

ELECTRICAL SPECIFICATIONS (AS APPLICABLE)

DIVISION 16 - ELECTRICAL
SECTION 16000
BASIC ELECTRICAL REQUIREMENTS
A. NOTE
1. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND ALL OTHER SPECIFICATION SECTIONS, APPLY TO THIS AND THE OTHER SECTIONS OF DIVISION 16.
2. THE CONTRACTOR FOR THIS DIVISION OF WORK IS REQUIRED TO READ THE SPECIFICATIONS AND REVIEW DRAWINGS FOR ALL DIVISIONS OF WORK AND IS RESPONSIBLE FOR THE COORDINATION OF THIS WORK AND THE WORK OF HIS SUBCONTRACTORS WITH ALL DIVISIONS OF WORK. IT IS THIS CONTRACTOR'S RESPONSIBILITY TO PROVIDE HIS SUBCONTRACTORS WITH A COMPLETE SET OF BID DOCUMENTS.
3. THIS ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE COMPLETION AND INSPECTION OF THIS WORK TO COMPLY WITH TENANT/ARCHITECT'S SCHEDULE AND THE PROJECT COMPLETION DATE.
4. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTAL OF BID TO DETERMINE CONDITIONS AFFECTING THE WORK. ANY DISCREPANCIES OR ITEMS WHICH ARE NOT COVERED IN THE BID DOCUMENTS OR ANY PROPOSED SUBSTITUTIONS SHALL BE LISTED SEPARATELY AND QUALIFIED IN THE CONTRACTORS BID. SUBMITTAL OF BID SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS AND ANY MODIFICATIONS WHICH ARE REQUIRED TO MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. FAILURE TO VISIT THE SITE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY IN PERFORMANCE OF HIS WORK.
5. REFER TO RESPONSIBILITY SCHEDULE FOR INFORMATION IN REGARD TO RESPONSIBILITY OF WORK OR ITEMS WHICH MAY AFFECT THE BID.
B. GENERAL REQUIREMENTS
1. THIS CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS, CALLED FOR IN THE SPECIFICATIONS, AND AS REQUIRED BY JOB CONDITIONS. ALL WORK NOT SPECIFICALLY NOTED AS BEING BY THE LANDLORD OR ARCHITECTS SHALL BE PROVIDED BY THIS CONTRACTOR. CLOSELY COORDINATE THE ENTIRE INSTALLATION WITH THE LANDLORD AND ARCHITECTS, AS REQUIRED.
2. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER AND ANY MATERIAL, OR LABOR CALLED FOR IN ONE SHALL BE FURNISHED AND INSTALLED EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH ANY MATERIAL OR LABOR WHICH IS NEITHER SHOWN ON THE DRAWINGS NOR CALLED FOR IN THE SPECIFICATIONS, BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK, AND WHICH IS USUALLY INCLUDED IN WORK OF SIMILAR CHARACTER, SHALL BE FURNISHED AND INSTALLED AS PART OF THE CONTRACT.
3. WHERE THE DRAWINGS OR SPECIFICATIONS CALL FOR ITEMS WHICH EXCEED CODES OR THE LANDLORD'S TENANT CRITERIA, THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING THE SYSTEM WITH THE MORE STRINGENT REQUIREMENTS AS DESIGNED AND DESCRIBED ON THESE DRAWINGS, UNLESS SPECIFICALLY NOTED OTHERWISE.
4. ALL WORK IN THIS SECTION SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING, AND REPAIRING. THIS CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUFFICIENT SERVICE ACCESS TO ALL EQUIPMENT.
5. ALL WORK SHALL BE PERFORMED IN A NEAT PROFESSIONAL MANNER USING GOOD CONSTRUCTION PRACTICES.
6. UNLESS SPECIFICALLY NOTED OTHERWISE, MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW, UNDERWRITERS LABORATORIES LISTED AND LABELED AND SIZED IN CONFORMITY WITH REQUIREMENTS OF STATE AND LOCAL CODES, WHICHEVER IS MORE STRINGENT.
7. THIS CONTRACTOR SHALL DO ALL CUTTING, CHASING AND CHANNELING REQUIRED FOR ANY WORK UNDER THIS DIVISION. CUTTING SHALL HAVE PRIOR APPROVAL BY THE ARCHITECTS AND THE LANDLORD. ALL PATCHING SHALL BE BY G.C. AND SHALL MATCH THE SURROUNDING SURFACES.
8. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL ELECTRICAL CONNECTIONS AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.
C. TEMPORARY LIGHT AND POWER
1. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL TEMPORARY WIRING AND RELATED GROUND FAULT INTERRUPTION PROTECTION FOR LIGHT AND POWER FOR ALL CONTRACTORS AND SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY WIRING.
2. THE GENERAL CONTRACTOR SETS UP ALL ELECTRICAL UTILITIES IN THE NAME OF THE TENANT. TENANT PAYS FOR ALL UTILITIES THROUGHOUT CONSTRUCTION.
D. CODES
1. ALL WORK SHALL CONFORM TO THE LANDLORD'S CRITERIA, THE STATE'S, COUNTY'S, CITY'S AND LOCAL CODES AND ORDINANCES, SAFETY AND HEALTH CODES, NFPA CODES, ENERGY CODES AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. THIS CONTRACTOR SHALL INQUIRE INTO AND COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. THIS CONTRACTOR SHALL INCLUDE ANY CHANGES REQUIRED BY CODES IN THE BID AND IF THESE CHANGES ARE NOT INCLUDED IN THE BID, THEY MUST BE QUALIFIED AS A SEPARATE LINE ITEM IN THE BID. AFTER CONTRACT IS AWARDED, CHANGE ORDERS FOR INCREASED COSTS DUE TO CODE ISSUES WILL NOT BE ACCEPTED BY OWNER, UNLESS ALLOWANCES HAVE PREVIOUSLY BEEN AGREED UPON.
E. LICENSES, PERMITS, INSPECTIONS & FEES
1. THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LICENSES, PERMITS, INSPECTIONS, AND FEES REQUIRED OR RELATED TO HIS WORK.
2. FURNISH TO ARCHITECTS ALL CERTIFICATES OF INSPECTION AND FINAL INSPECTION APPROVAL AT COMPLETION OF PROJECT.
F. TRADE NAMES, MANUFACTURERS AND SHOP DRAWINGS
1. WHERE TRADE NAMES AND MANUFACTURERS ARE USED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THE EXACT EQUIPMENT SHALL BE USED AS A MINIMUM FOR THE BASE BID. MANUFACTURERS CONSIDERED AS AN EQUAL OR BETTER IN ALL ASPECTS TO THAT SPECIFIED WILL BE SUBJECT TO APPROVAL IN WRITING BY ARCHITECTS/ENGINEERS THROUGH SHOP DRAWING SUBMITTAL PROCESS FOR ACCEPTANCE PRIOR TO INSTALLATION. THE USE OF ANY UNAUTHORIZED EQUIPMENT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
2. GENERAL CONTRACTOR SHALL SUBMIT ONLY SUBSTITUTION REQUESTS TO ARCHITECTS/ENGINEERS FOR APPROVAL. SUBMISSIONS SHALL BE MADE EARLY ENOUGH IN PROJECT TO ALLOW FOUR (4) WORKING DAYS FOR ARCHITECTS/ENGINEERS REVIEW WITHOUT CAUSING DELAYS OR CONFLICTS TO THE JOB'S PROGRESS. SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF THE GENERAL CONTRACTOR AND THE SUB-CONTRACTOR SHOWING THAT HE HAS REVIEWED AND CONFIRMED THAT THE SUBMITTALS ARE IN CONFORMANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS OR INDICATE WHERE EXCEPTIONS HAVE BEEN TAKEN.
G. GUARANTEE
1. THE EQUIPMENT MANUFACTURER SHALL PROVIDE A 12 MONTH GUARANTEE TO TENANT FROM THE DATE OF ACCEPTANCE. THIS CONTRACTOR SHALL WARRANTY THE INSTALLATION OF THIS EQUIPMENT AND WILL BE RESPONSIBLE FOR ANY DAMAGE AND/OR MALFUNCTION CAUSED BY THE INSTALLATION. THIS CONTRACTOR SHALL NOT BEAR ADDITIONAL WARRANTIES BEYOND A COMPLETE WORKING SYSTEM.
H. RECORD DRAWINGS
1. THIS CONTRACTOR SHALL MAINTAIN ONE SET OF DRAWINGS ON THE JOB SITE UPDATED WEEKLY TO RECORD ALL DEVIATIONS FROM CONTRACT DRAWINGS, SUCH AS:
a. LOCATION OF CONCEALED CONDUIT AND EQUIPMENT.
b. REVISIONS, ADDENDUMS, AND CHANGE ORDERS.
c. SIGNIFICANT DEVIATIONS MADE NECESSARY BY FIELD CONDITIONS, APPROVED EQUIPMENT SUBSTITUTIONS, AND CONTRACTOR'S COORDINATION WITH OTHER TRADES.
2. AT COMPLETION OF THE PROJECT AND BEFORE FINAL APPROVAL, THIS CONTRACTOR SHALL MAKE ANY FINAL CORRECTIONS TO DRAWINGS AND CERTIFY THE ACCURACY OF EACH PRINT BY SIGNATURE THEREON. FAILURE TO KEEP THESE RECORDS WILL ALLOW TENANT/ARCHITECTS TO DIRECT THE GENERAL CONTRACTOR TO PROVIDE THESE RECORDS AT HIS EXPENSE PRIOR TO FINAL PAYMENT.
I. DISCREPANCIES IN DOCUMENTS
1. DRAWINGS (PLANS, SPECIFICATIONS, AND DETAILS) ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION AND INTENT OF THE ELECTRICAL SYSTEMS, WHERE DRAWINGS, EXISTING SITE CONDITIONS, SPECIFICATIONS OR OTHER TRADES CONFLICT OR ARE UNCLEAR, ADVISE THE GENERAL CONTRACTOR IN WRITING, PRIOR TO SUBMITTAL OF BID. THE GENERAL CONTRACTOR IS RESPONSIBLE TO ADVISE PROJECT MANAGER, IN WRITING, OF VARIATIONS TO CONTRACT DOCUMENTS PRIOR TO SUBMISSION OF BID. OTHERWISE, TENANT/ARCHITECTS' INTERPRETATION OF CONTRACT DOCUMENTS OR CONDITIONS SHALL BE FINAL WITH NO ADDITIONAL COMPENSATION PERMITTED.
J. PHASING REQUIREMENTS
1. THIS CONTRACTOR IS TO INCLUDE IN HIS BID ALL NECESSARY SERVICE REQUIRED TO KEEP THE OPERATING PHASE OF THE STORE'S ELECTRICAL SERVICE IN OPERATION. CONTRACTOR MUST SCHEDULE IN WRITING WITH TENANT/ARCHITECTS AND THE LANDLORD ONE WEEK PRIOR TO ANY SHUT DOWN OF THE ELECTRICAL SYSTEM.

