SYMBOL SCHEDULE – ELECTRICAL AND DIVISION 26 DOCUMENTS

SYMBOL		DESCRIPTION
CEILING	WALL	
▭	⊤	LED LIGHT FIXTURE (LETTER DENOTES FIXTURE). SEE FIXTURE SCHEDULE
▬	⊤	LED LIGHT FIXTURE ON EMERGENCY CIRCUIT
○	⊢○	LED DOWNLIGHT AND WALL SCONCE LIGHT FIXTURE. SEE FIXTURE SCHEDULE
⊠	⊠	"EXIT" LIGHT FIXTURE (WITH OR WITHOUT DIRECTIONAL ARROWS)
◎		CHANDELIER
⊓	⊓	EMERGENCY BATTERY PACK FIXTURE
	S	SINGLE-POLE TOGGLE SWITCH
	S_a	SINGLE POLE TOGGLE SWITCH (LETTER DENOTES FIXTURE CONTROLLED)
	S_2	TWO-POLE TOGGLE SWITCH
	S_3	THREE-WAY TOGGLE SWITCH
	S_L	SINGLE-POLE DOUBLE-THROW SWITCH FOR LOW VOLTAGE SWITCHING SYSTEM
	S_{LM}	MASTER SWITCH STATION LOW VOLTAGE SWITCHING SYSTEM
	S_{OS}	PASSIVE INFRARED OCCUPANCY SENSOR – WALL MOUNTED
OS_P		PASSIVE INFRARED OCCUPANCY SENSOR – CEILING MOUNTED
OS_U		ULTRA SONIC OCCUPANCY SENSOR – CEILING MOUNTED
	D	SINGLE-POLE DIMMER SWITCH (INCANDESCENT SUBSCRIPT DENOTES WATTAGE – 6=600W., 10=1000W., 15=1500W., 20=2000W.)
⊙ (FLOOR)	⏀	DUPLEX OUTLET (15 AMP, 125 VOLT, NEMA 5-15R)
	⏀	DUPLEX OUTLET (20AMP, 120 VOLT, NEMA 5-20R)
	$⏀_{W.P.}$	WEATHER-RESISTANT DUPLEX OUTLET WITH WEATHERPROOF COVER
	$⏀_{GFI}$	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX OUTLET
	⏀	QUADRAPLEX OUTLET (2-15 AMP, 125-VOLT, NEMA 5-15R MOUNTED IN ONE BOX)
(FLR) ▼	▼	TELEPHONE OUTLET – FLUSH WALL MOUNTED
(FLR) ▽	▽	DATA OUTLET – FLUSH WALL MOUNTED
	▼	TELEPHONE/DATA OUTLET – FLUSH WALL MOUNTED
	■	BRANCH CIRCUIT EMERGENCY PANELBOARD
	▬	BRANCH CIRCUIT PANELBOARD
	▨	DISTRIBUTION PANELBOARD
	S_{MS}	MANUAL MOTOR STARTING SWITCH
	☐	DISCONNECT SWITCH – FUSED UNLESS OTHERWISE NOTED
	⊠	MAGNETIC MOTOR STARTER (SUPPLIED UNDER DIVISION 23000)
	⊠	COMBINATION STARTER/DISCONNECT SWITCH – FUSED UNLESS OTHERWISE NOTED
	⊢(TV)	TELEVISION ANTENNA OUTLET
Ⓢ	⊢Ⓢ	SPEAKER
	F.A.C.P.	FIRE ALARM CONTROL PANEL
⊘		SMOKE DETECTOR – MOUNTED ON CEILING
	⊢⬢	SMOKE DETECTOR – MOUNTED ON WALL
⬢		COMBINATION SMOKE/HEAT DETECTOR – MOUNTED ON CEILING
⊘		SMOKE DETECTOR WITH SAMPLING TUBE (A/H UNITS)

SYMBOL		DESCRIPTION
CEILING	WALL	
	FS	FIRE ALARM FLOW SWITCH
	TS	FIRE ALARM TAMPER SWITCH
	F	FIRE ALARM PULL STATION
	F◁	FIRE ALARM COMBINATION AUDIO/VISUAL ANNUNCIATION UNIT
	H◁	FIRE ALARM HORN
	S◁	FIRE ALARM STROBE
Ⓢ◁		CEILING MOUNTED FIRE ALARM STROBE
⬡H		HEAT DETECTOR
	R	FIRE ALARM RELAY
∿Ⓙ		JUNCTION BOX WITH FIXTURE WHIP
Ⓙ		JUNCTION BOX
(WH)		ELECTRIC WATER HEATER
(#)		MOTOR – SINGLE-PHASE (NUMERAL DENOTES HORSEPOWER)
(#)		MOTOR – THREE PHASE (NUMERAL DENOTES HORSEPOWER)
_⌒_		CIRCUIT BREAKER DEVICE
_\_		SWITCH DEVICE
—▭—		FUSE
—| |—		NORMALLY OPEN CONTACT
—|/|—		NORMALLY CLOSED CONTACT
⏚		GROUND CONNECTION
———		WIRING (IN CONDUIT) CONCEALED IN CEILING OR WALL
— — — —		WIRING (IN CONDUIT) CONCEALED IN OR UNDER SLAB
—EM—EM—		EMERGENCY WIRING (IN CONDUIT) CONCEALED IN CEILING OR WALL
—-—-—		WIRING (IN CONDUIT) RUN EXPOSED
- - - - - - - -		EXISTING
-×-×-×-×-		EXISTING TO BE REMOVED
-··-··-··-		WIRING (IN CONDUIT) RUN UNDER GROUND
- - ⊐⊏——		EXTEND EXISTING CONDUIT WITH NEW CONDUIT
——○		CIRCUIT TURNED UP
——●		CIRCUIT TURNED DOWN
——A——		OUTDOOR AERIAL CONDUCTORS
A		AMP
AC		AIR CONDITION
AFF		ABOVE FINISHED FLOOR
ANN		ANNUNCIATOR PANEL
C		CONDUIT
C/B		CIRCUIT BREAKER
EOLR		END OF LINE RESISTOR
GFI		GROUND FAULT INTERRUPTER
GND		GROUND
P		POLE
UON		UNLESS OTHERWISE NOTED
V		VOLT
WH		WATER HEATER
W		WIRE

SYMBOL	DESCRIPTION
▬	TELEPHONE BACKBOARD
◇	NOTE REFERENCE
⫽➝➝ L:1,2	HOMERUN TO PANELBOARD WITH NOMENCLATURE (LETTERS), CIRCUIT NUMBERS (NUMBERS), NUMBER OF PHASE AND NEUTRAL CONDUCTORS WHEN MORE THAN TWO (HASH MARKS), OPPOSITE SLANT DENOTES GROUND, NUMBER OF CIRCUITS (NUMBER OF ARROWS)
X	FLOOR PLAN AND DETAIL: "X" DENOTES PLAN AND DETAIL NUMBER
X Y	SECTION: "X" DENOTES SECTION ALPHA "Y" DENOTES SHEET SECTION IS DRAWN ON
X Y	DETAIL: "X" DENOTES DETAIL NUMBER "Y" DENOTES SHEET DETAIL IS DRAWN ON
X Y|Z	DETAIL/SECTION REFERENCE: "X" DENOTES DETAIL/SECTION NUMBER OR ALPHA "Y" DENOTES SHEET DETAIL/SECTION IS REFERENCED FROM "Z" DENOTES SHEET DETAIL/SECTION IS DRAWN ON
X Y	ENLARGED REFERENCE: "X" DENOTES DETAIL NUMBER "Y" DENOTES SHEET DETAIL IS DRAWN ON

GENERAL NOTES:

1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE – NFPA 70-2014.
2. ALL EQUIPMENT INDICATED SHALL BE FOR USE INDOORS (NEMA 1); UNLESS NOTED OTHERWISE.
3. ALL FUSED DISCONNECT SWITCHES SERVING EQUIPMENT SUPPLIED UNDER OTHER DIVISIONS OF THE WORK SHALL BE PROVIDED WITH FUSES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER; UNLESS NOTED OTHERWISE.
4. SEPARATE GREEN GROUND CONDUCTORS ARE REQUIRED FOR ALL RECEPTACLE AND FEEDER CIRCUITS; SEE SPECIFICATIONS.
5. CONTRACTOR SHALL UTILIZE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF LIGHTING FIXTURES AND MECHANICAL EQUIPMENT.
6. SEE ARCHITECTURAL DRAWINGS FOR AREAS BEING DEMOLISHED AND SPECIFICATIONS FOR REQUIREMENTS OF DIVISION 26000.
7. FIRESTOP MATERIALS (U.L.LISTED) AND ARE REQUIRED AT ALL PENETRATIONS THROUGH RATED FLOORS, WALLS, CEILING AND PARTITIONS.
8. CONDUCTORS SHALL BE COLOR CODED PER N.E.C. . UTILIZE ONLY THE COLORS SPECIFIED AND IDENTIFY ALL CONDUCTORS AND BOXES.
9. WRITTEN SPECIFICATIONS DESCRIBING MATERIALS AND METHODS ARE PART OF DIVISION 26000 AND SHALL BE UTILIZED THROUGHOUT THE CONSTRUCTION OF THE PROJECT.

ELECTRICAL DEMOLITION NOTES

GENERAL

1) REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS TO DETERMINE THE AREAS TO BE DEMOLISHED AND THE EXTENT OF THIS DEMOLITION. COOPERATE FULLY WITH THE ARCHITECT.
2) REMOVE ALL BRANCH CIRCUIT CONDUCTORS AND CONDUIT, WHICH SERVE DEVICES CALL TO BE DEMOLISHED.
3) REMOVE BOXES, LIGHT FIXTURES, AND WIRING DEVICES AS CALLED FOR ON PLANS .
4) REMOVE COMMUNICATION EQUIPMENT AND CABLE AS CALLED FOR ON PLANS.
5) COOPERATE FULLY WITH COMMUNICATIONS EQUIPMENT INSTALLER WHEN REMOVING COMMUNICATIONS EQUIPMENT AND CABLE.
6) SPECIAL CARE SHALL BE EXERCISED WHEN REMOVING COMMUNICATIONS EQUIPMENT AND CABLE. CERTAIN CABLES MUST NOT BE DISCONNECTED. CONSULT OWNER WHEN IN DOUBT.
7) EXTEND CONDUITS AND CONDUCTORS TO MAINTAIN ELECTRICAL CONTINUITY OF ELECTRICAL EQUIPMENT SERVING AREAS NOT DEMOLISHED AS REQUIRED. THIS APPLIES TO BOTH POWER AND COMMUNICATIONS CIRCUITS.
8) PANELBOARDS, POWER DISTRIBUTION FEEDERS AND COMMUNICATIONS EQUIPMENT SHALL REMAIN IN GOOD WORKING ORDER UNLESS OTHERWISE NOTED, SPECIFIED OR DIRECTED BY OWNER'S REPRESENTATIVES.
9) BRANCH CIRCUITRY SERVING COMMUNICATIONS EQUIPMENT SHALL REMAIN IN GOOD WORKING ORDER UNLESS OTHERWISE INDICATED.

