GENERAL NOTES

1. INSTALLATION OF ALL WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING REGULATIONS, CODES, ETC.:
   A. LOCAL CODES AND ORDINANCES.
   B. PRACTICES AND PROCEDURES FOLLOWING OSHA STANDARDS.
   C. THE EDITION OF THE NATIONAL ELECTRICAL CODE NFPA 70 (NEC) IN EFFECT.
   D. THE EDITION OF THE INTERNATIONAL BUILDING CODE IN EFFECT.
2. BEFORE SUBMITTING BIDS, THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE ALL ADJOINING EXISTING BUILDINGS, EQUIPMENT, AND SPACE CONDITIONS ON WHICH HIS WORK IS IN ANY WAY DEPENDENT FOR THE BEST WORKMANSHIP AND OPERATION ACCORDING TO THE INTENT OF THE SPECIFICATIONS AND DRAWINGS. CONTRACTOR SHALL REPORT TO THE ARCHITECT/ENGINEER ANY CONDITION WHICH MIGHT PREVENT HIM FROM INSTALLING HIS EQUIPMENT IN THE MANNER SPECIFIED OR AS SHOWN IN CONTRACT DOCUMENTS TEN BUSINESS DAYS PRIOR TO SUBMISSION OF BIDS. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO VISIT THE SITE, NOR FOR ANY ALLEGED MISUNDERSTANDING OF MATERIALS TO BE FURNISHED OR WORK TO BE PERFORMED. THE CONTRACTOR SHALL INCLUDE IN HIS BID PRICE ALL LABOR AND MATERIAL THAT MAY AFFECT HIS WORK.
3. CONTRACTOR TO PROVIDE SUFFICIENT NOTICE TO THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK TO ALLOW ADEQUATE TIME FOR COORDINATION OF EXISTING SITE ACTIVITIES WITH THE CONSTRUCTION WORK.
4. THE CONTRACTOR TO INCLUDE IN THEIR SCOPE ALL LABOR, MATERIALS, SERVICES, APPARATUS AND SHOP DRAWINGS IN ADDITION TO THE CONTRACT DOCUMENTS AS REQUIRED TO COMPLY WITH ALL APPLICABLE GOVERNING LAWS, CODES AND JURISDICTION REQUIREMENTS. PROVIDE ELECTRICAL EQUIPMENT WITH ALL ASSOCIATED ACCESSORIES, BRANCH CIRCUIT WIRING AND CONDUIT INFRASTRUCTURE AS REQUIRED TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM.
5. ALL MATERIALS AND WORK SHALL BE ACCORDING TO PROJECT SPECIFICATIONS.
6. IF MATERIAL OR EQUIPMENT IS INSTALLED BEFORE IT IS APPROVED, THE CONTRACTOR SHALL BE LIABLE FOR ITS REMOVAL AND REPLACEMENT AT NO ADDITIONAL CHARGE IF IN THE OPINION OF THE ARCHITECT OR ENGINEER, THE MATERIAL OR EQUIPMENT DOES NOT MEET THE INTENT OF THE DRAWINGS AND/OR SPECIFICATIONS.
7. PROVIDE GROUND FAULT PROTECTION OF EQUIPMENT FOR SOLIDLY GROUNDED WYE ELECTRIC SERVICES OF MORE THAN 150 VOLTS TO GROUND BUT NOT EXCEEDING 1000 VOLTS PHASE-TO-PHASE FOR EACH SERVICE RATED 1000 AMPERES OR MORE.
8. REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION, ELEVATION, MOUNTING HEIGHTS AND DETAILS OF ALL LIGHT FIXTURES AND DEVICES. REPORT ANY DISCREPANCIES TO THE ARCHITECT IMMEDIATELY.
9. PROVIDE FIRESTOPPING MATERIALS TO MAINTAIN INTEGRITY OF THE FIRE RATED CONSTRUCTION WHERE CONDUITS PASS THROUGH WALLS AND FLOORS.
10. CONTRACTOR TO PROVIDE ALL LIGHT FIXTURE AND EQUIPMENT WITH INTEGRAL OR REMOTE MOUNTED ACCESSORY DEVICES WITH ALL NECESSARY COMPONENTS, BRANCH CIRCUIT WIRING AND CONDUITS TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM. CONTRACTOR TO MAKE ALL FINAL CONNECTIONS TO THE EQUIPMENT.
11. ELECTRICAL SYSTEMS SHALL BE GROUNDED PER ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
12. PROVIDE AN INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ALL BRANCH CIRCUITS AND FEEDERS INSTALLED IN RACEWAYS. THE DEDICATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE SIZED PER NEC SECTION 250.122. SOLE USE OF METAL RACEWAY AS A GROUNDING CONDUCTOR SHALL NOT BE ACCEPTABLE. WIRING METHODS SHALL BE IN ACCORDANCE WITH NEC SECTION 518.4 FOR ALL ASSEMBLY AREAS.
13. PROVIDE RED COLOR LOCKABLE TYPE BREAKERS FOR CIRCUITS SERVING LIFE SAFETY PANEL BOARDS.
14. NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS, ONLY THOSE WHERE CLARIFICATION IS NECESSARY. PROVIDE THE NUMBER AND SIZE OF CONDUCTORS AS NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER SPECIFICALLY INDICATED ON PLAN OR NOT.
15. UNLESS OTHERWISE NOTED, ALL CONDUCTORS SHALL BE #12 AWG MINIMUM. PROVIDE EACH CIRCUIT HOMERUN WITH A DEDICATED NEUTRAL CONDUCTOR AND INSULATED EQUIPMENT GROUNDING CONDUCTOR.
16. GANG ALL SWITCHES INSTALLED AT THE SAME LOCATION UNDER A SINGLE COVER PLATE. PROVIDE BARRIERS WITHIN THE SWITCH BACK BOX AS REQUIRED TO SEPARATE 120V CIRCUITS FROM 277V CIRCUITS.
17. ALL BACK BOXES INSTALLED IN PARTITION WALLS SHALL BE STAGGERED. BACK-TO-BACK INSTALLATION IS NOT PERMITTED.
18. PROVIDE ACCESS PANELS FOR ALL INACCESSIBLE JUNCTION BOXES AS REQUIRED BY THE N.E.C.
19. FOR ALL LOW VOLTAGE SYSTEM OUTLETS INCLUDING BUT NOT LIMITED TO THOSE ASSOCIATED WITH TELECOM, CATV, AND SECURITY SYSTEMS, IN UNINSULATED PARTITIONS, PROVIDE PLASTER RING WITH PULL STRING TO SPACE ABOVE SUSPENDED CEILING. IN INSULATED PARTITIONS, PROVIDE 1" EMPTY CONDUIT WITH PULL STRING TO SPACE ABOVE SUSPENDED CEILING FOR TELECOM OUTLETS, AND 3/4" EMPTY CONDUIT WITH PULL STRINGS FOR ALL OTHER SYSTEM OUTLETS.
20. PROVIDE FIRE ALARM INTERFACE HARDWARE, MODULES AND WIRING TO ALL ELECTRICALLY SECURED DOORS. COORDINATE WITH BUILDING SECURITY SYSTEM.
21. PROVIDE GENERATOR WITH REMOTE GENERATOR ANNUNCIATOR PANEL AND COMMUNICATION CABLING. LOCATE PANEL IN THE BUILDING ENGINEERS OFFICE IN COORDINATION WITH ARCHITECT AND OWNER. FOR ALL GENERATOR SYSTEMS CONTRACTOR TO PROVIDE BRANCH CIRCUIT WIRING AND CONDUITS FOR ALL ASSOCIATED EQUIPMENT AND ACCESSORIES INCLUDING BUT NOT LIMITED TO BLOCK HEATERS, STRIP HEATERS, BATTERY CHARGER AND CONTROL SYSTEMS AS REQUIRED BY CONTRACT DOCUMENTS AND MANUFACTURERS REQUIREMENTS.
22. FOR ALL ELEVATOR SYSTEMS,
   A. PROVIDE A DEDICATED 125 VOLT, 20 AMPERE SINGLE-PHASE BRANCH CIRCUIT, WITH A FUSED DISCONNECT SWITCH CAPABLE OF BEING LOCKED IN THE OPEN POSITION FOR THE CAR LIGHTS AND VENTILATION IN EACH CAR.
   B. ALL 125 VOLT, 15 OR 20 AMPERE SINGLE-PHASE RECEPTACLES INSTALLED IN PITS, MACHINE SPACES, CONTROL ROOMS SHALL BE OF THE GROUND-FAULT CIRCUIT-INTERRUPTER TYPE (GFCI).
23. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL, PLUMBING AND OTHER TRADES TO PROVIDE ALL EQUIPMENT ASSOCIATED WITH THEIR RESPECTIVE TRADES WITH NECESSARY WIRING AND CONDUIT INFRASTRUCTURE FOR ALL SENSORS, CONTROL SYSTEMS AND REMOTE MOUNTED CONTROL PANELS AS REQUIRED.
24. CONTRACTOR TO PROVIDE DEDICATED CIRCUIT FOR CONNECTION TO EACH MECHANICAL, PLUMBING AND MISCELLANEOUS EQUIPMENT CONTROL PANELS AS REQUIRED. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL AND CONTROLS CONTRACTORS.
25. CONTRACTOR TO PROVIDE ELECTRICAL INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO CONDUITS, SLEEVES AND RECEPTACLE OUTLETS ON DEDICATED CIRCUIT(S) TO SUPPORT DISTRIBUTED ANTENNA SYSTEMS DESIGNED BY OTHERS.
26. ALL ELECTRICAL WORK, INCLUDING BUT NOT LIMITED TO DEVICES, EQUIPMENT, CONDUITS AND BOXES IN PARKING SPACES AND DRIVE AISLES OF COVERED GARAGE AREAS MUST BE INSTALLED TO MAINTAIN A MINIMUM HEIGHT CLEARANCE OF 98 INCHES FOR HANDICAP SPACES AND 84 INCHES FOR ALL OTHER SPACES.
27. CONTRACTOR TO COORDINATE ELECTRICAL WORK TO AVOID INTERFERENCE BETWEEN ALL TRADES.
   A. DETERMINE INTERFERENCE BEFORE WORK IS FABRICATED OR INSTALLED. THE CONTRACTOR SHALL BE THOROUGHLY FAMILIAR WITH ALL DETAILS OF WORK AND WORKING CONDITIONS AND COORDINATE WORK DURING PRELIMINARY STAGES TO ENSURE ACTUAL ERECTION WILL PROCEED WITHOUT INTERFERENCE. COORDINATION IS OF PARAMOUNT IMPORTANCE AND NO REQUESTS FOR ADDITIONAL PAYMENT WILL BE CONSIDERED WHERE REQUEST IS BASED ON INTERFERENCE.
   B. WHERE JOB CONDITIONS REQUIRE REASONABLE DEVIATIONS FROM CONTRACT DOCUMENTS, MAKE DEVIATIONS WITHOUT ADDITIONAL COST TO OWNER, AFTER OBTAINING APPROVAL OF ARCHITECT.
   C. PROVIDE MAXIMUM PRACTICAL SPACE FOR OPERATION, REPAIR, REMOVAL, AND TESTING OF ELECTRICAL EQUIPMENT. DEVIATIONS MAY BE MADE TO PROVIDE REQUIRED ACCESSIBILITY PROVIDED THEY ARE APPROVED BY THE OWNERS OR THE ARCHITECTS.
   D. KEEP CONDUITS, WIRE WAYS AND SIMILAR ITEMS AS CLOSE AS POSSIBLE TO CEILING, WALLS AND COLUMNS IN ORDER TO TAKE UP MINIMUM AMOUNT OF SPACE. ALL WORK TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
   E. PROVIDE OFFSETS, FITTINGS AND SIMILAR ITEMS NECESSARY TO ACCOMPLISH REQUIREMENTS OF COORDINATION WITHOUT ADDITIONAL EXPENSE TO OWNER.
   F. PROVIDE ACCESS TO AND CLEARANCES AROUND ELECTRICAL EQUIPMENT AS REQUIRED BY THE N.E.C.

<u>120V BRANCH CIRCUIT WIRING CONDUCTOR SIZE</u>

DEPENDING ON BRANCH CIRCUIT RUN LENGTH FROM PANELBOARD TO THE LAST DEVICE ON THE BRANCH CIRCUIT, THE CONTRACTOR SHALL INCREASE THE BRANCH CIRCUIT WIRE SIZE AS PER THE TABLE BELOW.

MAXIMUM #10 WIRE SHALL BE USED FOR GENERAL RECEPTACLE CIRCUIT WIRING.