K. DEMOLITION
1. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE DEMOLITION OF EXISTING WORK AND THE DEMOLITION PROVIDED BY THE GENERAL CONTRACTOR. COORDINATE WITH THE GENERAL CONTRACTOR ANY EXISTING EQUIPMENT REQUIRED TO BE LEFT INTACT.
2. THIS CONTRACTOR SHALL INCLUDE, AND WILL BE HELD RESPONSIBLE FOR, THE REMOVAL OF ALL EXISTING ELECTRICAL EQUIPMENT, CONDUITS, ETC. NOT TO BE REUSED ON THIS PROJECT, UNLESS SPECIFICALLY NOTED OTHERWISE. CONTRACTOR MUST VERIFY WITH THE LANDLORD ALL PRESUMED ABANDONED EQUIPMENT PRIOR TO REMOVAL. ALL EXTRANEIOUS ITEMS IN THE SPACE OR ON THE ROOF NOT APPLICABLE TO THE NEW WORK MUST BE REMOVED AND ROOF/WALL/FLOOR PATCHED/REPAIRED TO MATCH EXISTING STRUCTURE. EXISTING ABANDONED CONDUIT OR EQUIPMENT IN THE FLOOR, EMBEDDED IN CONCRETE OR OTHERWISE INACCESSIBLE ARE TO BE CUT OFF AND SEALED BELOW OR WITHIN FLOOR OR WALL LEVEL WHEN THEY ARE NOT TO BE REUSED IN THIS PROJECT. IF REQUIRED BY LANDLORD OR CODES, ABANDONED CONDUIT MUST BE REMOVED TO POINT OF ORIGIN, CONFIRM THE EXTENT OF DEMOLITION PRIOR TO BID AND INCLUDE IN BID PROPOSAL.
L. SLEEVES
1. THIS CONTRACTOR SHALL PROVIDE SLEEVES TO PROTECT EQUIPMENT OR FACILITIES IN THE INSTALLATION. EACH SLEEVE SHALL EXTEND THROUGH ITS RESPECTIVE FLOOR, WALL OR PARTITION AND SHALL BE CUT FLUSH WITH EACH SURFACE EXCEPT SLEEVES THAT PENETRATE THE FLOOR, WHICH SHALL EXTEND 2" ABOVE THE FLOOR. CONTRACTOR MUST COORDINATE THROUGH THE LANDLORD ANY CORE DRILLING OR CUTTING OF OPENINGS IN MASONRY FLOORS OR WALLS.
2. ALL SLEEVES AND OPENINGS THROUGH FIRE RATED WALLS AND/OR FLOORS SHALL BE FIRE SEALED WITH CALCIUM SILICATE, SILICONE "RTV" FOAM, 3"MF FIRE RATED SEALANTS OR EQUAL, SO AS TO RETAIN THEIR FIRE RATINGS.
3. SLEEVES IN BEARING AND MASONRY WALLS, FLOORS, AND PARTITIONS SHALL BE STANDARD WEIGHT STEEL PIPE FINISHED WITH SMOOTH EDGES. FOR OTHER THAN MASONRY PARTITIONS, THROUGH SUSPENDED CEILINGS, OR FOR CONCEALED VERTICAL PIPING, SLEEVES SHALL BE NO. 22 U.S.G. GALVANIZED STEEL MINIMUM.
M. HANGERS
1. HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL SUCH AS ANGLE IRON, BANDS, C-CLAMPS WITH RETAINING CLIPS, CHANNELS, HANGER RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK.
2. HANGERS SHALL BE FASTENED TO BUILDING STEEL, CONCRETE, OR MASONRY, BUT NOT TO PIPING. HANGING FROM METAL DECK IS NOT PERMITTED. HANGERS MUST BE ATTACHED TO UPPER CHORD OF BAR JOIST WHERE INTERFERENCES OCCUR, AND IN ORDER TO SUPPORT DUCTWORK OR PIPING, THE CONTRACTOR MUST INSTALL TRAPEZE TYPE HANGERS OR SUPPORTS WHICH SHALL BE LOCATED WHERE THEY DO NOT INTERFERE WITH ACCESS TO FIRE DAMPERS, VALVES, AND OTHER EQUIPMENT. HANGER TYPES AND INSTALLATION METHODS ARE ALSO SUBJECT TO LANDLORD CRITERIA.
3. HANGERS AND PIPING OF DISSIMILAR METALS SHALL BE DIELECTRICALLY SEPARATED.
N. FINAL ELECTRICAL INSPECTIONS
1. ASIDE FROM NORMAL INTERIM INSPECTIONS OF WORK IN PLACE, TENANT/ARCHITECTS MAY HAVE AN INDEPENDENT ELECTRICAL CONTRACTOR INSPECT THE FINISHED ELECTRICAL INSTALLATION UPON COMPLETION FOR COMPLIANCE WITH THE PLANS, SPECIFICATIONS AND CODES. THE INSTALLING CONTRACTOR WILL BE RESPONSIBLE TO BRING ALL ITEMS REPORTED BY THE INDEPENDENT ELECTRICAL CONTRACTOR UP TO PLANS AND SPECIFICATION REQUIREMENTS.
END OF SECTION 16000
SECTION 16050
BASIC ELECTRICAL MATERIAL AND METHODS
A. CONTRACTOR NOTES
1. IT IS CONTRACTOR/ELECTRICIANS' RESPONSIBILITY TO FIELD VERIFY ACTUAL SITE CONDITION AND SHALL NOTIFY EOR(S) ANY DISCREPANCIES WITH THE PLAN THAT IMPACTS ON THE BID PRIOR TO BIDDING.
2. THIS CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION, AND FACILITIES NECESSARY FOR, REASONABLY IMPLIED AND INCIDENTAL TO, THE FURNISHING, INSTALLATION, COMPLETION AND TESTING OF ALL THE WORK FOR THE ELECTRICAL SYSTEMS AS SHOWN ON THE DRAWINGS, CALLED FOR IN THE SPECIFICATIONS, AND AS REQUIRED BY JOB CONDITIONS, TO INCLUDE, BUT NOT LIMITED TO THE FOLLOWING:
a. A COMPLETE ELECTRICAL DISTRIBUTION SYSTEM INCLUDING THE INSTALLATION OF SAFETY AND DISCONNECT SWITCHES, MOTOR STARTERS AND LIGHTING. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO INCLUDE IN HIS BID FOR PROVIDING SERVICE EQUIPMENT NECESSARY FOR TIE-IN TO LANDLORD'S DISTRIBUTION EQUIPMENT OR TO OBTAIN SERVICE FROM LOCAL UTILITY COMPANY. REFER TO ELECTRICAL RESPONSIBILITY SCHEDULE AND ELECTRICAL POWER RISER DIAGRAM FOR ADDITIONAL INFORMATION.
b. CONTRACTOR MUST ALSO INCLUDE IN BID ALL NECESSARY MATERIALS REQUIRED TO COMPLETE THE SYSTEM INCLUDING, BUT NOT LIMITED TO, FEEDERS, BRANCH CIRCUITS, JUNCTION BOXES, OUTLET BOXES, WIRING DEVICES, COVER PLATES, CONDUITS, ETC.
c. METERING AND CURRENT TRANSFORMERS AS REQUIRED BY DRAWINGS, UTILITY COMPANY, AND/OR LANDLORD.
d. THE WIRING OF MECHANICAL EQUIPMENT AS OUTLINED ON THE BID SET DRAWINGS AND IN THE SPECIFICATIONS, WORK SHALL INCLUDE WIRING OF ALL STARTERS, DISCONNECTS, AND POWER WIRING OF MECHANICAL EQUIPMENT EXCEPT AS SPECIFICALLY NOTED OTHERWISE. ALL LOW VOLTAGE (24 VOLT) EMS TEMPERATURE CONTROL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR UNLESS NOTED SPECIFICALLY ON DRAWING.
e. INSTALLATION OF LIGHT FIXTURES AND LAMPS AS SHOWN ON THE DRAWINGS INCLUDING ALL DEVICES, EQUIPMENT, ETC. REQUIRED FOR MOUNTING.
f. A COMPLETE CONDUIT SYSTEM FOR TELEPHONE/DATA INCLUDING BRANCH CONDUITS, OUTLET BOXES, PULL WIRES, GROUND CONDUCTORS, COVER PLATES, ETC. OR AS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.
g. A COMPLETE EMERGENCY AND EXIT LIGHTING SYSTEM AS SHOWN ON THE DRAWINGS.
h. TEMPORARY SERVICE AS INDICATED IN THE SPECIFICATIONS, INCLUDING ITS REMOVAL.
i. FINAL CONNECTIONS TO ALL SIGNS, CORNICHE LIGHTING, CASE LIGHTING, ETC. AS SHOWN ON DRAWINGS.
j. IF INDICATED ON DRAWINGS, INSTALLATION AND WIRING OF SPEAKERS, AMPLIFIERS, CONDUIT AND FINAL CONNECTIONS FOR SOUND SYSTEM AS SHOWN.
k. SMOKE/FIRE ALARM WIRING, DEVICES AND CONDUIT, AS SHOWN OR DESCRIBED ON DRAWINGS OR AS NECESSARY TO MEET LANDLORD, STATE, LOCAL, INSURANCE AND FIRE DEPARTMENT REQUIREMENTS.
l. INSTALLATION OF CONDUITS STUBBED TO ABOVE CEILING FOR HVAC. ALSO, ANY ADDITIONAL CONDUIT FOR HVAC CONTROL EQUIPMENT WHERE PLENUM RATED CABLES ARE NOT PERMITTED.
m. BALANCING LOADS.
n. AS-BUILTS, PANEL DESCRIPTION AND CIRCUIT BREAKER SPECIFIC LABELING.
3. THE FOLLOWING ITEMS OF ELECTRICAL CONSTRUCTION ARE NOT INCLUDED IN THIS CONTRACT:
a. TELEPHONE INSTRUMENTS AND WIRING UNLESS NOTED OTHERWISE.
b. DATA CABLE WIRING UNLESS NOTED OTHERWISE.
4. BEFORE STARTING WORK, THIS CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, STRUCTURAL, FIRE PROTECTION, MECHANICAL AND PLUMBING PLANS, SHOP DRAWINGS AND SPECIFICATIONS TO SEQUENCE, COORDINATE, AND INTEGRATE THE VARIOUS ELEMENTS OF THE ELECTRICAL SYSTEM, MATERIALS AND EQUIPMENT WITH OTHER CONTRACTORS TO AVOID INTERFERENCES AND CONFRONTATIONS.
B. CONDUIT
1. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS SERVING ALL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, LIGHTING, RECEPTACLES, HEATING, AIR CONDITIONING, PLUMBING EQUIPMENT, TELEPHONE, DATA, SPEAKERS, SECURITY, PAGER, TRAFFIC COUNTING SYSTEM AND ELECTRICAL EQUIPMENT.
2. ALL CONDUITS SHALL BE GALVANIZED IMC OR EMT UNLESS OTHERWISE SPECIFIED IN SPECIFICATIONS OR ON DRAWINGS. ALL CONDUIT IS TO BE UL LABELED. EMT CONNECTORS SHALL BE STEEL COMPRESSION OR SET SCREW TYPE. CONDUIT UNDER SLAB ON GRADE SHALL BE RIGID STEEL, OR SCHEDULE 40 PVC WITH RIGID STEEL ELLS WHERE PERMITTED BY LANDLORD OR CODE. EMT FOR WET LOCATIONS TO BE PERMITTED ONLY WHEN ALL SUPPORTS, BOLTS, STRAPS, SCREWS AND SO FORTH ARE CORROSION-RESISTANT MATERIALS PER 358.10.
3. MINIMUM SIZE OF CONDUIT SHALL BE:
a. MAIN FEEDER CONDUIT 2" OR LARGER FOR ALL APPLICATIONS.
b. 1/2" FOR INDIVIDUAL LIGHTING FIXTURE CONNECTIONS OR TO INDIVIDUAL LIGHT SWITCHES (IF ACCEPTABLE BY THE LANDLORD AND LOCAL CODE OFFICIALS) AND 3/4" FOR ALL OTHER LIGHTINGS.

