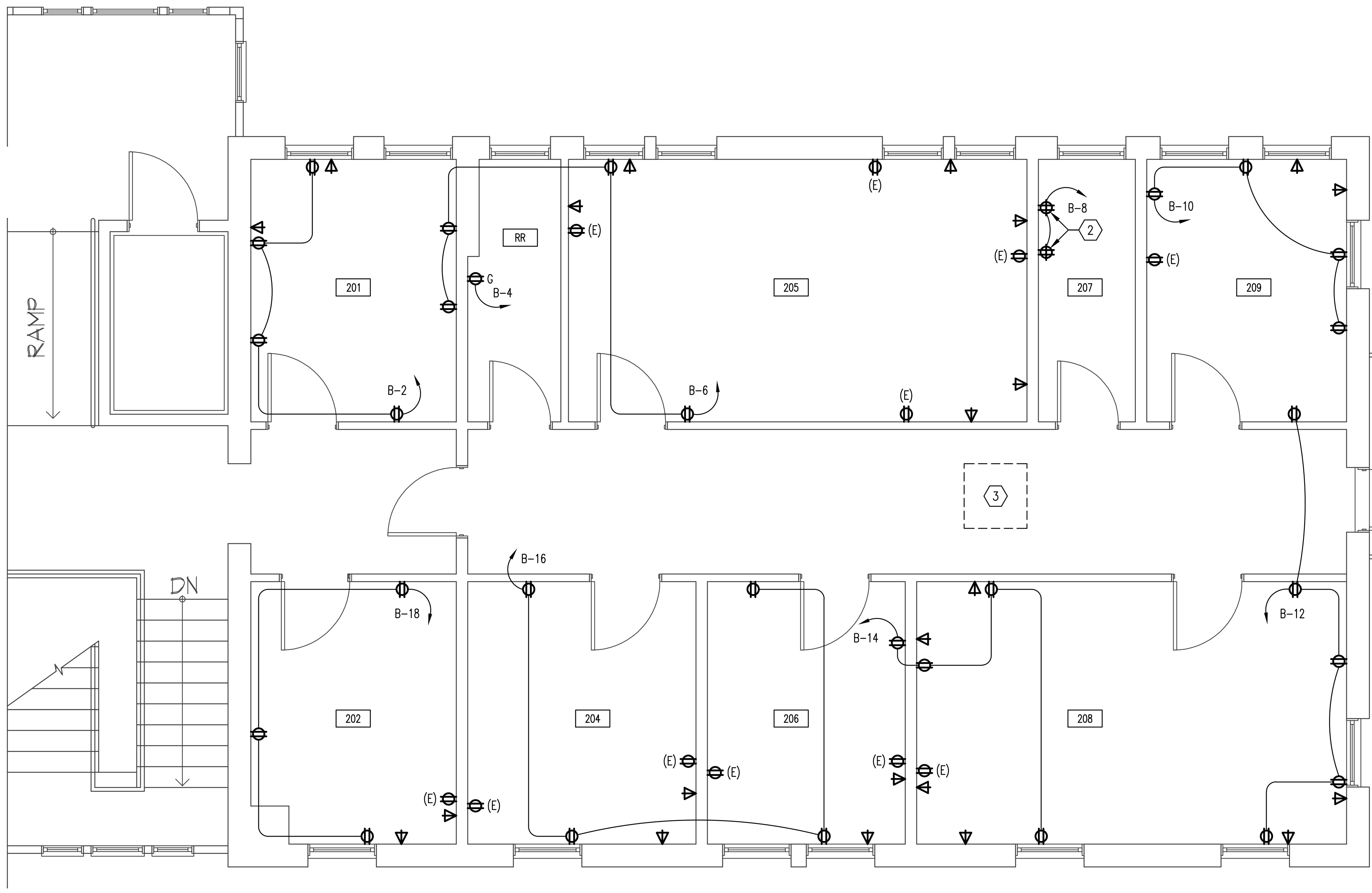