LENGTH (FEET)	VOLTAGE (V)	AMPACITY (A)	WIRE SIZE (AWG TYP.)
0-66	120	20	#12
0-102	120	20	#10

SYMBOLS

Symbol	Description
	CEILING/WALL MOUNTED EXIT SIGN LIGHTING FIXTURES ON EMERGENCY LIGHTING CIRCUIT
	TYPICAL INTERIOR LIGHTING FIXTURES
EM / EM	TYPICAL INTERIOR LIGHTING FIXTURES ON EMERGENCY LIGHTING CIRCUIT, FIXTURES MAY HAVE THE FOLLOWING SUBSCRIPTS: EM : EMERGENCY NL : NIGHT LIGHT
$\$_a$	LINE VOLTAGE SINGLE POLE TOGGLE SWITCH, SWITCHES MAY HAVE THE FOLLOWING SUBSCRIPTS: a : LOWER CASE SUBSCRIPT INDICATES LIGHTING ZONE IDENTIFICATION
$\$_D$	LINE VOLTAGE DIMMER SWITCH RATED FOR 20A, PROVIDE NECESSARY MODULES FOR LED LAMP SOURCE
$\$_K$	LINE VOLTAGE KEY OPERATED SWITCH
$\$_{VS}$	
RCX	LIGHTING ROOM CONTROLLER, X : INDICATES NUMBER OF 0-10V DIMMING RELAYS
$\$_M$	MOTOR RATED SWITCH WITH THERMAL OVERLOAD CURRENT PROTECTION, MOUNTED @ 48" AFF OR UNIT MOUNTED
	WALL-MOUNTED DUPLEX OR QUAD RECEPTACLE, 20A, 125V, NEMA 5-20R
	WALL/FLOOR/CEILING MOUNTED SPECIAL PURPOSE OUTLET. COORDINATE NEMA CONFIGURATION WITH EQUIPMENT VENDOR
	WALL-MOUNTED ABOVE COUNTER DUPLEX OR DOUBLE DUPLEX RECEPTACLE, 20A, 125V, NEMA 5-20R
	RECESSED CEILING MOUNTED DUPLEX OR QUADRUPLEX NEMA 5-20R RECEPTACLE, 20A, 125V
F	WALL/FLOOR/CEILING MOUNTED COMBINATION TELEPHONE/DATA OUTLET, OUTLETS MAY HAVE THE FOLLOWING SUBSCRIPTS: F : TWO WAY COMMUNICATION CALL STATION
	WALL MOUNTED TELEPHONE OUTLET
	WALL/FLOOR/CEILING MOUNTED DATA OUTLET
J / J / J	WALL/CEILING/FLOOR MOUNTED JUNCTION BOX
	120/208V ELECTRICAL PANEL
	480/277V ELECTRICAL PANEL
PANEL-XX	CIRCUIT NUMBER DESIGNATION FEEDING ELECTRICAL DEVICES, FIXTURES AND EQUIPMENT. UNLESS OTHERWISE NOTED, INSTALL ALL 20A-1P CIRCUITS WITH 2 #12 AWG + 1 #12 AWG G IN 3/4" CONDUIT: PANEL : INDICATES THE PANEL NAME XX : INDICATES THE CIRCUIT NUMBER
#	KEYED DRAWING NOTE
	NON-FUSIBLE DISCONNECT SWITCH

ABBREVIATIONS

A	AMPERE
ADA	AMERICANS WITH DISABILITIES ACT
AF	FUSE RATING IN AMPS
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AL	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS
AT	TRIP RATING IN AMPS
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CU	COPPER
D	EXISTING TO BE DEMOLISHED
DISC. SW.	DISCONNECT SWITCH
DIV.	DIVISION
DWG	DRAWING
E, EX	EXISTING TO REMAIN
EM	DEVICE ON EMERGENCY CIRCUIT
EMT	ELECTRICAL METALLIC TUBING
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FASP	FIRE ALARM SMOKE PURGE PANEL
FATC	FIRE ALARM TERMINAL CABINET
FLA	FULL LOAD AMPS
FSS	FUSIBLE SAFETY SWITCH
G	GROUND
GFI	GROUND FAULT INTERRUPTER
GRS	GALVANIZED RESISTIVE CONDUIT
HP	HORSE POWER
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HWH	HOT WATER HEATER
HZ	HERTZ
IBC	INTERNATIONAL BUILDING CODE
IG	ISOLATED GROUND
IECC	INTERNATIONAL ENERGY CONSERVATION CODE
IESNA	ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA
KCMIL	THOUSANDS OF CIRCULAR MILS
KVA	KILOVOLT-AMPS
KW	KILOWATT
LM	LUMEN
LTG	LIGHTING
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
N	NEW
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NFSS	NON FUSED SAFETY SWITCH
NL	NIGHT LIGHT FIXTURE
NTS	NOT TO SCALE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
P	POLE
PH, Ø	PHASE
PNL	PANEL
R	RELOCATED AT NEW LOCATION
REC	RECEPTACLE
RR	REMOVE AND RELOCATE
S/N	SOLID NEUTRAL
SPD	SURGE PROTECTIVE DEVICE
SWBD	SWITCHBOARD
T, XFMR	TRANSFORMER
TYP.	TYPICAL
UL	UNDERWRITER'S LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
WP	WEATHERPROOF

SUBSCRIPTS

RECEPTACLE OUTLETS AND JUNCTION BOX DEVICES MAY BE INDICATED WITH THE FOLLOWING SUBSCRIPTS:

EM : RECEPTACLE ON EMERGENCY POWER
GFI : GROUND FAULT INTERRUPTER
MD : MOTORIZED DAMPER
PL : CONTROLLED PLUG LOAD RECEPTACLE OUTLET
S : SURFACE MOUNTED OUTLET WITH SURFACE MOUNTED CONDUIT
U : RECEPTACLE OUTLET WITH [(2) USB TYPE-A] [(2) USB TYPE-C] [(1) USB TYPE-A AND (1) USB TYPE-C] PORTS
WP : WEATHER PROOF OUTLET WITH PROTECTIVE IN-USE COVER

LIGHT FIXTURE SUBSCRIPT DETAIL:

a HP-2
EM A

LIGHT FIXTURES MAY BE INDICATED WITH THE FOLLOWING SUBSCRIPTS:
EM : LIGHT FIXTURE ON EMERGENCY CIRCUIT
A : UPPER CASE SUBSCRIPT INDICATES LIGHT FIXTURE IDENTIFICATION TAG
a : LOWER CASE SUBSCRIPT INDICATES LIGHTING ZONE IDENTIFICATION
HP-2 : PANEL NAME AND CIRCUIT NUMBER SERVING LIGHT FIXTURE

ELECTRICAL DRAWING LIST

SETTY™
1415 ELLIOT PLACE, NW SUITE 100
WASHINGTON, DC 20007
P: 202-393-1523
www.SETTY.com
PROJECT NUMBER: SYY23001

Setty DC Office

1415 Elliot Place, NW

ISSUES AND REVISIONS

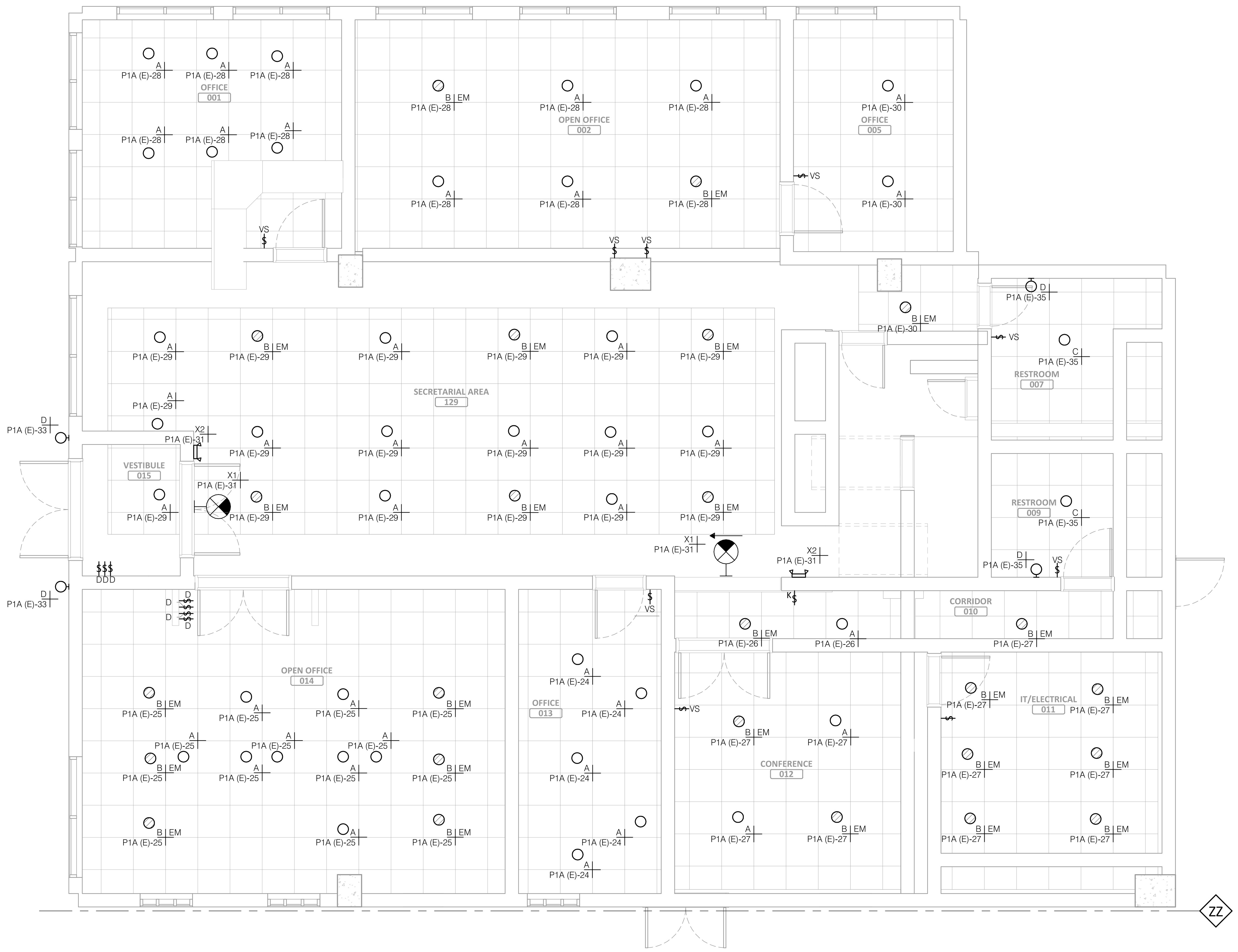
No.	Description	Date

Drawn/Checked	Author / Checker
Project Number	SYY220001DC01
Drawing Date	DD
Bid Date	BD
Permit Date	12/31/2023

GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

E001

2023-12-29 22:35:26
C:\Users\jagadeesh.pm\Documents\SETTY DC01_Electrical_R23_jagadeesh.pm.rvt



1 E101 LOWER LEVEL PLAN - ELECTRICAL LIGHTING
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO THE ELECTRICAL COVER SHEET DRAWING FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS AND TO DRAWING E601 FOR THE LIGHTING FIXTURE SCHEDULE. REFER TO DRAWING E801 FOR THE LIGHTING CONTROL WIRING SCHEMATIC DIAGRAM.
2. LOCATION OF FIXTURES AND DEVICES SHOWN ON PLANS ARE DIAGRAMMATIC ONLY. REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING HEIGHTS AND ADDITIONAL INFORMATION PRIOR TO THE ROUGH-IN OF ELECTRICAL FIXTURES AND DEVICES.
3. AT THE COMPLETION OF CONSTRUCTION, CLEAN LENSES AND REFLECTORS OF ALL LIGHTING FIXTURES IN THE CONTRACT AREA AND RENDER THEM FREE OF ANY MATERIAL, SUBSTANCE OR FILM FOREIGN TO THE FIXTURES. BLEMISHED, DAMAGED OR UNSATISFACTORY FIXTURES ARE TO BE REPLACED IN A SATISFACTORY MANNER.
4. CONNECT ALL EMERGENCY LIGHTS TO THE DESIGNATED EMERGENCY PANEL WITH 2 #10 AWG + 1 #10 G IN 3/4"C.
5. CLEAN, RE-LAMP AND RE-BALLAST ALL EXISTING TO REMAIN AND RELOCATED LIGHTING FIXTURES IN THE CONTRACT AREA AS REQUIRED. CONTRACTOR TO ENSURE THAT ALL REUSED FIXTURES ARE IN WORKING CONDITION.
6. THE CONTINUITY OF EXISTING CIRCUITS SERVING EXISTING FIXTURES, DEVICES AND EQUIPMENT TO REMAIN SHALL BE MAINTAINED.
7. ALL REUSED CIRCUIT NUMBERS INDICATED ON PLAN ARE BASED ON EXISTING DOCUMENTS AND MAY NOT MATCH THE AS-BUILT CONDITION OF THE EXISTING CIRCUITS SERVING THE AREA. CONTRACTOR TO VERIFY AND UPDATE THE CIRCUIT NUMBERS UTILIZED DURING CONSTRUCTION.
8. UNLESS OTHERWISE NOTED, IN THE SCOPE OF WORK AREA, ALL LIGHT FIXTURES AND CONTROL DEVICES SHOWN WITH A SUBSCRIPT “N” OR WITHOUT ANY SUBSCRIPT ARE NEW TO BE PROVIDED. FIXTURES AND DEVICES SHOWN WITH A SUBSCRIPT “E” INDICATE EXISTING EQUIPMENT TO REMAIN.
9. ALL WORKSTATIONS MUST BE PROVIDED WITH PLUG-IN TYPE TASK LIGHTING WITH INDIVIDUAL CONTROLS. COORDINATE WITH ARCHITECT FOR EXACT FIXTURE SPECIFICATION, QUANTITY AND LOCATIONS.