c. IF HVAC CONTROL WIRING IS REQUIRED TO BE RUN IN CONDUIT, IT SHALL BE A MINIMUM OF 3/4", UNLESS NOTED OTHERWISE ON DRAWINGS.
d. ALL IN/UNDER FLOOR CONDUIT SHALL BE OF MINIMUM 3/4" SIZE.
4. SUPPORT ALL CONDUIT, INCLUDING SEISMIC AND SWAY BRACING, IN ACCORDANCE WITH THE NEC AND LOCAL CODES.
5. GENERALLY, ALL CONDUIT SHALL BE CONCEALED EXCEPT FOR UNFINISHED AREAS, SUCH AS EQUIPMENT ROOMS. EXPOSED CONDUIT SHALL BE ALLOWED ONLY AS NOTED ON PLAN AND AS APPROVED BY PROJECT MANAGER. PAINTING OF CONDUITS, NOTED ON DRAWINGS OR SPECIFICATIONS WILL BE BY GENERAL CONTRACTOR.
6. FLEXIBLE METAL CONDUIT OR MC TYPE CABLE:
a. FLEXIBLE CONDUIT OR MC TYPE CABLE SHALL BE USED FOR THE FOLLOWING APPLICATIONS ONLY:
1. FINAL CONNECTIONS TO MOTORS.
2. FINAL CONNECTIONS INTO AND OUT OF THE TRANSFORMER.
3. FINAL CONNECTIONS TO VIBRATING EQUIPMENT.
4. INTER-CONNECTIONS BETWEEN ALL LIGHT FIXTURES AND HOMERUNS TO PANELS WHERE CODE ALLOWS.
5. FINAL CONNECTIONS WHERE RIGID CONDUIT IS NOT PRACTICAL.
6. IN WALLS (FOR LIGHT SWITCHES AND 120 VOLT POWER RECEPTACLES AND HVAC CONTROL EQUIPMENT).
b. FLEXIBLE METAL CONDUIT OR MC TYPE CABLE MUST BE THE SAME SIZE AS THE IMC OR EMT CONDUIT TO WHICH IT IS CONNECTED. BOTH THE FLEXIBLE METAL CONDUIT AND ITS FITTINGS ARE TO BE LISTED FOR GROUNDING. A GREEN GROUNDING CONDUCTOR SHALL BE INSTALLED. ALL CONNECTORS ARE TO BE OF A NEMA APPROVED TYPE.
c. THE USE OF ROMEX, BX, ETC. IS PERMITTED ONLY IN RESIDENTIAL CONSTRUCTION NOT HIGHER THAN THREE STORIES.
d. CONNECTION TO ANY OUTDOOR EQUIPMENT MUST BE WEATHERPROOF.
7. PROVIDE PULL-WIRE IN ALL EMPTY CONDUITS EXCEPT AS NOTED OTHERWISE ON DRAWINGS.
8. HOME RUNS AND MAIN CONDUIT RUNS ARE TO BE HELD TIGHT TO STRUCTURE ABOVE OR AS REQUIRED TO ALLOW PROPER SERVICE ACCESS AND OTHER TRADES WORK. CONDUIT MUST BE TRAPEZED TO ALLOW 3 FEET MINIMUM CLEARANCE ABOVE CEILING.
9. ALL CONDUITS MUST BE SIZED PER NEC AND LOCAL CODES.
10. ALL SENSORMATIC WIRING MUST BE PLACED IN CONDUIT (PVC PIPE NOT PERMITTED).
C. OUTLET BOXES
1. ALL OUTLET BOXES SHALL BE GALVANIZED PRESSED STEEL OF THE STANDARD KNOCKOUT TYPE, NO ROUND OUTLET BOXES SHALL BE PERMITTED UNLESS INDICATED AND FOR LIGHTING THAT REQUIRE SUCH CONFIGURATION. CONCEALED BOXES SHALL NOT BE LESS THAN 4" SQUARE AND 1 1/2" DEEP, WITH PLASTER RINGS.
2. ALL KNOCKOUT BOXES, UPON WHICH LIGHTING FIXTURES ARE TO BE INSTALLED, SHALL BE EQUIPPED WITH 3/8" FIXTURE STUDS.
3. EXTERIOR BOXES SHALL BE CAST RUST-RESISTING METAL WITH GASKETED COVERS.
4. INSTALL BOXES RIGIDLY FROM BUILDING STRUCTURE AND SUPPORT INDEPENDENTLY OF THE CONDUIT SYSTEM. ALSO PROVIDE SUITABLE BOX EXTENSIONS TO EXTEND BOXES TO FINISHED FACES OF FLOORS, CEILINGS, WALLS ETC. ALL OUTLET BOXES TO BE PROVIDED WITH CADDY "QUICK-MOUNT BOX SUPPORT" TO MINIMIZE THE DEFLECTION THAT OCCURS WHEN PLUGGING/UNPLUGGING INTO THESE DEVICES.
5. UNLESS OTHERWISE NOTED ON DRAWINGS OR OTHERWISE REQUIRED BY THE NATIONAL ELECTRICAL CODE, HANDICAP CODES OR LOCAL CODES, OUTLET HEIGHTS SHALL BE AS FOLLOWS:
a. SWITCH HEIGHT 48" FROM FINISHED FLOOR TO TOP OF OUTLET.
b. CONVENIENCE OUTLETS:
MOUNTED ON WALL NO MORE THAN 48-INCHES, MEASURED FROM TO TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING AND; NO LESS THAN 15-INCHES, MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING, TO THE LEVEL OF THE FINISHED FLOOR OR WORKING PLATFORM UNLESS OTHERWISE INDICATED OR HORIZONTALLY MOUNTED IN BASEBOARD BENEATH CABINETS, AS SHOWN ON DRAWINGS, OR AS REQUIRED BY LOCAL CODES, SEE DRAWINGS.
c. TELEPHONE OUTLETS SHALL BE LOCATED AS NOTED ON DRAWINGS.
D. JUNCTION AND PULL BOXES
1. THE PLANS INDICATE ONLY SCHEMATIC ROUTINGS FOR CONDUIT RUNS. THIS CONTRACTOR SHALL FURNISH AND INSTALL ADDITIONAL BOXES WHERE REQUIRED BY FIELD CONDITIONS OR BY CODE.
2. BOXES AND COVERS SHALL BE GALVANIZED STEEL OF CODE GAUGE SIZE.
3. INSTALL BOXES RIGIDLY SUPPORTED FROM THE BUILDING STRUCTURE AND SUPPORTED INDEPENDENT OF THE CONDUIT SYSTEM.
4. ARRANGE CIRCUITS TO AVOID THE USE OF JUNCTION BOXES IN INACCESSIBLE LOCATIONS. THE USE OF JUNCTION BOXES ABOVE DRYWALL CEILINGS SHOULD BE LIMITED TO LOCATIONS NEAR ACCESS FRAMES USED FOR DIFFUSERS AND RETURN AIR GRILLES OR ACCESS PANELS AS LOCATED ON PLANS.
5. JUNCTION AND PULL BOXES MUST BE LABELED WITH CIRCUIT NUMBER IDENTIFICATION AND SYSTEM TYPE ON COVER.
E. WIRING
1. CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS SHALL BE COPPER AND THE AWG SIZE AND TYPE AS SHOWN ON DRAWINGS. MINIMUM WIRE SIZE #12. THE CONDUCTORS SHALL BE 600 VOLT INSULATION, TYPE THW, THWN OR THHN.
2. MINIMUM WIRE SIZE - 20 AMP BRANCH CIRCUIT SHALL BE AWG LISTED SIZE PER DISTANCE SHOWN BELOW. DISTANCE SHALL BE MEASURED FROM THE PANELBOARD CIRCUIT BREAKER TO THE FURTHEST OUTLET.
a. #12 LESS THAN 100 FEET
b. #10 BETWEEN 100-150 FEET
c. #8 BETWEEN 150 - 250 FEET
d. #6 OVER 250 FEET
3. ON ALL 20 AMP BRANCH CIRCUITS, CONDUCTORS LARGER THAN #10 AWG SHALL BE REDUCED TO #10 AWG WITHIN 10 FEET OF PANEL BOARD AND DEVICE IN JUNCTION BOXES ON RATED TERMINAL STRIPS.
4. CONDUCTORS MAY BE STRANDED FOR SIZES #10 AWG AND LARGER. CONDUCTORS SIZE #12 SHALL BE SOLID (NOT STRANDED).
5. ALUMINUM CONDUCTORS ARE NOT PERMITTED, EXCEPT AT SERVICE ENTRANCE, WHERE REQUIRED BY LANDLORD. CONDUCTOR CONNECTION MUST BE PER MANUFACTURER'S REQUIREMENTS. CONTRACTOR MUST OBTAIN WRITTEN PERMISSION FROM GENERAL CONTRACTOR AND PROJECT MANAGER WHEN USED.
6. ALL WIRING (120V AND ABOVE) SHALL BE IN CONDUIT, UNLESS SPECIFICALLY NOTED OTHERWISE. ALL LOW VOLTAGE WIRING CONDUIT REQUIREMENTS TO BE COORDINATED WITH OWNER.
7. THE USE OF SHARED NEUTRALS IS REQUIRED FOR LIGHTING CIRCUITS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES. ALL OTHER EQUIPMENT REQUIRING A NEUTRAL CONDUCTOR SHALL HAVE A DEDICATED FULL SIZE NEUTRAL.
8. THE USE OF ROMEX, BX, ETC. IS PERMITTED ONLY IN RESIDENTIAL CONSTRUCTION NOT HIGHER THAN THREE STORIES.
9. WIRE CONNECTORS SHALL BE EQUAL TO "SCOTCH LOCK" FOR #8 AWG WIRE AND SMALLER AND EQUAL TO T & B "LOCKTIGHT" FOR #6 AWG AND LARGER.
10. ALL WIRING TO BE COLOR-CODED AS FOLLOWS:
120/208 VOLT SYSTEM NEUTRAL - WHITE
277/480 VOLT SYSTEM NEUTRAL - GRAY
PHASE A OR L1 - BLACK
PHASE B OR L2 - RED
PHASE C OR L3 - BLUE
GROUND - GREEN WITH YELLOW TRACER

ELECTRICAL SYMBOLS LIST

Table with columns: CLG., WALL, FLR., DESCRIPTION. Contains symbols for duplex receptacles, ground fault interrupting protected circuit duplex receptacles, junction boxes, telephone outlets, data outlets, cable outlets, lighting fixtures, conduit stub outs, homeruns, ground connectors, electrical panels, main switchboards, equipment notes, mechanical equipment, switches, motor starters, dimmer switches, occupancy sensors, vacancy sensors, occupancy sensors, ceiling mounted sensors, ceiling mounted vacancy sensors, ceiling mounted daylight sensors, hard wired smoke detectors, non-fused/fused switch, motor outlet, exhaust air grille, time clock, gas solenoid, and abbreviations for new/existing/relocated.

SYMBOL NOTES:
SYMBOL LIST SHOWS IN FOR GENERAL REFERENCE ONLY. A PRESENCE OF A SYMBOL DOES NOT IMPLY ITS USE ON THIS PROJECT. REFER TO DRAWING FOR SPECIFIC SYMBOLS USED.

SHEET INDEX

Table with columns: E000, E001, E002, E100, E200, TE00. Describes electrical specification, single line diagram/schedules, panel schedules, electrical plan - 2nd floor, electrical plan - 3rd floor, and title24 - indoor.

SCOPE OF WORK

- EXISTING MULTI-FAMILY DWELLING REMODEL.
PROVIDE NEW LIGHTING FIXTURES/CONNECTIONS TO THE RENOVATED AREAS.
PROVIDE NEW POWER FIXTURES/CONNECTIONS TO THE RENOVATED AREAS.
EXISTING MAIN SERVICE/METER EQUIPMENT AND INSTALLATION OF NEW DISTRIBUTION EQUIPMENT.

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6TH. AND F RESIDENTIAL HOTEL
545 "F" STREET
SAN DIEGO, CA 92101

REVISION table with columns for revision number and description.

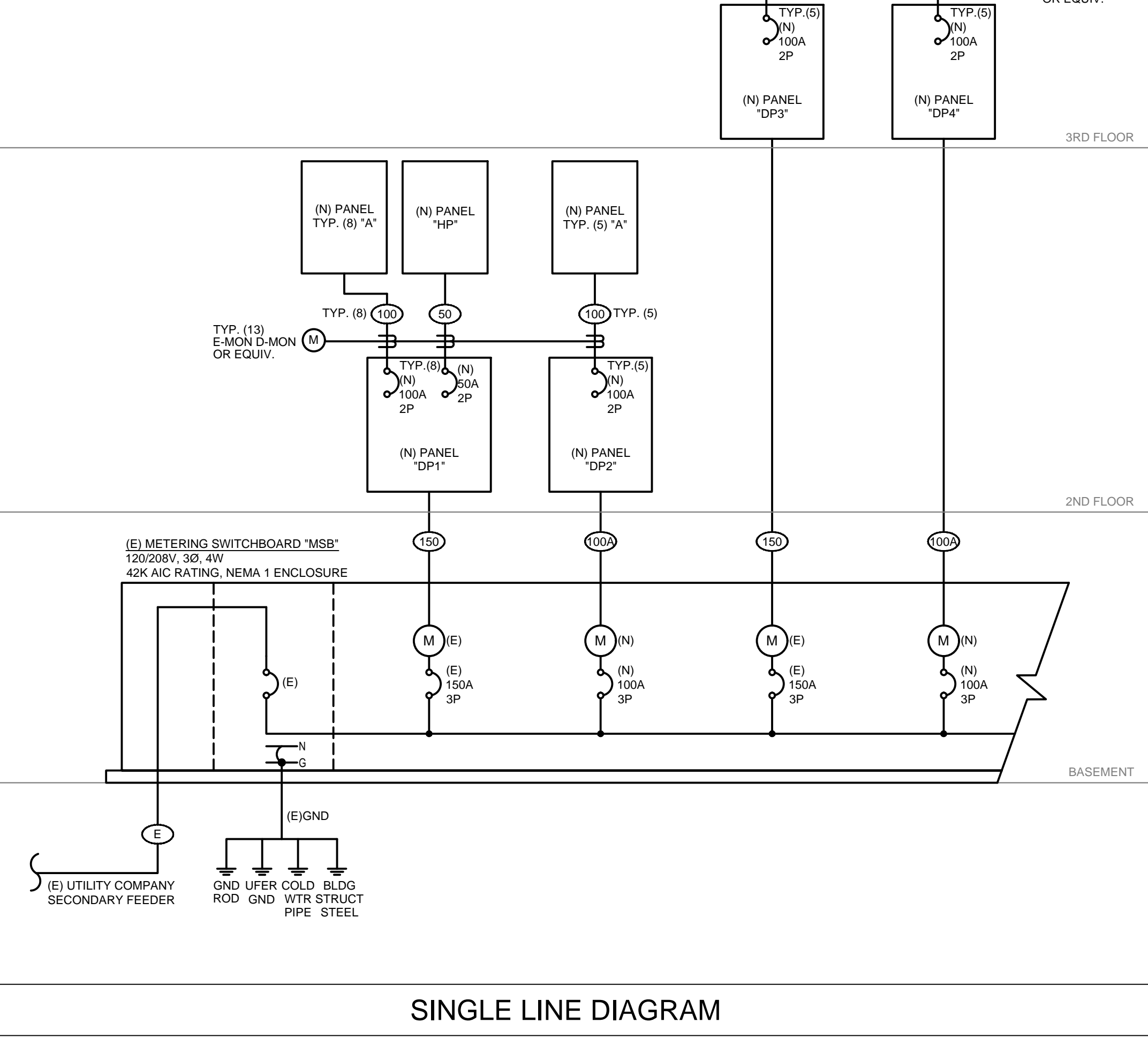
DRAWN: H.N., CHECKED: J.L., DATE: 03/20/2024, SCALE: N.T.S.

SHEET TITLE: ELECTRICAL SPECIFICATION
E000

FEEDER CHART

#	(E)/(N)	FEEDER SIZE
E	(E)	EXISTING TO REMAIN
150	(E)	4#1/0, #6GND- 2°C
100A	(N)	4#1, #8GND- 2°C
100	(N)	3#1, #8GND- 1 1/2°C
50	(N)	3#6, #10GND- 1°C

NOTE:
(E) FEEDERS TO BE FIELD VERIFIED AND REMAIN AS-IS U.O.N.