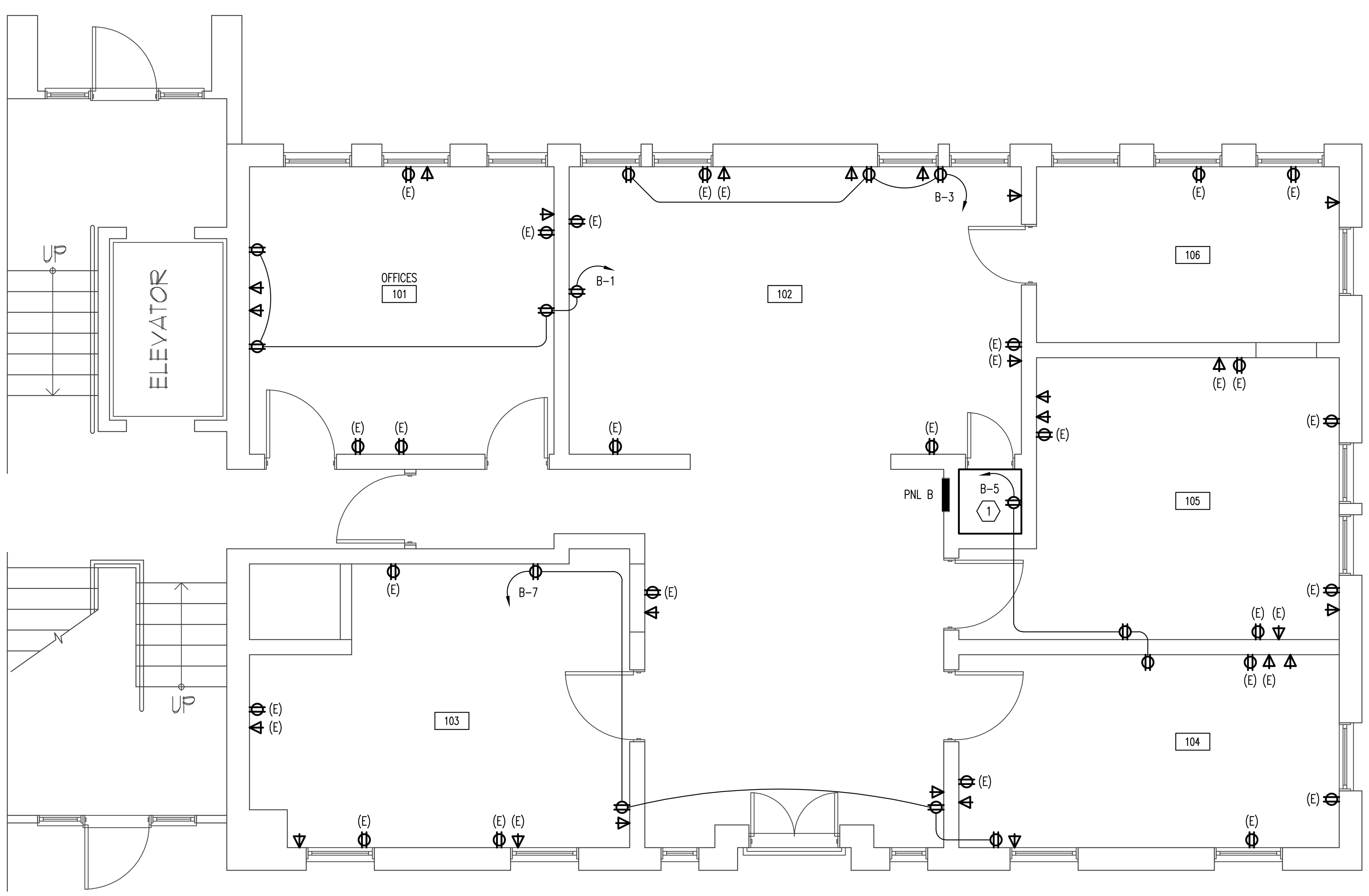


