3/4	12	20/1P(AFCI/GFCI)	14	DISHWASHER	
KITCHEN UTILITY RCPT	15	20/1P(AFCI/GFCI)	12	3/4	1500	1500	3/4	12	20/1P(AFCI/GFCI)	16	GARBAGE DISPOSER RCPT	
ELECTRIC COOKTOP RCPT	17	30/2P(AFCI/GFCI)	10	3/4	1500	1200	3/4	12	20/1P(AFCI/GFCI)	18	MICROWAVE RCPT	
	19				1500	200	3/4	12	20/1P(AFCI/GFCI)	20	EXHAUST HOOD	
SUBTOTAL VA					11780	10250					SUBTOTAL VA	
					TOTAL		22030					
LOAD	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	1) PROVIDE ALL NON LOCKING-TYPE, 125-VOLT, 15 AND 20-AMPERE RECEPTACLES LOCATED IN LIVING AREA, SLEEPING AREA AND DINING AREA IN GUESTROOM AND GUESTSUITES SHALL BE PROTECTED BY A LISTED ARC-FAULT CURRENT INTERRUPTER, COMBINATION TYPE, INSTALLED TO PROVIDE PROTECTION OF BRANCH CIRCUIT AS PER NEC 210.12. 2)AS PER NEC 210.8 GFCI RECEPTACLE SHALL BE ON READILY ACCESSIBLE LOCATION IF NOT CONTRACTOR SHALL PROVIDE GFCI BREAKER IN PANEL. PROVIDE GFCI TYPE RECEPTACLE AT READILY ACCESSIBLE LOCATION. IF ANY GFCI RECEPTACLE COMING BEHIND EQUIPMENT PROVIDE GFCI PROTECTION IN BREAKER AS PER CODE. 3)ELECTRICAL CONTRACTOR TO CHECK WITH VENDOR FOR EXACT MODEL NUMBER OF GUEST ROOM KITCHEN EQUIPMENT. BASE4 HAS CONSIDERED MAXIMUM RATING OF EQUIPMENT.								
LIGHTING AND RCPT LOAD@ 3WATT/SQFT	6930	AS PER NEC	2469									
COOKTOP/RANGE	3000	AS PER NEC	3000									
DISHWASHER	1500	AS PER NEC	1500									
DISPOSER	1500	AS PER NEC	1500									
MICROWAVE	1200	AS PER NEC	1200									
REFRIGERATOR	500	AS PER NEC	500									
SMALL APPLIANCES	1500	AS PER NEC	1500									
RANGE HOOD	200	AS PER NEC	200									
TOTAL LOAD IN VA	16330		11869									
1AT 10KW@100%	10000	AS PER NEC	10000									
REMAINDER@40%	1869	AS PER NEC	748									
HVAC LOAD	5700	AS PER NEC	5700									
TOTAL DEMAND LOAD	17569		16448									
TOTAL LOAD IN AMPERE	84		79									
TAKING 20% SPARE CAPACITY IN AMP			95									

SERVICE:3 PHASE,4-WIRE						PANEL 'HPA'						MAIN BUS (A)		150			
VOLTAGE:120/208												NEUTRAL (%)		100%			
MOUNTING:WALL MOUNTED												MAINS (A)		MLO			
TYPE:LOAD CENTRE												AIC (A)		18000			
LOAD DESCRIPTION		PHASE			TRIP POLE	WIRE	CONDUIT (INCH)	CKT NO.	CKT NO.	CONDUIT (INCH)	WIRE	TRIP POLE	PHASE			LOAD DESCRIPTION	
		R	Y	B									R	Y	B		
SECTION-1																	
ELECTRICAL ROOM RCPT	540			20/1P	12	3/4	1	2	3/4	12	20/1P	540				ENGINEERING ROOM RCPT	
PTAC MAINTENANCE RCPT		500		20/2P	12	3/4		3	4	3/4	12	20/1P		1260		1ST FLOOR CORRIDOR RCPT	
			500					5	6	3/4	12	20/1P			540	BREAK ROOM RCPT	
BREAK ROOM MICROWAVE RCPT	1000			20/1P	12	3/4	7	8	3/4	12	20/1P	1000				BREAK ROOM UTILITY RCPT	
BREAK ROOM REFRIGERATOR RCPT		1000		20/1P	12	3/4	9	10	3/4	12	20/1P		360			STORAGE RCPT	
UNISEX EMPLOYEE TOILET RCPT			360	20/1P	12	3/4	11	12	3/4	12	20/1P			720		FITNESS ROOM RCPT	
FITNESS ROOM RCPT	900			20/1P	12	3/4	13	14	3/4	12	20/1P	500				FITNESS ROOM EQUIPMENT RCPT	
FITNESS ROOM ELLIPTICAL RCPT		500		20/1P	12	3/4	15	16	3/4	12	20/1P		500			FITNESS ROOM ELLIPTICAL RCPT	
FITNESS ROOM ELLIPTICAL RCPT			500	20/1P	12	3/4	17	18	3/4	12	20/1P			500		FITNESS ROOM ELLIPTICAL RCPT	
FITNESS ROOM TREADMILL RCPT	1000			20/1P	12	3/4	19	20	3/4	12	20/1P	1000				FITNESS ROOM TREADMILL RCPT	
FITNESS ROOM TREADMILL RCPT		1000		20/1P	12	3/4	21	22	3/4	12	20/1P		1000			FITNESS ROOM TREADMILL RCPT	
PRE-FUNCTION AREA RCPT			900	20/1P	12	3/4	23	24	3/4	12	20/1P			540		CORRIDOR RCPT	
WOMEN RESTROOM RCPT	360			20/1P	12	3/4	25	26	3/4	12	20/1P	360				MEN RESTROOM RCPT	
MEETING ROOM RCPT		720		20/1P	12	3/4	27	28	3/4	12	20/1P		720			MEETING ROOM RCPT	
MEETING ROOM RCPT			540	20/1P	12	3/4	29	30	3/4	12	20/1P			540		MEETING ROOM RCPT	
MEETING ROOM PROJECTOR RCPT	500			20/1P	12	3/4	31	32	3/4	12	20/1P	360				MEETING STORAGE RCPT	
1ST FLOOR CORRIDOR RCPT		360		20/1P	12	3/4	33	34	3/4	12	20/1P		600			FIREPLACE JN.BOX	
LODGE AREA RCPT			180	20/1P	12	3/4	35	36	3/4	12	20/1P			720		LODGE AREA RCPT	
LODGE AREA RCPT	720			20/1P	12	3/4	37	38	3/4	12	20/1P	720				LODGE AREA RCPT	
LODGE AREA RCPT		360		20/1P	12	3/4	39	40	3/4	12	20/1P		360			LOBBY AREA RCPT	
LOBBY AREA RCPT			540	20/1P	12	3/4	41	42	3/4	12	20/1P			360		CART STOR. RCPT	
SUITE SHOP REACH-IN REFRIGERATOR	648			20/1P	12	3/4	43	44	3/4	12	20/1P	1140				SUITE SHOP REACH-IN FREEZER	
STORAGE RCPT		360		20/1P	12	3/4	45	46	3/4	12	20/1P		1080			ENGINEERING ROOM RCPT	
STORAGE RCPT			540	20/1P	12	3/4	47	48	3/4	12	20/1P			900		1ST FLOOR CORRIDOR RCPT	
EXTERIOR AREA RCPT	720			20/1P	12	3/4	49	50	3/4	12	20/1P	720				EXTERIOR AREA RCPT	
EXTERIOR AREA RCPT		540		20/1P	12	3/4	51	52	3/4	12	20/1P		540			EXTERIOR AREA RCPT	
EXTERIOR AREA RCPT			540	20/1P	12	3/4	53	54						500		BUILDING SIGNAGE	
PTAC MAINTENANCE RCPT	500			20/2P	12	3/4	55	56				500				EXTERIOR AREA RCPT	
		500					57	58	3/4	12	20/1P		360				
EXTERIOR AREA RCPT			540	20/1P	12	3/4	59	60	3/4	12	20/1P			720		EXTERIOR AREA RCPT	
SPACE							61	62								SPACE	
SPACE							63	64								SPACE	
SPACE							65	66								SPACE	
SPACE							67	68								SPACE	
SPACE							69	70								SPACE	
SPACE							71	72								SPACE	
SUBTOTAL VA		6888	5840	5140									6840	6780	6040	SUBTOTAL VA	
														6888	5840	5140	
														13728	12620	11180	
												TOTAL VA:		37528			
LOAD		CONNECTED LOAD		DEMAND FACTOR		DEMAND LOAD		NOTE: 1) AS PER NEC 210.8 GFCI RECEPTACLE SHALL BE ON READILY ACCESSIBLE LOCATION IF NOT CONTRACTOR SHALL PROVIDE GFCI BREAKER IN PANEL. PROVIDE GFCI TYPE RECEPTACLE AT READILY ACCESSIBLE LOCATION. IF ANY GFCI RECEPTACLE COMING BEHIND EQUIPMENT PROVIDE GFCI PROTECTION IN BREAKER AS PER CODE.									
RCPT 20A		21420		NEC ARTICLE 220.44		15710											
REFRIGERATOR LOAD		2788		1.25		3485											
MISC LOAD		12600		1		12600											
TOTAL LOAD IN VA		36808				31795											
TOTAL LOAD IN AMPERE		102				88											
TAKING 20% SPARE CAPACITY IN AMP						100											