MAIN SERVICE LOAD SUMMARY

# OF UNIT	LOAD NAME	CONNECTED		NEC DEMAND		REMARKS		
		V	Ø	KVA	AMPS			
23	TOTAL	208	3	240.30	667.01	80.40	223.16	DEMAND FACTOR USED PER TABLE 220.84
20	UNIT TYPE A/PANEL "A"	208	3	198.90	552.09	184.90	513.23	
3	UNIT TYPE B/PANEL "B"	208	3	37.13	103.05	33.94	94.20	
	PANEL "HP"	208	3	4.28	11.87	4.49	12.47	

EMERGENCY EXIT ILLUMINATION NOTES

- FIXTURES WITH 90 MIN. EMERGENCY BATTERY BACKUP SHALL BE WIRED AHEAD OF ANY CONTROL IN COMPLIANCE WITH [2022 CEC 700.12(I)(2)(3)(A)].
- THE MEANS OF EGRESS SERVING A ROOM OR SPACE SHALL BE ILLUMINATED AT ALL TIMES THAT THE ROOM OR SPACE IS OCCUPIED. [2022 CBC 1008.2]
- THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A DURATION OF NOT LESS THAN 90 MINUTES AND SHALL CONSIST OF STORAGE BATTERIES, UNIT EQUIPMENT OR AN ONSITE GENERATOR. [2022 CBC 1008.3.4]
- EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS NOT LESS THAN AN AVERAGE OF 1 FC, AND A MIN AT ANY POINT OF 0.1 FC MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE TO 0.6 FC AVERAGE AND A MIN AT ANY POINT OF 0.08 FC AT THE END OF THE EMERGENCY LIGHTING TIME DURATION. A MAXIMUM ILLUMINATION UNIFORMITY RATIO OF 40 TO 1 SHALL NOT BE EXCEEDED. [2022 CBC 1008.3.5]
- EXITS AND EXIT ACCESS DOORS SHALL BE MARKED BY AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL. EXIT SIGN PLACEMENT SHALL BE SUCH THAT ANY POINT IN AN EXIT ACCESS CORRIDOR OR EXIT PASSAGEWAY IS WITHIN 100 FT OR THE LISTED VIEWING DISTANCE OF THE SIGN, WHICHEVER IS LESS, FROM THE NEAREST VISIBLE EXIT SIGN. [2022 CBC 1013.1]
- TACTILE EXIT SIGNS SHALL BE PROVIDED WITH APPROPRIATE WORDS AT EXIT DOORS LEADING TO ENCLOSED EXIT STAIRWAYS AND EXIT DOORS LEADING TO OUTSIDE. [2022 CBC 1013.4]
- EMERGENCY LIGHTING UNITS SHALL BE EQUIPPED WITH FACTORY INSTALLED INTEGRAL TEST SWITCHES.

SINGLE LINE DIAGRAM NOTES

- CONTRACTOR/ELECTRICIAN TO FIELD VERIFY ACTUAL SITE CONDITION /EXACT SERVICE ENTRANCE AND SHALL NOTIFY EOR(S) ANY DISCREPANCY WITH THE PLAN PRIOR TO BIDDING.
- CONTRACTOR TO VERIFY ALL EQUIPMENT DIMENSIONS AND CLEARANCES WITH FIELD CONDITION PRIOR TO ORDERING EQUIPMENT.
- ALL EQUIPMENT TO BE LISTED BY A RECOGNIZED TESTING AGENCY. TERMINALS TO BE RATED FOR ALUMINUM AND COPPER WIRE.
- CONTRACTOR TO OBTAIN A FAULT CURRENT LETTER FROM UTILITY COMPANY PRIOR TO PURCHASE OF ANY EQUIPMENT (IF ANY) FOR AIC VERIFICATION. EQUIPMENT CUTSHEETS AND FAULT CURRENT LETTER TO BE PROVIDED UPON INSPECTION.
- IF APPLICABLE, ALL NEW CIRCUIT BREAKERS INSTALLED ON EXISTING PANEL/SWITCHBOARD SHALL MATCH THE HIGHEST EXISTING AIC RATED BREAKER WITHIN THAT PANELBOARD. INSPECTOR TO VERIFY HIGHEST AIC RATING AT THE SITE.
- MAIN SERVICE DISCONNECT AMPERAGE MUST BE PERMANENTLY MARKED
- ALL SYSTEM TO BE FULLY RATED SYSTEM, IF SYSTEM IS SERIES RATED, ALL COMPONENTS MUST BE FROM THE SAME MANUFACTURER. LISTED BREAKER COMBINATIONS SHALL BE AVAILABLE TO THE AUTHORITY HAVING JURISDICTION UPON REQUEST.
- IF APPLICABLE, ALL EQUIPMENT LABELED/IDENTIFIED AS EXISTING, ARE SUBJECT TO FIELD VERIFICATION.
- ARC-FLASH HAZARD WARNING FIELD MARKING TO BE PROVIDED ON ELECTRICAL EQUIPMENT, SUCH AS SWITCHBOARDS, PANEL BOARDS, METER SOCKET ENCLOSURES AND MCC THAT ARE IN OTHER THAN DWELLING UNITS. [2022 CEC 110.21(B)]

LIGHTING FIXTURE SCHEDULE

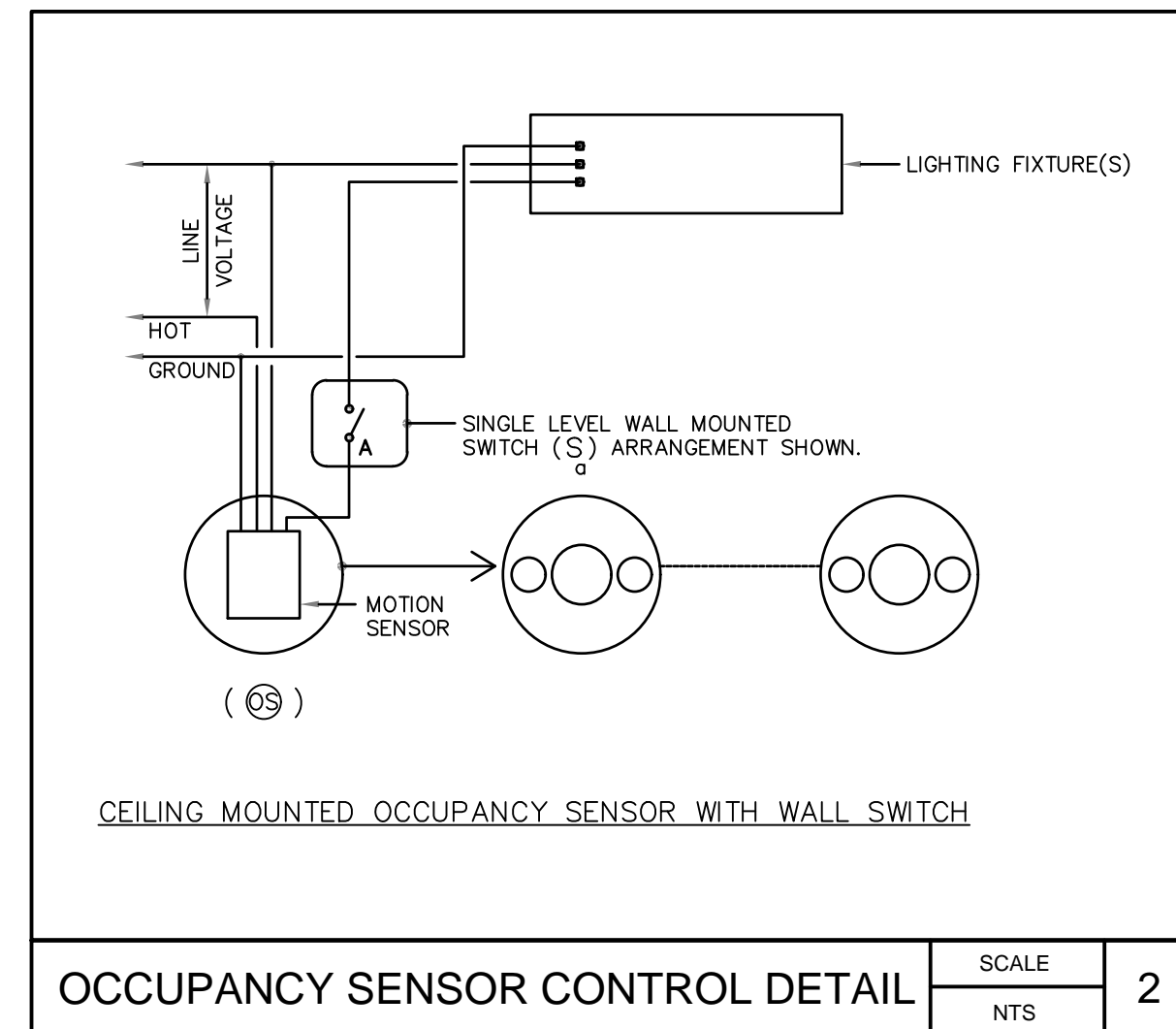
TYPE	DESCRIPTION	LAMP	VOLT	WATT
○	LED CEILING LIGHT, DIMMABLE, HIGH EFFICACY MANUFACTURER TBD	LED	120	10
□	LED SURFACE MOUNT LIGHT W/EXHAUST FAN, HIGH EFFICACY MANUFACTURER TBD	LED	120	30
○	LED WALL MOUNTED LIGHT, HIGH EFFICACY WAC LIGHTING WS-180414 SERIES OR APPROVED EQUAL	LED	120	12
EE	LIGHT FIXTURE WITH 90 MINUTES EMERGENCY BATTERY PACK VERIFY WITH MANUFACTURER FOR OPTION/INVERTER IF NOT AVAILABLE	---	120	---
X	LED EXIT SIGN WITH 90 MINUTES BATTERY PACK LITHONIA EXR LED M6 OR EQUIVALENT	---	120	---

NOTES:
1. FIXTURE SHALL HAVE MIN. OF 10 YEARS MANUFACTURER WARRANTY ON ALL COMPONENTS.
2. FIXTURES SHALL HAVE APPROPRIATE U.L LABEL (i.e. DAMP OR WET) AS REQUIRED BY CODES AND ORDINANCES.
3. FIXTURES SHALL INCLUDE ALL ACCESSORIES FOR INSTALLATION ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND AS REQUIRED BY CODES AND LOCAL ORDINANCES.
4. PRIOR TO ORDERING ANY LIGHTING EQUIPMENT, THE CONTRACTOR SHALL COORDINATE ALL FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND CEILING CAVITY DEPTHS.
5. ALL LAMPS SHALL BE PROVIDED AND INSTALLED ACCORDING TO THE ATTACHED FIXTURE SCHEDULE AND SPECIFICATIONS. ENSURE COMPATIBILITY BETWEEN FIXTURE, LAMP(S) AND BALLAST(S).
6. CONTRACTOR SHALL VERIFY FIXTURE VOLTAGES AND CEILING TRIM COMPATIBILITY PRIOR TO ORDERING FIXTURE.
7. PROVIDE APPROVED FIRE-RATED ENCLOSURES FOR ALL LIGHTING FIXTURES LOCATED IN FIRE-RATED CEILINGS.
8. LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE ALL NECESSARY HARDWARE AS REQUIRED BY THE SPECIFICATIONS, DRAWINGS, AND PROJECT CONDITIONS FOR A COMPLETE INSTALLATION.
9. ALL FIXTURES SHALL BE ORDERED WITH APPROPRIATE BALLAST(S) THAT HAVE U.L. AND CBM LABELS. PROVIDE MULTIPLE BALLASTS FOR DUAL-LEVEL SWITCHING AND WIRING AS INDICATED ON THE PLANS.
10. ENSURE COMPATIBILITY OF ALL LIGHTING SYSTEM COMPONENTS, ESPECIALLY DIMMED SYSTEMS. FIXTURES, LAMPS, BALLAST(S), AND DIMMING SYSTEMS/INDIVIDUAL CONTROLS MUST BE FACTORY CERTIFIED COMPATIBLE FOR FULL RANGE OF DIMMING COMPATIBILITY.
11. LIGHTING FIXTURE MANUFACTURER & MODEL IS FOR REFERENCE ONLY, FIXTURE SHALL BE SELECTED BY ARCHITECT. POWER AND QUALITY SHALL BE SPECIFICATION GRADE.

120V, SINGLE POLE, MAX 3% VOLTAGE DROP

	LENGTH OF RUN					AMP LOAD
	25'	50'	100'	150'	200'	
COPPER	14	12	10	8	6	15 AMP
COPPER	12	12	8	6	4	20AMP
COPPER	10	10	6	4	4	30 AMP
COPPER	1	1	1	2/0	4/0	100 AMP
ALUMINUM	1/0	1/0	2/0	4/0	300	100 AMP
COPPER	3/0	3/0	3/0	300	500	200 AMP
ALUMINUM	250	250	300	600	900	200 AMP

NOTE:
THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.