SHEET KEY NOTES

1. --

SETTY
1415 ELLIOT PLACE, NW SUITE 100
WASHINGTON, DC 20007
P: 202-393-1523
www.SETTY.com
PROJECT NUMBER: SYY23001

Setty DC Office
1415 Elliot Place, NW

ISSUES AND REVISIONS

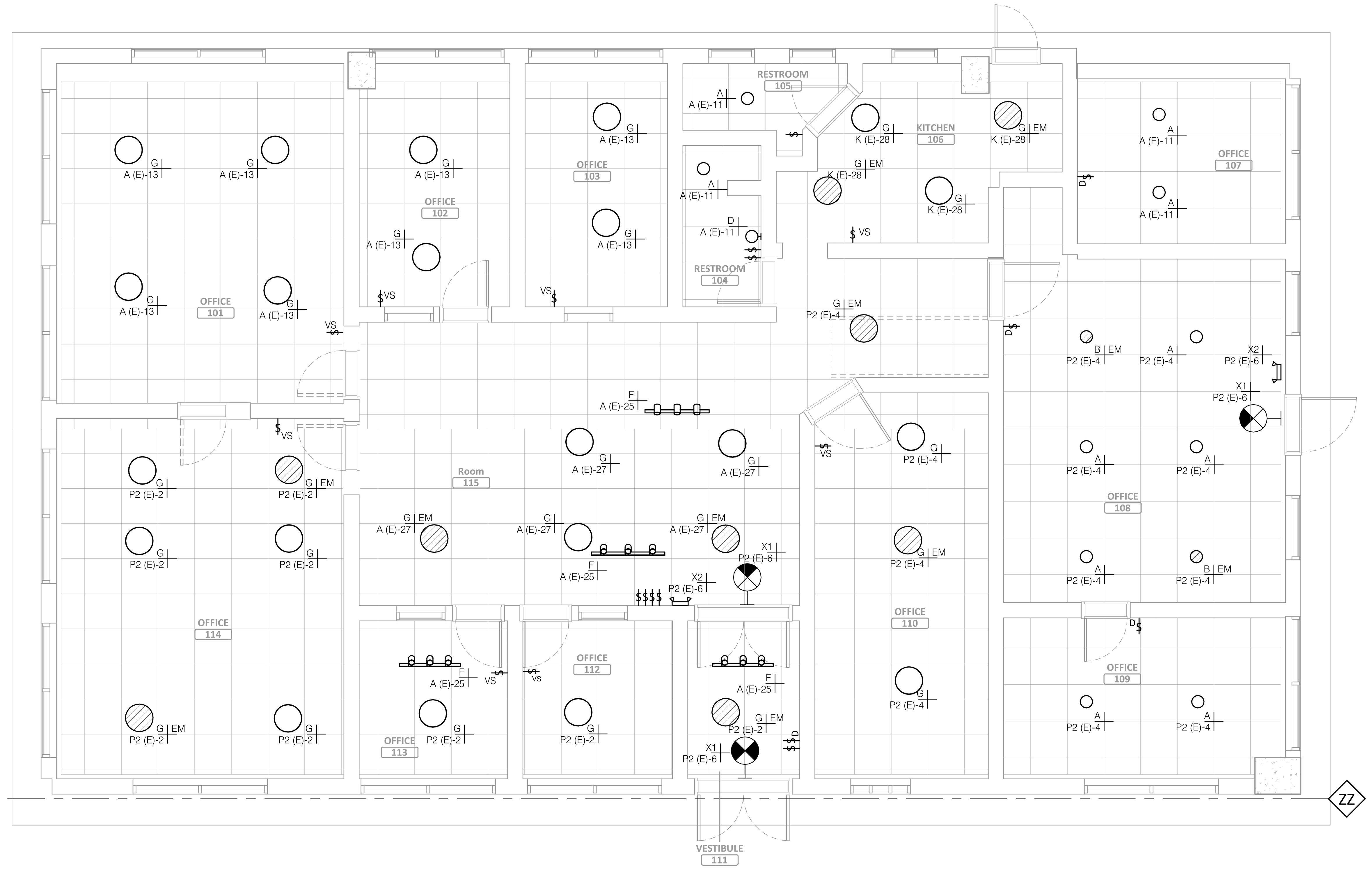
No.	Description	Date

Drawn/Checked	Author / Checker
Project Number	SYY220001DC01
Drawing Date	DD
Bid Date	BD
Permit Date	12/31/2023

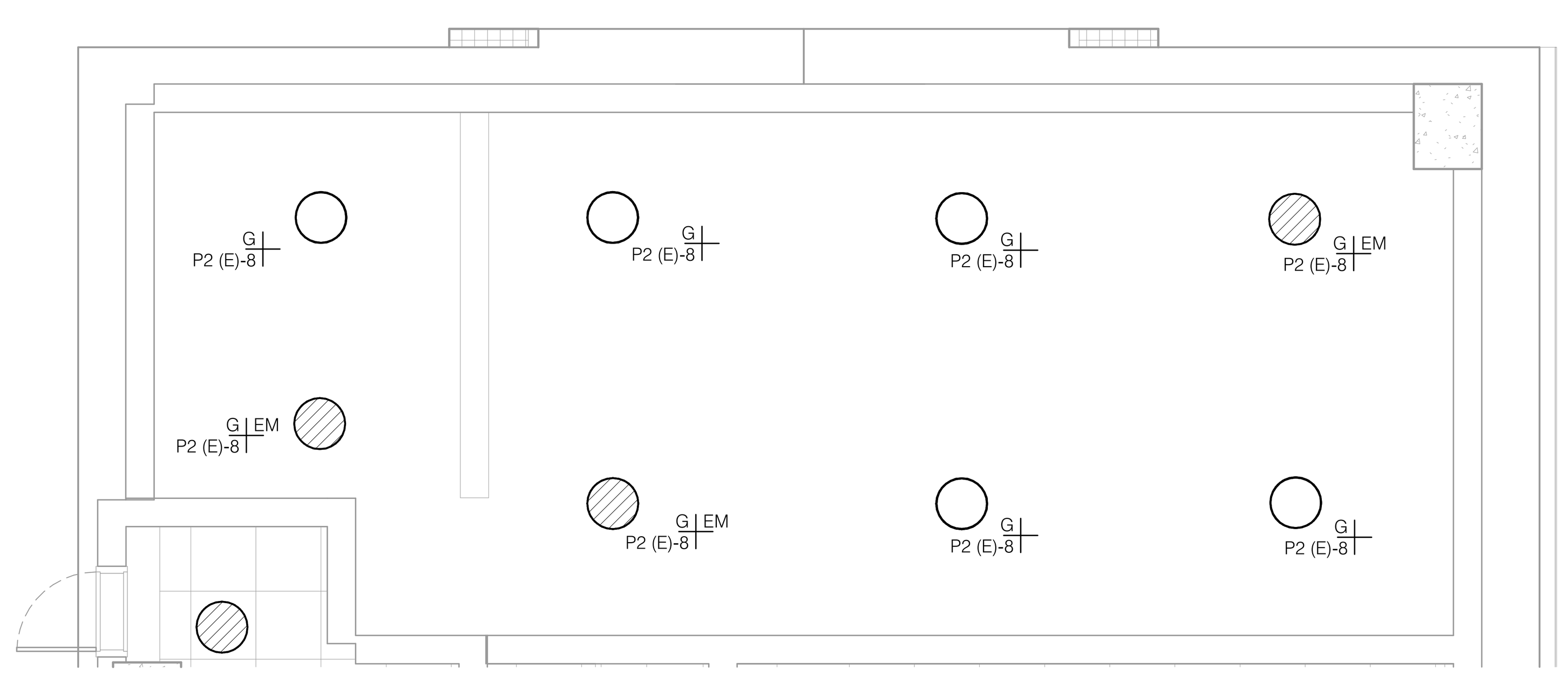
LEVEL 1 - ELECTRICAL LIGHTING

E101

ORIGINAL DRAWING SIZE IS 30"x 42"; SCALE ENTITIES ACCORDINGLY IF REDUCED/ENLARGED



1 E102 UPPER LEVEL PLAN - ELECTRICAL LIGHTING
SCALE: 1/4" = 1'-0"
0 2' 4' 8'



2 E102 MEZZANINE LEVEL PLAN - ELECTRICAL LIGHTING
SCALE: 1/4" = 1'-0"
0 2' 4' 8'

GENERAL NOTES

1. REFER TO THE ELECTRICAL COVER SHEET DRAWING FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS AND TO DRAWING E601 FOR THE LIGHTING FIXTURE SCHEDULE. REFER TO DRAWING E801 FOR THE LIGHTING CONTROL WIRING SCHEMATIC DIAGRAM.
2. LOCATION OF FIXTURES AND DEVICES SHOWN ON PLANS ARE DIAGRAMMATIC ONLY. REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING HEIGHTS AND ADDITIONAL INFORMATION PRIOR TO THE ROUGH-IN OF ELECTRICAL FIXTURES AND DEVICES.
3. AT THE COMPLETION OF CONSTRUCTION, CLEAN LENSES AND REFLECTORS OF ALL LIGHTING FIXTURES IN THE CONTRACT AREA AND RENDER THEM FREE OF ANY MATERIAL, SUBSTANCE OR FILM FOREIGN TO THE FIXTURES. BLEMISHED, DAMAGED OR UNSATISFACTORY FIXTURES ARE TO BE REPLACED IN A SATISFACTORY MANNER.
4. CONNECT ALL EMERGENCY LIGHTS TO THE DESIGNATED EMERGENCY PANEL WITH 2 #10 AWG + 1 #10 G IN 3/4"C.
5. CLEAN, RE-LAMP AND RE-BALLAST ALL EXISTING TO REMAIN AND RELOCATED LIGHTING FIXTURES IN THE CONTRACT AREA AS REQUIRED. CONTRACTOR TO ENSURE THAT ALL REUSED FIXTURES ARE IN WORKING CONDITION.
6. THE CONTINUITY OF EXISTING CIRCUITS SERVING EXISTING FIXTURES, DEVICES AND EQUIPMENT TO REMAIN SHALL BE MAINTAINED.
7. ALL REUSED CIRCUIT NUMBERS INDICATED ON PLAN ARE BASED ON EXISTING DOCUMENTS AND MAY NOT MATCH THE AS-BUILT CONDITION OF THE EXISTING CIRCUITS SERVING THE AREA. CONTRACTOR TO VERIFY AND UPDATE THE CIRCUIT NUMBERS UTILIZED DURING CONSTRUCTION.
8. UNLESS OTHERWISE NOTED, IN THE SCOPE OF WORK AREA, ALL LIGHT FIXTURES AND CONTROL DEVICES SHOWN WITH A SUBSCRIPT “N” OR WITHOUT ANY SUBSCRIPT ARE NEW TO BE PROVIDED. FIXTURES AND DEVICES SHOWN WITH A SUBSCRIPT “E” INDICATE EXISTING EQUIPMENT TO REMAIN.
9. ALL WORKSTATIONS MUST BE PROVIDED WITH PLUG-IN TYPE TASK LIGHTING WITH INDIVIDUAL CONTROLS. COORDINATE WITH ARCHITECT FOR EXACT FIXTURE SPECIFICATION, QUANTITY AND LOCATIONS.

SHEET KEY NOTES

1. --

SETTY
1415 ELLIOT PLACE, NW SUITE 100
WASHINGTON, DC 20007
P: 202-393-1523
www.SETTY.com
PROJECT NUMBER: SYY23001

Setty DC Office

1415 Elliot Place, NW

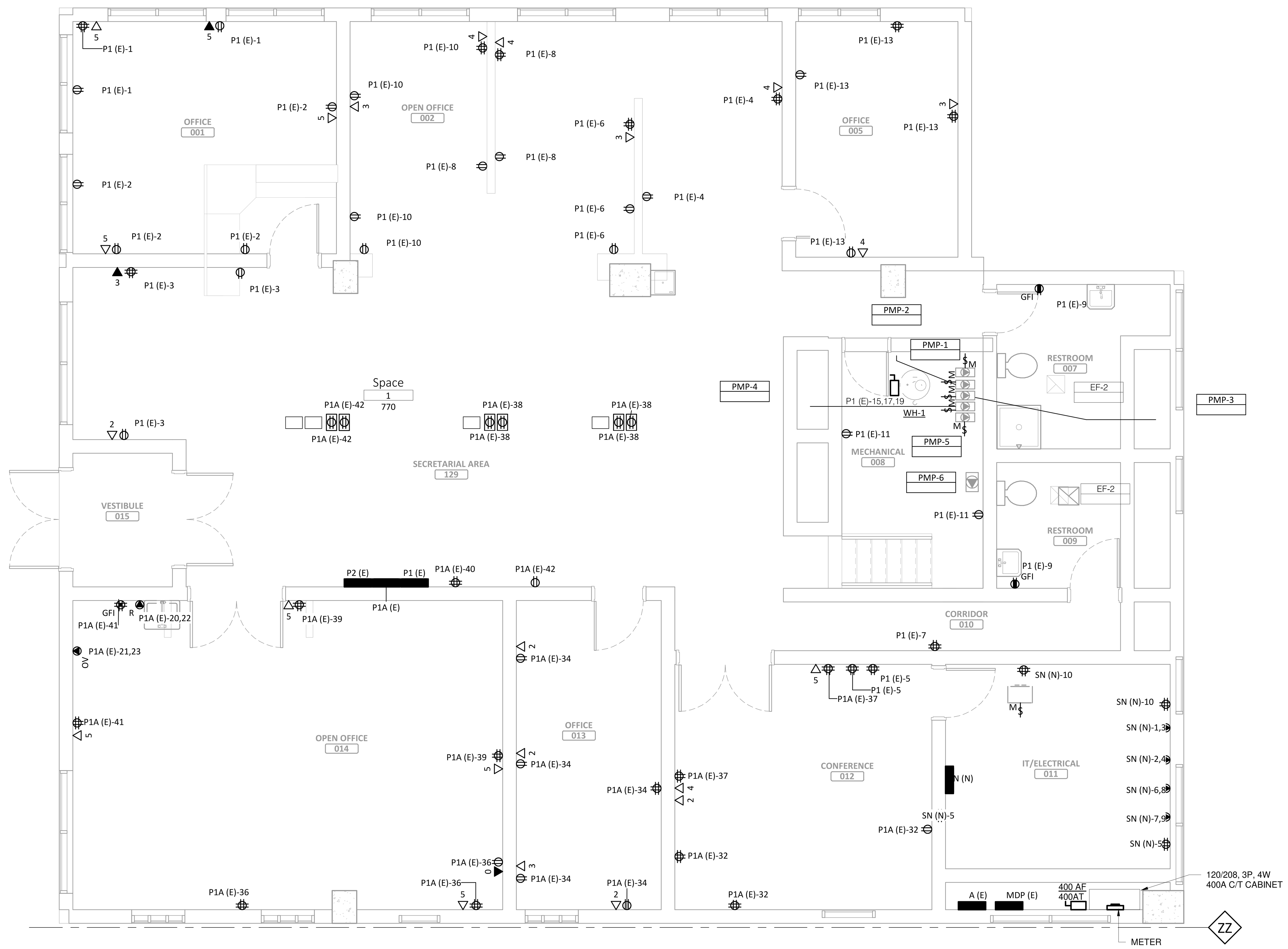
ISSUES AND REVISIONS

No.	Description	Date

Drawn/Checked	Author / Checker
Project Number	SYY220001DC01
Drawing Date	DD
Bid Date	BD
Permit Date	12/31/2023