SERVICE:3 PHASE,4-WIRE					PANEL 'LP'					MAIN BUS (A)		150				
VOLTAGE:120/208										NEUTRAL (%)		100%				
MOUNTING:WALL MOUNTED										MAINS (A)		MLO				
TYPE:LOAD CENTRE										AIC (A)		18000				
LOAD DESCRIPTION	R	PHASE Y	B	TRIP POLE	WIRE	CONDUIT (INCH)	CKT NO.	CKT NO.	CONDUIT (INCH)	WIRE	TRIP POLE	R	PHASE Y	B	LOAD DESCRIPTION	
LINEN CHUTE J-BOX	500			20/1P	12	3/4	1	2	3/4	12	20/1P	900			LAUNDRY RCPT	
WASHER-1		1200		15/3P	12	3/4	3	4	3/4	12	15/3P		1200		WASHER-2	
			1200									1200				
	1200															
DRYER-1		720		15/3P	12	3/4	9	10	3/4	12	15/3P		720		DRYER-2	
			720									720				
	720															
DRYER-3			720	15/3P	12	3/4	15	16	3/4	12	20/1P		360		LINEN STORAGE RCPT	
							17	18	3/4	12	20/1P			360	LINEN ROOM RCPT	
	720						19	20	3/4	12	20/1P	500			CHEMICAL DISPENSER	
CHEMICAL DISPENSER		500		20/1P	12	3/4	21	22			20/2P		500		IRON POINT	
GUEST LAUNDRY DRYER-1			2704	30/2P	10	3/4	23	24	3/4	12	30/2P			500	GUEST LAUNDRY DRYER-2	
	2704						25	26				2704	500			
GUEST LAUNDRY DRYER-3		2704		30/2P	10	3/4	27	28	3/4	10	30/2P	2704			GUEST LAUNDRY WASHER-1	
			2704				29	30				3/4	12	15/1P		2704
GUEST LAUNDRY WASHER-2	1176			15/1P	12	3/4	31	32	3/4	12	20/1P	540			GUEST LAUNDRY RCPT	
SPACE							33	34							SPACE	
SPACE							35	36							SPACE	
SPACE							37	38							SPACE	
SPACE							39	40							SPACE	
SPACE							41	42							SPACE	
SUBTOTAL VA											7020	5844	8048			SUBTOTAL VA
												6564	5484	3956		
												7020	5844	8048		
											TOTAL VA:	13584	11328	12004		
											36916					
LOAD	CONNECTED LOAD		DEMAND FACTOR		DEMAND LOAD											
RCPT 20A	2160		NEC ARTICLE 220.44		2160											
LAUNDRY LOAD	33256		1		33256											
MISC LOAD	1500		1		1500											
TOTAL LOAD IN VA		36916		36916												
TOTAL LOAD IN AMPERE		102		102												
TAKING 20% SPARE CAPACITY IN AMP				123												

SERVICE:3 PHASE,4-WIRE					PANEL 'HPB & HLB'							MAIN BUS (A)			200		
VOLTAGE:120/208												NEUTRAL (%)			100%		
MOUNTING:WALL MOUNTED												MAINS (A)			MLO		
TYPE:LOAD CENTRE												AIC (A)			10000		
LOAD DESCRIPTION	PHASE			TRIP POLE	WIRE	CONDUIT (INCH)	CKT NO.	CKT NO.	CONDUIT (INCH)	WIRE	TRIP POLE	PHASE			LOAD DESCRIPTION		
	R	Y	B									R	Y	B			
SECTION-1 'HPB'																	
2ND FLOOR ELEC. ROOM RCPT	360			20/1P	12	3/4	1	2	3/4	12	20/1P	360			2ND FLOOR STORAGE RCPT		
2ND FLOOR BOH RCPT		540		20/1P	12	3/4	3	4	3/4	12	20/1P		540		2ND FLOOR MECH. ROOM RCPT		
2ND FLOOR CORRIDOR RCPT			1260	20/1P	12	3/4	5	6	3/4	12	20/1P			1080	2ND FLOOR CORRIDOR RCPT		
2ND FLOOR STORAGE RCPT	540			20/1P	12	3/4	7	8	3/4	12	20/1P(GFCI)	1000			2ND FLOOR ICE MACHINE RCPT		
2ND FLOOR LINEN STORAGE RCPT		360		20/1P	12	3/4	9	10	3/4	12	20/1P		360		2ND FLOOR PBX ROOM RCPT		
2ND FLOOR ELEV. LOBBY RCPT			360	20/1P	12	3/4	11	12	3/4	12	20/1P			360	3RD FLOOR ELEC. ROOM RCPT		
3RD FLOOR STORAGE RCPT	360			20/1P	12	3/4	13	14	3/4	12	20/1P	1260			3RD FLOOR CORRIDOR RCPT		
3RD FLOOR CORRIDOR RCPT		1080		20/1P	12	3/4	15	16	3/4	12	20/1P		540		3RD FLOOR STORAGE RCPT		
3RD FLOOR ICE MACHINE RCPT			1000	20/1P(GFCI)	12	3/4	17	18	3/4	12	20/1P			360	3RD FLOOR LINEN STORAGE RCPT		
3RD FLOOR PBX ROOM RCPT	360			20/1P	12	3/4	19	20	3/4	12	20/1P	360			3RD FLOOR ELEV. LOBBY RCPT		
SPACE							21	22							SPACE		
SPACE							23	24							SPACE		
SPACE							25	26							SPACE		
SPACE							27	28							SPACE		
SPACE							29	30							SPACE		
SPACE							31	32							SPACE		
SPACE							33	34							SPACE		
SPACE							35	36							SPACE		
SPACE							37	38							SPACE		
SPACE							39	40							SPACE		
SPACE							41	42							SPACE		
SECTION-2 'HLB'																	
2ND FLOOR CORRIDOR LTG	50			15/1P	12	3/4	1	2	3/4	12	15/1P	60			2ND FLOOR CORRIDOR LTG		
2ND FLOOR CORRIDOR LTG		158		15/1P	12	3/4	3	4	3/4	12	15/1P		158		2ND FLOOR CORRIDOR LTG		
2ND FLOOR CORRIDOR LTG			40	15/1P	12	3/4	5	6	3/4	12	15/1P			81	2ND FLOOR CORRIDOR LTG		
2ND FLOOR CORRIDOR LTG	158			15/1P	12	3/4	7	8	3/4	12	15/1P	158			2ND FLOOR CORRIDOR LTG		
2ND FLOOR ELEC. ROOM LTG		60		15/1P	12	3/4	9	10	3/4	12	15/1P		31		2ND FLOOR STORAGE LTG		
2ND FLOOR BOH ROOM LTG			91	15/1P	12	3/4	11	12	3/4	12	15/1P			91	2ND FLOOR MECH. ROOM LTG		
2ND FLOOR CORRIDOR LTG	60			15/1P	12	3/4	13	14	3/4	12	15/1P	92			2ND FLOOR CORRIDOR LTG		
2ND FLOOR CORRIDOR LTG		203		15/1P	12	3/4	15	16	3/4	12	15/1P		203		2ND FLOOR CORRIDOR LTG		
2ND FLOOR STORAGE LTG			63	15/1P	12	3/4	17	18	3/4	12	15/1P			130	2ND FLOOR VENDING AREA LTG		
2ND FLOOR LINEN STORAGE LTG	31			15/1P	12	3/4	19	20	3/4	12	15/1P	31			2ND FLOOR PBX ROOM LTG		
2ND FLOOR ELEV. LOBBY LTG		177		15/1P	12	3/4	21	22	3/4	12	15/1P		50		3RD FLOOR CORRIDOR LTG		
3RD FLOOR CORRIDOR LTG			60	15/1P	12	3/4	23	24	3/4	12	15/1P			158	3RD FLOOR CORRIDOR LTG		
3RD FLOOR CORRIDOR LTG	158			15/1P	12	3/4	25	26	3/4	12	15/1P	40			3RD FLOOR CORRIDOR LTG		
3RD FLOOR CORRIDOR LTG		81		15/1P	12	3/4	27	28	3/4	12	15/1P		158		3RD FLOOR CORRIDOR LTG		
3RD FLOOR CORRIDOR LTG			158	15/1P	12	3/4	29	30	3/4	12	15/1P			60	3RD FLOOR ELEC. ROOM LTG		
3RD FLOOR STORAGE LTG	31			15/1P	12	3/4	31	32	3/4	12	15/1P	60			3RD FLOOR CORRIDOR LTG		
3RD FLOOR CORRIDOR LTG		92		15/1P	12	3/4	33	34	3/4	12	15/1P		203		3RD FLOOR CORRIDOR LTG		
3RD FLOOR CORRIDOR LTG			203	15/1P	12	3/4	35	36	3/4	12	15/1P			63	3RD FLOOR STORAGE LTG		
3RD FLOOR VENDING AREA LTG	130			15/1P	12	3/4	37	38	3/4	12	15/1P	31			3RD FLOOR LINEN STORAGE LTG		
3RD FLOOR PBX ROOM LTG		31		15/1P	12	3/4	39	40	3/4	12	15/1P		177		3RD FLOOR ELEV. LOBBY LTG		
SPACE							41	42							SPACE		
SUBTOTAL VA												2238	2782	3235	SUBTOTAL VA		
													2238	2782	3235		
													5690	5202	5618		
TOTAL VA:												16510					
LOAD		CONNECTED LOAD		DEMAND FACTOR		DEMAND LOAD		NOTE: 1) AS PER NEC 210.8 GFCI RECEPTACLE SHALL BE ON READILY ACCESSIBLE LOCATION IF NOT CONTRACTOR SHALL PROVIDE GFCI BREAKER IN PANEL. PROVIDE GFCI TYPE RECEPTACLE AT READILY ACCESSIBLE LOCATION. IF ANY GCFI RECEPTACLE COMING BEHIND EQUIPMENT PROVIDE GFCI PROTECTION IN BREAKER AS PER CODE.									
LIGHTING (INTERIOR)		4070		1.25		5088											
RCPT 20A		10440		NEC ARTICLE 220.44		10220											
REFRIGERATOR LOAD		2000		1.25		2500											
TOTAL LOAD IN VA		16510				17808											
TOTAL LOAD IN AMPERE		46				49											
TAKING 20% SPARE CAPACITY IN AMP						59											