INTERFERENCES:

INTERFERENCE IS DEFINED AS:

1) THE INTERRUPTION OF NORMAL HEATING, VENTILATING AND AIR CONDITIONING OPERATIONS.
2) THE INTERRUPTION OF NORMAL TELEPHONE OR SECURITY SERVICES.
3) THE INTERRUPTION OF NORMAL ELECTRICAL SERVICES.
4) EXCESSIVE NOISE.
5) EXCESSIVE DUST, DIRT OR DEBRIS.
6) THE INTERRUPTION OF NORMAL ELECTRICAL POWER DISTRIBUTION TO CONVENIENCE OUTLETS AND OTHER ELECTRICAL EQUIPMENT. THIS IS A WORKING INSTITUTION AND CARE SHALL BE TAKEN NOT TO INTERFERE WITH NORMAL BUILDING OPERATIONS. IF INTERFERENCE IS UNAVOIDABLE, NOTIFY THE OWNERS, IN WRITING, OF THE NATURE AND DURATION OF THE INTERFERENCE. THIS NOTIFICATION SHALL BE DELIVERED TO THE OWNER'S REPRESENTATIVE AT LEAST ONE WEEK PRIOR TO THE INTERFERENCE. OBTAIN WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING WITH THE INTERFERENCE. THE OWNER RESERVES THE RIGHT TO REQUEST THAT THE WORK BE ACCOMPLISHED AFTER NORMAL WORKING HOURS AT NO ADDITIONAL CHARGE IN ORDER TO AVOID THE INTERFERENCE. ALL SUCH INTERFERENCES SHALL BE AMENDED AS RAPIDLY AS POSSIBLE, I.E., QUICKLY RESTORE THE BUILDING TO NORMAL OPERATING CONDITIONS.

These plans and specifications have been prepared by or under our supervision and, to the best of our knowledge and belief, they comply with all City requirements.

Engineer Richard Nichols

License Number 25896

Periodic site visits will (~~will not~~) be made by our firm

STATE OF LOUISIANA
Richard E. Nichols
Reg. No. 25896
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL ENGINEER
Richard E. Nichols
06-24-22

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METAIRIE, LOUISIANA 70006

SHEET SIZE 30"x 42"
M:\3000 SERIES\3016\3016-ELEC\3016_E0.01_ ELEC LEGEND AND NOTES
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TRAPOLINPEER
ARCHITECTS

CONSTRUCTION
DOCUMENTS

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CONTRACTOR NAME
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City, State Zip
(area code) number

NOT FOR
CONSTRUCTION

REVISION #	DESCRIPTION	DATE
1	PROGRESS SET	06/03/2022
2	PRICING SET	06/24/2022
3	PERMIT SET	06/27/2022

PROJECT NUMBER
CN 22174

ISSUE DATE
06/24/2022

ELECTRICAL
LEGEND AND
NOTES

E0.01

ELECTRICAL SPECIFICATIONS

1. COMPLY WITH LOCAL (CITY OF NEW ORLEANS) AND STATE CODES AND NATIONAL ELECTRICAL CODE.

2. COMPLETELY GROUND ENTIRE ELECTRICAL SYSTEM AS PER NATIONAL ELECTRICAL CODE.

3. APPLY FOR PERMIT AND PAY ALL FEES. PROVIDE FINAL INSPECTION CERTIFICATE.

4. WORKMANSHIP TO MEET N.E.C.A. GUIDELINES.

5. COORDINATION OF ELECTRICAL WORK: CONTRACT DOCUMENTS ARE DIAGRAMMATIC IN SHOWING CERTAIN PHYSICAL RELATIONSHIPS WHICH MUST BE ESTABLISHED WITHIN THE ELECTRICAL WORK, AND IN ITS INTERFACE WITH OTHER WORK INCLUDING UTILITIES AND MECHANICAL WORK, AND THAT SUCH ESTABLISHMENT IS THE EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR.

   ARRANGE ELECTRICAL WORK IN A NEAT, WELL–ORGANIZED MANNER WITH EXPOSED CONDUIT AND SIMILAR SERVICES RUNNING PARALLEL WITH PRIMARY LINES OF THE BUILDING CONSTRUCTION, AND WITH A MINIMUM OF 8'–0" OVERHEAD CLEARANCE OR AS DIRECTED BY THE ARCHITECT.

   ADVISE OTHER TRADES OF OPENINGS REQUIRED IN THEIR WORK FOR THE SUBSEQUENT MOVE–IN OF LARGE UNITS OF ELECTRICAL WORK (EQUIPMENT).

   VERIFY FINAL LOCATIONS FOR ROUGH–INS WITH FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED.

   REFER TO MANUFACTURER'S EQUIPMENT SPECIFICATIONS FOR ROUGH–IN REQUIREMENTS.

   VERIFY ALL DIMENSIONS BY FIELD MEASUREMENTS.

   ARRANGE FOR CHASES, SLOTS, AND OPENINGS IN OTHER BUILDING COMPONENTS TO ALLOW FOR ELECTRICAL INSTALLATIONS.

   REFER TO THE ELECTRICAL DRAWINGS FOR GRAPHIC REPRESENTATIONS, SCHEDULES AND NOTATIONS SHOWING ELECTRICAL WORK.

   THE DRAWINGS SHOW APPROXIMATE LOCATIONS ONLY OF FEEDERS, BRANCH CIRCUITS, OUTLETS, ETC., EXCEPT WHERE SPECIFIC ROUTING OR DIMENSIONS ARE INDICATED. THE ARCHITECT RESERVES THE RIGHT TO MAKE REASONABLE CHANGES IN LOCATIONS INDICATED BEFORE ROUGHING–IN WITHOUT ADDITIONAL COST TO THE OWNER.

   BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OF THE OFFSETS, FITTINGS, AND ACCESSORIES REQUIRED. THE CONTRACTOR SHALL INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING HIS WORK AND SHALL ARRANGE SUCH WORK ACCORDINGLY, FURNISHING FITTINGS, BENDS, JUNCTION BOXES, PULL BOXES, ACCESS PANELS, AND ACCESSORIES REQUIRED TO MEET SUCH CONDITIONS. COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES AND SLEEVES WITH OTHER STRUCTURAL COMPONENTS, AS THEY ARE CONSTRUCTED.

6. SEQUENCE, COORDINATE, AND INTEGRATE INSTALLATIONS OF ELECTRICAL MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF THE WORK. GIVE PARTICULAR ATTENTION TO LARGE EQUIPMENT REQUIRING POSITIONING PRIOR TO CLOSING–IN THE BUILDING.

   COORDINATE THE CUTTING AND PATCHING OF BUILDING COMPONENTS TO ACCOMMODATE THE INSTALLATION OF ELECTRICAL EQUIPMENT AND MATERIALS.

   WHERE MOUNTING HEIGHTS ARE NOT DETAILED OR DIMENSIONED, INSTALL ELECTRICAL SERVICES AND OVERHEAD EQUIPMENT TO PROVIDE THE MAXIMUM HEADROOM POSSIBLE.

   INSTALL ELECTRICAL EQUIPMENT TO FACILITATE MAINTENANCE AND REPAIR OR REPLACEMENT OF EQUIPMENT COMPONENTS. AS MUCH AS PRACTICAL, CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH MINIMUM OF INTERFERENCE WITH OTHER INSTALLATIONS.

   COORDINATE THE INSTALLATION OF ELECTRICAL MATERIALS AND EQUIPMENT ABOVE CEILINGS WITH SUSPENSION SYSTEM, MECHANICAL EQUIPMENT AND SYSTEMS, AND STRUCTURAL COMPONENTS.

7. TEMPORARY ELECTRICITY: FURNISH AND INSTALL ALL NECESSARY TEMPORARY POWER, METERING, LIGHTING OR WIRING THAT IS REQUIRED TO INSURE QUALITY WORKMANSHIP EVERYWHERE.

8. DEMOLITION: ALL ELECTRICAL PANELS, DEVICE (RECEPTACLE, SWITCHES ETC), BRANCH CIRCUITS, FEEDERS, BOXES, AND LIGHT FIXTURES LOCATED IN AREAS OF WORK FOR THIS PROJECT.

   REMOVE COMMUNICATION EQUIPMENT AND CABLE.

   COOPERATE FULLY WITH THE OWNER WHEN REMOVING COMMUNICATIONS EQUIPMENT AND CABLE.

   SPECIAL CARE SHALL BE EXERCISED WHEN REMOVING COMMUNICATIONS EQUIPMENT AND CABLE. CERTAIN CABLE MUST NOT BE DISCONNECTED. CONSULT THE OWNER MANAGER WHEN IN DOUBT.

   EXTEND CONDUITS AND CONDUCTORS TO MAINTAIN ELECTRICAL CONTINUITY OF ELECTRICAL EQUIPMENT SERVING AREAS NOT DEMOLISHED AS REQUIRED. THIS APPLIES TO BOTH POWER AND COMMUNICATIONS CIRCUITS.