"DP4" LOAD SUMMARY

# OF UNIT	LOAD NAME	CONNECTED		NEC DEMAND		REMARKS		
		V	Ø	KVA	AMPS			
5	TOTAL	208	3	52.16	144.77	21.73	60.32	DEMAND FACTOR USED PER TABLE 220.84
4	UNIT TYPE A/PANEL "A"	208	3	39.78	110.42	36.98	102.65	
1	UNIT TYPE B/PANEL "B"	208	3	12.38	34.35	11.31	31.40	

"DP3" LOAD SUMMARY

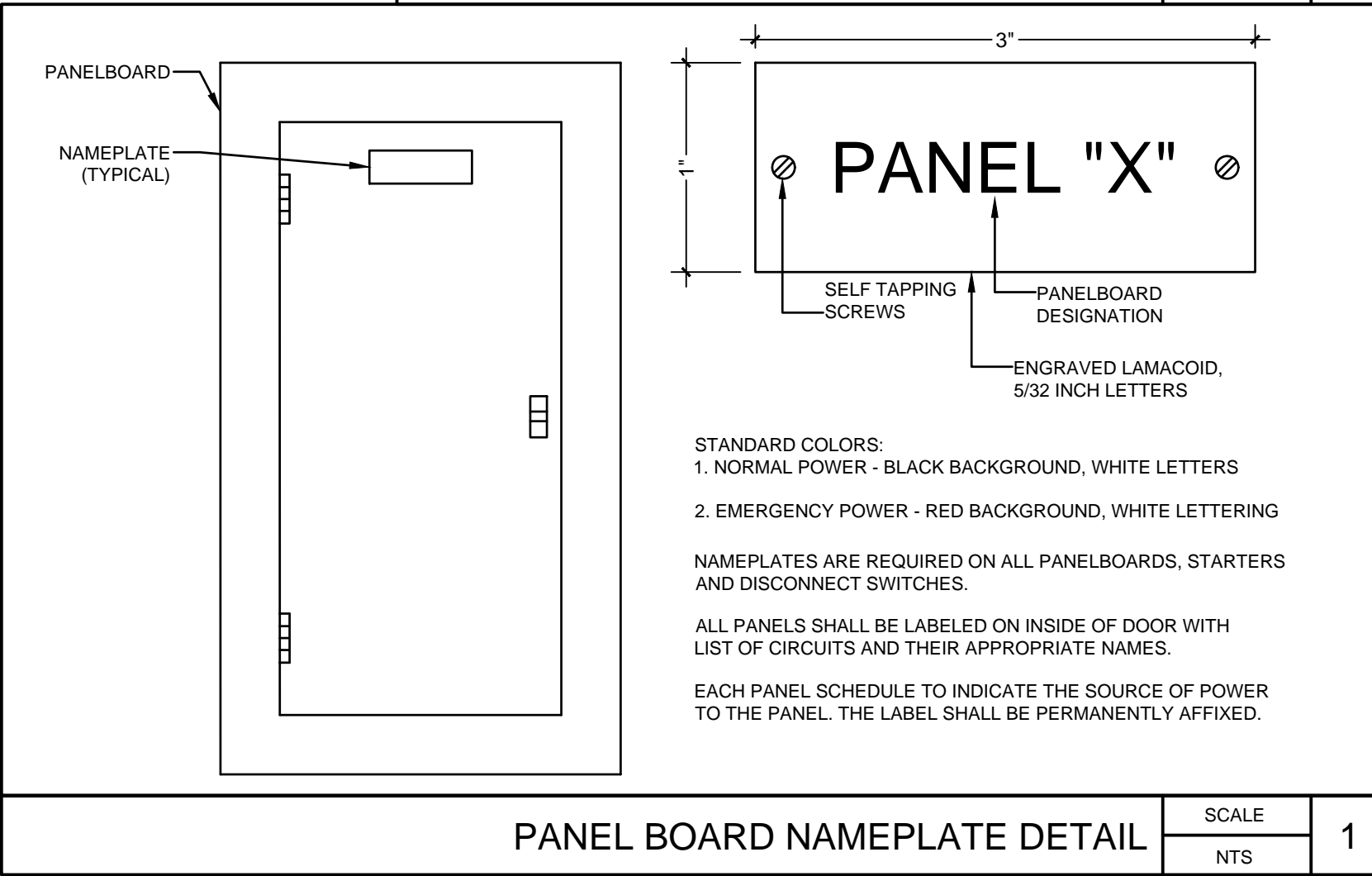
# OF UNIT	LOAD NAME	CONNECTED		NEC DEMAND		REMARKS		
		V	Ø	KVA	AMPS			
5	TOTAL	208	3	54.59	151.51	22.66	62.90	DEMAND FACTOR USED PER TABLE 220.84
3	UNIT TYPE A/PANEL "A"	208	3	29.84	82.81	27.73	76.98	
2	UNIT TYPE B/PANEL "B"	208	3	24.75	68.70	22.62	62.80	

"DP2" LOAD SUMMARY

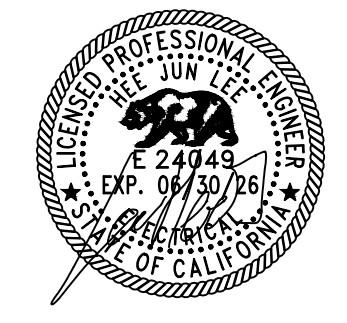
# OF UNIT	LOAD NAME	CONNECTED		NEC DEMAND		REMARKS		
		V	Ø	KVA	AMPS			
5	TOTAL	208	3	61.88	171.75	25.45	70.65	DEMAND FACTOR USED PER TABLE 220.84
5	UNIT TYPE A/PANEL "A"	208	3	61.88	171.75	56.56	157.00	

"DP1" LOAD SUMMARY

# OF UNIT	LOAD NAME	CONNECTED		NEC DEMAND		REMARKS		
		V	Ø	KVA	AMPS			
8	TOTAL	208	3	83.84	232.71	33.73	93.64	DEMAND FACTOR USED PER TABLE 220.84
8	UNIT TYPE A/PANEL "A"	208	3	79.56	220.84	73.96	205.29	
	PANEL "HP"	208	3	4.28	11.87	4.49	12.47	



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6TH. AND F RESIDENTIAL HOTEL
545 "F" STREET
SAN DIEGO, CA 92101

REVISION	DATE	SCALE

DRAWN: H.N. CHECKED: J.L.
DATE: 03/20/2024 SCALE: N.T.S.
SHEET TITLE: SINGLE LINE DIAGRAM/SCHEDULES

E001

PANEL "A"													
VOLTS:120/208V		PHASE: 1		SHORT CIRCUIT RATING: 10000A				MAIN: LUGS ONLY					
MOUNTING: FLUSHED		WIRE: 3		ENCLOSURE: NEMA 1 RATED MN.				BUSSING: 100A MN.					
LOAD		A-VA	B-VA	BKR	CT	CT BKR	A-VA	B-VA					LOAD
BATHRM RECEPTS	R			20/1	1	2	20/1						L BEDRMBATHRM LIGHTS
ROOM RECEPT.1	R			20/1	3	4	15/2						M HP/FC
ROOM RECEPT.2	R			20/1	5	6							M
ROOM RECEPT.3	R			20/1	7	8	20/1						SPARE
KITCHENETTE	K			20/1	9	10	20/1						SPARE
					11	12	20/1						SPARE
KEF	M			20/1	13	14	20/1						SPARE
					15	16	20/1						SPARE
MICROWAVE	K			20/1	17	18	20/1						SPARE
GARBAGE DISPOSAL	M			20/1	19	20	20/1						SPARE
					21	22	20/1						SPARE
					23	24	20/1						SPARE
					25	26	20/1						SPARE
					27	28	20/1						SPARE
					29	30	20/1						SPARE

PANEL "DP1"													
VOLTS:120/208V		PHASE: 3		SHORT CIRCUIT RATING: 10000A				MAIN: LUGS ONLY					
MOUNTING: FLUSHED		WIRE: 4		ENCLOSURE: NEMA 1 RATED MN.				BUSSING: 150A MN.					
LOAD		A-VA	B-VA	C-VA	BKR	CT	CT BKR	A-VA	B-VA	C-VA			LOAD
PANEL TYPE "A"	P				100/2	1	2	100/2					P PANEL TYPE "A"
						3	4						P
PANEL TYPE "A"	P				100/2	5	6	100/2					P PANEL TYPE "A"
						7	8						P
PANEL "HP"	P				50/2	9	10	100/2					P PANEL TYPE "A"
						11	12						P
						13	14	100/2					P PANEL TYPE "A"
						15	16						P
						17	18	100/2					P PANEL TYPE "A"
						19	20						P
						21	22	100/2					P PANEL TYPE "A"
						23	24						P
						25	26						P
						27	28						P
						29	30						P

PANEL "DP2"													
VOLTS:120/208V		PHASE: 3		SHORT CIRCUIT RATING: 10000A				MAIN: LUGS ONLY					
MOUNTING: FLUSHED		WIRE: 4		ENCLOSURE: NEMA 1 RATED MN.				BUSSING: 100A MN.					
LOAD		A-VA	B-VA	C-VA	BKR	CT	CT BKR	A-VA	B-VA	C-VA			LOAD
PANEL TYPE "A"	P				100/2	1	2	100/2					P PANEL TYPE "A"
						3	4						P
PANEL TYPE "A"	P				100/2	5	6	100/2					P PANEL TYPE "A"
						7	8						P
PANEL TYPE "A"	P				100/2	9	10						P
						11	12						P
						13	14						P
						15	16						P
						17	18						P
						19	20						P
						21	22						P
						23	24						P
						25	26						P
						27	28						P
						29	30						P

PANEL "B"													
VOLTS:120/208V		PHASE: 1		SHORT CIRCUIT RATING: 10000A				MAIN: LUGS ONLY					
MOUNTING: FLUSHED		WIRE: 3		ENCLOSURE: NEMA 1 RATED MN.				BUSSING: 100A MN.					
LOAD		A-VA	B-VA	BKR	CT	CT BKR	A-VA	B-VA					LOAD
BATHRM RECEPTS	R			20/1	1	2	20/1						L BEDRMBATHRM LIGHTS
ROOM RECEPT.1	R			20/1	3	4	25/2						M HP/FC-1,2
ROOM RECEPT.2	R			20/1	5	6							M
ROOM RECEPT.3	R			20/1	7	8	20/1						SPARE
KITCHENETTE	K			20/1	9	10	20/1						SPARE
					11	12	20/1						SPARE
KEF	M			20/1	13	14	20/1						SPARE
					15	16	20/1						SPARE
MICROWAVE	K			20/1	17	18	20/1						SPARE
GARBAGE DISPOSAL	M			20/1	19	20	20/1						SPARE
					21	22	20/1						SPARE
					23	24	20/1						SPARE
					25	26	20/1						SPARE
					27	28	20/1						SPARE
					29	30	20/1						SPARE

PANEL "DP3"													
VOLTS:120/208V		PHASE: 3		SHORT CIRCUIT RATING: 10000A				MAIN: LUGS ONLY					
MOUNTING: FLUSHED		WIRE: 4		ENCLOSURE: NEMA 1 RATED MN.				BUSSING: 150A MN.					
LOAD		A-VA	B-VA	C-VA	BKR	CT	CT BKR	A-VA	B-VA	C-VA			LOAD
PANEL TYPE "B"	P				100/2	1	2	100/2					P PANEL TYPE "A"
						3	4						P
PANEL TYPE "B"	P				100/2	5	6	100/2					P PANEL TYPE "A"
						7	8						P
						9	10	100/2					P PANEL TYPE "A"
						11	12						P
						13	14						P
						15	16						P
						17	18						P
						19	20						P
						21	22						P
						23	24						P
						25	26						P
						27	28						P
						29	30						P