SERVICE:3 PHASE,4-WIRE				PANEL 'HPC & HLC'								MAIN BUS (A)					100			
VOLTAGE:120/208												NEUTRAL (%)								100%
MOUNTING:WALL MOUNTED												MAINS (A)								MLO
TYPE:LOAD CENTRE												AIC (A)								10000
LOAD DESCRIPTION		PHASE			TRIP POLE	WIRE	CONDUIT (INCH)	CKT NO.	CKT NO.	CONDUIT (INCH)	WIRE	TRIP POLE	PHASE			LOAD DESCRIPTION				
		R	Y	B									R	Y	B					
SECTION-1 'HPC'																				
4TH FLOOR ELEC. ROOM RCPT		360			20/1P	12	3/4	1	2	3/4	12	20/1P	360			4TH FLOOR STORAGE RCPT				
4TH FLOOR CORRIDOR RCPT			1260		20/1P	12	3/4	3	4	3/4	12	20/1P		1080		4TH FLOOR CORRIDOR RCPT				
4TH FLOOR STORAGE RCPT				540	20/1P	12	3/4	5	6	3/4	12	20/1P(GFCI)			1000	4TH FLOOR ICE MACHINE RCPT				
4TH FLOOR LINEN STORAGE RCPT		360			20/1P	12	3/4	7	8	3/4	12	20/1P	360			4TH FLOOR PBX ROOM RCPT				
4TH FLOOR ELEV. LOBBY RCPT			360		20/1P	12	3/4	9	10	3/4	12	20/1P		360		5TH FLOOR ELEC. ROOM RCPT				
5TH FLOOR STORAGE RCPT				360	20/1P	12	3/4	11	12	3/4	12	20/1P			1260	5TH FLOOR CORRIDOR RCPT				
5TH FLOOR CORRIDOR RCPT		1080			20/1P	12	3/4	13	14	3/4	12	20/1P	540			5TH FLOOR CORRIDOR RCPT				
5TH FLOOR ICE MACHINE RCPT			1000		20/1P(GFCI)	12	3/4	15	16	3/4	12	20/1P		360		5TH FLOOR LINEN STORAGE RCPT				
5TH FLOOR PBX ROOM RCPT				360	20/1P	12	3/4	17	18	3/4	12	20/1P			360	5TH FLOOR ELEV. LOBBY RCPT				
BUILDING SIGNAGE		500			20/2P	12	3/4	19	20	3/4	12	20/1P	720			ROOF RCPT				
SPACE			500					21	22							SPACE				
SPACE								23	24							SPACE				
SPACE								25	26							SPACE				
SPACE								27	28							SPACE				
SPACE								29	30							SPACE				
SPACE								31	32							SPACE				
SPACE								33	34							SPACE				
SPACE								35	36							SPACE				
SPACE								37	38							SPACE				
SPACE								39	40							SPACE				
SPACE								41	42							SPACE				
SECTION-2 'HLC'																				
4TH FLOOR CORRIDOR LTG		50			15/1P	12	3/4	1	2	3/4	12	15/1P	60			4TH FLOOR CORRIDOR LTG				
4TH FLOOR CORRIDOR LTG			158		15/1P	12	3/4	3	4	3/4	12	15/1P		158		4TH FLOOR CORRIDOR LTG				
4TH FLOOR CORRIDOR LTG				40	15/1P	12	3/4	5	6	3/4	12	15/1P			81	4TH FLOOR CORRIDOR LTG				
4TH FLOOR CORRIDOR LTG		158			15/1P	12	3/4	7	8	3/4	12	15/1P	158			4TH FLOOR CORRIDOR LTG				
4TH FLOOR ELEC. ROOM LTG			60		15/1P	12	3/4	9	10	3/4	12	15/1P		31		4TH FLOOR STORAGE LTG				
4TH FLOOR CORRIDOR LTG				60	15/1P	12	3/4	11	12	3/4	12	15/1P			92	4TH FLOOR STORAGE LTG				
4TH FLOOR CORRIDOR LTG		203			15/1P	12	3/4	13	14	3/4	12	15/1P	203			4TH FLOOR STORAGE LTG				
4TH FLOOR STORAGE LTG			63		15/1P	12	3/4	15	16	3/4	12	15/1P		130		4TH FLOOR VENDING AREA LTG				
4TH FLOOR LINEN STORAGE LTG				31	15/1P	12	3/4	17	18	3/4	12	15/1P			31	4TH FLOOR PBX ROOM LTG				
4TH FLOOR ELEV. LOBBY LTG		177			15/1P	12	3/4	19	20	3/4	12	15/1P	50			5TH FLOOR CORRIDOR LTG				
5TH FLOOR CORRIDOR LTG			60		15/1P	12	3/4	21	22	3/4	12	15/1P		158		5TH FLOOR CORRIDOR LTG				
5TH FLOOR CORRIDOR LTG				158	15/1P	12	3/4	23	24	3/4	12	15/1P			40	5TH FLOOR CORRIDOR LTG				
5TH FLOOR CORRIDOR LTG		81			15/1P	12	3/4	25	26	3/4	12	15/1P	158			5TH FLOOR CORRIDOR LTG				
5TH FLOOR CORRIDOR LTG			158		15/1P	12	3/4	27	28	3/4	12	15/1P		60		5TH FLOOR ELEC. ROOM LTG				
5TH FLOOR STORAGE LTG				31	15/1P	12	3/4	29	30	3/4	12	15/1P			60	5TH FLOOR CORRIDOR LTG				
5TH FLOOR CORRIDOR LTG		92			15/1P	12	3/4	31	32	3/4	12	15/1P	203			5TH FLOOR CORRIDOR LTG				
5TH FLOOR CORRIDOR LTG			203		15/1P	12	3/4	33	34	3/4	12	15/1P		63		5TH FLOOR STORAGE LTG				
5TH FLOOR VENDING AREA LTG				130	15/1P	12	3/4	35	36	3/4	12	15/1P			31	5TH FLOOR LINEN STORAGE LTG				
5TH FLOOR PBX ROOM LTG		31			15/1P	12	3/4	37	38	3/4	12	15/1P	177			5TH FLOOR ELEV LOBBY LTG				
SPACE								39	40							SPACE				
SPACE								41	42							SPACE				
SUBTOTAL VA		3092	3822	1710									2989	2400	2955	SUBTOTAL VA				
													3092	3822	1710					
													6081	6222	4665					
												TOTAL VA:	16968							