LEVEL 2 - ELECTRICAL LIGHTING

E102



1
E201
LOWER LEVEL PLAN - ELECTRICAL POWER
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO THE ELECTRICAL COVER SHEET DRAWING FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
2. REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING HEIGHTS AND ADDITIONAL INFORMATION PRIOR TO THE ROUGH-IN OF ELECTRICAL OUTLETS AND DEVICES.
3. COORDINATE WITH CONTRACT DOCUMENTS FOR ALL OTHER DISCIPLINES AND TRADES FOR EXACT LOCATION OF ASSOCIATED EQUIPMENT.
4. COORDINATE WITH ARCHITECT AND TECHNOLOGY CONSULTANT TO VERIFY EXTENT OF SCOPE AND REQUIREMENTS RELATED TO TELECOM, AV, SECURITY AND MISCELLANEOUS LOW VOLTAGE SYSTEMS. UNLESS OTHERWISE NOTED, ELECTRICAL CONTRACTOR TO PROVIDE ASSOCIATED BACK BOXES AND EMPTY CONDUITS WITH PULL STRING.
5. THE CONTINUITY OF EXISTING CIRCUITS SERVING EXISTING DEVICES AND EQUIPMENT TO REMAIN SHALL BE MAINTAINED.
6. ALL NEW OUTLETS AND DEVICES MUST BE FLUSH MOUNTED WITH CONCEALED CONDUITS. ANY SURFACE MOUNTED OUTLETS, DEVICES AND CONDUITS IN THE SCOPE OF WORK AREA MUST BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
7. ALL REUSED CIRCUIT NUMBERS INDICATED ON PLAN ARE BASED ON EXISTING DOCUMENTS AND MAY NOT MATCH THE AS-BUILT CONDITION OF THE EXISTING CIRCUITS SERVING THE AREA. CONTRACTOR TO VERIFY AND UPDATE THE CIRCUIT NUMBERS UTILIZED DURING CONSTRUCTION.
8. UNLESS OTHERWISE NOTED, IN THE SCOPE OF WORK AREA, ALL ELECTRICAL OUTLETS AND DEVICES SHOWN WITH A SUBSCRIPT “N” OR WITHOUT ANY SUBSCRIPT ARE NEW TO BE PROVIDED. DEVICES SHOWN WITH A SUBSCRIPT “E” INDICATE EXISTING EQUIPMENT TO REMAIN.

SHEET KEY NOTES

1. RECEPTACLE FOR COPIER. COORDINATE EQUIPMENT SPECIFICATION, OUTLET NEMA CONFIGURATION, AND MOUNTING HEIGHT WITH ARCHITECT AND MANUFACTURER PRIOR TO INSTALLATION.

SETTY™
1415 ELLIOT PLACE, NW SUITE 100
WASHINGTON, DC 20007
P: 202-393-1523
www.SETTY.com
PROJECT NUMBER: SYY23001

Setty DC Office

1415 Elliot Place, NW

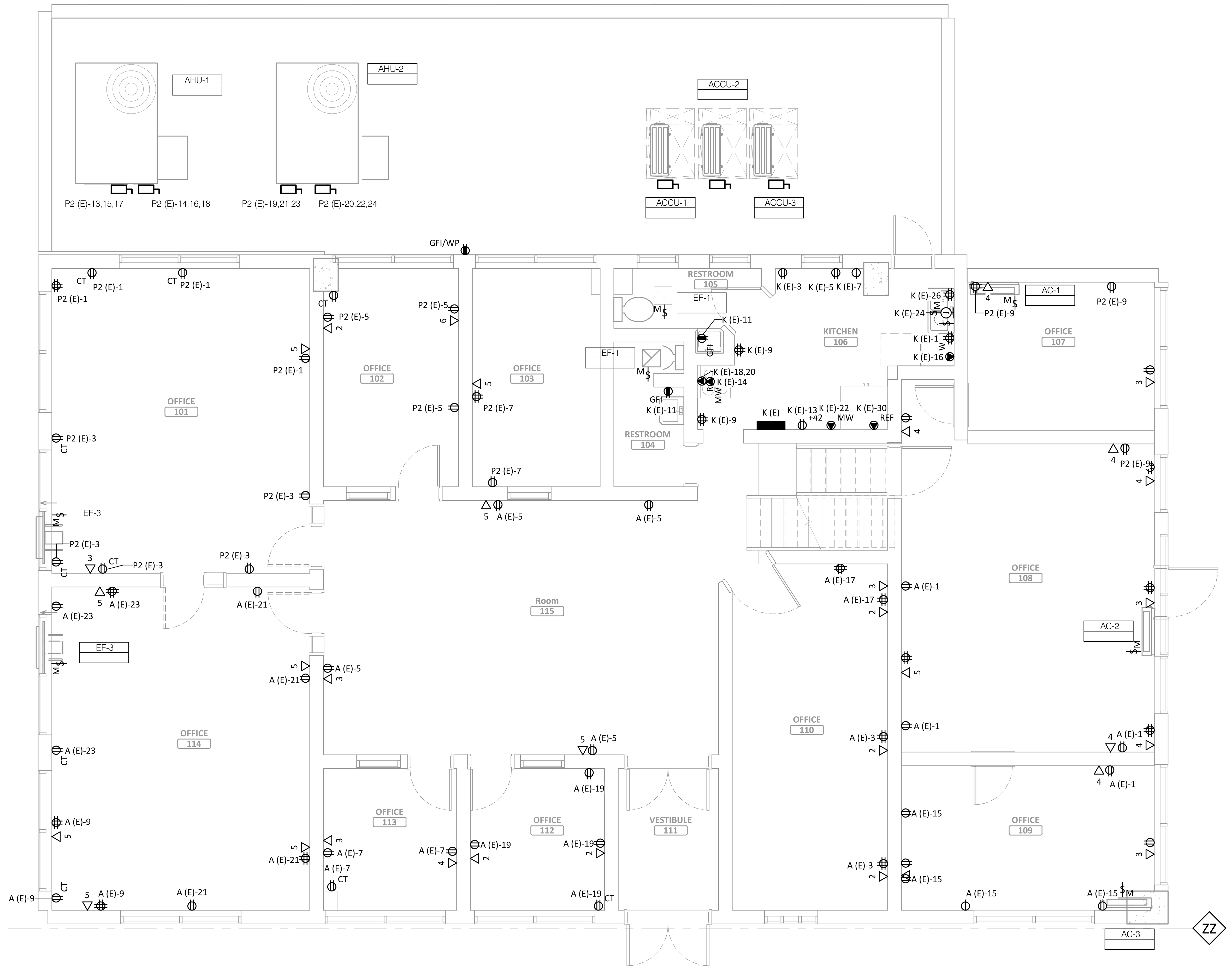
ISSUES AND REVISIONS

No.	Description	Date

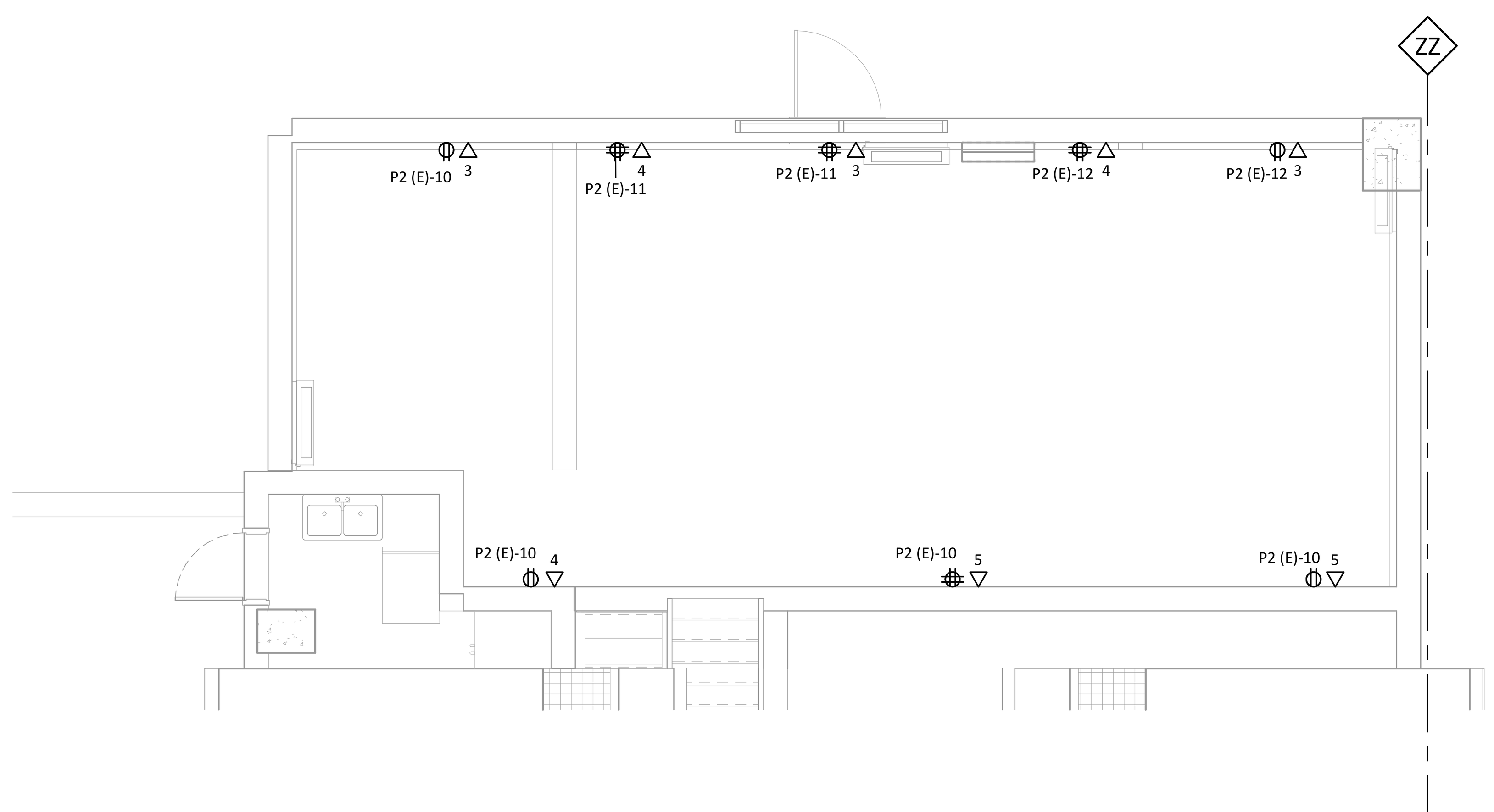
Drawn/Checked	Author / Checker
Project Number	SYY220001DC01
Drawing Date	DD
Bid Date	BD
Permit Date	12/31/2023

LEVEL 1 - ELECTRICAL POWER

E201



1 E202 UPPER LEVEL PLAN - ELECTRICAL POWER
SCALE: 1/4" = 1'-0"
0 2' 4' 8'



2 E202 MEZZANINE LEVEL PLAN - ELECTRICAL POWER
SCALE: 1/4" = 1'-0"
0 2' 4' 8'

GENERAL NOTES

1. REFER TO THE ELECTRICAL COVER SHEET DRAWING FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
2. REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING HEIGHTS AND ADDITIONAL INFORMATION PRIOR TO THE ROUGH-IN OF ELECTRICAL OUTLETS AND DEVICES.
3. COORDINATE WITH CONTRACT DOCUMENTS FOR ALL OTHER DISCIPLINES AND TRADES FOR EXACT LOCATION OF ASSOCIATED EQUIPMENT.
4. COORDINATE WITH ARCHITECT AND TECHNOLOGY CONSULTANT TO VERIFY EXTENT OF SCOPE AND REQUIREMENTS RELATED TO TELECOM, AV, SECURITY AND MISCELLANEOUS LOW VOLTAGE SYSTEMS. UNLESS OTHERWISE NOTED, ELECTRICAL CONTRACTOR TO PROVIDE ASSOCIATED BACK BOXES AND EMPTY CONDUITS WITH PULL STRING.
5. THE CONTINUITY OF EXISTING CIRCUITS SERVING EXISTING DEVICES AND EQUIPMENT TO REMAIN SHALL BE MAINTAINED.
6. ALL NEW OUTLETS AND DEVICES MUST BE FLUSH MOUNTED WITH CONCEALED CONDUITS. ANY SURFACE MOUNTED OUTLETS, DEVICES AND CONDUITS IN THE SCOPE OF WORK AREA MUST BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
7. ALL REUSED CIRCUIT NUMBERS INDICATED ON PLAN ARE BASED ON EXISTING DOCUMENTS AND MAY NOT MATCH THE AS-BUILT CONDITION OF THE EXISTING CIRCUITS SERVING THE AREA. CONTRACTOR TO VERIFY AND UPDATE THE CIRCUIT NUMBERS UTILIZED DURING CONSTRUCTION.
8. UNLESS OTHERWISE NOTED, IN THE SCOPE OF WORK AREA, ALL ELECTRICAL OUTLETS AND DEVICES SHOWN WITH A SUBSCRIPT "N" OR WITHOUT ANY SUBSCRIPT ARE NEW TO BE PROVIDED. DEVICES SHOWN WITH A SUBSCRIPT "E" INDICATE EXISTING EQUIPMENT TO REMAIN.