9. PANELBOARDS: PANELBOARD SHALL BE MANUFACTURED IN ACCORDANCE WITH NEMA STANDARDS AND BEAR U.L. LABEL. MAIN BUSSES TO BE RECTANGULAR COPPER BARS, SILVER, OR TIN PLATED, SECURELY FASTENED TO INSULATING BASES AND INDEPENDENT OF BRANCH CIRCUIT DEVICES FOR SUPPORT. NEUTRAL BARS TO BE PROVIDED WHERE NEEDED. GROUND BAR SHALL BE PROVIDED. PHASING TO BE SEQUENCE. PANELBOARDS SHALL BE MANUFACTURED BY SQUARE D, CUTLER HAMMER, I.T.E., OR GENERAL ELECTRIC.

10. CIRCUIT BREAKER REQUIREMENTS: OPERATING MECHANISM TO BE TRIP FREE OPERATION ON ABNORMAL OVERLOADS OR SHORT CIRCUITS, QUICK–MAKE, QUICK–BREAK CONTACT MOVEMENT UNDER MANUAL AND AUTOMATIC OPERATION. TRIPPING ELEMENTS TO BE THERMALLY OPERATED INVERSE TIME LIMIT TRIPPING ELEMENTS WITH INSTANTANEOUS MAGNETIC TRIP ELEMENTS. STATIONARY AND MOVING CONTACTS TO BE NON–WELDING SILVER ALLOY. AUTOMATIC TRIPPING TO BE INDICATED BY HANDLE ASSUMING MID–POINT POSITION BETWEEN MANUAL, ON AND OFF POSITIONS. TRIP SETTING TO BE INDICATED ON BREAKER HANDLE. THE OVERLOAD ON ANY ONE POLE SHALL OPEN ALL POLES SIMULTANEOUSLY. HANDLE TIES NOT ACCEPTABLE. BREAKER CONNECTIONS TO PANELBOARD BUSSES TO BE BOLTED.

11. SAFETY SWITCHES: OPERATING MECHANISM TO BE QUICK–MAKE, QUICK–BREAK. ENCLOSURE SHALL BE NEMA 1 FOR INDOOR APPLICATIONS NEMA 3R FOR OUTDOOR APPLICATIONS. ALL SWITCHES TO BE HORSEPOWER RATED. TIME–DELAY FUSES. USE ONLY HEAVY–DUTY TYPE SWITCHES.

12. LIGHTING: FURNISH ALL FIXTURES, LAMPS, AND ACCESSORY EQUIPMENT UNLESS OTHERWISE NOTED. ALL EQUIPMENT TO BEAR U.L. LABEL FOR SERVICE INTENDED. FLUORESCENT EQUIPMENT TO HAVE ELECTRONIC BALLASTS, CBM–ETL CERTIFIED, WITH LOWEST SOUND LEVEL RATING AVAILABLE. BALLASTS SHALL BE AS SPECIFIED ON THE LIGHT FIXTURE SCHEDULE. VERIFY THE EXACT TYPE OR CEILING CONSTRUCTION TO BE INSTALLED. PROVIDE FIXTURES HAVING HOUSINGS, TRIM, ETC., CONSTRUCTED TO PROPERLY FIT IN CEILINGS INSTALLED. COORDINATE INSTALLATION OF LIGHTING FIXTURES WITH CEILING INSTALLATION AND ARCHITECTURAL REFLECTED CEILING PLAN. FIXTURES ARE SCHEDULED ON DRAWINGS.

13. FUSES: PROVIDE FUSES IN ALL FUSED DISCONNECT SWITCHES SIZED IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S RECOMMENDATION UNLESS OTHERWISE SHOWN ON PLAN. FUSES 600 AMPERES AND BELOW TO BE BUSSMANN, U.L. CLASS RK1, TYPE LPS FOR 480–VOLTS, TYPE LPN FOR 208–VOLT CIRCUITS. EQUAL BY SHAWMUT.

14. WIRING FOR HVAC: BRING POWER TO ALL HVAC EQUIPMENT. INSTALL STARTERS WHERE REQUIRED. STARTERS, FIRESTATS AND CONTROL WIRING FURNISHED UNDER MECHANICAL SECTION. (FRACTIONAL STARTERS TO BE SUPPLIED UNDER THIS SECTION).

15. WIRING DEVICES: DEVICES SHALL BE HUBBELL, OF CATALOG NUMBERS BELOW, OR EQUIVALENT BY PASS & SEYMOUR. WALL SWITCHES TO BE QUIET TYPE, BACK–AND–SIDE WIRED, IVORY HANDLE, 120/277 VOLTS A.C., 20–AMPERES. SINGLE–POLE: NO. 1221. DOUBLE–POLE: NO. 1222–1. THREE–POLE: NO. 1223–1. DUPLEX CONVENIENCE OUTLETS SHALL BE BACK–AND–SIDE WIRED, IVORY, 15–AMPERES, 125–VOLTS, 2–POLE, 3–WIRE, GROUNDING TYPE, NO. 5262 WHEN CONNECTED IN PARALLEL WITH MULTIPLE OUTLETS. DEVICES WHICH ARE THE SOLE OUTLET ON A BRANCH CIRCUIT SHALL BE RATED 20A, HUBBELL NO. 5362. GROUND FAULT OUTLETS (GFI) SHALL BE HUBBELL NO. GF–5262 (15A) OR GF–5362 (20A) AS APPLICABLE.

    DEVICE COVERS SHALL BE HIGH IMPACT THERMOPLASTIC.

    DEVICE/COVER COLORS SHALL BE COORDINATED WITH THE ARCHITECT BEFORE PURCHASE.

16. RACEWAY APPLICATION:
    OUTDOORS:

    A. EXPOSED: RIGID STEEL
    B. CONCEALED: RIGID STEEL
    C. UNDERGROUND, SINGLE RUN: RNC.
    D. UNDERGROUND, GROUPED: RNC.
    E. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR–DRIVEN EQUIPMENT): LFMC.
    F. BOXES AND ENCLOSURES: NEMA 250, TYPE 3R
    G. ALL BOXES USED FOR FIRE ALARM DEVICES SHALL BE APPROVED FOR USE BY FIRE ALARM VENDOR.

    INDOORS:

    A. EXPOSED: EMT.
    B. CONCEALED: EMT.
    C. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR–DRIVEN EQUIPMENT): FMC; EXCEPT USE LFMC IN DAMP OR WET LOCATIONS.
    D. DAMP OR WET LOCATIONS: RIGID STEEL CONDUIT.
    E. BOXES AND ENCLOSURES: NEMA 250, TYPE 1.
    F. ALL BOXES USED FOR FIRE ALARM DEVICES SHALL BE APPROVED FOR USE BY FIRE ALARM VENDOR.

    CONDUITS INDOORS IN DRY LOCATIONS, NOT IN GROUND FLOOR SLAB, SHALL BE ELECTRICAL METALLIC TUBING, UNLESS OTHERWISE NOTED. CONDUIT IN SLABS SHALL BE PVC SCHEDULE 40. CONDUITS INSTALLED EXPOSED IN WET LOCATIONS SHALL BE GALVANIZED RIGID STEEL CONDUIT.

    ALL RACEWAY SHALL BE SUPPORTED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

    PULL BOX LOCATION AND QUANTITIES SHALL BE DETERMINED BY THE CONTRACTOR AND SHALL BE INSTALLED AS REQUIRED TO AVOID DAMAGE TO CONDUCTORS DURING THE CONDUCTOR INSTALLATION IN THE CONDUIT SYSTEM. SPACING OF PULL BOXES SHALL BE IN ACCORDANCE WITH CODE REQUIREMENTS AND AS PER RECOMMENDATIONS OF THE CONDUCTOR MANUFACTURER.

    ALL EMPTY RACEWAY SHALL BE PROVIDED WITH A PULL STRING FOR FUTURE USE.

17. GENERAL WIRING METHODS GENERALLY, UNLESS OTHERWISE INDICATED, WIRING FOR ALL SYSTEMS CALLED FOR IN THESE SPECIFICATIONS AND SHOWN ON DRAWINGS SHALL CONSIST OF INSULATED COPPER CONDUCTORS, THHN/THWN INSULATION, STRANDED.

    ALL BRANCH CIRCUIT WIRING SHALL BE AWG #12 UNLESS OTHERWISE NOTED. FIXTURE WHIPS (MAXIMUM SIX (6) FT LENGTH) SHALL BE #14 THHN. ALL WIRING SHALL BE COLOR CODED TO COMPLY WITH NEC AND PANELS SHALL PROVIDE IDENTIFICATION AS TO CONDUCTOR COLOR CODING.

    TYPE MC CABLE (WITH SEPARATE #12 GROUND CONDUCTOR) SHALL BE ALLOWED FOR ALL CONCEALED (ABOVE CEILING AND IN WALLS) BRANCH CIRCUIT CABLING FOR THIS PROJECT. WHERE BRANCH CIRCUIT IS EXPOSED, INSTALL IN THNN/THWN CONDUCTORS IN EMT CONDUIT.

    ALL JUNCTION AND PULL BOXES SHALL HAVE THE CIRCUITS CONTAINED WITHIN THE BOX IDENTIFIED ON THE COVER BY PANEL NAME AND CIRCUIT NUMBER.

    PROVIDE SEPARATE GREEN GROUND CONDUCTOR IN ALL CIRCUITS.

18. FRACTIONAL HORSEPOWER STARTERS: STARTERS FOR FRACTIONAL HORSEPOWER MOTORS SHALL BE MANUAL TYPE WITH OVERCURRENT PROTECTION. THERMAL ELEMENTS SHALL BE SIZED IN ACCORDANCE WITH NAMEPLATE RATINGS OF THE MOTOR. ENCLOSURE SHALL BE NEMA 1/NEMA 3R AS APPLICABLE. GE TYPE CR10; SQUARE D CLASS 2510 OR ALLEN BRADLEY BULLETIN 600.

19. VISIT JOB SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH EQUIPMENT TO BE LOCATED PRIOR TO BIDDING JOB.

20. IDENTIFY ALL ELECTRICAL EQUIPMENT (PANELS,ETC.) AND CONTROLS BY STENCILED PLASTIC TAGS. IDENTIFY ALL JUNCTION BOXES CONTAINING CONDUCTORS WITH BRANCH CIRCUIT NUMBERS AND PANEL NAMES.