LOAD	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	NOTE: 1) AS PER NEC 210.8 GFCI RECEPTACLE SHALL BE ON READILY ACCESSIBLE LOCATION IF NOT CONTRACTOR SHALL PROVIDE GFCI BREAKER IN PANEL. PROVIDE GFCI TYPE RECEPTACLE AT READILY ACCESSIBLE LOCATION. IF ANY GCFI RECEPTACLE COMING BEHIND EQUIPMENT PROVIDE GFCI PROTECTION IN BREAKER AS PER CODE.
LIGHTING (INTERIOR)	3888	1.25	4860	
RCPT 20A	10080	NEC ARTICLE 220.44	10040	
REFRIGERATION	2000	1.25	2500	
MISC	1000	1	1000	
TOTAL LOAD IN VA	16968		17400	
TOTAL LOAD IN AMPERE	47		48	
TAKING 20% SPARE CAPACITY IN AMP			58	

SERVICE:3 PHASE,4-WIRE					PANEL 'KP'							MAIN BUS (A)		200		
VOLTAGE:120/208												NEUTRAL (%)		100%		
MOUNTING:WALL MOUNTED												MAINS (A)		MLO		
TYPE:LOAD CENTRE												AIC (A)		10000		
LOAD DESCRIPTION	PHASE			TRIP POLE	WIRE	CONDUIT (INCH)	CKT NO.	CKT NO.	CONDUIT (INCH)	WIRE	TRIP POLE	PHASE			LOAD DESCRIPTION	
	R	Y	B									R	Y	B		
REACH-IN REFRIGERATOR	720			20/1P(GFCI)	12	3/4	1	2			20/2P	208			VENTLESS EXHAUST HOOD	
CONVECTION OVEN		2900		35/2P(GFCI)	8	3/4		3	4				208			
			2900					5	6					1900	INDUCTION COOKER	
MICROWAVE OVEN	1550			20/1P	12	3/4	7	8	3/4	12	20/2P(GFCI)		1900			
REACH-IN REFRIGERATOR		840		20/1P(GFCI)	12	3/4	9	10	3/4	12	20/1P(GFCI)		1080		REACH-IN FREEZER	
DISPOSER			800	20/2P	12	3/4	11	12						2000	UNDERCOUNTER DISHWASHER	
	800						13	14	3/4	10		2000				
KEG COOLER		660		20/1P(GFCI)	12	3/4	15	16					2000			
ICE MACHINE			1380	20/1P(GFCI)	12	3/4	17	18	3/4	12	20/1P			1800		
TOASTER	1800			20/1P	12	3/4	19	20	3/4	12	20/1P	1200			TOASTER	
MICROWAVE OVEN		1550		20/1P(GFCI)	12	3/4	21	22	3/4	12	20/1P		588		REFRIGERATED COLD PAN	
CHAFING DISH			504	20/1P	12	3/4	23	24	3/4	12	20/1P			504	CHAFING DISH	
FOOD STORAGE RCPT	1080			20/1P	12	3/4	25	26				4428			COFFEE BREWER	
JUICE DISPENSER		1200		20/1P	12	3/4	27	28	3/4	8	40/2P		4428			
KITCHEN UTILITY RCPT			1500	20/1P	12	3/4	29	30	3/4	12	20/1P			1500	KITCHEN UTILITY RCPT	
SPACE							31	32							SPACE	
SPACE							33	34							SPACE	
SPACE							35	36							SPACE	
SPACE							37	38							SPACE	
SPACE							39	40							SPACE	
SPACE							41	42							SPACE	
SUBTOTAL VA											5950	7150	7084	SUBTOTAL VA		
												5950	7150	7084		
												15686	15454	14788		
											TOTAL VA:		45928			

LOAD	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	NOTE: 1) AS PER NEC 210.8 GFCI RECEPTACLE SHALL BE ON READILY ACCESSIBLE LOCATION IF NOT CONTRACTOR SHALL PROVIDE GFCI BREAKER IN PANEL. PROVIDE GFCI TYPE RECEPTACLE AT READILY ACCESSIBLE LOCATION. IF ANY GCFI RECEPTACLE COMING BEHIND EQUIPMENT PROVIDE GFCI PROTECTION IN BREAKER AS PER CODE.
RCPT 20A	1080	NEC ARTICLE 220.44	1080	
REFRIGERATOR LOAD	5268	1.25	6585	
KITCHEN LOAD	36164	0.65	23507	
MISC LOAD	3416	1	3416	
TOTAL LOAD IN VA	45928		34588	
TOTAL LOAD IN AMPERE	127		96	
TAKING 20% SPARE CAPACITY IN AMP			115	

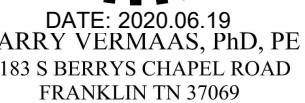
SERVICE:3 PHASE,4-WIRE				PANEL 'EM'								MAIN BUS (A)				150				
VOLTAGE:120/208												NEUTRAL (%)				100%				
MOUNTING:WALL MOUNTED												MAINS (A)				MLO				
TYPE:LOAD CENTRE												AIC (A)				22000				
LOAD DESCRIPTION		PHASE			TRIP POLE	WIRE	CONDUIT (INCH)	CKT NO.	CKT NO.	CONDUIT (INCH)	WIRE	TRIP POLE	PHASE			LOAD DESCRIPTION				
		R	Y	B									R	Y	B					
SECTION 1- 'EM'																				
PBX ROOM RCPT (PHONE)	1000			20/1P	12	3/4	1	2	3/4	12	20/1P	1000				PBX ROOM RCPT(PHONE)				
PBX ROOM RCPT(MATV)		1000		20/1P	12	3/4	3	4	3/4	12	20/1P		1000			PBX ROOM RCPT(MATV)				
PBX ROOM RCPT			1000	20/1P	12	3/4	5	6	3/4	12	20/1P			1000		PBX ROOM RCPT				
PBX ROOM RCPT	1000			20/1P	12	3/4	7	8	3/4	12	20/1P	1000				PBX ROOM RCPT				
PBX ROOM RCPT		360		20/1P	12	3/4	9	10	3/4	12	20/1P		1000			PBX ROOM RCPT(OnQ)				
PANEL 'DVR'			1000	20/1P	12	3/4	11	12	3/4	12	20/1P			900		FRONT DESK RCPT				
FRONT DESK RCPT	900			20/1P	12	3/4	13	14	3/4	12	20/1P	1000				PANEL 'FAAP'				
PANEL 'FACP'		1000		20/1P	12	3/4	15	16	3/4	12	20/1P		600			AUTOMATIC VESTIBULE DOOR				
AUTOMATIC VESTIBULE DOOR			600	20/1P	12	3/4	17	18	3/4	12	20/1P			360		VESTIBULE RCPT				
WORK AREA RCPT	1080			20/1P	12	3/4	19	20	3/4	8	40/1P	500				PRINTER RCPT				
WORK AREA RCPT		720		20/1P	12	3/4	21	22	3/4	12	20/1P		720			SALES/G.M ROOM RCPT				
SALES ROOM RCPT			360	20/1P	12	3/4	23	24	3/4	12	20/1P			360		GENERAL MANAGER AREA RCPT				
BUSINESS CENTER (PRINTER) RCPT	500			20/1P	12	3/4	25	26	3/4	12	20/1P	1000				BUSINESS CENTER JN. BOX				
BUSINESS CENTER RCPT		360		20/1P	12	3/4	27	28	3/4	12	20/1P		180			FRONT DESK RCPT				
FRONT DESK RCPT			180	20/1P	12	3/4	29	30	3/4	12	20/1P			1000		2ND FLOOR LV RACK-1				
2ND FLOOR LV RACK-2	1000			20/1P	12	3/4	31	32	3/4	12	20/1P	1000				3RD FLOOR LV RACK-1				
3RD FLOOR LV RACK-2		1000		20/1P	12	3/4	33	34	3/4	12	20/1P		1000			4TH FLOOR LV RACK-1				
4TH FLOOR LV RACK-2			1000	20/1P	12	3/4	35	36	3/4	12	20/1P			1000		5TH FLOOR LV RACK-1				
5TH FLOOR LV RACK-2	1000			20/1P	12	3/4	37	38	3/4	12	20/1P	541				1ST FLOOR EXHAUST FAN				
1ST FLOOR EXHAUST FAN		832		20/1P	12	3/4	39	40	3/4	12	20/1P		1044			1ST FLOOR EXHAUST FAN				
2ND FLOOR EXHAUST FAN			355	20/1P	12	3/4	41	42	3/4	12	20/1P			265		2ND FLOOR EXHAUST FAN				
3RD FLOOR EXHAUST FAN	265			20/1P	12	3/4	43	44	3/4	12	20/1P	265				4TH FLOOR EXHAUST FAN				
5TH FLOOR EXHAUST FAN		265		20/1P	12	3/4	45	46	3/4	12	20/1P		1604			ROOF EXHAUST FANS				
ROOF EXHAUST FANS			1584	20/1P	12	3/4	47	48	3/4	12	20/1P			1584		ROOF EXHAUST FANS				
ROOF EXHAUST FANS	1584			20/1P	12	3/4	49	50	3/4	12	20/1P	1584				ROOF EXHAUST FANS				
ROOF EXHAUST FANS		1584		20/1P	12	3/4	51	52	3/4	12	20/1P		540			WORK AREA RCPT				
FIRE SMOKE DAMPER			500	20/1P	12	3/4	53	54	3/4	12	20/1P			500		MAGNETIC DOOR HOLD				
CARD READER	500			20/1P	12	3/4	55	56								SPACE				
SPACE							57	58								SPACE				
SPACE							59	60								SPACE				
SUBTOTAL VA		8829	7121	6579													7890	7688	6969	SUBTOTAL VA
													8829	7121	6579					
													16719	14809	13548					
												TOTAL VA:	45076							
LOAD		CONNECTED LOAD		DEMAND FACTOR		DEMAND LOAD		NOTE: 1) AS PER NEC 210.8 GFCI RECEPTACLE SHALL BE ON READILY ACCESSIBLE LOCATION IF NOT CONTRACTOR SHALL PROVIDE GFCI BREAKER IN PANEL. PROVIDE GFCI TYPE RECEPTACLE AT READILY ACCESSIBLE LOCATION. IF ANY GFCI RECEPTACLE COMING BEHIND EQUIPMENT PROVIDE GFCI PROTECTION IN BREAKER AS PER CODE.												
RCPT 20A		7020		NEC ARTICLE 220.44		7020														
HVAC				NEC ARTICLE NO 220.82																
EXHAUST LOAD		13356		1		13356														
MISC LOAD		24700		1		24700														
TOTAL LOAD IN VA		45076				45076														
TOTAL LOAD IN AMPERE		125				125														
TAKING 20% SPARE CAPACITY IN AMP						150														