2 E1.1 SECOND FLOOR PLAN – ELECTRICAL
SCALE : 1/4" = 1'-0"



1 E1.1 FIRST FLOOR PLAN – ELECTRICAL POWER AND DATA
SCALE : 1/4" = 1'-0"

ELECTRICAL LEGEND

- (E) RECEPTACLE, DUPLEX, EXISTING
- NEW RECEPTACLE, DUPLEX, WALL MOUNTED, 20 AMP RATED, 120 VOLT, 18" AFF TO BOTTOM
- G GFCI RECEPTACLE, DUPLEX, WALL MOUNTED, MIN. 20 AMP RATING, 120 VOLT, 44" AFF TO BOTTOM (GROUND FAULT INTERRUPTER)
- RECEPTACLE, DUPLEX, WALL MOUNTED, 20 AMP RATED, 120 VOLT, COORD HEIGHT WITH CASEWORK/COUNTER
- (E) TELEPHONE/DATA OUTLET, EXISTING
- NEW TELEPHONE/DATA OUTLET, 18" AFF TO BOTTOM
- (E) EXISTING
- AFF ABOVE FINISHED FLOOR
- SPD SURGE PROTECTION DEVICE

PANEL B

220/208 V, 3 P, 4 W, S/N, 400 A MLO — MCB A. I. C. -- MINIMUM UL LISTED
FLUSH MOUNTING, 30 TOTAL SPACES, 1 SECTIONS — BRANCH CB A. I. C. 10,000 MINIMUM SERIES-RATED
WITH GROUND BAR --

C. B. NO.	POLES	TRIP AMPS	LOAD KVA	DESCRIPTION	C. B. NO.	POLES	TRIP AMPS	LOAD KVA	DESCRIPTION
1	1	20	1.5	RECEPTACLES – 101, 102	2	1	20	1.5	RECEPTACLES – 201
3	1	20	1.5	RECEPTACLES – 102	4	1	20	1.5	RECEPTACLES – REST ROOM
5	1	20	1.5	RECEPTACLES – 102, 104, 105	6	1	20	1.5	RECEPTACLES – 201, 205
7	1	20	1.5	RECEPTACLES – 103, CORRIDOR	8	1	20	1.5	RECEPTACLES – 207
9	1	20	–	SPARE	10	1	20	1.5	RECEPTACLES – 209
11	1	20	–	SPARE	12	1	20	1.5	RECEPTACLES – 208, 209
13	1	20	–	SPARE	14	1	20	1.5	RECEPTACLES – 206, 208
15	1	20	–	SPARE	16	1	20	1.5	RECEPTACLES – 204, 206
17	1	20	–	SPARE	18	1	20	1.5	RECEPTACLES – 202
19	1	20	–	SPARE	20	1	20	–	SPARE
21	1	20	–	SPARE	22	1	20	–	SPARE
23	1	20	–	SPARE	24	1	20	–	SPARE
25	3	20	–	SURGE PROTECTION DEVICE	26	1	20	–	SPARE
27	–	–	–		28	1	20	–	SPARE
29	–	–	–		30	1	20	–	SPARE

ELECTRICAL NOTES

1. DATA PATCH PANEL/ RACK LOCATION. ROUTE DATA AND TELEPHONE CABLES FROM OUTLETS TO THIS ROOM.
2. FURNISH GFCI TYPE RECEPTACLE IF DEVICE IS LOCATED WITH 6' OF ANY SINK.
3. DATA PATCH PANEL/ RACK LOCATION ON FIRST FLOOR.

ELECTRICAL SPECIFICATION NOTES

1. ALL WORK SHALL CONFORM TO LOCAL CODES AND ORDINANCES.
2. CONDUCTORS: COPPER WITH THW OR THWN INSULATION UNLESS OTHERWISE NOTED.
3. WIRE METHODS: THW OR THWN IN CONDUIT. TYPE 'MC' CABLE MAY BE USED WHERE CONCEALED.
4. RACEWAYS: ABOVE SLAB OR GRADE:
   INTERIOR: EMT WITH STEEL COMPRESSION OR SET SCREW FITTING.
5. PROVIDE GROUNDING CONDUCTORS IN ALL CONDUIT AND CABLES.
6. DEVICES SHALL BE SPECIFICATION GRADE. COLOR TO BE SELECTED.
   DEVICE COVER PLATES SHALL BE SMOOTH PLASTIC TO MATCH DEVICE COLOR.
7. DISCONNECT SWITCHES:
   INDOOR : GENERAL DUTY NEMA 1, RATINGS AS NOTED.
8. PANELBOARDS:
   INDOOR : NEMA 1 WITH PLATED ALUMINUM OR COPPER BUSSES ARRANGED FOR DISTRIBUTED PHASE CONNECTIONS, FULL NEUTRAL BUS, GROUND BAR, BOLT-ON, BRANCH AUTOMATIC CIRCUIT BREAKERS. QUANTITY, POLES, TRIP RATING SHOWN.
9. INSTALL TYPEWRITTEN CIRCUIT DIRECTORY ON EACH PANELBOARD COVER INTERIOR SHOWING THE "AS WIRED" CONDITION, AFTER WIRING IS COMPLETE.
10. JUNCTION AND OUTLET BOXES;
    A. INTERIOR: GALVANIZED STEEL.
11. NEW FEEDER CIRCUIT BREAKER SELECTED TO BE COMPATIBLE WITH EXISTING 400 AMP PANEL IN BASEMENT.
12. DATA/ TELEPHONE FACE PLATE SHALL CONTAIN RJ45 AND RJ11 CONNECTORS
13. DATA/ TELEPHONE WIRING: CATEGORY 5e, #22 CONDUCTOR CABLE, 2 CABLES PER OUTLET. SUPPORT WIRING ABOVE CEILING WITH D-HOOKS OR J-HOOKS.