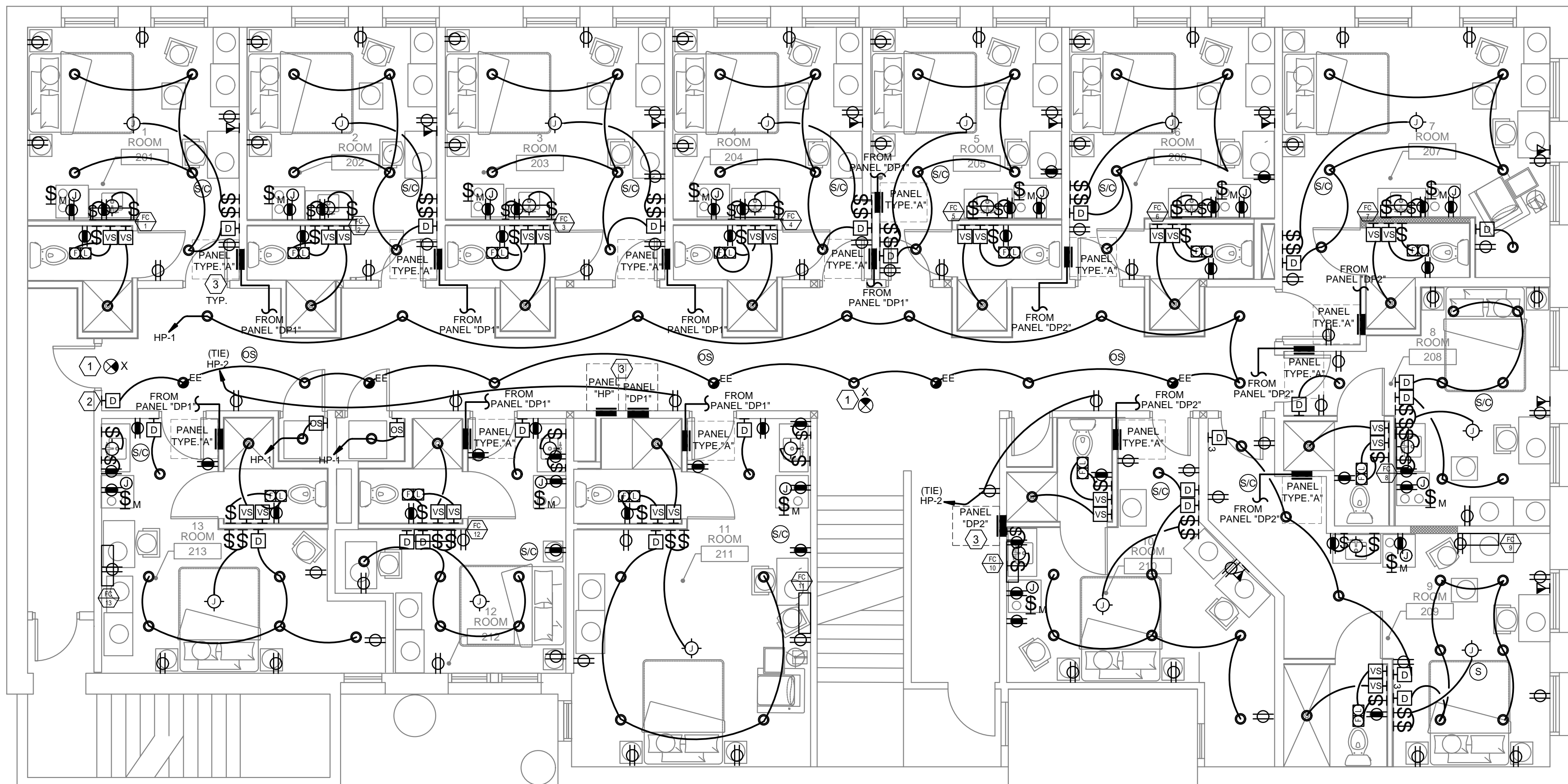
PANEL "DP4"													
VOLTS:120/208V		PHASE: 3		SHORT CIRCUIT RATING: 10000A				MAIN: LUGS ONLY					
MOUNTING: FLUSHED		WIRE: 4		ENCLOSURE: NEMA 1 RATED MN.				BUSSING: 100A MN.					
LOAD		A-VA	B-VA	C-VA	BKR	CT	CT BKR	A-VA	B-VA	C-VA			LOAD
PANEL TYPE "B"	P				100/2	1	2	100/2					P PANEL TYPE "A"
						3	4						P
						5	6	100/2					P PANEL TYPE "A"
						7	8						P
						9	10	100/2					P PANEL TYPE "A"
						11	12						P
						13	14	100/2					P PANEL TYPE "A"
						15	16						P
						17	18						P
						19	20						P
						21	22						P
						23	24						P
						25	26						P
						27	28						P
						29	30						P

NOTES:
RESIDENTIAL PANEL SCHEDULES ARE PROVIDED FOR REFERENCE ONLY. RESIDENTIAL LOAD CALCULATION IS PROVIDED SEPARATELY ACCORDING TO [2022 CEC 220]. REFER TO RESIDENTIAL ELECTRICAL NOTE FOR GENERAL REQUIREMENT INFORMATION.

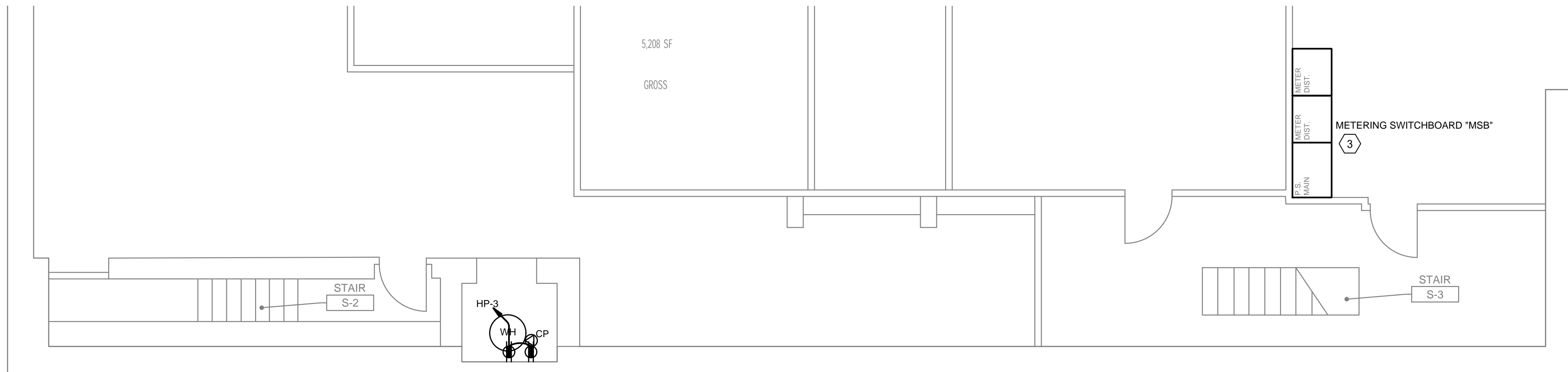
PANEL "HP"													
VOLTS:120/208V		PHASE: 1		SHORT CIRCUIT RATING: 10000A				MAIN: LUGS ONLY					
MOUNTING: FLUSHED		WIRE: 3		ENCLOSURE: NEMA 1 RATED MN.				BUSSING: 50A MN.					
LOAD		A-VA	B-VA	BKR	CT	CT BKR	A-VA	B-VA					LOAD
HALLWAY LIGHTS	L	558		20/1	1	2	20/1	1260					R 2ND HALLWAY RECEPT.
WH	C		300	20/1	3	4	20/1	1260					R 3RD HALLWAY RECEPT.
SPARE				20/1	5	6	20/1	900					R ROOF RECEPTS
SPARE				20/1	7	8	20/1						SPARE
SPARE				20/1	9	10	20/1						SPARE
SPARE				20/1	11	12	20/1						SPARE
PHASE TOTALS:		2718	1560	4278 = TOTAL CONNECTED LOAD, VA (FOR DEMAND LOAD SEE BELOW)									
PHASE AMPERES:		22.7	13.0										
*DEMAND LOAD CALCULATION:													
L=LIGHTING LOADS:		1.25	X	558	=	698	VA						
C=CONTINUOUS LOADS, OTHER:		1.25	X	300	=	375	VA						
M=MOTOR LOADS (INCL LGST):		1.00	X	0	=	0	VA						
LARGEST, VA:		0.25	X	0	=	0	VA						
R=RECEPTACLES: 1ST 10K:		1.00	X	3420	=	3420	VA						
BALANCE:		0.50	X	0	=	0	VA						
K=KITCHEN LOADS: QTY:		1.00	X	0	=	0	VA						
N=NONCONTINUOUS LOADS, OTHER:		1.00	X	0	=	0	VA						
(P=PANEL, INCL. IN ABOVE)		TOTAL N.E.C. DEMAND LOAD = 4493 VA =						21.6 AMPERES					

NOTES:
-EMPTY LOAD: SPACE

DWELLING UNIT LOAD CALCULATION															
BASIC CALCULATIONS PER NEC 220															
UNIT TYPE	GENERAL LIGHTING/POWER LOAD							APPLIANCES				HVAC		UNIT TOTAL LOAD [VA] A+B+C	UNIT TOTAL LOAD [A] @120/208V, 1PH, 3W
	A1	A2	A3	A4	A5	A6	A7	A	B1	B2	B3	B			



ELECTRICAL PLAN - 2ND FLOOR



ELECTRICAL EQUIPMENT AREA - BASEMENT

RESIDENTIAL ELECTRICAL NOTES:

- SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:
 - IN EACH SLEEPING ROOM. [2022 CRC R314.3(1)]
 - OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS. [2022 CRC R314.3(3)]
 - ON EACH ADDITIONAL STORY OF THE DWELLING, INCLUDING BASEMENTS AND HABITABLE ATTICS. [2022 CRC R314.3(3)]
 - INSTALLATION NEAR BATHROOMS. SMOKE ALARMS SHALL BE INSTALLED NOT LESS THAN A 3 FOOT HORIZONTAL DISTANCE FROM THE DOOR OR OPENING OF A BATHROOM THAT CONTAINS A BATHTUB OR SHOWER. [2022 CRC R314.3(5)]
 - SMOKE ALARMS OR SMOKE DETECTORS SHALL BE INSTALLED A MINIMUM OF 20 FEET HORIZONTAL DISTANCE FROM A PERMANENTLY INSTALLED COOKING APPLIANCE. [2022 CRC R314.3.3, NFP72 29.9.3.4(4)]
 - SMOKE ALARMS AND SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN A 36 IN. HORIZONTAL PATH FROM THE SUPPLY REGISTERS OF A FORCED AIR HEATING OR COOLING SYSTEM AND SHALL BE INSTALLED OUTSIDE OF THE DIRECT AIRFLOW FROM THOSE REGISTERS. [2022 CRC R314.3.3, NFP72 29.9.3.4(6)]
- CARBON MONOXIDE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:
 - OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS. [2022 CRC R315.3(1)]
 - ON EVERY OCCUPIABLE LEVEL OF A DWELLING UNIT, INCLUDING BASEMENTS. [2022 CRC R315.3(2)]
 - WHERE A FUEL-BURNING APPLIANCE IS LOCATED WITHIN A BEDROOM OR ITS ATTACHED BATHROOM, A CARBON MONOXIDE ALARM SHALL BE INSTALLED WITHIN THE BEDROOM. [2022 CRC R315.3(3)]
- WHERE MORE THAN ONE SMOKE ALARM OR CARBON MONOXIDE ALARM IS REQUIRED TO BE INSTALLED WITHIN AN INDIVIDUAL DWELLING OR SLEEPING UNIT, THE ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT. [2022 CRC R314.4, R315.5]
- SMOKE ALARMS AND CARBON MONOXIDE ALARMS SHALL BE LISTED IN ACCORDANCE WITH UL 217. COMBINATION SMOKE AND CARBON MONOXIDE ALARMS SHALL BE LISTED IN ACCORDANCE WITH UL 217 AND UL 2034. [2022 CRC R314.1.1, R315.1-1]
- AFCI PROTECTION: ALL 120-VOLT, SINGLE-PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, BEDROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS SHALL BE AFCI PROTECTED. [2022 CEC 210.12(A)]
- GFCI PROTECTION: ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES INSTALLED IN THE FOLLOWING LOCATIONS AND SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND SHALL HAVE GROUND-FULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL. [2022 CEC 210.8(A)]
 - BATHROOMS
 - GARAGES AND ACCESSORY BUILDINGS THAT HAVE A FLOOR LOCATED AT OR BELOW GRADE LEVEL NOT INTENDED AS HABITABLE ROOMS AND LIMITED TO STORAGE AREAS, WORK AREAS, AND SIMILAR
 - OUTDOORS
 - BASEMENTS
 - KITCHENS
 - LAUNDRY AREAS
 - INDOOR DAMP AND WET LOCATIONS
- PROVIDE LISTED TAMPER-RESISTANT RECEPTACLES IN ALL AREAS EXCEPT RECEPTACLES LOCATED MORE THAN 5 1/2 FT ABOVE THE FLOOR AND A SINGLE RECEPTACLE, OR A DUPLEX RECEPTACLE FOR TWO APPLIANCES, LOCATED WITHIN THE DEDICATED SPACE FOR EACH APPLIANCE. [2022 CEC 406.12]
- RECEPTACLE LOCATION AND SPACING BETWEEN ADJACENT RECEPTACLE SHALL BE PER [2022 CEC 210.52]
- ALL WORK TO COMPLY WITH THE [2022 CEC].
- ELECTRICAL EQUIPMENT SHALL BE LISTED BY A CITY RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE CITY DEPARTMENT.
- LIGHTS AND PANELS SHALL NOT BE RECESSED IN FIRE RATED ASSEMBLIES UNLESS BOXED WITH EQUIVALENT CONSTRUCTION.
- PANEL CIRCUIT DIRECTORY TO COMPLY WITH [2022 CEC 408.4].
- READILY ACCESSIBLE OUTDOOR RECEPTACLE SHALL BE INSTALLED AT THE FRONT AND BACK OF THE DWELLING, AND EVERY BALCONIES/DECKS WITH WEATHER PROOF COVER OF EXTERIOR OUTLETS. [2022 CEC 210.52 (E), 406.9(B)(1)]
- ALL ATTIC ACCESSES SHALL BE PROVIDED WITH A SWITCHED LIGHT AND 120 VOLT OUTLET AT OR NEAR THE FORCED AIR UNIT. [2022 CEC 210.70(C)]
- RECEPTACLES/PARTS OF CORD-CONNECTED LUMINAIRES SHALL NOT BE INSTALLED AND LIGHTING FIXTURES SHALL BE LISTED FOR A WET LOCATION WITHIN A ZONE MEASURED 3FT HORIZONTALLY AND 8 FT VERTICALLY FROM THE TOP OF THE BATHTUB RIM OR SHOWER STALL. [2022 CEC 406.9(C), 410.10(D)]
- BATHROOM EXHAUST FAN MUST BE CONTROLLED BY A HUMIDISTAT WHICH SHALL BE READILY ACCESSIBLE. [2022 CALGREEN 4.506.1]
- ALL LIGHTING SHALL BE HIGH EFFICACY. [2022 CEC 150.0(K), TABLE 150.0-A]
- IN BATHROOMS, GARAGES, LAUNDRY ROOMS, UTILITY ROOMS, AND WALK-IN CLOSETS, AT LEAST ONE INSTALLED LUMINAIRE SHALL BE CONTROLLED BY AN OCCUPANCY OR VACANCY SENSOR PROVIDING AUTOMATIC-OFF FUNCTIONALITY. [2022 CEC 150.0(K)(2)(E)]
- LIGHTING IN HABITABLE SPACES, INCLUDING BUT NOT LIMITED TO LIVING ROOMS, DINING ROOMS, KITCHENS, AND BEDROOMS, SHALL HAVE READILY ACCESSIBLE WALL-MOUNTED DIMMING CONTROLS EXCEPT LUMINAIRES CONNECTED TO A CIRCUIT WITH CONTROLLED LIGHTING POWER LESS THAN 20 WATTS OR CONTROLLED BY AN OCCUPANCY/VACANCY SENSOR. [2022 CEC 150.0(K)(2)(F), EXCEPTION 2]

NOTES:
 REFER TO MECHANICAL PLAN FOR HVAC SYSTEM INFO. VERIFY INSTALLATION REQUIREMENTS WITH MANUFACTURER AND PROVIDE PER RECOMMENDATION.