E1

NEL.

RICARDO J. MUNIZ-GUILLET, AIA
5453 NW 106TH DR
CORAL SPRINGS, FL 33076

Deal:



HOMESWOOD
SUITES
BY HILTON™

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CURRENT ISSUE

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PROJECT NO. _____

SHEET NAME

SHEET NAME

DRAWINGS NO.

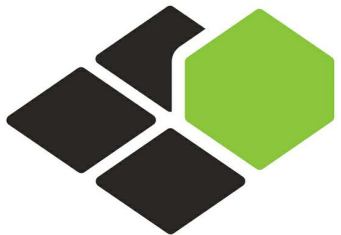
E-307

SERVICE:3 PHASE,4-WIRE				PANEL 'HLA'						MAIN BUS (A)		100				
VOLTAGE:120/208										NEUTRAL (%)		100%				
MOUNTING:WALL MOUNTED										MAINS (A)		MLO				
TYPE:LOAD CENTRE										AIC (A)		10000				
LOAD DESCRIPTION		PHASE		TRIP POLE	WIRE	CONDUIT (INCH)	CKT NO.	CKT NO.	CONDUIT (INCH)	WIRE	TRIP POLE	PHASE	LOAD DESCRIPTION			
SECTION-1 'HLA'																
1ST FLOOR CORRIDOR LTG	180			15/1P	12	3/4"	1	2	12	3/4"	15/1P	180			1ST FLOOR CORRIDOR LTG	
1ST FLOOR CORRIDOR LTG		80		15/1P	12	3/4"	3	4	12	3/4"	15/1P		78		1ST FLOOR CORRIDOR LTG	
1ST FLOOR CORRIDOR LTG			34	15/1P	12	3/4"	5	6	12	3/4"	15/1P			136	1ST FLOOR CORRIDOR LTG	
1ST FLOOR CORRIDOR LTG	136			15/1P	12	3/4"	7	8	12	3/4"	15/1P	92			STORAGE LTG	
SALES LTG		70		15/1P	12	3/4"	9	10	12	3/4"	15/1P		130		GENERAL MANAGER	
STORAGE LTG			60	15/1P	12	3/4"	11	12	12	3/4"	15/1P			55	WORK AREA LTG	
WORK AREA LTG	190			15/1P	12	3/4"	13	14	12	3/4"	15/1P	85			FOOD STORAGE LTG	
FOOD PREP LTG		245		15/1P	12	3/4"	15	16	12	3/4"	15/1P		44		PANTRY LTG	
PANTRY LTG			16	15/1P	12	3/4"	17	18	12	3/4"	15/1P			255	PANTRY LTG	
VESTIBULE LTG	142			15/1P	13	3/4"	19	20	12	3/4"	15/1P	60			1ST FLOOR CORRIDOR LTG	
1ST FLOOR CORRIDOR LTG		180		15/1P	12	3/4"	21	22	12	3/4"	15/1P		396		PORTE COCHERE LTG	
MEETING STORAGE LTG			63	15/1P	12	3/4"	23	24	12	3/4"	15/1P			97	MEETING ROOM LTG	
MEETING ROOM LTG	315			15/1P	12	3/4"	25	26	12	3/4"	15/1P	312			MEETING ROOM LTG	
POOL MECH ROOM LTG		63		15/1P	12	3/4"	27	28	12	3/4"	15/1P		65		POOL UNISEX LTG	
GUEST LAUNDRY LTG			130	15/1P	12	3/4"	29	30	12	3/4"	15/1P			360	INDOOR POOL AREA LTG	
INDOOR POOL AREA LTG	353			15/1P	12	3/4"	31	32	12	3/4"	15/1P	282			FITNESS AREA LTG	
FITNESS AREA LTG		255		15/1P	12	3/4"	33	34	12	3/4"	15/1P		255		FITNESS AREA LTG	
FITNESS AREA LTG			255	15/1P	12	3/4"	35	36	12	3/4"	15/1P			120	ELECTRICAL ROOM LTG	
MECHANICAL ROOM LTG	150			15/1P	12	3/4"	37	38	12	3/4"	15/1P	85			ENGINEERING ROOM LTG	
1ST FLOOR CORRIDOR LTG		260		15/1P	12	3/4"	39	40	12	3/4"	15/1P		60		STORAGE LTG	
BREAK ROOM LTG			200	15/1P	12	3/4"	41	42	12	3/4"	15/1P			165	BREAK ROOM LTG	
BREAK ROOM LTG	33			15/1P	12	3/4"	43	44	12	3/4"	15/1P	45			UNIXES EMPLOYEE LTG	
LINEN STORAGE LTG		60		15/1P	12	3/4"	45	46	12	3/4"	15/1P		310		LAUNDRY ROOM LTG	
LAUNDRY ROOM LTG			315	15/1P	12	3/4"	47	48	12	3/4"	15/1P			85	1ST FLOOR CORRIDOR LTG	
1ST FLOOR CORRIDOR LTG	60			15/1P	12	3/4"	49	50	12	3/4"	15/1P	32			LINEN ROOM LTG	
PBX ROOM LTG		60		15/1P	12	3/4"	51	52	12	3/4"	15/1P		165		ELEVATOR SHAFT LTG	
ELEVATOR LOBBY AREA LTG			301	15/1P	12	3/4"	53	54	12	3/4"	15/1P			230	WOMEN RESTROOM LTG	
MEN RESTROOM LTG	140			15/1P	12	3/4"	55	56	12	3/4"	15/1P	145			1ST FLOOR CORRIDOR LTG	
STAIR-1 LTG		363		15/1P	12	3/4"	57	58	12	3/4"	15/1P		363		STAIR-2 LTG	
STAIR-1 LTG			290	15/1P	12	3/4"	59	60	12	3/4"	15/1P			290	STAIR-2 LTG	
OUTDOOR PATIO LTG	160			15/1P	12	3/4"	61	62	12	3/4"	15/1P	120			EXTERIOR LTG	
EXTERIOR LTG		45		15/1P	12	3/4"	63	64	12	3/4"	15/1P		50		EXTERIOR LTG	
OUTDOOR PATIO LTG			52	15/1P	12	3/4"	65	66	12	3/4"	15/1P			70	EXTERIOR LTG	
EXTERIOR LTG	50			15/1P	12	3/4"	67	68	12	3/4"	15/1P	70			EXTERIOR LTG	
DIMMER PANEL		3069		35/1P	12	3/4"	69	70	12	3/4"	15/1P		200		MEETING ROOM LTG	
MEETING ROOM LTG			150	15/1P	12	3/4"	71	72	12	3/4"	15/1P				SPACE	
SUBTOTAL VA		1909	4750	1866								1508	2116	1863	SUBTOTAL VA	
											1909	4750	1866			
											3417	6866	3729			
											TOTAL VA:		14012			
LOAD		CONNECTED LOAD		DEMAND FACTOR		DEMAND LOAD		NOTE: 1) AS PER NEC 210.8 GFCI RECEPTACLE SHALL BE ON READILY ACCESSIBLE LOCATION IF NOT CONTRACTOR SHALL PROVIDE GFCI BREAKER IN PANEL. PROVIDE GFCI TYPE RECEPTACLE AT READILY ACCESSIBLE LOCATION. IF ANY GFCI RECEPTACLE COMING BEHIND EQUIPMENT PROVIDE GFCI PROTECTION IN BREAKER AS PER CODE.								
LIGHTING (INTERIOR)		13607		1.25		17009										
LIGHTING (EXTERIOR)		405		1.25		506										
TOTAL LOAD IN VA		14012				17515										
TOTAL LOAD IN AMPERE		39				49										
TAKING 20% SPARE CAPACITY IN AMP						58										