21. PUT INTO OPERATION AND TEST ALL ELECTRICAL EQUIPMENT.

22. PROVIDE COMPLETE INSTALLATION, INCLUDING ALL MINOR ITEMS.

23. PROVIDE TYPEWRITTEN CIRCUIT DIRECTORIES IN ALL PANELBOARDS.

24. ELECTRICAL SERVICE: THE EXISTING MAIN ELECTRICAL SERVICE IS NOT BEING MODIFIED DURING THIS PROJECT.

25. FIRE ALARM: CONTRACTOR SHALL PROVIDE A MODIFY THE EXISTING NOTIFIER FIRE ALARM SYSTEM FOR THIS PROJECT. PROVIDE DEVICES AS SHOWN ON THE CONTRACT DOCUMENTS. THE NEW DEVICES SHALL BE U.L. LISTED FOR USE WITH THE EXISTING FIRE ALARM SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING THE FOLLOWING INFORMATION TO THE FIRE MARSHAL AND PAY ALL REQUIRED FEES:

    a. PRODUCT DATA FOR SYSTEM COMPONENTS. INCLUDE LIST OF MATERIALS.
    b. BATTERY CALCULATIONS FOR EVERY PANEL AND REMOTE POWER SUPPLY.
    c. POWER CALCULATIONS INDICATING EXACTLY WHAT DEVICES (AND HOW MUCH CURRENT THEY DRAW) ARE ON EACH NOTIFICATION APPLIANCE CIRCUIT. INCLUDE A VOLTAGE DROP TABLE IN THE SUBMITTAL TO ENSURE MAXIMUM DISTANCES ARE NOT EXCEEDED.
    d. A LIST OF LABELS FOR EVERY ADDRESSABLE DEVICE IN THE SYSTEM FOR APPROVAL BY THE OWNER.
    e. A WIRE LEGEND DESCRIBING THE MANUFACTURER'S RECOMMENDED CABLES AND CABLE CHARACTERISTICS.
    f. PROJECT SPECIFIC SYSTEM SEQUENCE OF OPERATION DESCRIPTION.
    g. RISER DIAGRAM SHOWING ALL PANEL INTERCONNECTIONS AND THE QUANTITY OF DEVICES ON EACH CIRCUIT.
    h. FLOOR PLANS SHOWING THE LOCATIONS OF ALL DEVICES, THEIR ADDRESSES AND/OR CIRCUIT DESIGNATIONS.
    i. LOCATIONS OF ALL CONTROL PANELS, VOICE EVACUATION PANELS, AND REMOTE POWER SUPPLIES.
    j. CONTROL PANEL CIRCUIT BOARD WIRING DIAGRAMS.
    k. PERIPHERAL DEVICE WIRING DIAGRAMS. SHOW ALL TERMINALS AND INTERCONNECTIONS.

26. DEVIATION FROM THESE SPECIFICATIONS SHALL BE APPROVED PRIOR TO BIDDING THE WORK.

    BEFORE PURCHASE OF ANY MATERIALS PROVIDE SUBMITTALS ON THE FOLLOWING EQUIPMENT FOR THE ARCHITECT'S REVIEW AND COMMENT:

    PANELS
    CIRCUIT BREAKERS
    LIGHTING FIXTURES
    DEVICES
    DIMMING SYSTEM

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Reg. No. 25896
06-24-22

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CN 22174

ISSUE DATE
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ELECTRICAL
SPECIFICATIONS

E0.02

SHEET SIZE 30"x 42"
M:\3000 SERIES\3016\3016–ELEC\3016_E0.02_ ELEC SPECIFICATIONS
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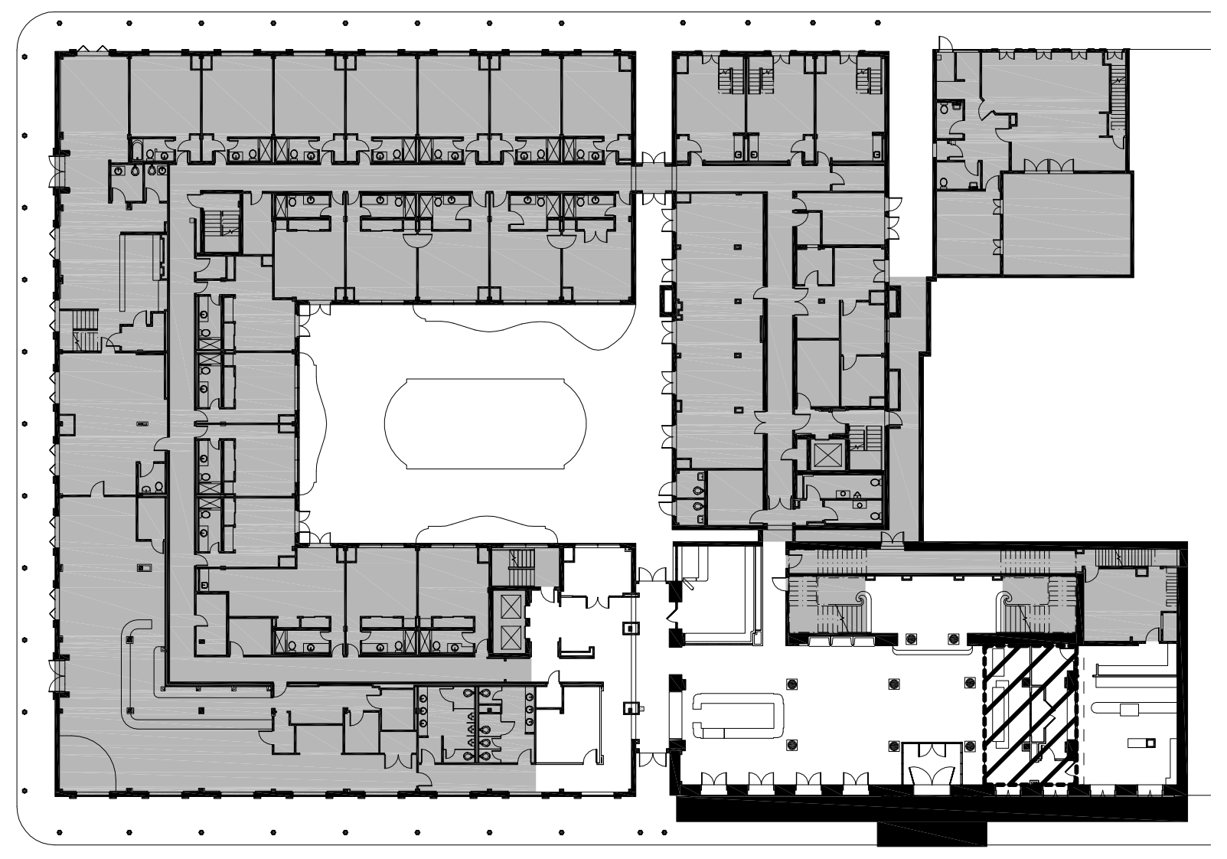
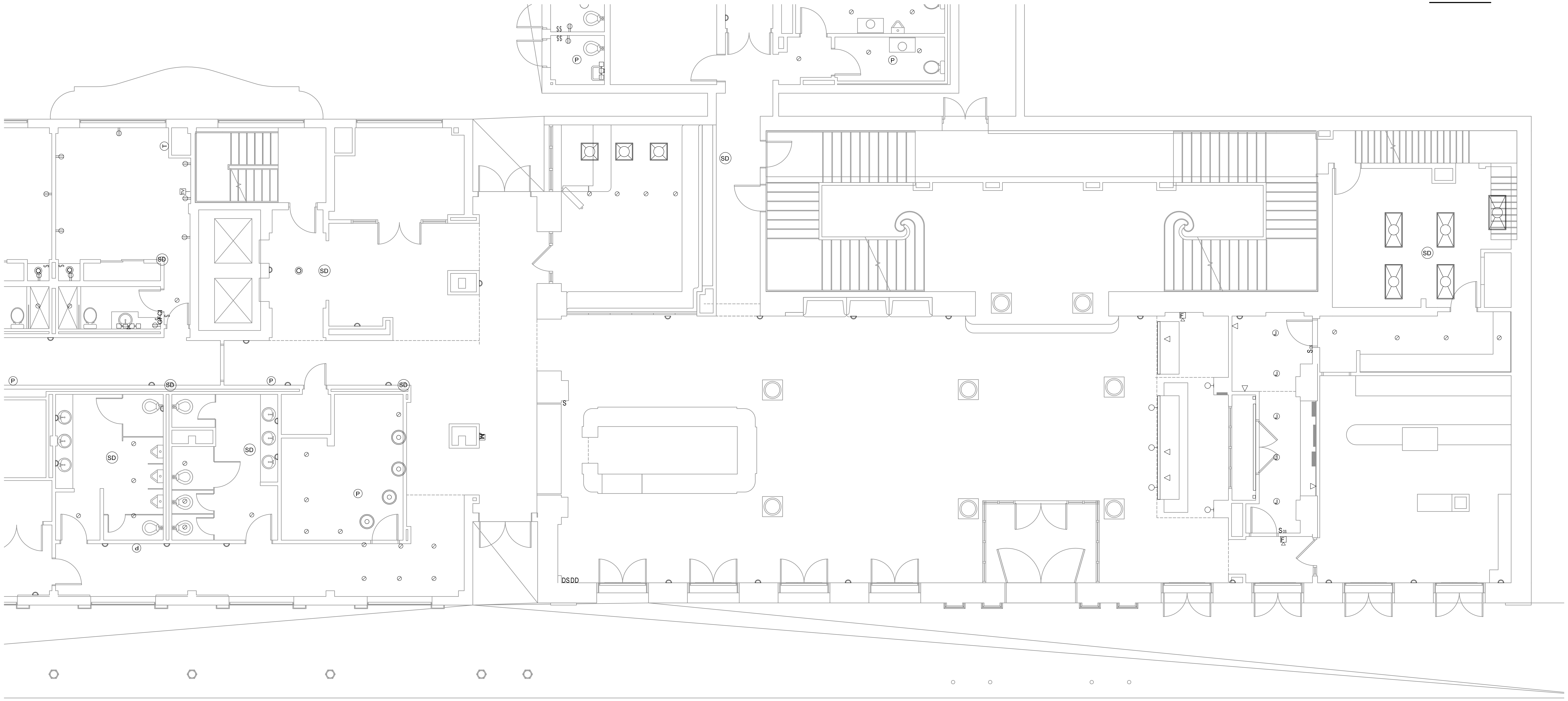