KEYED ELECTRICAL PLAN NOTES:

- EMERGENCY/NL AND EXIT FIXTURES TO BE CONNECTED TO NEARBY ROOM LIGHTING CIRCUIT AHEAD OF LOCAL SWITCH. [CEC 700.12(I)(2)(3)(A)].
- CONTRACTOR TO VERIFY FINAL LOCATION OF SWITCH/DIMMER/CONTROL PACK WITH THE ARCHITECT/OWNER PRIOR TO ROUGH-IN.
- VERIFY/COORDINATE EXACT LOCATION FOR ELECTRICAL EQUIPMENTS AND PROVIDE/MAINTAIN MINIMUM CLEARANCE. [2022 CEC 110.26]

DAYLIGHT CONTROL EXCEPTION NOTES:
 DAYLIGHT CONTROL: COMBINED TOTAL GENERAL LIGHTING POWER IN PRIMARY/SECONDARY SIDELIT DAYLIT ZONE IS LESS THAN 120 WATTS. NO DAYLIGHT CONTROL REQUIRED. [2022 CEC 130.1(D)EXCEPTION(3)]

GENERAL NOTES:

- ELECTRICAL EQUIPMENT SHALL BE LISTED BY U.L. OR CITY RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE CITY DEPARTMENT.
- ALL ELECTRICAL WORK SHALL COMPLY WITH THE [2022 CEC].
- WIRE SIZE SHALL NOT BE LESS THAN CORRESPONDING CIRCUIT BREAKER RATING AS REQUIRED. [2022 CEC TABLE 310.16]
- CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE [2022 CEC ANNEX C].
- CONTRACTOR/ELECTRICIAN TO FIELD VERIFY ACTUAL SITE CONDITION /EXACT SERVICE ENTRANCE AND SHALL NOTIFY EOR(S) ANY DISCREPANCY WITH THE PLAN PRIOR TO BIDDING.
- ALL ITEMS LABELED/IDENTIFIED AS EXISTING (IF ANY) ARE SUBJECT TO FIELD VERIFICATION. VERIFY EXISTING CONDITION AND RE-USE, IF NOT EXISTING, PROVIDE PER PLAN.
- OBTAIN APPROVAL ON LOCATION OF SWITCH/DIMMER/SENSOR WITH ARCHITECT/OWNER AT SITE PRIOR TO ROUGH-IN.
- REFER TO EMERGENCY EXIT ILLUMINATION NOTES FOR EMERGENCY LIGHTING REQUIREMENTS.
- IN CORRIDORS AND STAIRWELLS, LIGHTING SHALL BE CONTROLLED BY OCCUPANT SENSING CONTROLS THAT SEPARATELY REDUCE THE LIGHTING POWER IN EACH SPACE BY AT LEAST 50 PERCENT WHEN THE SPACE IS UNOCCUPIED. THE OCCUPANT SENSING CONTROLS SHALL BE CAPABLE OF AUTOMATICALLY TURNING THE LIGHTING FULLY ON ONLY IN THE SEPARATELY CONTROLLED SPACE, AND SHALL BE AUTOMATICALLY ACTIVATED FROM ALL DESIGNED PATHS OF EGRESS. [2022 CEC 130.1(C)(8)(C)]
- RECEPTACLES OF 15 AND 20 AMPERES, 125 AND 250 VOLTS INSTALLED IN A WET LOCATION SHALL HAVE AN ENCLOSURE THAT IS WEATHERPROOF (WP) AND IS LISTED/IDENTIFIED AS "EXTRA DUTY". THE RECEPTACLES SHALL BE GFCI PROTECTED. [CEC 2022 210.8(B)(4), 406.9(B)]
- COORDINATE LOCATIONS/HEIGHTS OF RECEPTACLES FOR ELECTRICAL DEVICES WITH ARCHITECT AND EQUIPMENT VENDOR PRIOR TO ROUGH-IN.
- ALL NEW ELECTRICAL EQUIPMENT (IF ANY) DIMENSIONS TO BE VERIFIED WITH EQUIPMENT MANUFACTURER/VENDOR PRIOR TO PURCHASE.

REVISION	DATE	BY	DESCRIPTION

DRAWN: H.N. CHECKED: J.L.

DATE: 03/20/2024 SCALE: 3/16" = 1'-0"

SHEET TITLE:
 ELECTRICAL PLAN - 2ND FLOOR

E100

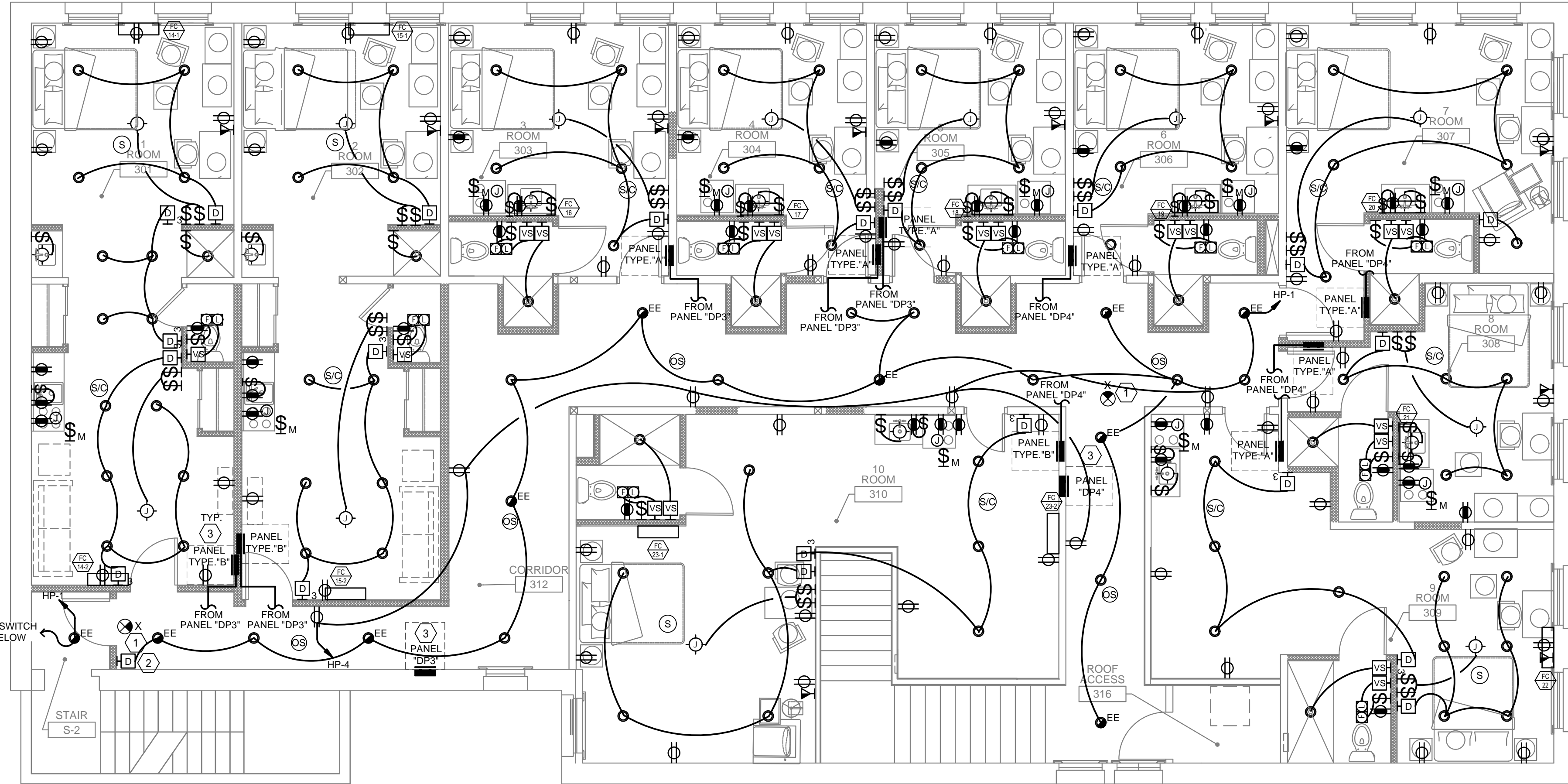


REVISION	DATE	BY	DESCRIPTION

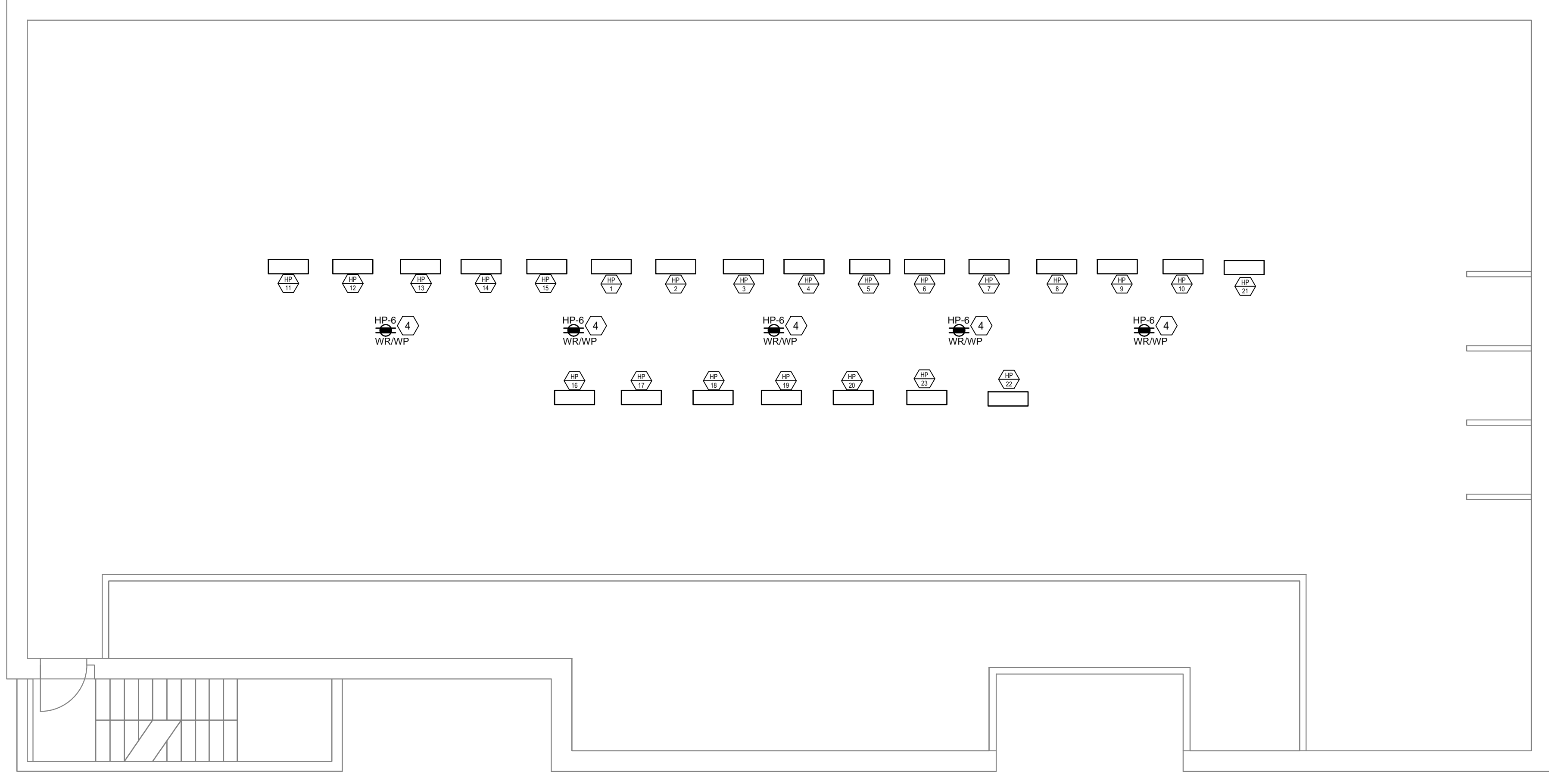
DRAWN: H.N.
 CHECKED: J.L.
 DATE: 03/20/2024
 SCALE: 3/16" = 1'-0"

SHEET TITLE:
 ELECTRICAL PLAN - 3RD FLOOR

E200



ELECTRICAL PLAN - 3RD FLOOR



ELECTRICAL PLAN - ROOF

NOTES:
 REFER TO MECHANICAL PLAN FOR HVAC SYSTEM INFO. VERIFY INSTALLATION REQUIREMENTS WITH MANUFACTURER AND PROVIDE PER RECOMMENDATION.