SHEET KEY NOTES

1. PROVIDE JUNCTION BOX MOUNTED UNDERCOUNTER (120V, 1PH, 1/2 HP) WITH MOTOR RATED SWITCH MOUNTED UNDER COUNTER FOR MEANS FOR DISCONNECT AND WITH A MANUAL CONTROL SWITCH MOUNTED ABOVE COUNTER FOR DISPOSAL AT 42" AFF.

SETTY
1415 ELLIOT PLACE, NW SUITE 100
WASHINGTON, DC 20007
P: 202-393-1523
www.SETTY.com
PROJECT NUMBER: SYY23001

Setty DC Office

1415 Elliot Place, NW

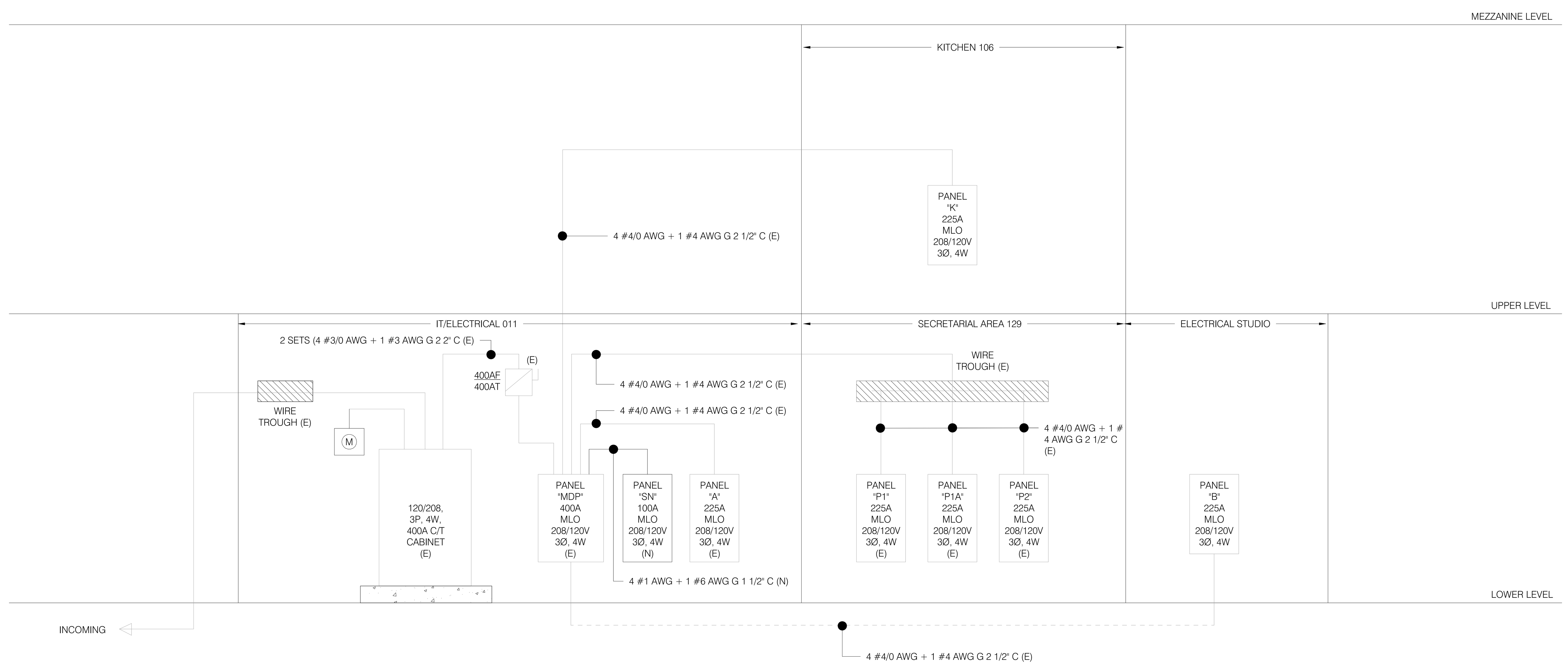
ISSUES AND REVISIONS

No.	Description	Date

Drawn/Checked	Author / Checker
Project Number	SYY220001DC01
Drawing Date	DD
Bid Date	BD
Permit Date	12/31/2023

LEVEL 2 - ELECTRICAL POWER

E202



1
E501
ELECTRICAL POWER RISER DIAGRAM
SCALE: NONE

GENERAL NOTES

1. REFER TO THE ELECTRICAL COVER SHEET DRAWING FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS AND TO DRAWING E601 FOR THE LIGHTING FIXTURE SCHEDULE. REFER TO DRAWING E801 FOR THE LIGHTING CONTROL WIRING SCHEMATIC DIAGRAM.
2. LOCATION OF FIXTURES AND DEVICES SHOWN ON PLANS ARE DIAGRAMMATIC ONLY. REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING HEIGHTS AND ADDITIONAL INFORMATION PRIOR TO THE ROUGH-IN OF ELECTRICAL FIXTURES AND DEVICES.
3. AT THE COMPLETION OF CONSTRUCTION, CLEAN LENSES AND REFLECTORS OF ALL LIGHTING FIXTURES IN THE CONTRACT AREA AND RENDER THEM FREE OF ANY MATERIAL, SUBSTANCE OR FILM FOREIGN TO THE FIXTURES. BLEMISHED, DAMAGED OR UNSATISFACTORY FIXTURES ARE TO BE REPLACED IN A SATISFACTORY MANNER.
4. CONNECT ALL EMERGENCY LIGHTS TO THE DESIGNATED EMERGENCY PANEL WITH 2 #10 AWG + 1 #10 G IN 3/4"C.
5. CLEAN, RE-LAMP AND RE-BALLAST ALL EXISTING TO REMAIN AND RELOCATED LIGHTING FIXTURES IN THE CONTRACT AREA AS REQUIRED. CONTRACTOR TO ENSURE THAT ALL REUSED FIXTURES ARE IN WORKING CONDITION.
6. THE CONTINUITY OF EXISTING CIRCUITS SERVING EXISTING FIXTURES, DEVICES AND EQUIPMENT TO REMAIN SHALL BE MAINTAINED.
7. ALL REUSED CIRCUIT NUMBERS INDICATED ON PLAN ARE BASED ON EXISTING DOCUMENTS AND MAY NOT MATCH THE AS-BUILT CONDITION OF THE EXISTING CIRCUITS SERVING THE AREA. CONTRACTOR TO VERIFY AND UPDATE THE CIRCUIT NUMBERS UTILIZED DURING CONSTRUCTION.
8. UNLESS OTHERWISE NOTED, IN THE SCOPE OF WORK AREA, ALL LIGHT FIXTURES AND CONTROL DEVICES SHOWN WITH A SUBSCRIPT "N" OR WITHOUT ANY SUBSCRIPT ARE NEW TO BE PROVIDED. FIXTURES AND DEVICES SHOWN WITH A SUBSCRIPT "E" INDICATE EXISTING EQUIPMENT TO REMAIN.
9. ALL WORKSTATIONS MUST BE PROVIDED WITH PLUG-IN TYPE TASK LIGHTING WITH INDIVIDUAL CONTROLS. COORDINATE WITH ARCHITECT FOR EXACT FIXTURE SPECIFICATION, QUANTITY AND LOCATIONS.

SETTY™
1415 ELLIOT PLACE, NW SUITE 100
WASHINGTON, DC 20007
P: 202-393-1523
www.SETTY.com
PROJECT NUMBER: SYY23001

Setty DC Office

1415 Elliot Place, NW

ISSUES AND REVISIONS

No.	Description	Date

Drawn/Checked	Author / Checker
Project Number	SYY220001DC01
Drawing Date	DD
Bid Date	BD
Permit Date	12/31/2023

ELECTRICAL POWER RISER DIAGRAM

E501

2023-12-29 22:35:38
C:\Users\jagadeesh.pm\Documents\SETTY DC01_Electrical_R23_jagadeesh.pm.rvt

COM*check* Software Version 4.1.5.5

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: 1415 ELLIOT PLACE
Project Type: New Construction

Construction Site:

Owner/Agent:

Designer/Contractor:
SETTY
3040 WILLIAMS DRIVE, SUITE 600
FAIRFAX, VA 22031
703-691-2115
WWW.SETTY.COM

Additional Efficiency Package(s)

Credits: 1.0 Required 0.0 Proposed

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Upper and lower level (Office)	6100	0.79	4819
		Total Allowed Watts =	4819

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Upper and lower level (Office)				
LED 1: A: RECESSED MOUNTED LIGHT FIXTURE: Other:	1	51	20	1020
LED 2: B: RECESSED MOUNTED LIGHT FIXTURE: Other:	1	26	20	520
LED 3: C: SURFACE MOUNTED LIGHT FIXTURE: Other:	1	2	32	64
LED 4: D: WALL MOUNTED LIGHT FIXTURE: Other:	1	4	32	128
LED 5: F: TRACK LIGHT FIXTURE: Other:	1	4	50	200
LED 6: G: STEM MOUNTED LIGHT FIXTURE: Other:	1	38	30	1140
LED 7: X2: WALL MOUNTED LIGHT FIXTURE: Other:	1	4	8	32
			Total Proposed Watts =	3104

Interior Lighting PASSES: Design 36% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COM*check* Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMP	VOLTAGE	REMARKS
A	RECESSED MOUNTED LIGHT FIXTURE	PRESCOLITE	1224-362	20W LED	120 V	
B	RECESSED MOUNTED LIGHT FIXTURE	PRESCOLITE	1234-117	20W LED	120 V	
C	SURFACE MOUNTED LIGHT FIXTURE	LITHONIA LIGHTING	LB332 GEB FO32WW	32W LED	120 V	
D	WALL MOUNTED LIGHT FIXTURE	LITHONIA LIGHTING	WC232 GEB FO32WW	32W LED	120 V	MOUNTED ABOVE MIRROR
F	TRACK LIGHT FIXTURE	-	-	50W LED	120 V	
G	STEM MOUNTED LIGHT FIXTURE	OWNER/CONTRACTOR FURNISHED, CONTRACTOR TO INSTALL	-	30W LED	120 V	
X1	EXIT SIGN	LITHONIA LIGHTING	LQM SW 1/2 R ELN	3.8W LED	120 V	
X2	WALL MOUNTED LIGHT FIXTURE	LITHONIA LIGHTING	6ELM2H-NAM	8W HALOGEN	120 V	

NOTES:

1. PROVIDE FIXTURES WITH ALL NECESSARY ACCESSORIES TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM.
2. COORDINATE WITH ARCHITECT FOR ALL FIXTURE FINISHES, LENS ACCESSORIES, CEILING TYPE AND MOUNTING REQUIREMENTS.
3. CONDUCTOR SIZE FEEDING ALL EMERGENCY LIGHT FIXTURES SHALL BE #10 AWG, OR SHALL MATCH EXISTING CONDUCTOR SIZE.
4. UNLESS OTHERWISE NOTED ON PLAN, ALL EMERGENCY LIGHT FIXTURES SHALL BE FED VIA EMERGENCY GENERATOR POWER.
5. ALL DIMMER SWITCHES MUST BE COMPATIBLE WITH DIMMABLE BALLASTS. CONTRACTOR TO ENSURE ALL SWITCHES ARE RATED TO ACCOMMODATE THE LOAD REQUIREMENTS OF ASSOCIATED LIGHTING CIRCUIT.
6. COORDINATE WITH ARCHITECT, CIVIL AND LANDSCAPE ENGINEER FOR EXACT LOCATION AND MOUNTING REQUIREMENTS FOR ALL EXTERIOR FIXTURES.
7. ALL APPLICABLE LIGHT FIXTURES, SWITCHES, BALLASTS AND ASSOCIATED ACCESSORIES MUST BE COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM SERVING THE SPACE.