SURGE PROTECTION DEVICE SPECIFICATIONS

A. COMPLIES WITH UL 1449 CLAMPING DOCUMENTATION AND CATEGORY C3 TEST RESULTS.

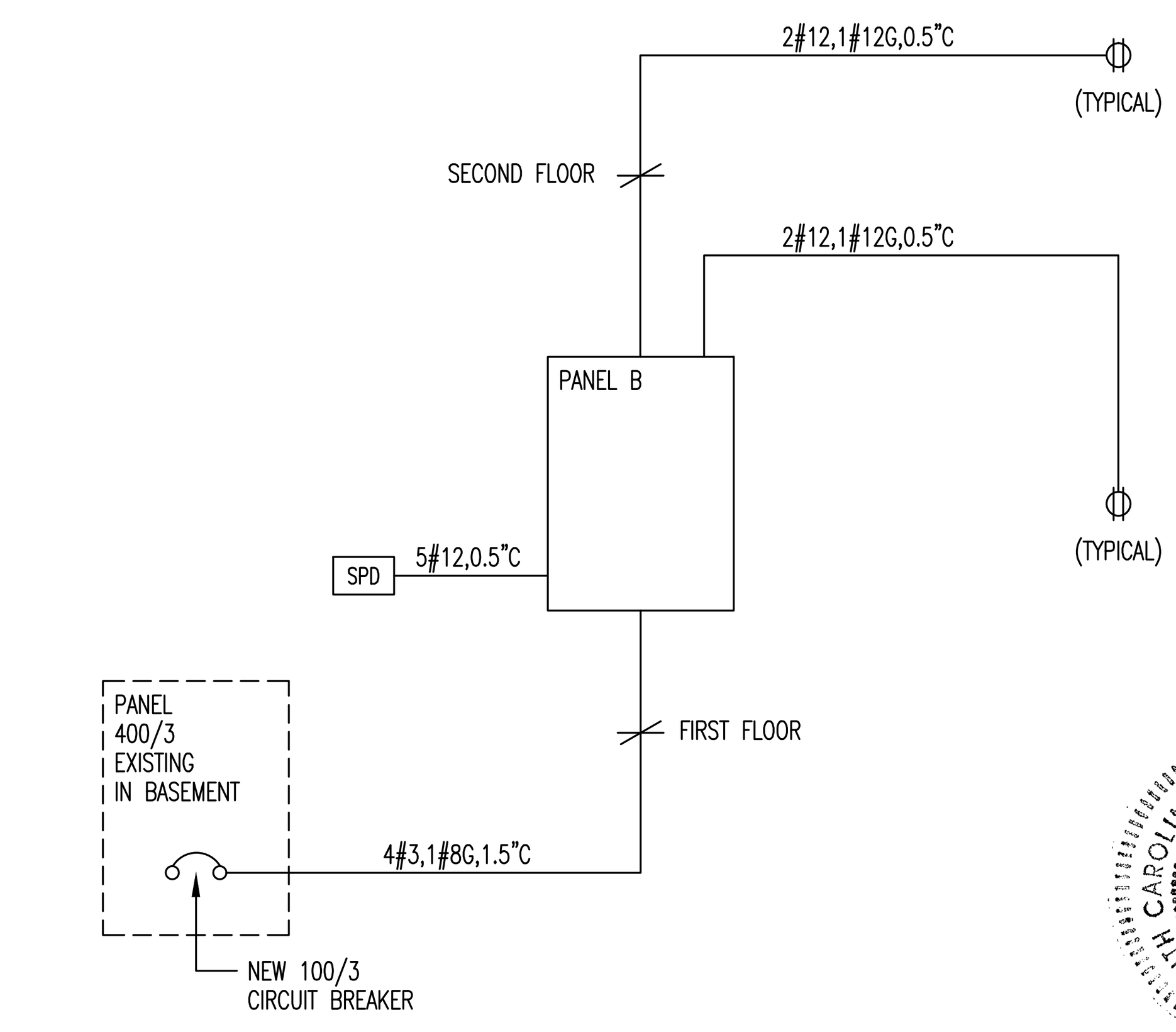
B. FOR 3-PHASE, 4-WIRE WYE CONFIGURATIONS, SUPPRESSORS SHALL PROVIDE SUPPRESSION ELEMENTS BETWEEN ALL PHASES AND EACH PHASE CONDUCTOR AND THE SYSTEM NEUTRAL, AND BETWEEN EACH PHASE AND GROUND. AN ADDITIONAL SUPPRESSION ELEMENT IS REQUIRED BETWEEN THE SYSTEM NEUTRAL AND THE ELECTRICAL GROUNDING CONDUCTOR PROVIDING A TOTAL OF (10) SUPPRESSION ELEMENTS.