KEY PLAN



① ELECTRICAL FLOOR PLAN - FIRST FLOOR
3/16" = 1'-0"

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ELECTRICAL ENGINEER
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ELECTRICAL
FLOOR PLAN -
FIRST FLOOR

E1.01

SHEET SIZE 30"x 42"
M:\3000 SERIES\3016\3016-ELEC\3016_E1.01_ELEC FLOOR PLAN - FIRST FL
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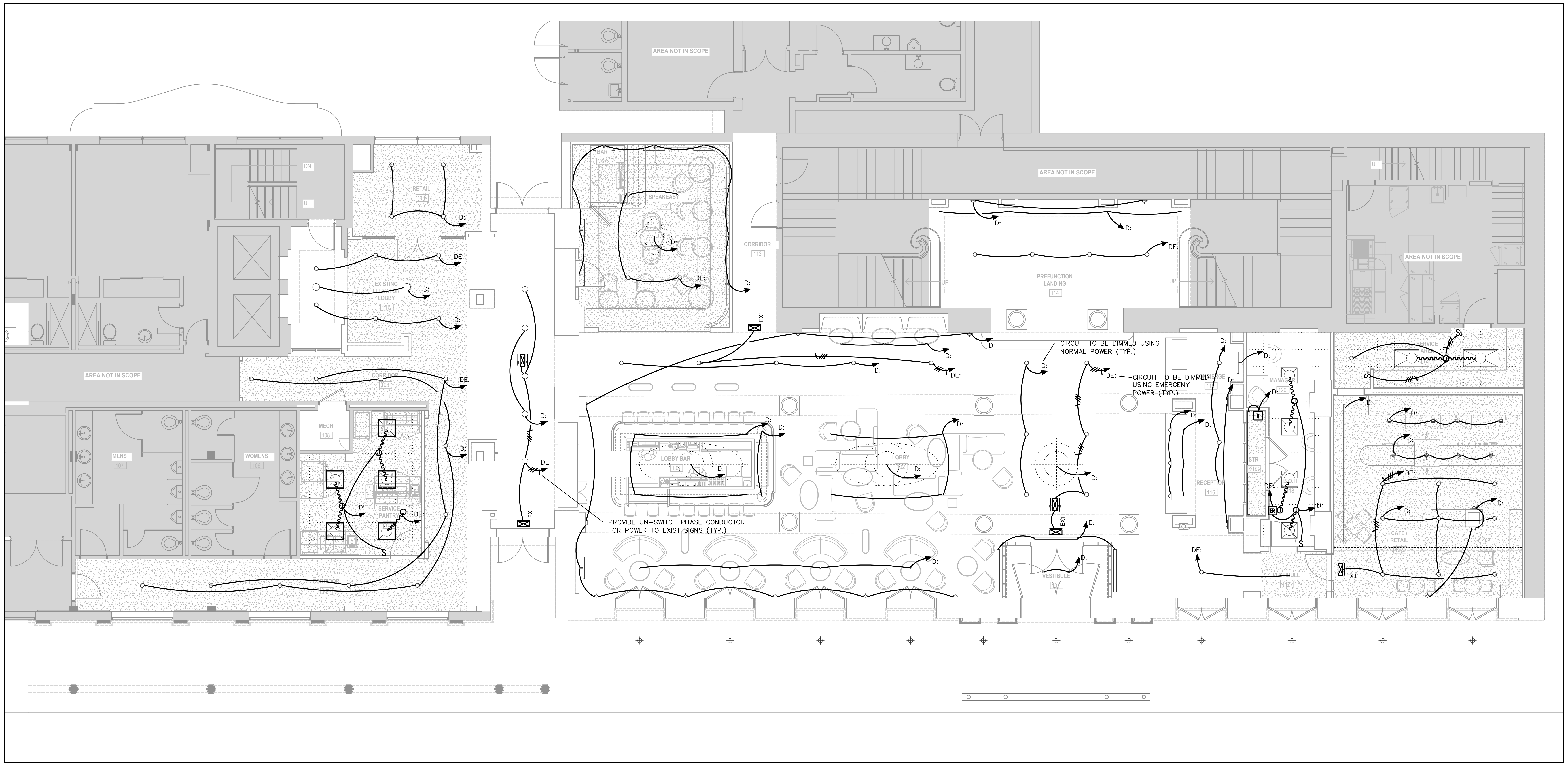

CIRCUIT TO BE DIMMED USING NORMAL POWER (TYP.)

CIRCUIT TO BE DIMMED USING EMERGENY POWER (TYP.)

PROVIDE UN–SWITCH PHASE CONDUCTOR FOR POWER TO EXIST SIGNS (TYP.)

1 LIGHTING PLAN - OVERALL

SCALE: 3/16" = 1'-0"

0 4' 8'

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LIGHTING PLAN -
OVERALL

E1.02

SHEET SIZE 30"x 42"
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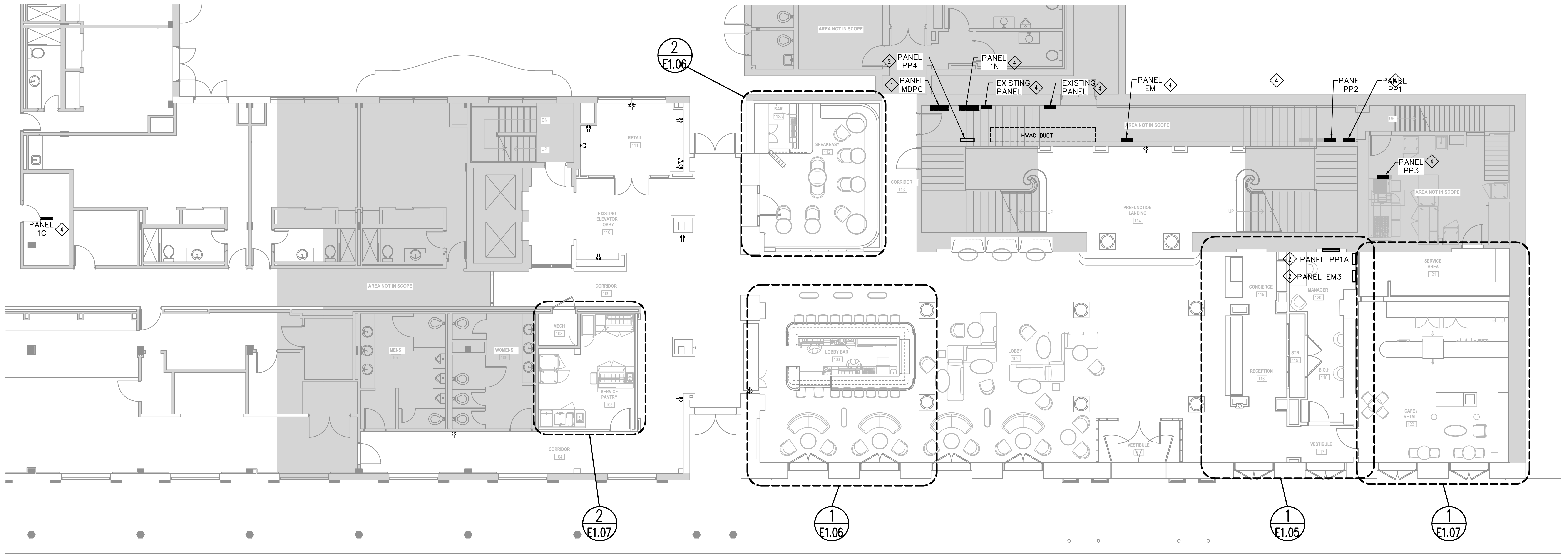
SPECIFIC NOTES

1. REPLACE EXISTING PANEL MDPC WITH NEW PANEL. RECONNECT ALL EXISTING FEEDERS TO NEW PANEL AS REQUIRED. SEE PANEL SCHEDULE AND RISER DIAGRAM FOR MORE INFORMATION.
2. PROVIDE NEW PANEL TO SERVE LOBBY BAR AND SPEAKEASY. SEE PANEL SCHEDULE AND RISER DIAGRAM FOR MORE INFORMATION.
3. PROVIDE NEW PANEL TO SERVE LOBBY. FRONT DESK AND CAFÉ AREA. SEE PANEL SCHEDULE AND RISER DIAGRAM FOR MORE INFORMATION.
4. EXISTING PANEL TO REMAIN.



1 POWER PLAN - OVERALL
SCALE: 1/8" = 1'-0"

0 8' 16'

SHEET SIZE 30"x 42"
M:\3000 SERIES\3016\3016-ELEC\3016_E1.03_POWER PLAN - FIRST FLOOR OVERALL
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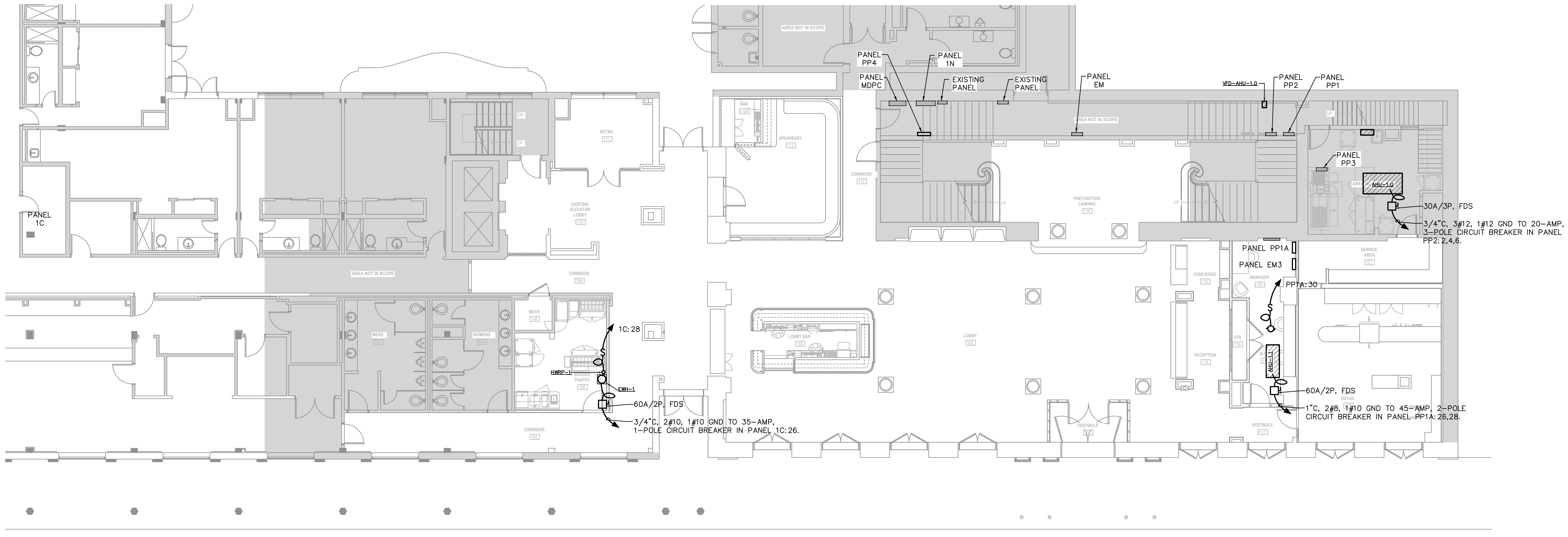
POWER PLAN -
OVERALL