PLUMBING EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

UNIT MARK	UNIT DESCRIPTION	VOLTAGE	PHASE	HP	EMERGENCY POWER	LOAD KW	FLA	MCA	MOCP	UNIT DISCONNECT SWITCH			FEEDER	REMARKS	OmniClass Number
										SIZE	TYPE	FURNISHED BY			
DWH-1	DOMESTIC WATER HEATER	208 V	3	-	NO	11.7	32.47	41 A	60 A	60	NFSS	DIV.26	2 #1/0 AWG + 1 #6 AWG G 1 1/2" C		23.65.35.11.11

MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

UNIT MARK	UNIT DISCRIPTION	VOLTAGE	PHASE	HP	EM. POWER	LOAD KW	FLA	MCA	MOCP	SIZE	TYPE	FURNISHED BY	FEEDER	REMARKS	OMNICLASS NUMBER
AC	PORTABLE AC	-	-	-	NO	-	-	-	-	-	-	-	-	-	23.75.00.00
AC-1	SPLIT SYSTEM INDOOR UNIT	-	-	-	NO	-	-	-	-	-	-	-	-	-	23.33.39.21
AC-2	SPLIT SYSTEM INDOOR UNIT	-	-	-	NO	-	-	-	-	-	-	-	-	-	23.33.39.21
AC-3	SPLIT SYSTEM INDOOR UNIT	-	-	-	NO	-	-	-	-	-	-	-	-	-	23.33.39.21
ACCU-1	SPLIT SYSTEM OUTDOOR UNIT	-	-	-	NO		-	-	-	-	-	-	-	-	23.75.00.00
ACCU-2	SPLIT SYSTEM OUTDOOR UNIT	-	-	-	NO	-	-	-	-	-	-	-	-	-	23.75.00.00
ACCU-3	SPLIT SYSTEM OUTDOOR UNIT	-	-	-	NO	-	-	-	-	-	-	-	-	-	23.75.00.00
AHU-1,2	AIR HANDLING - SUPPLY UNIT/RETURN UNIT	208	3	-	NO	-	19/22.4	23.75/28	60/60	60	NFSS	DIV. 26	3 #10AWG +1 #8AW G 1" C	-	23.33.39.17.13.11
EF-1	EXHAUST FAN	-	-	-	NO	-	-	-	-	-	-	-	-	-	23.33.31.19.11.15
EF-2	EXHAUST FAN	-	-	-	NO	-	-	-	-	-	-	-	-	-	23.33.31.19.11.15
EF-3	EXHAUST FAN	-	-	-	NO	-	-	-	-	-	-	-	-	-	23.33.31.19.11.17
PMP-1	PUMP	-	-	-	NO	-	-	-	-	-	-	-	-	-	23.60.30.21
PMP-2	PUMP	-	-	-	NO	-	-	-	-	-	-	-	-	-	23.60.30.21
PMP-3	PUMP	-	-	-	NO	-	-	-	-	-	-	-	-	-	23.60.30.21
PMP-4	PUMP	-	-	-	NO	-	-	-	-	-	-	-	-	-	23.60.30.21
PMP-5	PUMP	-	-	-	NO	-	-	-	-	-	-	-	-	-	23.60.30.21
PMP-6	PUMP	-	-	-	NO	-	-	-	-	-	-	-	-	-	23.60.30.21

SETTY™
1415 ELLIOT PLACE, NW SUITE 100
WASHINGTON, DC 20007
P: 202-393-1523
www.SETTY.com
PROJECT NUMBER: SYY23001

Setty DC Office

1415 Elliot Place, NW

ISSUES AND REVISIONS

No.	Description	Date

Drawn/Checked	Author / Checker
Project Number	SYY220001DC01
Drawing Date	DD
Bid Date	BD
Permit Date	12/31/2023

ELECTRICAL SCHEDULES

E601

Branch Panel: MDP (E)

Location:	IT/ELECTRICAL 011	**Volts:**	120/208 Wye	**A.I.C. Rating:**	65K
Supply From:	C/T CABINET	**Phases:**	3	**Mains Type:**	MLO
Mounting:	Surface	**Wires:**	4	**Mains Rating:**	400 A
Enclosure:	NEMA 1				

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	PANEL K (E)	225 A	3	2940...	1800...					3	225 A	PANEL B	2
3	--	--	--			3420...	1800...			--	--	--	4
5	--	--	--					2470...	1800...	--	--	--	6
7	PANEL A (E)	225 A	3	2820...	3506...					3	20 A	PANEL P1A (E)	8
9	--	--	--			3300...	4268...			--	--	--	10
11	--	--	--					2300...	3691...	--	--	--	12
13	PANEL P2 (E)	20 A	3	1195...	3000...					3	20 A	PANEL SN (N)	14
15	--	--	--			1284...	2970...			--	--	--	16
17	--	--	--					1202...	1470...	--	--	--	18
19	PANEL P1 (E)	20 A	3	7500...	--					1	--	BUSSED SPACE	20
21	--	--	--			6420...	--			1	--	BUSSED SPACE	22
23	--	--	--					5700...	--	1	--	BUSSED SPACE	24
25	BUSSED SPACE	--	1	--	--					1	--	BUSSED SPACE	26
27	BUSSED SPACE	--	1			--	--			1	--	BUSSED SPACE	28
29	BUSSED SPACE	--	1					--	--	1	--	BUSSED SPACE	30
31	BUSSED SPACE	--	1	--	--					1	--	BUSSED SPACE	32
33	BUSSED SPACE	--	1			--	--			1	--	BUSSED SPACE	34
35	BUSSED SPACE	--	1					--	--	1	--	BUSSED SPACE	36
37	BUSSED SPACE	--	1	--	--					1	--	BUSSED SPACE	38
39	BUSSED SPACE	--	1			--	--			1	--	BUSSED SPACE	40
41	BUSSED SPACE	--	1					--	--	1	--	BUSSED SPACE	42
			Total Load:	49716 VA		51220 VA		45655 VA					
			Total Amps:	420 A		432 A		380 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	3930 VA	125.00%	4913 VA		
Power	95880 VA	100.00%	95880 VA	**Total Conn. Load:**	146590 VA
Receptacle	31680 VA	65.78%	20840 VA	**Total Est. Demand:**	135383 VA
Electric Range - Less than 3.5 kW	4500 VA	70.00%	3150 VA	**Total Conn. Current:**	407 A
Equipment	10600 VA	100.00%	10600 VA	**Total Est. Demand Current:**	376 A

Notes:

Branch Panel: P1 (E)

Location:	Space 1	**Volts:**	120/208 wye	**A.I.C. Rating:**	22K
Supply From:	MDP (E)	**Phases:**	3	**Mains Type:**	MLO
Mounting:	Surface	**Wires:**	4	**Mains Rating:**	225 A
Enclosure:	NEMA 1				

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	REC. OFFICE 001	20 A	1	720 VA	720 VA					1	20 A	REC. OFFICE 001	2
3	REC. SECRETARIAL AREA 129	20 A	1			720 VA	540 VA			1	20 A	REC. OPEN OFFICE 002	4
5	REC. CONFERENCE 012	20 A	1					720 VA	720 VA	1	20 A	REC. OPEN OFFICE 002	6
7	REC. RM. 010, 129	20 A	1	360 VA	720 VA					1	20 A	REC. OPEN OFFICE 002	8
9	GFI REC. RESTROOM 007,009	20 A	1			360 VA	900 VA			1	20 A	REC. OPEN OFFICE 002	10
11	REC. MECHANICAL 008	20 A	1					360 VA	0 VA	1	20 A	SPARE	12
13	REC. OFFICE 005	20 A	1	1080...	0 VA					1	20 A	SPARE	14
15	DWH-1 LOWER LEVEL	60 A	3			3900...	0 VA			1	20 A	SPARE	16
17	--	--	--					3900...	0 VA	1	20 A	SPARE	18
19	--	--	--	3900...	0 VA					1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	2	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					--	--	--	26
27	SPARE	20 A	1			0 VA	0 VA			2	30 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	--	--	--	30
31	SPARE	20 A	1	0 VA	0 VA					2	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA			--	--	--	34
35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36
37	SPARE	20 A	1	0 VA	0 VA					3	20 A	SPARE	38
39	SPARE	20 A	1			0 VA	0 VA			--	--	--	40
41	SPARE	20 A	1					0 VA	0 VA	--	--	--	42
			Total Load:	7500 VA		6420 VA		5700 VA					
			Total Amps:	63 A		54 A		48 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	11700 VA	100.00%	11700 VA		
Receptacle	7920 VA	100.00%	7920 VA	**Total Conn. Load:**	19620 VA
				Total Est. Demand:	19620 VA
				Total Conn. Current:	54 A
				Total Est. Demand Current:	54 A

Notes:

GENERAL NOTES

1. TURN ALL SPARE CIRCUIT BREAKERS TO "OFF" POSITION AT COMPLETION OF WORK.
2. AT COMPLETION OF THE PROJECT, PROVIDE TYPE WRITTEN SCHEDULES FOR ALL PANEL BOARDS UTILIZED DURING THE CONSTRUCTION PROCESS INDICATING AS-BUILT CONDITIONS.
3. PROVIDE RED COLOR LOCKABLE TYPE BREAKERS FOR CIRCUITS SERVING LIFE SAFETY PANEL BOARDS.
4. ALL UNGROUNDED AND GROUNDED CONDUCTORS OF EACH MULTI-WIRE BRANCH CIRCUIT ARE TO BE GROUPED BY WIRE TIES OR SIMILAR MEANS AT LEAST ONE LOCATION EITHER WITHIN THE PANEL BOARD OR AT THE OTHER POINT OF ORIGINATION.
5. PROVIDE A SECURE PHYSICAL 'TRIP TIE' WHICH BONDS SINGLE CIRCUIT BREAKER SWITCHES TOGETHER FOR GROUPS OF SYSTEM FURNITURE AND MULTI-WIRE BRANCH CIRCUITS.
6. ALL REUSED CIRCUIT NUMBERS INDICATED ON PLAN ARE BASED ON EXISTING DOCUMENTS AND MAY NOT MATCH THE ACTUAL AS-BUILT CONDITION OF THE EXISTING CIRCUITS SERVING THE AREA. CONTRACTOR TO VERIFY THE EXACT CIRCUIT NUMBERS DURING CONSTRUCTION.
7. ALL NEW CIRCUIT BREAKERS WHERE PROVIDED MUST BE COMPATIBLE WITH THE EXISTING PANEL BOARD AND SHALL MATCH THE EXISTING UL LISTING, MANUFACTURER MAKE AND AIC RATING.
8. PROVIDE ARC FLASH WARNING LABELS FOR ALL NEW PANEL BOARDS.

Branch Panel: P1A (E)

Location:	Space 1	**Volts:**	120/208 wye	**A.I.C. Rating:**	22K
Supply From:	MDP (E)	**Phases:**	3	**Mains Type:**	MLO
Mounting:	Surface	**Wires:**	4	**Mains Rating:**	225 A
Enclosure:	NEMA 1				

Notes:

CKT	Load Name	Trip	Poles	A		B		C		Poles	Trip	Load Name	CKT
1	BUSSED SPACE	--	1	--	--					1	--	BUSSED SPACE	2
3	BUSSED SPACE	--	1			--	--			1	--	BUSSED SPACE	4
5	BUSSED SPACE	--	1					--	--	1	--	BUSSED SPACE	6
7	BUSSED SPACE	--	1	--	--					1	--	BUSSED SPACE	8
9	BUSSED SPACE	--	1			--	--			1	--	BUSSED SPACE	10
11	BUSSED SPACE	--	1					--	--	1	--	BUSSED SPACE	12
13	BUSSED SPACE	--	1	--	--					1	--	BUSSED SPACE	14
15	BUSSED SPACE	--	1			--	--			1	--	BUSSED SPACE	16
17	BUSSED SPACE	--	1					--	--	1	--	BUSSED SPACE	18
19	BUSSED SPACE	--	1	--	750 VA					2	20 A	REC. RANGE	20
21	REC. OVEN	20 A	2			750 VA	750 VA			--	--	--	22
23	--	--	--					750 VA	135 VA	1	20 A	LTG. LOWER LEVEL	24
25	LTG. LOWER LEVEL	20 A	1	329 VA	47 VA					1	20 A	LTG. LOWER LEVEL	26
27	LTG. LOWER LEVEL	20 A	1			234 VA	310 VA			1	20 A	LTG. LOWER LEVEL	28
29	LTG. LOWER LEVEL	20 A	1					444 VA	74 VA	1	20 A	LTG. LOWER LEVEL	30
31	LTG. LOWER LEVEL	20 A	1	40 VA	900 VA					1	20 A	REC. CONFERENCE 012	32
33	LTG. LOWER LEVEL	20 A	1			64 VA	1080...			1	20 A	REC. OFFICE 013	34
35	LTG. LOWER LEVEL	20 A	1					128 VA	900 VA	1	20 A	REC. OPEN OFFICE 014	36
37	REC. CONFERENCE 012	20 A	1	720 VA	720 VA					1	20 A	REC. SECRETARIAL AREA 129	38
39	REC. OPEN OFFICE 014	20 A	1			720 VA	360 VA			1	20 A	REC. COPIER	40
41	REC. OPEN OFFICE 014	20 A	1					720 VA	540 VA	1	20 A	REC. SECRETARIAL AREA 129	42
			Total Load:	3506 VA		4268 VA		3691 VA					
			Total Amps:	29 A		36 A		31 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	1805 VA	125.00%	2256 VA		
Receptacle	6660 VA	100.00%	6660 VA	**Total Conn. Load:**	11465 VA
Electric Range - Less than 3.5 kW	3000 VA	75.00%	2250 VA	**Total Est. Demand:**	11166 VA
				Total Conn. Current:	32 A
				Total Est. Demand Current:	31 A

Notes:

Branch Panel: P2 (E)

Location:	Space 1	**Volts:**	120/208 Wye	**A.I.C. Rating:**	22K
Supply From:	MDP (E)	**Phases:**	3	**Mains Type:**	MLO
Mounting:	Surface	**Wires:**	4	**Mains Rating:**	225 A
Enclosure:	NEMA 1				