C. CONDUCTORS BETWEEN SUPPRESSOR AND POINT OF ATTACHMENT TO THE PANEL BOARD SHALL BE KEPT AS SHORT AND STRAIGHT AS POSSIBLE.

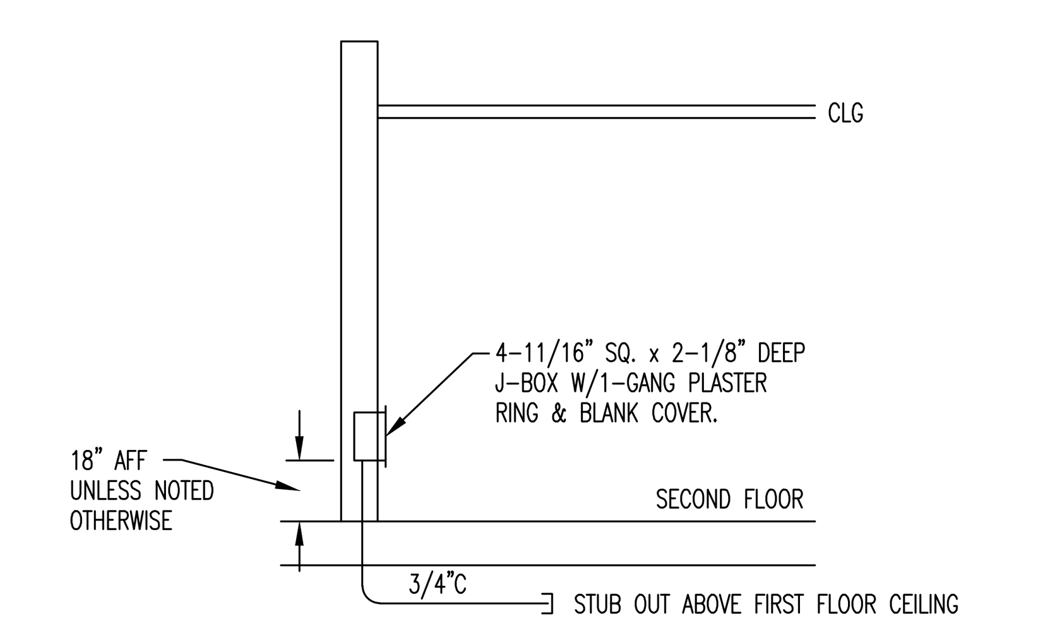
D. NEMA 3R ENCLOSURE FOR OUTDOOR INSTALLATION.