E1.03



1 MECHANICAL POWER PLAN - OVERALL

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

0 8' 16'

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MECHANICAL POWER
PLAN - OVERALL

E1.04

SHEET SIZE 30"x 42"
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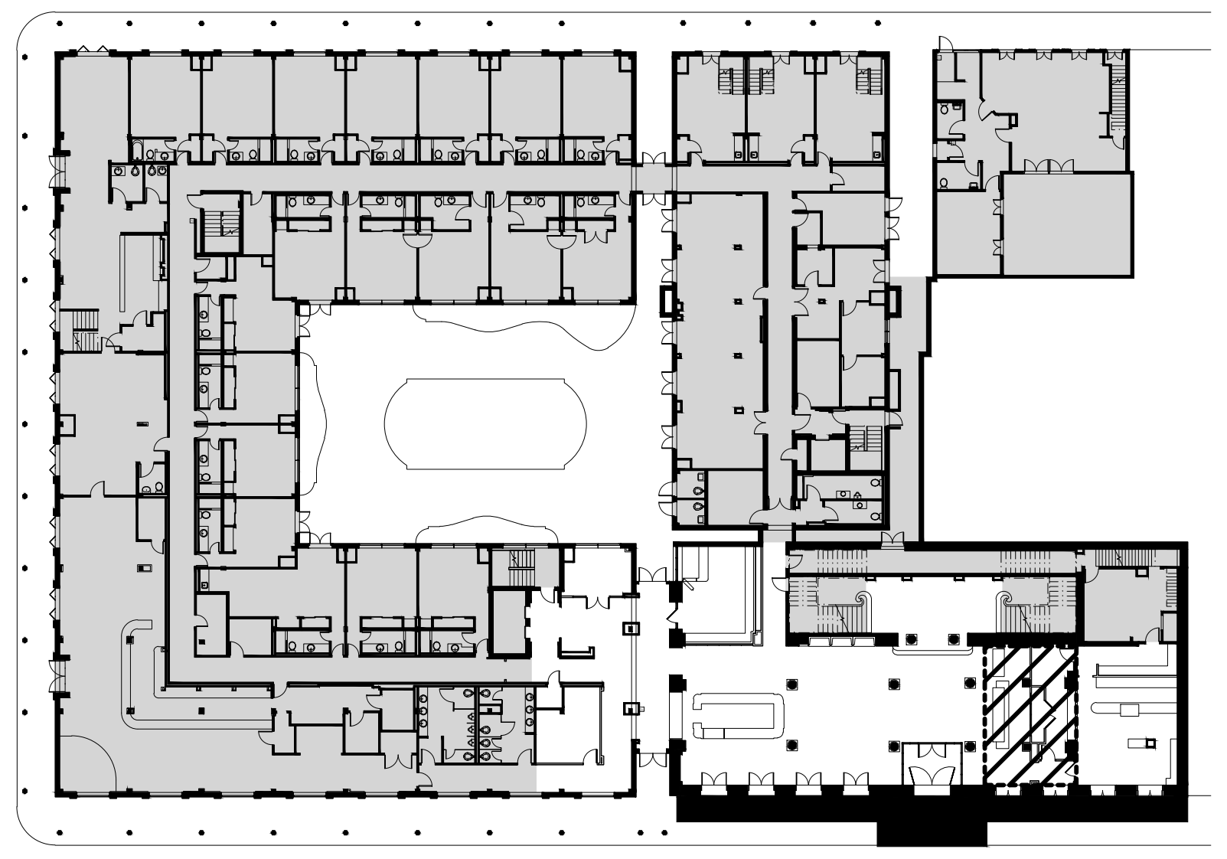
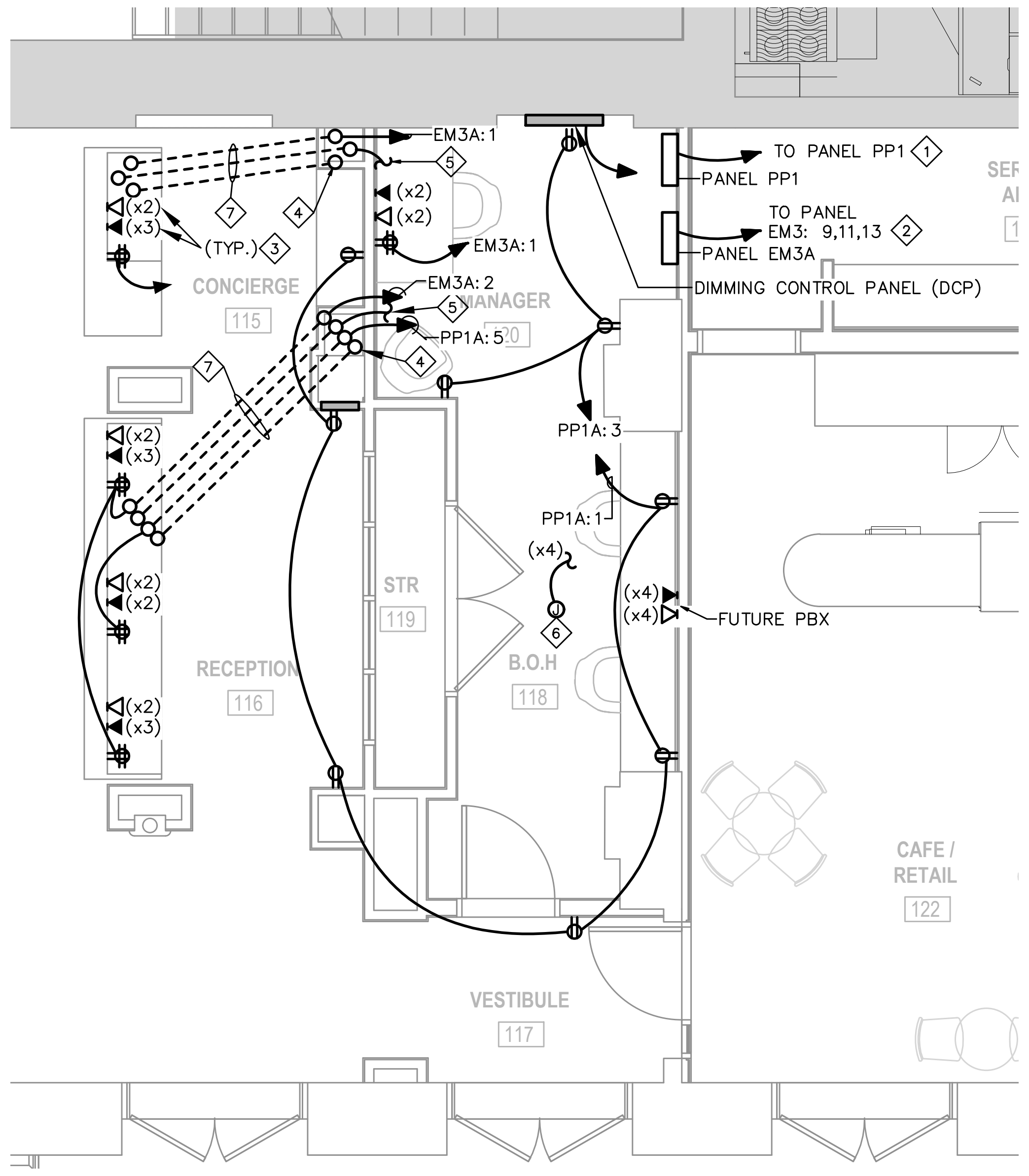


KEY PLAN



① ENLARGED POWER PLAN - RECEPTION - PHASE I
1/4" = 1'-0"

GENERAL NOTES:

1. COORDINATE CONDUIT STUB-UP LOCATIONS UNDER RECEPTION AND CONCIERGE DESK WITH CASEWORK FABRICATION. CONDUITS SHALL BE ACCESSIBLE.
2. COORDINATE WIRING DEVICE LOCATIONS WITH CASEWORK FABRICATION. DEVICES SHALL BE ACCESSIBLE.
3. COORDINATE CONDUIT STUB-UP LOCATIONS IN STORAGE 119 WITH STOREFRONT WINDOW INSTALLATION. CONDUITS SHALL NOT BE VISIBLE FROM PUBLIC SIDE OF STOREFRONT.

SPECIFIC NOTES:

1 PROVIDE 1'C, 4#6, 1#8 GND FOR SUBFEED FROM EXISTING SPARE 60-AMP 3-POLE CIRCUIT BREAKER IN PANEL PP1.

2 PROVIDE 1'C, 4#8, 1#10 GND FOR SUBFEED FROM NEW 40-AMP 3-POLE CIRCUIT BREAKER IN PANEL EM3.

3 SUB SCRIPT IDENTIFIES THE NUMBER OF DEVICE JACKS TO BE PROVIDED AT THIS LOCATION AND THE NUMBER OF CAT6 CABLES TO BE PROVIDED FROM THIS LOCATION TO MDF OR TELEPHONE SERVICE AS APPROPRIATE.