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	REC. OFICE 101	20 A	1	900 VA	270 VA					1	20 A	LTG. UPPER LEVEL	2
3	REC. OFICE 101	20 A	1			900 VA	322 VA			1	20 A	LTG. UPPER LEVEL	4
5	REC. OFICE 102	20 A	1					720 VA	44 VA	1	20 A	LTG. UPPER LEVEL	6
7	REC. OFICE 103	20 A	1	540 VA	240 VA					1	20 A	LTG. MEZZANINE	8
9	REC. OFICE 107	20 A	1			720 VA	900 VA			1	20 A	REC. MEZZANINE	10
11	REC.	20 A	1					720 VA	540 VA	1	20 A	REC. UPPER LEVEL	12
13	AHU-1 SUPPLY UNIT	60 A	3	2300...	2700...					3	60 A	AHU-1 RETURN UNIT	14
15	--	--	--			2300...	2700...			--	--	--	16
17	--	--	--					2300...	2700...	--	--	--	18
19	AHU-1 SUPPLY UNIT	60 A	3	2300...	2700...					3	60 A	AHU-1 RETURN UNIT	20
21	--	--	--			2300...	2700...			--	--	--	22
23	--	--	--					2300...	2700...	--	--	--	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	34
35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	36
37	BUSSED SPACE	--	1	--	0 VA					3	70 A	SPARE	38
39	BUSSED SPACE	--	1			--	0 VA			--	--	--	40
41	BUSSED SPACE	--	1					--	0 VA	--	--	--	42
			Total Load:	11950 VA		12842 VA		12024 VA					
			Total Amps:	100 A		107 A		100 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	876 VA	125.00%	1095 VA		
Power	30000 VA	100.00%	30000 VA	**Total Conn. Load:**	36816 VA
Receptacle	5940 VA	100.00%	5940 VA	**Total Est. Demand:**	37035 VA
				Total Conn. Current:	102 A
				Total Est. Demand Current:	103 A

Notes:

KEY PANELS	
PANEL MDP (E)	PANEL P1 (E)
PANEL P1A (E)	PANEL P2 (E)

SETTY

1415 ELLIOT PLACE, NW SUITE 100
WASHINGTON, DC 20007
P: 202-393-1523
www.SETTY.com

PROJECT NUMBER: SYY23001

Setty DC Office

1415 Elliot Place, NW

ISSUES AND REVISIONS

No.	Description	Date

Drawn/Checked	Author / Checker
Project Number	SYY220001DC01
Drawing Date	DD
Bid Date	BD
Permit Date	12/31/2023

ELECTRICAL PANEL SCHEDULES

E602

Branch Panel: A (E)

Location: IT/ELECTRICAL 011 **Volts:** 120/208 Wye **A.I.C. Rating:** 10K
Supply From: MDP (E) **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 225 A
Enclosure: NEMA 1

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	REC. RM. 108,109	20 A	1	720 VA	0 VA					1	90 A	SPACE AND PROVISIONS	2
3	REC. OFFICE 110	20 A	1			720 VA	0 VA			1	90 A	SPACE AND PROVISIONS	4
5	REC. RM. 115	20 A	1					720 VA	0 VA	1	90 A	SPACE AND PROVISIONS	6
7	REC. OFFICE 113	20 A	1	540 VA	0 VA					1	90 A	SPACE AND PROVISIONS	8
9	REC. OFFICE 114	20 A	1			900 VA	0 VA			1	90 A	SPACE AND PROVISIONS	10
11	LTG. UPPER LEVEL	20 A	1					140 VA	0 VA	1	90 A	SPACE AND PROVISIONS	12
13	LTG. UPPER LEVEL	20 A	1	240 VA	0 VA					1	90 A	SPACE AND PROVISIONS	14
15	REC. OFFICE 119	20 A	1			630 VA	0 VA			1	90 A	SPACE AND PROVISIONS	16
17	REC. OFFICE 110	20 A	1					720 VA	0 VA	1	90 A	SPACE AND PROVISIONS	18
19	REC. OFFICE 112	20 A	1	720 VA	0 VA					1	90 A	SPACE AND PROVISIONS	20
21	REC. OFFICE 114	20 A	1			900 VA	0 VA			1	90 A	SPACE AND PROVISIONS	22
23	REC. OFFICE 114	20 A	1					720 VA	0 VA	1	90 A	SPACE AND PROVISIONS	24
25	LTG. UPPER LEVEL	20 A	1	600 VA	0 VA					1	90 A	SPACE AND PROVISIONS	26
27	LTG. UPPER LEVEL	20 A	1			150 VA	0 VA			1	90 A	SPACE AND PROVISIONS	28
29	SPARE	20 A	1					0 VA	0 VA	1	90 A	SPACE AND PROVISIONS	30
31	SPARE	20 A	1	0 VA	0 VA					1	90 A	SPACE AND PROVISIONS	32
33	SPARE	20 A	1			0 VA	0 VA			1	90 A	SPACE AND PROVISIONS	34
35	SPARE	20 A	1					0 VA	0 VA	1	90 A	SPACE AND PROVISIONS	36
37	SPARE	20 A	1	0 VA	0 VA					1	90 A	SPACE AND PROVISIONS	38
39	SPARE	20 A	1			0 VA	0 VA			1	90 A	SPACE AND PROVISIONS	40
41	SPARE	20 A	1					0 VA	0 VA	1	90 A	SPACE AND PROVISIONS	42
			Total Load:	2820 VA		3300 VA		2300 VA					
			Total Amps:	24 A		28 A		19 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	1130 VA	125.00%	1413 VA		
Receptacle	7290 VA	100.00%	7290 VA	**Total Conn. Load:**	8420 VA
				Total Est. Demand:	8703 VA
				Total Conn. Current:	23 A
				Total Est. Demand Current:	24 A

Notes:

Branch Panel: K (E)

Location: KITCHEN 106 **Volts:** 120/208 wye **A.I.C. Rating:** 10K
Supply From: MDP (E) **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 225 A
Enclosure: NEMA 1

CKT		Trip	Poles	A		B		C		Poles	Trip		CKT
1	REC. KITCHEN 106	20 A	1	360 VA	0 VA					3	70 A	SPARE	2
3	REC. KITCHEN 106	20 A	1			180 VA	0 VA			--	--		4
5	REC. KITCHEN 106	20 A	1					180 VA	0 VA	--	--		6
7	REC. KITCHEN 106	20 A	1	90 VA	0 VA					3	70 A	SPARE	8
9	REC. KITCHEN 106	20 A	1			720 VA	0 VA			--	--		10
11	GFI REC. RESTROOM 104,105	20 A	1					360 VA	0 VA	--	--		12
13	REC. KITCHEN 106	20 A	1	180 VA	1200...					1	20 A	REC. MICROWAVE HOOD	14
15	SPARE	20 A	1			0 VA	1200...			1	20 A	REC. RANGE WASHER	16
17	SPARE	20 A	1					0 VA	750 VA	2	20 A	REC. RANGE	18
19	SPARE	20 A	1	0 VA	750 VA					--	--	--	20
21	SPARE	20 A	1			0 VA	1200...			1	20 A	REC. MICROWAVE	22
23	SPARE	20 A	1					0 VA	180 VA	1	20 A	J-BOX GARBAGE DISPOSAL	24
25	SPARE	20 A	1	0 VA	360 VA					1	20 A	REC. KITCHEN 106	26
27	SPARE	20 A	1			0 VA	120 VA			1	20 A	LTG. UPPER LEVEL	28
29	SPARE	20 A	1					0 VA	1000...	1	20 A	REC. REFRIGERATOR	30
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	32
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	34
35	BUSSED SPACE	--	1					--	0 VA	1	20 A	SPARE	36
37	BUSSED SPACE	--	1	--	0 VA					1	20 A	SPARE	38
39	BUSSED SPACE	--	1			--	0 VA			1	20 A	SPARE	40
41	BUSSED SPACE	--	1					--	0 VA	1	20 A	SPARE	42
			Total Load:	2940 VA		3420 VA		2470 VA					
			Total Amps:	25 A		29 A		21 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	120 VA	125.00%	150 VA		
Power	180 VA	100.00%	180 VA	**Total Conn. Load:**	8830 VA
Receptacle	2430 VA	100.00%	2430 VA	**Total Est. Demand:**	8560 VA
Electric Range - Less than 3.5 kW	1500 VA	80.00%	1200 VA	**Total Conn. Current:**	25 A
Equipment	4600 VA	100.00%	4600 VA	**Total Est. Demand Current:**	24 A

Notes:

Branch Panel: SN (N)

Location: IT/ELECTRICAL 011 **Volts:** 120/208 Wye **A.I.C. Rating:** 10K
Supply From: MDP (E) **Phases:** 3 **Mains Type:** MLO
Mounting: Surface **Wires:** 4 **Mains Rating:** 100 A
Enclosure: NEMA 1

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	UPS-1 IT/ELECTRICAL 011	30 A	2	750 VA	750 VA					2	30 A	UPS-2 IT/ELECTRICAL 011	2
3	--	--	--			750 VA	750 VA			--	--	--	4
5	REC. IT/ELECTRICAL 011	20 A	1					720 VA	750 VA	2	30 A	UPS-3 IT/ELECTRICAL 011	6
7	UPS-4 IT/ELECTRICAL 011	30 A	2	750 VA	750 VA					--	--	--	8
9	--	--	--			750 VA	720 VA			1	20 A	REC. IT ELECTRICAL 011	10
11	BUSSED SPACE	--	1					--	--	1	--	BUSSED SPACE	12
13	BUSSED SPACE	--	1	--	--					1	--	BUSSED SPACE	14
15	BUSSED SPACE	--	1			--	--			1	--	SPACEBUSSED SPACE	16
17	BUSSED SPACE	--	1					--	--	1	--	BUSSED SPACE	18
			Total Load:	3000 VA		2970 VA		1470 VA					
			Total Amps:	27 A		27 A		12 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	1440 VA	100.00%	1440 VA		
Equipment	6000 VA	100.00%	6000 VA	**Total Conn. Load:**	7440 VA
				Total Est. Demand:	7440 VA
				Total Conn. Current:	21 A
				Total Est. Demand Current:	21 A

Notes:

GENERAL NOTES

1. TURN ALL SPARE CIRCUIT BREAKERS TO "OFF" POSITION AT COMPLETION OF WORK.
2. AT COMPLETION OF THE PROJECT, PROVIDE TYPE WRITTEN SCHEDULES FOR ALL PANEL BOARDS UTILIZED DURING THE CONSTRUCTION PROCESS INDICATING AS-BUILT CONDITIONS.
3. PROVIDE RED COLOR LOCKABLE TYPE BREAKERS FOR CIRCUITS SERVING LIFE SAFETY PANEL BOARDS.
4. ALL UNGROUNDED AND GROUNDED CONDUCTORS OF EACH MULTI-WIRE BRANCH CIRCUIT ARE TO BE GROUPED BY WIRE TIES OR SIMILAR MEANS AT LEAST ONE LOCATION EITHER WITHIN THE PANEL BOARD OR AT THE OTHER POINT OF ORIGINATION.
5. PROVIDE A SECURE PHYSICAL 'TRIP TIE' WHICH BONDS SINGLE CIRCUIT BREAKER SWITCHES TOGETHER FOR GROUPS OF SYSTEM FURNITURE AND MULTI-WIRE BRANCH CIRCUITS.
6. ALL REUSED CIRCUIT NUMBERS INDICATED ON PLAN ARE BASED ON EXISTING DOCUMENTS AND MAY NOT MATCH THE ACTUAL AS-BUILT CONDITION OF THE EXISTING CIRCUITS SERVING THE AREA. CONTRACTOR TO VERIFY THE EXACT CIRCUIT NUMBERS DURING CONSTRUCTION.
7. ALL NEW CIRCUIT BREAKERS WHERE PROVIDED MUST BE COMPATIBLE WITH THE EXISTING PANEL BOARD AND SHALL MATCH THE EXISTING UL LISTING, MANUFACTURER MAKE AND AIC RATING.
8. PROVIDE ARC FLASH WARNING LABELS FOR ALL NEW PANEL BOARDS.