TRANSFORMER SECONDARY SHORT CIRCUIT CURRENT CALCULATION			
1	IF.L=(KVA X 1000)/(ELL X1.732) IF.L=(1000 X 1000)/(208*1.732) IF.L=2775.8 AMP	4	F=(1.732 X L X IS.C)/(C X n X EL.L) F=(1.732 X 250 X79304.61)/(29036X8X 208) F = 0.71 F=FACTOR L=LENGTH OF CONDUCTOR IN FEET IS.C= TRANSFORMER SECONDRY FAULT CURRENT C= CONSTANT n=NO. OF CONDUCTOR PER PHASE EL.L=VOLTAGE OF CIRCUIT
	KVA= RATING OF TRANSFORMER EL.L=VOLTAGE OF CIRCUIT IF.L=TRANSFORMER FULL LOAD CURRENT		
2	M=100/%Z M=100/3.5 M=28.57 M=MULTIPLIER %Z=TRANSFORMER IMPEDENCE	5	M=1/1+F M=1/1+0.71 M= 0.585 IS.C SYM. RMS= IS.C X M IS.C SYM. RMS=79304.61 X 0.585 IS.C SYM. RMS=46393.20 AMP
	IS.C=IF.L X M IS.C=2775.8 X 28.57 AMP IS.C=79304.61AMP		
3	IS.C= TRANSFORMER SECONDARY FAULT CURRENT	AFC RATING OF 65 KA	

SHORT CIRCUIT CALCULATION												
FEEDER DESIGNATION	DISTANCE(FT.)	IFL (AMP)	M	ISC (AMP)	BREAKER MAINS	AWG	N	C	F	M FACTOR	ISC(M)	AIC RATING (AMP)
MSB	250	2776	28.57	79309	3000	3#750	8	29036	0.71	0.58	46359	65000
HPA	45	2776	28.57	79309	110	3#1/0	1	5876	5.06	0.17	13093	18000
HLA	45	2776	28.57	79309	60	3#6	1	2433	12.21	0.08	6002	10000
HPB & HLB	240	2776	28.57	79309	110	3#1/0	1	5876	26.97	0.04	2835	10000
HPC & HLC	270	2776	28.57	79309	110	3#1/0	1	5876	30.35	0.03	2530	10000
KP	240	3470	28.57	99136	150	3#3/0	1	9243	21.43	0.04	4419	10000
MP	45	2776	28.57	79309	300	3#500	1	23018	1.29	0.44	34616	42000
PP	60	2776	28.57	79309	125	3#2/0	1	7373	5.37	0.16	12442	18000
LP	90	2776	28.57	79309	150	3#3/0	1	9243	6.43	0.13	10674	18000
SEP	45	2776	28.57	79309	600	3#500	2	23018	0.65	0.61	48196	65000
EM	45	2776	28.57	79309	150	3#3/0	1	9243	3.22	0.24	18815	22000
EP	45	2776	28.57	79309	500	3#350	2	17635	0.84	0.54	43042	65000
SP	160	2776	28.57	79309	100	3#1	1	4699	22.49	0.04	3377	10000
1GA	45	3470	28.57	99136	250	3#400	1	19588	1.90	0.35	34227	42000
2GA	225	2776	28.57	79309	300	3#500	1	23018	6.46	0.13	10638	18000
2GB	225	2776	28.57	79309	250	3#400	1	19588	7.59	0.12	9237	10000
3GA	240	2776	28.57	79309	350	3#4/0	2	11409	6.95	0.13	9981	10000
3GB	240	2776	28.57	79309	250	3#400	1	19588	8.09	0.11	8723	10000
4GA	255	2776	28.57	79309	350	3#4/0	2	11409	7.38	0.12	9464	10000
4GB	255	2776	28.57	79309	250	3#400	1	19588	8.60	0.10	8264	10000
5GA	270	2776	28.57	79309	350	3#4/0	2	11409	7.81	0.11	8998	10000
5GB	270	2776	28.57	79309	250	3#400	1	19588	9.10	0.10	7850	10000
MAU-1	280	2776	28.57	79309	110	3#2	1	6087	30.38	0.03	2528	10000
MAU-2	240	2776	28.57	79309	110	3#2	1	6087	26.04	0.04	2933	10000

PANEL 'HLA'	TRANSFORMER SECONDARY SHORT CIRCUIT CURRENT CALCULATION
	SHORT CIRCUIT CALCULATIONS



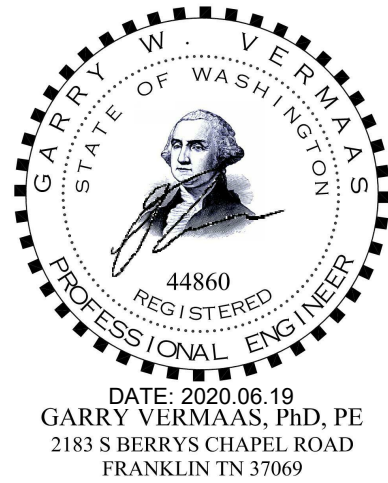
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RICARDO J. MUNIZ-GUILLET,AIA
5453 NW 106TH DR
CORAL SPRINGS, FL 33076

MEP ENGINEER
GARRY VERMAAS PhD, PE
2183 S BERRYS CHAPEL ROAD
FRANKLIN, TN 37069

Seal:



Owner:



Dakota Legacy Group
Hospitality Development:
4500 36TH AVE. S SUITE
200, FARGO, ND 58104
701.551.8000 (OFFICE)