4 PROVIDE SPARE 1-1/2' CONDUIT FOR POWER AND CONTROL TO LIGHTING MOUNTED WITHIN DESK.

5 EXTEND DATA AND TELEPHONE CABLES TO MDF AND TELEPHONE SERVICE AS APPROPRIATE.

6 PROVIDE FOUR CAT6 CABLES FROM THIS LOCATION TO MDF. EACH CABLE TO HAVE 25' OF SLACK AT THIS LOCATIONS, COILED, LABLED AND STORED ABOVE THE CEILING.

7 SAW CUT AND TRENCH FLOOR FOR INSTALLATION OF IN-SLAB CONDUIT.

SHEET SIZE 30"x 42"
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ENLARGED
ELECTRICAL
PLAN - FIRST
FLOOR - PHASE I

E1.05

ELECTRICAL SCHEDULE

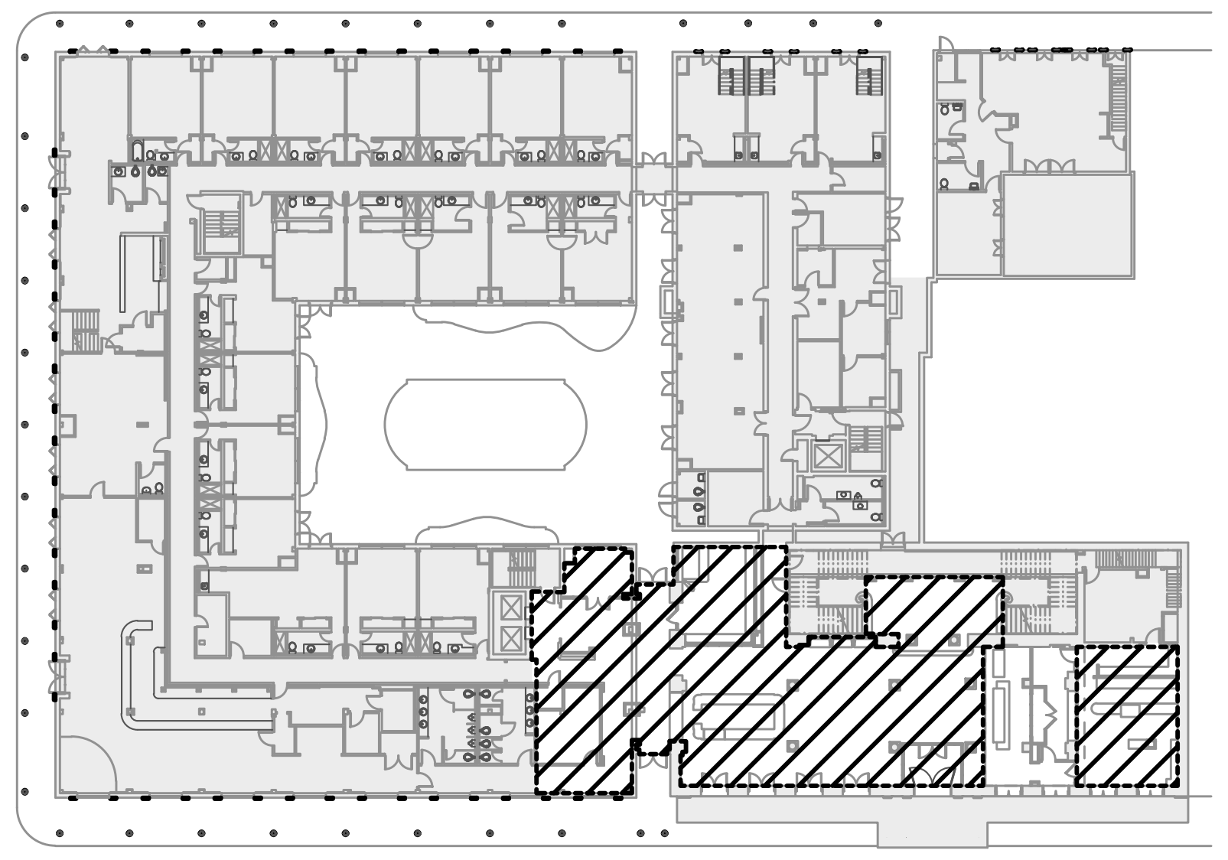
ItemNo	Quantity	Unit	Category	Voltage	Phase	Amps	Cycle	Hp	Kw	ConnectionType	NEMA	ElectricalConnectionHeight	Electrical Remarks
5	1	ea	Soda Ice & Beverage Dispenser, In-Counter	120	1	2.8	60			Cord & Plug		@12"AFF	
6	1	ea	Iced Tea Brewer	120	1	14.4	60		1.73	Cord & Plug	5-15P	@48"AFF	
8	1	ea	Coffee Brewer	120/240	1	29.0	60		6.89	Cord Only		@48"AFF	
9	1	ea	Undercounter Refrigerator	115	1	2	60	1/6		Cord & Plug	5-15P	@12"AFF	
12	1	ea	Sandwich / Salad Preparation Refrigerator	115	1	5.8	60	1/3		Cord & Plug	5-15P	@12"AFF	
13	1	ea	Heat Lamp	120	1		60		1.32	Direct		@66"AFF	
15	1	ea	Heated Holding Cabinet	120	1	16.0	60		1.9	Cord & Plug	5-20P	@96"AFF	
16	1	ea	Reach-In Refrigerator	115	1	3.8	60	1/4		Cord & Plug	5-15P	@84"AFF	
17	1	ea	Reach-In Freezer	115	1	6	60	1/2		Cord & Plug	5-15P	@84"AFF	
18	1	ea	Multi-Cook Oven	208-240	3	32.0-36.0	60		10.6-13.9	Cord & Plug	15-50	@36"AFF	
20	1	ea	Sandwich / Salad Preparation Refrigerator	115	1	5.8	60	1/3		Cord & Plug	5-15P	@12"AFF	
26	1	ea	Back Bar Cabinet, Refrigerated	120	1	2.75	60	1/8		Cord & Plug	5-15P	@12"AFF	
31	1	ea	Glasswasher, Undercounter / Underbar	115	1	16.0	60	1		Direct		@12"AFF	
36	1	ea	Back Bar Cabinet, Refrigerated	115	1	5.8	60	1/3		Cord & Plug	5-15P	@12"AFF	
37	1	ea	POS	120	1	10.0	60			Cord & Plug		@24"AFF	
51	1	ea	Back Bar Cabinet, Refrigerated	120	1	2.75	60	1/8		Cord & Plug	5-15P	@12"AFF	
55	1	ea	POS	120	1	10.0	60			Cord & Plug		@24"AFF	
56	1	ea	Refrigerated Display Case, Slide In Counter	110-120	1	9.76	60		.762	Cord & Plug	5-15P	@8"AFF	
57	1	ea	Espresso Cappuccino Machine	208-240	1		60		7.8			@24"AFF	
58	1	ea	Coffee Grinder	110	1		60		1.44			@24"AFF	
60	1	ea	Ice Maker with Bin, Cube-Style	115	1	7	60	1/3			5-15P	@12"AFF	
65	2	ea	Blender, Bar	120	1	13.0	60	3-1/2				@48"AFF	
66	1	ea	Back Bar Cabinet, Refrigerated	120	1	2.75	60	1/8		Cord & Plug	5-15P	@48"AFF	
67	1	ea	Induction Soup Kettle			7			.8	Cord & Plug	5-15P	@48"AFF	
68	2	ea	Rapid Cook Oven	208/240	1	30.0	60		6.2	Cord & Plug	6-30P	@48"AFF	
69	1	ea	Back Bar Cabinet, Refrigerated	120	1	2.75	60	1/8		Cord & Plug	5-15P	@12"AFF	
70	1	ea	Coffee Brewer	120/240	1	29.0	60		6.89			@48"AFF	
CO2			Convenience Outlet	120	1	20.0	60			Cord & Plug		@24"AFF	
CO3			Convenience Outlet	120	1	20.0	60			Cord & Plug		@39"AFF	
CO4			Convenience Outlet	120	1	20.0	60			Cord & Plug		@48"AFF	

GENERAL NOTES

1. THE CONTRACTOR SHALL REVIEW THE KITCHEN EQUIPMENT DRAWING AND FOLLOW THE ROUGH–IN NOTES FOR EXACT LOCATION FOR RECEPTACLES AND POWER CONNECTIONS.