KEY PANELS	
PANEL A (E)	PANEL K (E)
PANEL SN (N)	

SETTY™
1415 ELLIOT PLACE, NW SUITE 100
WASHINGTON, DC 20007
P: 202-393-1523
www.SETTY.com
PROJECT NUMBER: SYY23001

Setty DC Office

1415 Elliot Place, NW

ISSUES AND REVISIONS

No.	Description	Date

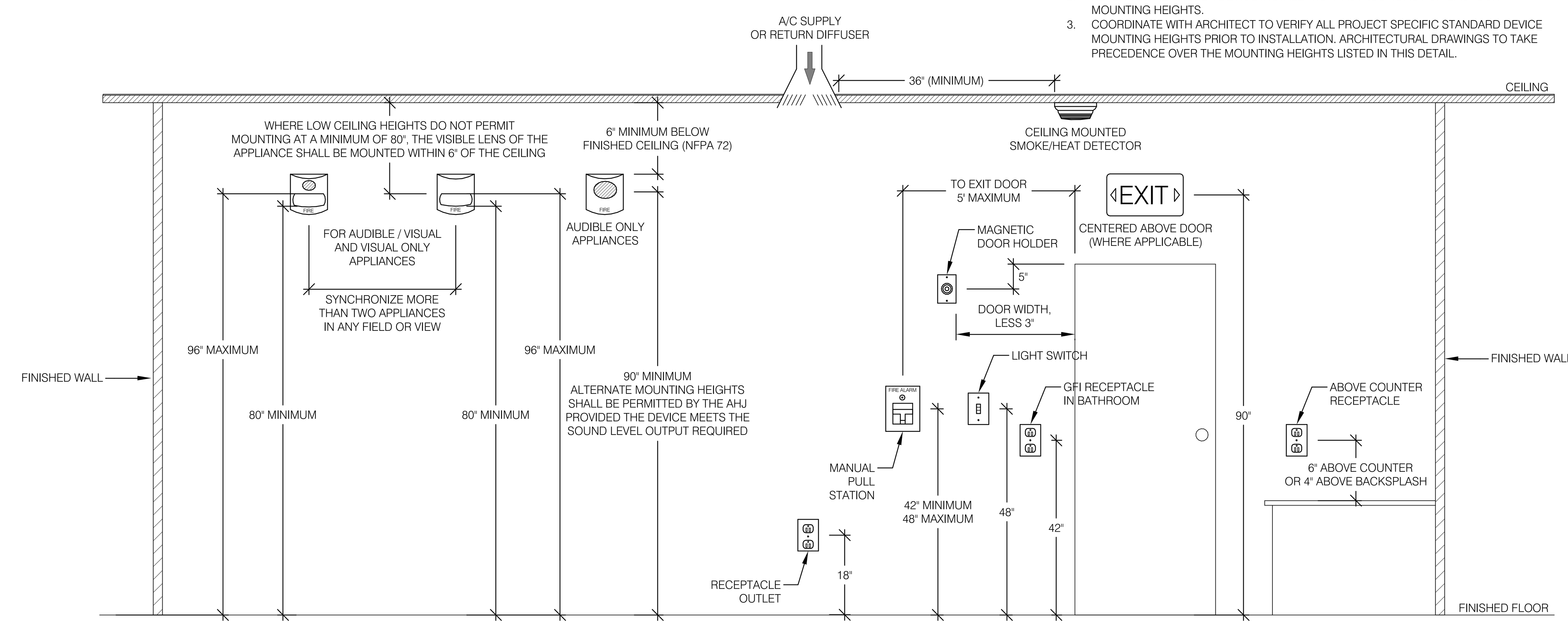
Drawn/Checked	Author / Checker
Project Number	SYY220001DC01
Drawing Date	DD
Bid Date	BD
Permit Date	12/31/2023

ELECTRICAL PANEL SCHEDULES

E603

NOTES:

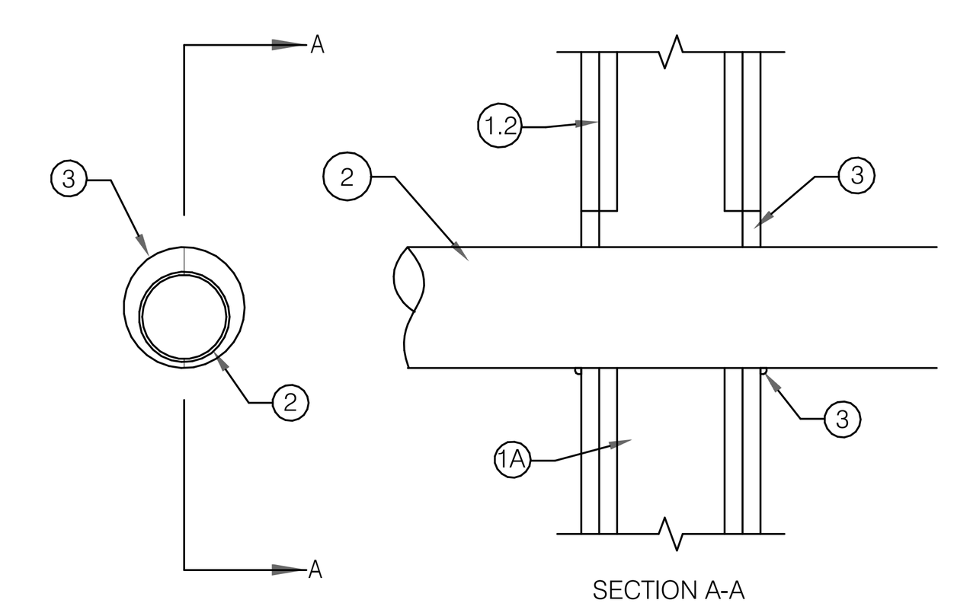
1. DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL LINE WHEREVER POSSIBLE.
2. REFER TO THE PROPER DEVICE INSTALLATION INSTRUCTIONS FOR BACKBOX MOUNTING HEIGHTS.
3. COORDINATE WITH ARCHITECT TO VERIFY ALL PROJECT SPECIFIC STANDARD DEVICE MOUNTING HEIGHTS PRIOR TO INSTALLATION. ARCHITECTURAL DRAWINGS TO TAKE PRECEDENCE OVER THE MOUNTING HEIGHTS LISTED IN THIS DETAIL.



TYPICAL DEVICE MOUNTING HEIGHT

1 / E701

SCALE: NONE



GYPSUM WALLBOARD

F RATINGS - 1 AND 2 HR
T RATING - 0 HR

L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT

L RATING AT 400 F - LESS THAN 1 CFM/SQ FT

1. WALL ASSEMBLY - THE FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES

1.1. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE AND SPACED MAX 24 IN. OC.

1.2. GYPSUM BOARD* - THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS REQUIRED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IN WOOD STUD WALLS IS 8 IN. MAX DIAM OF OPENING IN STEEL STUD WALLS IS 14 IN. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.

2. THROUGH PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED WITHIN THE FIRESTOP SYSTEM. THE SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE A MIN 0 IN. (POINT CONTACT) TO A MAX 2 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

2.1. STEEL PIPE - NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 5 (OR HEAVIER STEEL PIPE).

2.2. IRON PIPE - NOM 12 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.

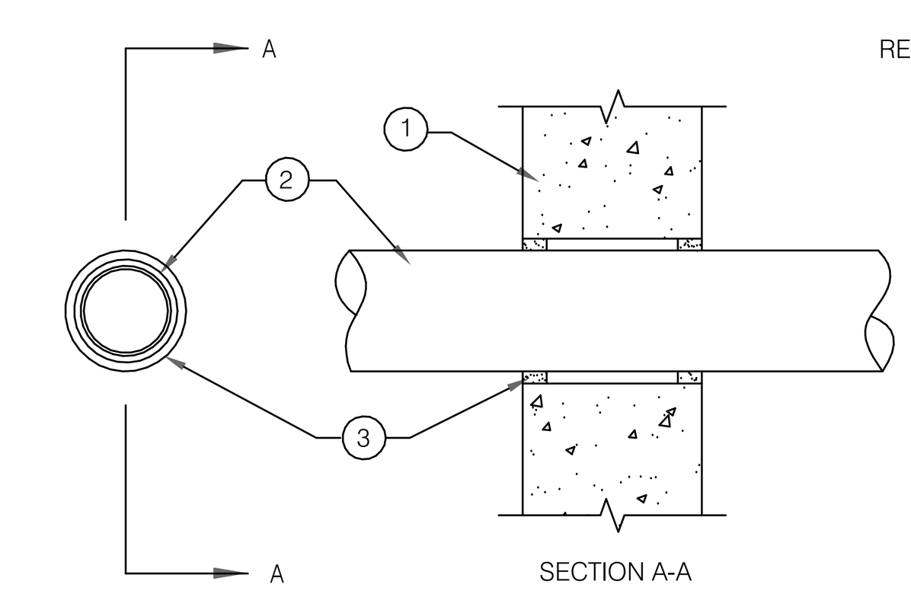
2.3. CONDUIT - NOM 4 IN. DIAM (OR SMALLER) ELECTRICAL METALLIC TUBING, NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT OR NOM 1 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT.

2.4. COPPER TUBING - NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.

2.5. COPPER PIPE - NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

3. FILL, VOID OR CAVITY MATERIAL* - CAULK - MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 3/8 IN. DIAM BEAD OF FILL MATERIAL APPLIED AT POINT CONTACT LOCATION AT THE PENETRANT/GYPSUM BOARD INTERFACE ON BOTH SIDES OF WALL
.

PENETRATIONS THROUGH STRUCTURE SHALL MAINTAIN FIRE RESISTANCE AND COMPLY WITH SECTION 713.4 OF THE IBC 2015. ALL ANNULAR SPACES BETWEEN RATED STRUCTURE/ENCLOSURE SHALL BE FILLED WITH APPROVED MATERIAL COMPLYING WITH REQUIREMENTS OF UL 1479.



REINFORCED CONCRETE

F RATING - 2 HR.
T RATING - 0 HR.

1. WALL ASSEMBLY - MIN 6 IN. (152 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 25 IN. (635 MM). SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR THE NAMES OF MANUFACTURERS.
2. THROUGH PENETRANT - ONE METALLIC PIPE, TUBING OR CONDUIT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPES, TUBING OR CONDUITS AND PERIPHERY OF OPENING IS DEPENDENT UPON THE TYPE AND MAX DIAM OF THE THROUGH PENETRANT AS TABULATED BELOW. PIPE, TUBING OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, TUBING OR CONDUITS MAY BE USED:

2.1. STEEL PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
2.2. IRON PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
2.3. COPPER TUBING - NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
2.4. COPPER PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
2.5. CONDUIT - NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING, NOM 6 IN. (152 MM) DIAM GALV STEEL CONDUIT OR NOM 1 IN. DIAM FLEXIBLE STEEL CONDUIT.

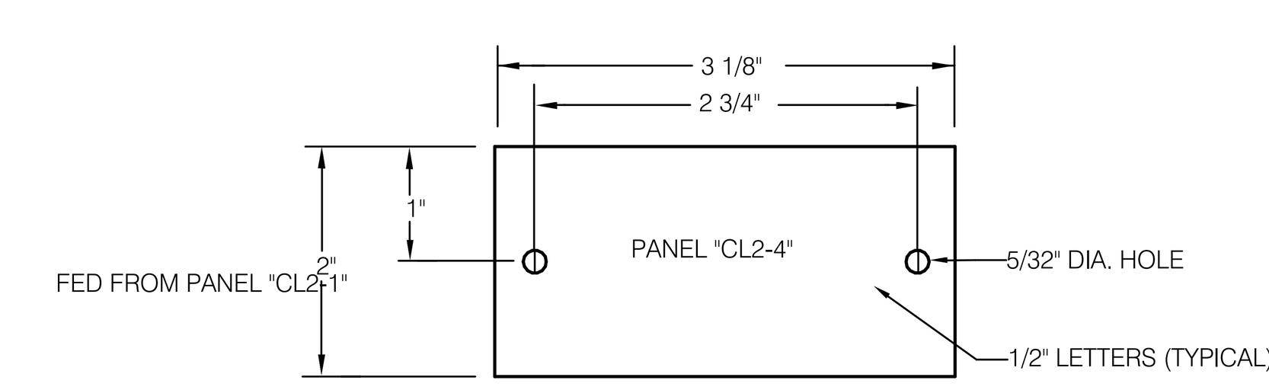
TYPE OF THROUGH PENETRANT	MAX DIAM OF THROUGH PENETRANT, IN. (MM)	MIN & MAX ANNULAR SPACE, IN. (MM)
STEEL OR IRON PIPE	4 (102)	0, 1-1/2 (38)
STEEL TUBING OR CONDUIT	4 (102)	0, 1-1/2 (38)
STEEL CONDUIT	6 (152)	1/8 (3), 1/2 (13)
STEEL OR IRON PIPE	24 (610)	1/8 (3), 1/2 (13)
COPPER TUBING OR PIPE	6 (152)	1/8 (3), 1/2 (13)

3. FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN 5/8 IN. (16 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN THROUGH PENETRANT AND CONCRETE, A MIN 3/8 IN. (10 MM) DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/THROUGH PENETRANT INTERFACE ON BOTH SURFACES OF WALL.
PENETRATIONS THROUGH STRUCTURE SHALL MAINTAIN FIRE RESISTANCE AND COMPLY WITH SECTION 713.4 OF THE IBC 2015. ALL ANNULAR SPACES BETWEEN RATED STRUCTURE/ENCLOSURE SHALL BE FILLED WITH APPROVED MATERIAL COMPLYING WITH REQUIREMENTS OF UL 1479.

THROUGH-PENETRATION FIRE STOP

3 / E701

SCALE: NONE



NOTES:

1. REFER TO SPECIFICATIONS FOR ADDITIONAL NAMEPLATE REQUIREMENTS.
2. NAMEPLATE TO BE 1/16" THICK.
3. FOR TYPICAL PANELS, FACEPLATE TO BE WHITE LAMINATE WITH BLACK ENGRAVED LETTERS.
4. FOR EMERGENCY PANELS, FACEPLATE TO BE RED LAMINATE WITH WHITE ENGRAVED LETTERS.
5. SECURE NAMEPLATE TO SURFACES WITH (2) FLAT HEAD BRASS SCREWS.
6. UNLESS OTHERWISE INDICATED, PROVIDE A SINGLE LINE OF TEXT WITH 1/2 INCH (13 MM) HIGH LETTERS ON 1-1/2 INCH (38 MM) HIGH LABEL; WHERE TWO LINES OF TEXT ARE REQUIRED, USE LABELS 2 INCHES (50 MM) HIGH.

NAME PLATE DETAIL

2 / E701

SCALE: NONE

SETTY

1415 ELLIOT PLACE, NW SUITE 100
WASHINGTON, DC 20007
P: 202-393-1523
www.SETTY.com
PROJECT NUMBER: SYY23001

Setty DC Office

1415 Elliot Place, NW

ISSUES AND REVISIONS

No.	Description	Date

Drawn/Checked	Author / Checker
Project Number	SYY220001DC01
Drawing Date	DD
Bid Date	BD
Permit Date	12/31/2023

ELECTRICAL DETAILS

E701