3500 S MERIDIAN, PUYALLUP, WA 98373

PROTOTYPE VERSION: V9.2 2014 FEB

ISSUE NO.	DELTA	ISSUE DATE	DESCRIPTION
2	E1	2020.06.19	CITY COMMENTS
1	E0	2020.02.21	ISSUED FOR PERMIT

CURRENT ISSUE

ISSUED FOR PERMIT

CURRENT ISSUE DATE
2020.02.21

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PROJECT NO.
B4-124-1803

SHEET NAME

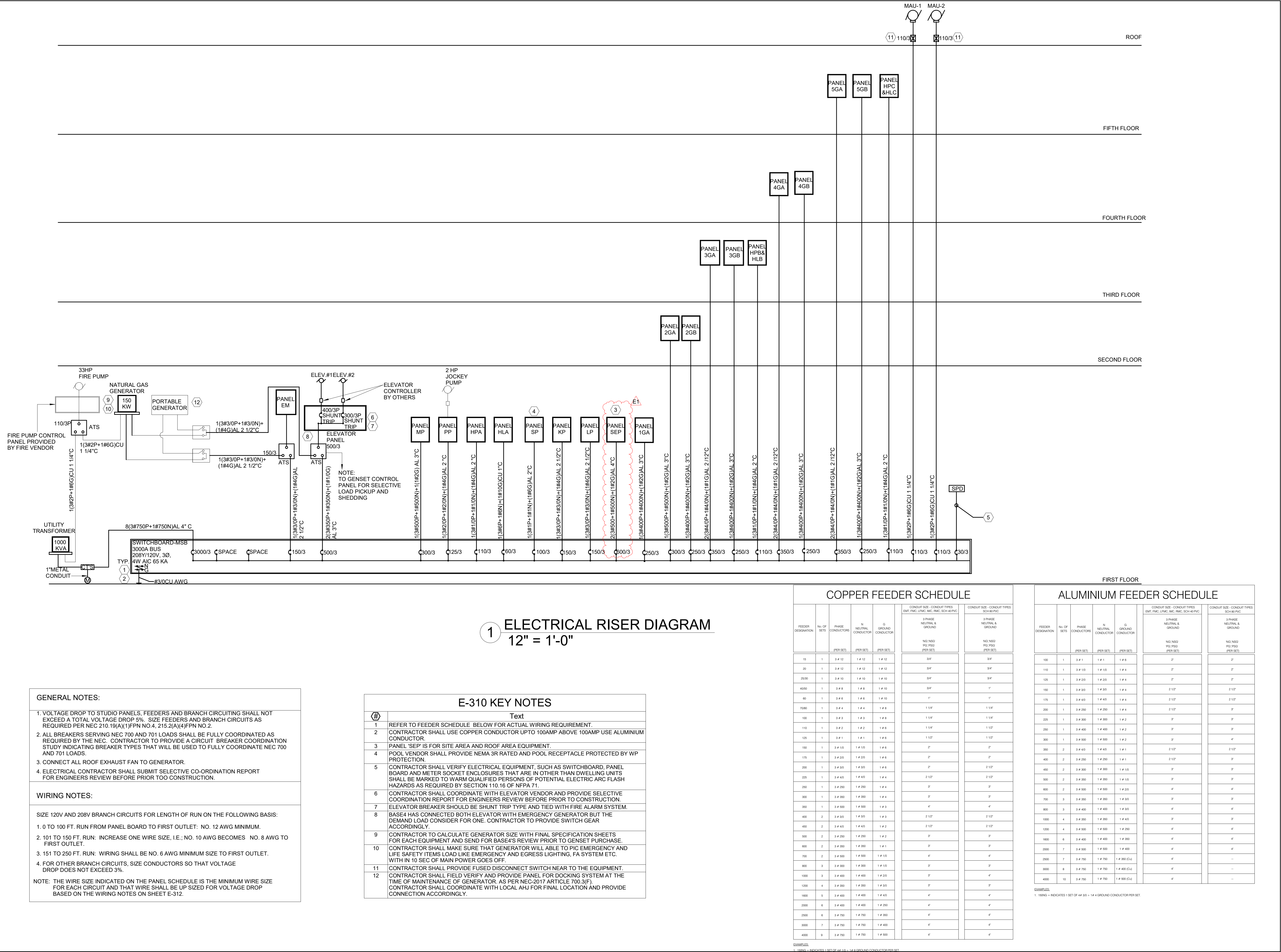
PANEL
SCHEDULE-8

DRAWINGS NO.

E-308

SERVICE:3 PHASE,4-WIRE				PANEL 'MSB'							MAIN BUS (A)		3000				
VOLTAGE:120/208											NEUTRAL		100%				
MOUNTING:FLOOR MOUNTED											MAINS (A)		3000				
TYPE:LOAD CENTRE											AIC (A)		65000				
LOAD DESCRIPTION	PHASE			TRIP POLE	WIRE	CONDUIT	CKT NO.	CKT NO.	CONDUIT	WIRE	TRIP POLE	PHASE			LOAD DESCRIPTION		
	R	Y	B									R	Y	B			
MAU-1	10327			110/3P	(3#1/0+1#1/0N+1#4G)AL	2	1	2	2	(3#1/0+1#1/0N+1#4G)AL	110/3P	10327			MAU-2		
		10327						3				4		10327			
			10327					5				6				10327	
PANEL '1GA'	69345			250/3P	(3#400+1#400N+1#2G)AL	3	7	8	4	(3#500+1#500N+1#2G)AL	300/3P	67270			PANEL '2GA'		
		51730						9				10		68425			
			47415					11				12				63065	
PANEL '2GB'	65915			250/3P	(3#400+1#400N+1#2G)AL	3	13	14	2 1/2	2(3#4/0+1#4/0N)+(1#1G)AL	350/3P	84480			PANEL '3GA'		
		54890						15				16		85635			
			57915					17				18				63065	
PANEL '3GB'	65915			250/3P	(3#400+1#400N+1#2G)AL	3	19	20	2 1/2	2(3#4/0+1#4/0N)+(1#1G)AL	350/3P	84480			PANEL '4GA'		
		54950						21				22		85635			
			57975					23				24				63065	
PANEL '4GB'	65915			250/3P	(3#400+1#400N+1#2G)AL	3	25	26	2 1/2	2(3#4/0+1#4/0N)+(1#1G)AL	350/3P	84480			PANEL '5GA'		
		54950						27				28		85635			
			57975					29				30				63065	
PANEL '5GB'	66405			250/3P	(3#400+1#400N+1#2G)AL	3	31	32	2	(3#1/0+1#1/0N+1#4G)AL	110/3P	13728			PANEL 'HPA'		
		54925						33				34		12620			
			58490					35				36				11180	
PANEL 'HPB & HLB'	5690			110/3P	(3#1/0+1#1/0N+1#4G)AL	2	37	38	2	(3#1/0+1#1/0N+1#4G)AL	110/3P	6081			PANEL 'HPC & HLC'		
		5202						39				40		6222			
			5618					41				42				4665	
PANEL 'LP'	13584			150/3P	(3#3/0+1#3/0N+1#4G)AL	2 1/2	43	44	2 1/2	(3#3/0+1#3/0N+1#4G)AL	150/3P	15686			PANEL 'KP'		
		11328						45				46		15454			
			12004					47				48				14788	
PANEL 'PP'	7671			125/3P	(3#2/0+1#2/0N+1#4G)AL	2	49	50	4	2(3#500+1#500N)+(1#2/0G)AL	600/3P	11942			PANEL 'SEP'		
		7256						51				52		17678			
			6911					53				54				19933	
PANEL 'SP'	2460			100/3P	(3#1+1#1N+1#6G)AL	2	55	56	2 1/2	(3#3/0+1#3/0N+1#4G)AL	150/3P	16719			PANEL 'EM'		
		2630						57				58		14809			
			2320					59				60				13548	
PANEL 'EP'	35563			500/3P	2(3#350+1#350N)+(1#1/0G)AL	3	61	62	3	(3#500+1#500N+1#2G)AL	300/3P	51994			PANEL 'MP'		
		35263						63				64		52368			
			34145					65				66				49475	
PANEL 'HLA'	3417			60/3P	(3#6+1#6N+1#10G)CU	1	67	68			30/3P				SPD		
		6866						69				70					
			3729					71				72					
SPACE							73	74							SPACE		
								75				76					
								77				78					
SPACE							79	80							SPACE		
								81				82					
								83				84					
SUBTOTAL VA				412207	350317	354824							447187	454808	376176	SUBTOTAL VA	
													412207	350317	354824		
													859394	805125	731000		
													TOTAL VA:			2395519	
LOAD				CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	NOTE : 1)CONTRACTOR SHALL CHECK BREAKER SIZES AS PER PANEL SCHEDULE AND VERIFY IF IS THERE ANY CORRECTION BEFORE CONSTRUCTION. 2)CONTRACTOR SHALL CHECK SHORT CIRCUIT CALCULATION AND VERIFY BREAKER AIC RATING AS PER AFC CALCULATION AND SELECT ACCORDINGLY. 3)CONTRACTOR SHALL PROVIDE SELECTIVE COORDINATION REPORT OF ELEVATORS FOR ENGINEERS REVIEW. PRIOR TO CONSTRUCTION.										
GUEST ROOM LOAD																	
TOTAL GUEST ROOM LOAD IN VA		1783010	NEC ARTICLE NO 220.42	410092													
PUBLIC AND BOH AREA LOAD																	
LIGHTING (INTERIOR)		22165	1.25	27706													
LIGHTING (EXTERIOR)		3558	1.25	4448													
RCPT 20A		56340	NEC ARTICLE 220.44	33170													
HVAC			NEC ARTICLE NO 220.82														
HVAC COOLING		131748	1	131748													
HVAC HEATING		77396	1														
EXHAUST LOAD		13525	1	13525													
AHU		6490	1	6490													
MOTOR			NEC ARTICLE 430.24														
BOOSTER PUMP		15993	1	15993													
CP PUMP		905	1	905													
SUMP PUMP		2516	1	2516													
JOCKEY PUMP		2700	1	2700													
ELEVATORS-1		56205	1.25	70256													
ELEVATORS-2		44130	1	44130													
POOL PUMP		4050	1	4050													
KITCHEN LOAD		36164	0.65	23507													
REFRIGERATOR LOAD		12056	1.25	15070													
LAUNDRY LOAD		33256	1	33256													
CHARGING STATIONS LOAD		43680	1	43680													
MISC LOAD		48916	1	48916													
TOTAL LOAD IN VA		2394799		932158													
TOTAL LOAD IN AMPERE		6647		2587													
TAKING 10% SPARE CAPACITY IN AMP				2846													
TRANSFORMER CALCULATION																	
FIRE PUMP		31702	0	0													
TOTAL LOAD IN VA		2426501		932158													
TOTAL LOAD IN KVA		2427		932													
DESIGN MARGIN@5%		2548		979													
TRANSFORMER SIZE (KVA)				1000													