E. BRANCH PANEL: MAX IMPULSE CURRENT: 30,000 A
   PULSE LIFE RATING: 1,000 A, 100 OCCURENCES
   5,000 A, 50 OCCURENCES

F. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

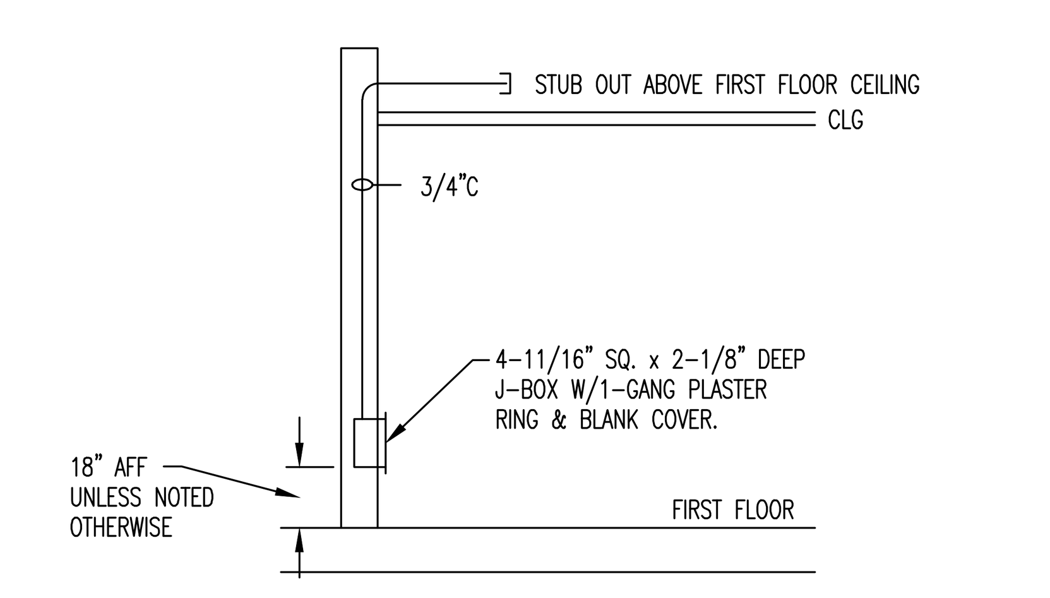


A E1.1 PARTIAL POWER RISER DIAGRAM
SCALE : NTS



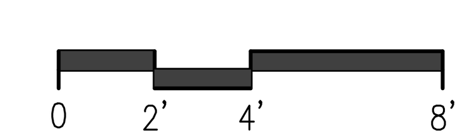
SECOND FLOOR

B E1.1 TELEPHONE/DATA/COMM. OUTLET INSTALLATION DETAIL
SCALE : NTS



FIRST FLOOR

C E1.1 TELEPHONE/DATA/COMM. OUTLET INSTALLATION DETAIL
SCALE : NTS



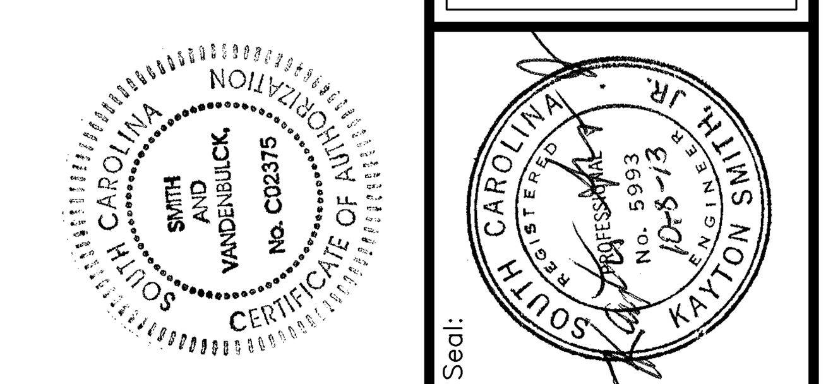
GENERAL NOTE:

DRAWINGS ARE SCHEMATIC. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL DEVICE LOCATIONS AND INTERCONNECT ROUTING WITH ARCHITECTURAL AND STRUCTURAL CONFIGURATIONS AND REQUIREMENTS.

Revision:

SMITH and VANDENBULCK
ENGINEERING and LANDSCAPE ARCHITECTURE
A DIVISION OF SAV ENGINEERING, INC.
5 OGLETHORPE PROFESSIONAL BOULEVARD, SUITE 130
SAVANNAH, GEORGIA 31406
PHONE: 912-354-5249 FACSIMILE: 912-352-8429

Seal:



Project:
OLD JAIL AND ANNEX BUILDING, COLLETON COUNTY
BENSON ST., WALTERBORO, SC

Drawing Name:
FIRST AND SECOND FLOOR PLANS
ELECTRICAL POWER AND DATA

PROJECT NO.	2013.064
DATE	10-08-13
DRAWN BY	MHF
CHECKED BY	KS
DRAWING NO.	E1.1
SHEET NO.	– of –