SPECIFIC NOTES

- ◇1 PROVIDE NEMA 5–15R RECEPTACLE FOR EQUIPMENT AT BAR. ROUTE 2#12, 1#12 GND IN 1/2"CONDUIT IN SLAB BACK TO NEW WALL ASSOCIATED SPEAKEASY AND THEN UP WALL TO ABOVE CEILING AND THEN BACK TO 20 AMP, 1 POLE, C/B IN DESIGNATED PANEL.
- ◇2 PROVIDE NEMA 5–15R RECEPTACLE EQUIPMENT AND ROUTE 2#12, 1#12 GND IN 1/2"CONDUIT BACK TO 15 AMP, 1 POLE, C/B IN DESIGNATED PANEL. VERIFY MOUNTING HEIGHT OF RECEPTACLE.
- ◇3 PROVIDE NEAM 14–30R FOR COFFEE BREWER AND ROUTE 2#10,1#10 NEUTRAL, 1#10 GND IN 3/4"CONDUIT BACKTO 30 AMP, 2 POLE, C/B IN DESIGNATED PANEL. CONFIRM CONNECTION TO EQUIPMENT AND PROVIDE PLUG IF REQUIRED.
- ◇4 PROVIDE NEMA 6–30R RECEPTACLE FOR RAPID COOK OVEN AND ROUTE 2#8, 1#10 GND IN 1"CONDUIT BACK TO 30 AMP, 2 POLE, C/B IN DESIGNATED PANEL.
- ◇5 PROVIDE NEMA 15–50R RECEPTACLE FOR MULTI–COOK OVEN AND ROUTE 3#6, 1#8 GND IN 1"CONDUIT BACK TO 50 AMP, 3 POLE, C/B IN DESIGNATED PANEL.
- ◇6 PROVIDE HARDWIRED CONNECTION FOR HEAT LAMP AND ROUTE 2#12, 1#12 GND IN 1/2"CONDUIT BACK TO 20 AMP, 1 POLE, C/B IN DESIGNATED PANEL.
- ◇7 PROVIDE NEMA 5–20R RECEPTACLE FOR HEATED HOLDING CABINET AND ROUTE 2#12, 1#12 GND IN 1/2"CONDUIT BACK TO 20 AMP, 1 POLE, C/B IN DESIGNATED PANEL.
- ◇8 PROVIDE HARD–WIRED CONNECTION FOR GLASSWASHER, UNDERCOUNTER / UNDERBAR. ROUTE CONDUIT IN SLAB BACK TO NEW WALL ASSOCIATED SPEAKEASY AND THEN UP WALL TO ABOVE CEILING AND THEN BACK TO 20 AMP, 1 POLE, C/B IN DESIGNATED PANEL.
- ◇9 PROVIDE NEMA 6–50R RECEPTACLE FOR ESSPRESSO CAPPUCINO MACHINE AND ROUTE 2#8, 1#10 GND IN 1" CONDUIT BACK TO 50 AMP, 2 POLE, C/B IN DESIGNATED PANEL. VERIFY MOUNTING HEIGHT OF RECEPTACLE.
- ◇10 PROVIDE NEMA 5–15R RECEPTACLE FOR EQUIPMENT AT BAR. ROUTE 2#12, 1#12 GND IN 1/2"CONDUIT IN SLAB BACK TO NEW WALL ASSOCIATED SPEAKEASY AND THEN UP WALL TO ABOVE CEILING AND THEN BACK TO 15 AMP, 1 POLE, C/B IN DESIGNATED PANEL.
- ◇11 PROVIDE COUNTERTOP TWO SIDED WATERPROOF POP UP OUTLET HUBBELL MODEL RCT200W OR EQUAL. COORDINATE LOCATIONS WITH ARCHITECT AND INSTALLATION WITH COUNTER TOP FABRICATOR.



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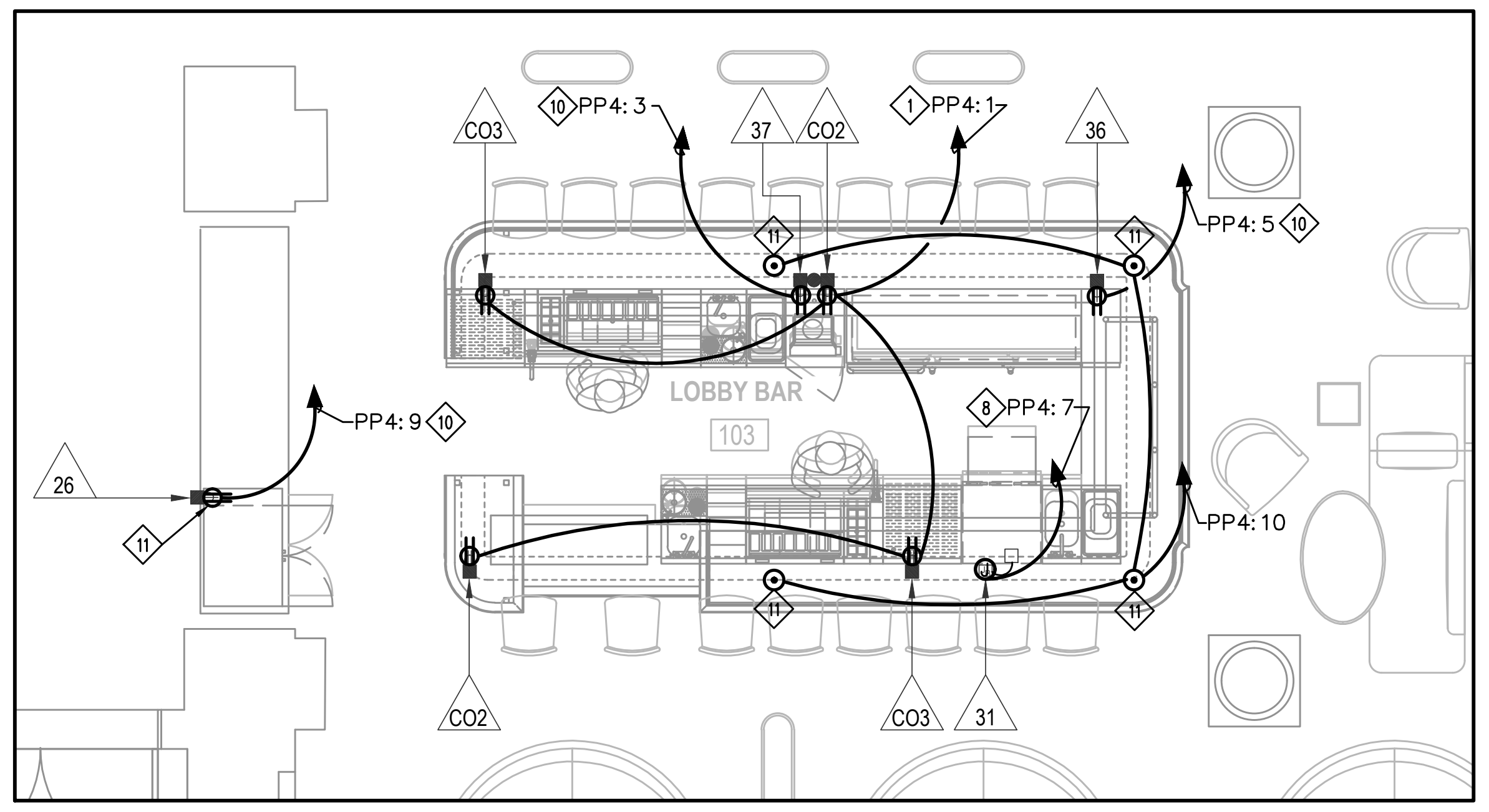
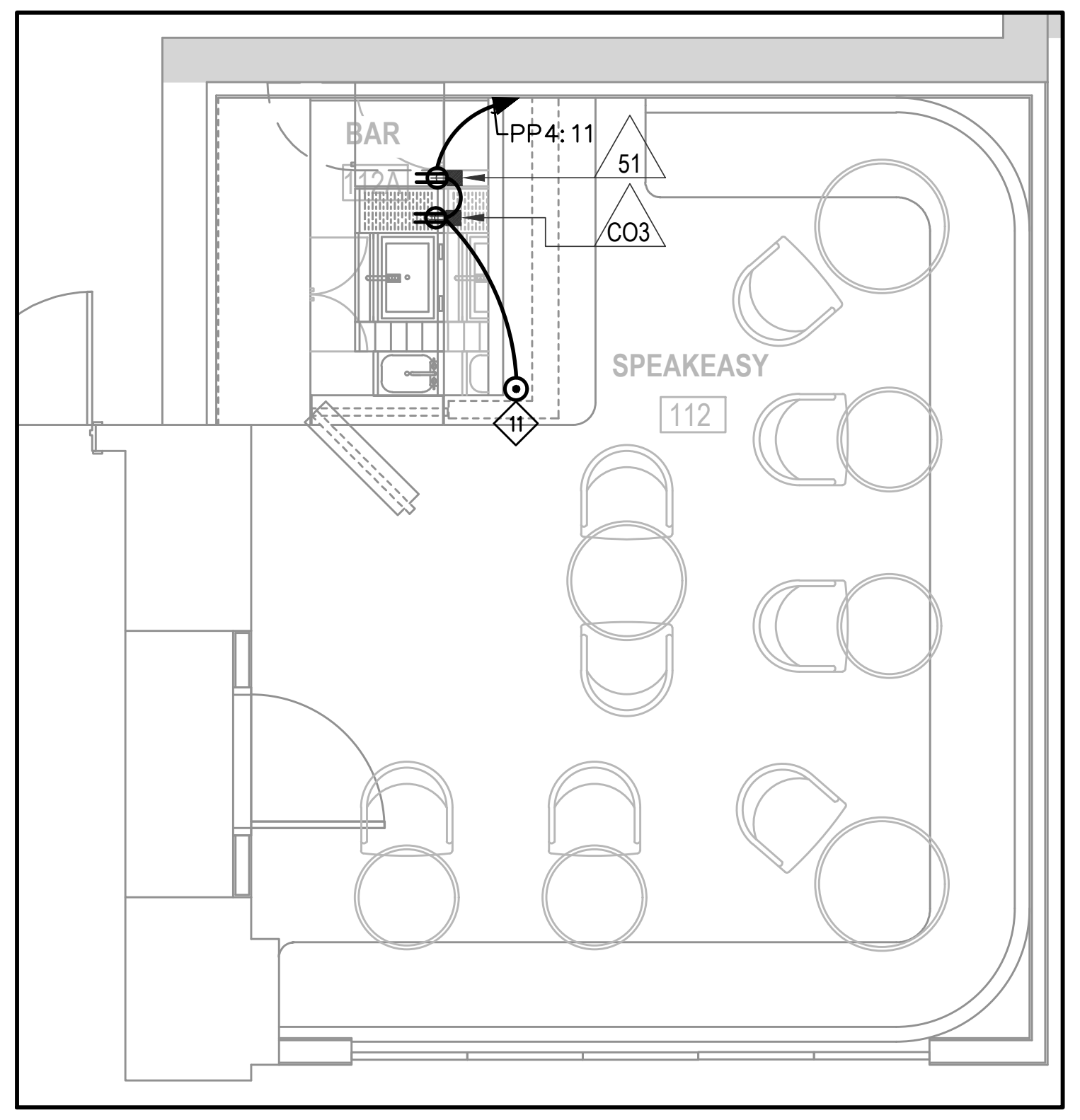


1 ENLARGED POWER PLAN - LOBBY BAR

SCALE: 1/4" = 1'-0"

0 4' 8'



2 ENLARGED POWER PLAN - SPEAKEASY

SCALE: 1/4" = 1'-0"

0 4' 8'

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ENLRGD ELEC PLAN
LOBBY BAR &
SPEAKEASY
PHASE II

E1.06

SHEET SIZE 30"x 42"
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