FEEDER VOLTAGE DROP CALCULATION		
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2901 CLINT MOORE ROAD, #114
BOCA RATON, FLORIDA 33496
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CORAL SPRINGS, FL 33076

MEP ENGINEER
GARRY VERMAAS PhD, PE
2183 S BERRYS CHAPEL ROAD
FRANKLIN, TN 37069

Seal:



DATE: 2020.06.19
GARRY VERMAAS, PhD, PE
2183 S BERRYS CHAPEL ROAD
FRANKLIN, TN 37069

Owner:



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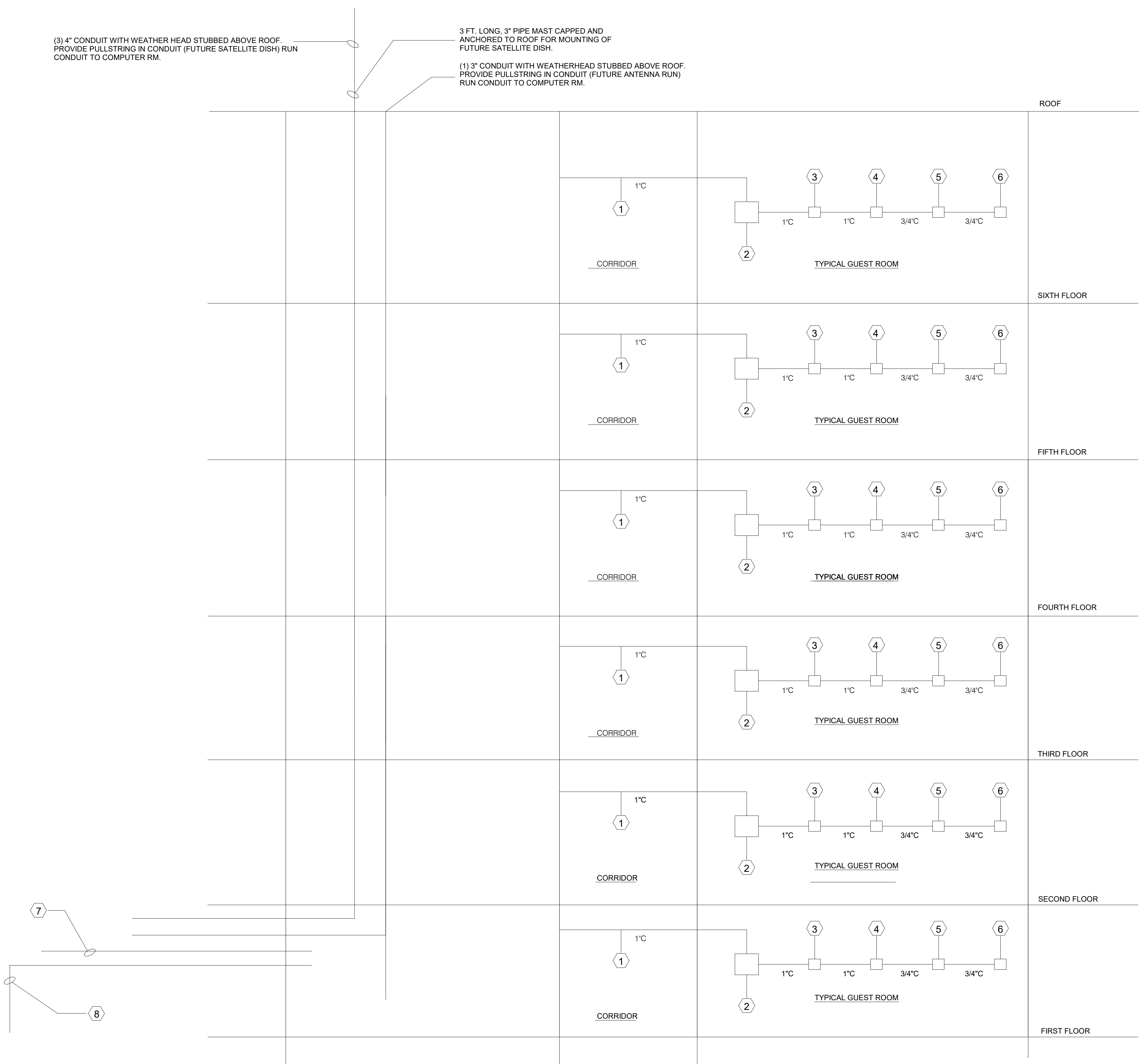
PROJECT NO.
B4-124-1803

SHEET NAME

ELECTRICAL RISER DIAGRAM

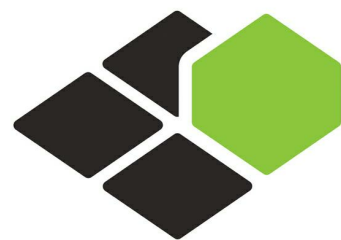
DRAWINGS NO.

E-310



1 TELEPHONE, DATA AND TV RISER DIAGRAM
1/4" = 1'-0"

- GENERAL NOTES:**
1. VENDOR NEEDS TO PLACE WIRELESS INTERNET AND ROUTERS IN ALL PUBLIC LOCATIONS AND ON EACH END OF EACH FLOOR.
- KEY NOTES:**
1. 1" CONDUIT TO GUEST ROOM AS SHOWN.
 2. MAIN DOUBLE GANG BOX LOCATED NEAR TV LOCATION.
 3. DATA JACK AT DESK LOCATION.
 4. VOICE JACK AT BELOW DESK LOCATION.
 5. VOICE JACK AT BED LOCATION.
 6. PHONE OUTLET IN SUIT OR GUEST ROOM WHERE IT OCCURS. REFER TO ENLARGED GUEST ROOM DRAWINGS.
 7. (1) 3" CONDUIT TO BE RAN FROM THE TECHNOLOGY CLOSET TO THE FRONT DESK. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AS TO THE FINAL LOCATION OF THE CONDUIT RUN.
 8. (3) 4" CONDUIT TO BE RAN FROM THE HEAD END TO THE TECHNOLOGY CLOSET.
 9. BASE4 HAS PROVIDED DRAWING FOR REFERENCE PURPOSE ONLY. FINAL DRAWING SUBMITTED BY VENDOR.



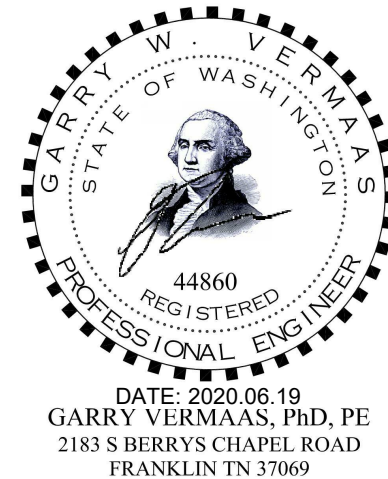
BASE⁴

BASE4
2901 CLINT MOORE ROAD, #114
BOCA RATON, FLORIDA 33496
888.901.8008 www.base-4.com

RICARDO J. MUNIZ-GUILLET, AIA
5453 NW 106TH DR
CORAL SPRINGS, FL 33076

MEP ENGINEER
GARRY VERMAAS PhD, PE
2183 S BERRYS CHAPEL ROAD
FRANKLIN, TN 37069

Seal:



Owner:



3500 S MERIDIAN, PUYALLUP, WA 98373
PROTOTYPE VERSION: V9.2 2014 FEB

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CURRENT ISSUE DATE
2020.02.21

DRAWN BY
VSG

CHECKED BY
GWV

PROJECT NO.
B4-124-1803

SHEET NAME

**TELEPHONE, DATA
AND TV RISER
DIAGRAM**

DRAWINGS NO.

E-311