KEYED ELECTRICAL PLAN NOTES:

- EMERGENCY/NL AND EXIT FIXTURES TO BE CONNECTED TO NEARBY ROOM LIGHTING CIRCUIT AHEAD OF LOCAL SWITCH. [CEC 700.12(B)(2)(3)(A)].
- CONTRACTOR TO VERIFY FINAL LOCATION OF SWITCH/DIMMER/CONTROL PACK WITH THE ARCHITECT/OWNER PRIOR TO ROUGH-IN.
- VERIFY/COORDINATE EXACT LOCATION FOR ELECTRICAL EQUIPMENTS AND PROVIDE/MAINTAIN MINIMUM CLEARANCE. [2022 CEC 110.26]
- PROVIDE GFCI/WATERPROOF/WEATHER RESISTANT RECEPTACLE WITHIN 25FT OF HEATING, AC, AND REFRIGERATION EQUIPMENT.

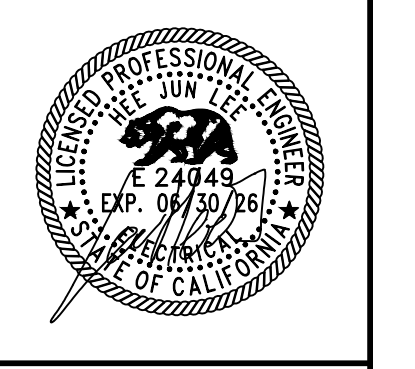
DAYLIGHT CONTROL EXCEPTION NOTES:
 DAYLIGHT CONTROL: COMBINED TOTAL GENERAL LIGHTING POWER IN PRIMARY/SECONDARY SIDELIT DAYLIT ZONE IS LESS THAN 120 WATTS. NO DAYLIGHT CONTROL REQUIRED. [2022 CENC130.1(D)EXCEPTION(3)]

GENERAL NOTES:

- ELECTRICAL EQUIPMENT SHALL BE LISTED BY U.L. OR CITY RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE CITY DEPARTMENT.
- ALL ELECTRICAL WORK SHALL COMPLY WITH THE [2022 CEC].
- WIRE SIZE SHALL NOT BE LESS THAN CORRESPONDING CIRCUIT BREAKER RATING AS REQUIRED. [2022 CEC TABLE 310.16]
- CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE [2022 CEC ANNEX C].
- CONTRACTOR/ELECTRICIAN TO FIELD VERIFY ACTUAL SITE CONDITION /EXACT SERVICE ENTRANCE AND SHALL NOTIFY EOR(S) ANY DISCREPANCY WITH THE PLAN PRIOR TO BIDDING.
- ALL ITEMS LABELED/IDENTIFIED AS EXISTING (IF ANY) ARE SUBJECT TO FIELD VERIFICATION. VERIFY EXISTING CONDITION AND RE-USE, IF NOT EXISTING, PROVIDE PER PLAN.
- OBTAIN APPROVAL ON LOCATION OF SWITCH/DIMMER/SENSOR WITH ARCHITECT/OWNER AT SITE PRIOR TO ROUGH-IN.
- REFER TO EMERGENCY EXIT ILLUMINATION NOTES FOR EMERGENCY LIGHTING REQUIREMENTS.
- IN CORRIDORS AND STAIRWELLS, LIGHTING SHALL BE CONTROLLED BY OCCUPANT SENSING CONTROLS THAT SEPARATELY REDUCE THE LIGHTING POWER IN EACH SPACE BY AT LEAST 50 PERCENT WHEN THE SPACE IS UNOCCUPIED. THE OCCUPANT SENSING CONTROLS SHALL BE CAPABLE OF AUTOMATICALLY TURNING THE LIGHTING FULLY ON ONLY IN THE SEPARATELY CONTROLLED SPACE, AND SHALL BE AUTOMATICALLY ACTIVATED FROM ALL DESIGNED PATHS OF EGRESS. [2022 CENC 130.1(C)(6)(C)]
- RECEPTACLES OF 15 AND 20 AMPERES, 125 AND 250 VOLTS INSTALLED IN A WET LOCATION SHALL HAVE AN ENCLOSURE THAT IS WEATHERPROOF (WP) AND IS LISTED/IDENTIFIED AS "EXTRA DUTY". THE RECEPTACLES SHALL BE GFCI PROTECTED. [CEC 2022 210.8(B)(4), 406.9(B)]
- COORDINATE LOCATIONS/HEIGHTS OF RECEPTACLES FOR ELECTRICAL DEVICES WITH ARCHITECT AND EQUIPMENT VENDOR PRIOR TO ROUGH-IN.
- ALL NEW ELECTRICAL EQUIPMENT (IF ANY) DIMENSIONS TO BE VERIFIED WITH EQUIPMENT MANUFACTURER/VENDOR PRIOR TO PURCHASE.

RESIDENTIAL ELECTRICAL NOTES:

- SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:
 A. IN EACH SLEEPING ROOM. [2022 CRC R314.3(1)]
 B. OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS [2022 CRC R314.3(2)]
 C. ON EACH ADDITIONAL STORY OF THE DWELLING, INCLUDING BASEMENTS AND HABITABLE ATTICS. [2022 CRC R314.3(3)]
 D. INSTALLATION NEAR BATHROOMS, SMOKE ALARMS SHALL BE INSTALLED NOT LESS THAN A 3 FOOT HORIZONTAL DISTANCE FROM THE DOOR OR OPENING OF A BATHROOM THAT CONTAINS A BATHTUB OR SHOWER. [2022 CRC R314.3(5)]
 E. SMOKE ALARMS OR SMOKE DETECTORS SHALL BE INSTALLED A MINIMUM OF 20 FEET HORIZONTAL DISTANCE FROM A PERMANENTLY INSTALLED COOKING APPLIANCE. [2022 CRC R314.3.3, NFP72 29.9.3.4(4)]
 F. SMOKE ALARMS AND SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN A 36 IN. HORIZONTAL PATH FROM THE SUPPLY REGISTERS OF A FORCED AIR HEATING OR COOLING SYSTEM AND SHALL BE INSTALLED OUTSIDE OF THE DIRECT AIRFLOW FROM THOSE REGISTERS. [2022 CRC R314.3.3, NFP72 29.9.3.4(6)]
- CARBON MONOXIDE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:
 A. OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS. [2022 CRC R315.3(1)]
 B. ON EVERY OCCUPIABLE LEVEL OF A DWELLING UNIT, INCLUDING BASEMENTS. [2022 CRC R315.3(2)]
 C. WHERE A FUEL-BURNING APPLIANCE IS LOCATED WITHIN A BEDROOM OR ITS ATTACHED BATHROOM, A CARBON MONOXIDE ALARM SHALL BE INSTALLED WITHIN THE BEDROOM. [2022 CRC R315.3(3)]
- WHERE MORE THAN ONE SMOKE ALARM OR CARBON MONOXIDE ALARM IS REQUIRED TO BE INSTALLED WITHIN AN INDIVIDUAL DWELLING OR SLEEPING UNIT, THE ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT. [2022 CRC R314.4, R315.5]
- SMOKE ALARMS AND CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING AND SHALL BE EQUIPPED WITH A BATTERY BACKUP. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN AS REQUIRED FOR OVERCURRENT PROTECTION. [2022 CRC R314.6, R315.6]
- SMOKE ALARMS AND CARBON MONOXIDE ALARMS SHALL BE LISTED IN ACCORDANCE WITH UL 217. COMBINATION SMOKE AND CARBON MONOXIDE ALARMS SHALL BE LISTED IN ACCORDANCE WITH UL 217 AND UL 2034. [2022 CRC R314.1.1, R315.1.1]
- AFCI PROTECTION: ALL 120-VOLT, SINGLE-PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, BEDROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS SHALL BE AFCI PROTECTED. [2022 CEC 210.12(A)]
- GFCI PROTECTION: ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES INSTALLED IN THE FOLLOWING LOCATIONS AND SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL. [2022 CEC 210.8(A)]
 A. BATHROOMS
 B. GARAGES AND ACCESSORY BUILDINGS THAT HAVE A FLOOR LOCATED AT OR BELOW GRADE LEVEL NOT INTENDED AS HABITABLE ROOMS AND LIMITED TO STORAGE AREAS, WORK AREAS, AND SIMILAR
 C. OUTDOORS
 D. BASEMENTS
 E. KITCHENS
 F. LAUNDRY AREAS
 G. INDOOR DAMP AND WET LOCATIONS
- PROVIDE LISTED TAMPER-RESISTANT RECEPTACLES IN ALL AREAS EXCEPT RECEPTACLES LOCATED MORE THAN 5 1/2 FT ABOVE THE FLOOR AND A SINGLE RECEPTACLE, OR A DUPLEX RECEPTACLE FOR TWO APPLIANCES, LOCATED WITHIN THE DEDICATED SPACE FOR EACH APPLIANCE. [2022 CEC 406.12]
- RECEPTACLE LOCATION AND SPACING BETWEEN ADJACENT RECEPTACLE SHALL BE PER [2022 CEC 210.52].
- ALL WORK TO COMPLY WITH THE [2022 CEC].
- ELECTRICAL EQUIPMENT SHALL BE LISTED BY A CITY RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE CITY DEPARTMENT.
- LIGHTS AND PANELS SHALL NOT BE RECESSED IN FIRE RATED ASSEMBLIES UNLESS BOXED WITH EQUIVALENT CONSTRUCTION.
- PANEL CIRCUIT DIRECTORY TO COMPLY WITH [2022 CEC 408.4].
- READILY ACCESSIBLE OUTDOOR RECEPTACLE SHALL BE INSTALLED AT THE FRONT AND BACK OF THE DWELLING, AND EVERY BALCONIES/DECKS WITH WEATHER PROOF COVER OF EXTERIOR OUTLETS. [2022 CEC 210.52 (E), 406.9(B)(1)]
- ALL ATTIC ACCESSES SHALL BE PROVIDED WITH A SWITCHED LIGHT AND 120 VOLT OUTLET AT OR NEAR THE FORCED AIR UNIT. [2022 CEC 210.70(C)]
- RECEPTACLES/PARTS OF CORD-CONNECTED LUMINAIRES SHALL NOT BE INSTALLED AND LIGHTING FIXTURES SHALL BE LISTED FOR A WET LOCATION WITHIN A ZONE MEASURED 3FT HORIZONTALLY AND 8 FT VERTICALLY FROM THE TOP OF THE BATHTUB RIM OR SHOWER STALL. [2022 CEC 406.9(C), 410.10(D)]
- BATHROOM EXHAUST FAN MUST BE CONTROLLED BY A HUMIDISTAT WHICH SHALL BE READILY ACCESSIBLE. [2022 CALGREEN 4.506.1]
- ALL LIGHTING SHALL BE HIGH EFFICACY. [2022 CENC 150.0(K), TABLE 150.0-A]
- IN BATHROOMS, GARAGES, LAUNDRY ROOMS, UTILITY ROOMS, AND WALK-IN CLOSETS, AT LEAST ONE INSTALLED LUMINAIRE SHALL BE CONTROLLED BY AN OCCUPANCY OR VACANCY SENSOR PROVIDING AUTOMATIC-OFF FUNCTIONALITY. [2022 CENC 150.0(K)(2)(E)]
- LIGHTING IN HABITABLE SPACES, INCLUDING BUT NOT LIMITED TO LIVING ROOMS, DINING ROOMS, KITCHENS, AND BEDROOMS, SHALL HAVE READILY ACCESSIBLE WALL-MOUNTED DIMMING CONTROLS EXCEPT LUMINAIRES CONNECTED TO A CIRCUIT WITH CONTROLLED LIGHTING POWER LESS THAN 20 WATTS OR CONTROLLED BY AN OCCUPANCY/VACANCY SENSOR. [2022 CENC 150.0(K)(2)(F), EXCEPTION 2]



REVISION					
1					
2					
3					
4					
5					

DRAWN: H.N.
 CHECKED: J.L.
 DATE: 03/20/2024
 SCALE: N.T.S.

SHEET TITLE:
 TITLE24 - INDOOR

TE00

STATE OF CALIFORNIA
Indoor Lighting
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Project Name: 6TH. AND F RESIDENTIAL HOTEL
 Report Page: (Page 3 of 7)
 Project Address: 545 "F" STREET, SAN DIEGO, CA 92101
 Date Prepared: 2024-06-09T05:16:21-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change	Watts per luminaire	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector
L1	LED CEILING LIGHT	No	NA	10	Mfr. Spec	39	No	390	Pass
Total Designated Watts: CONDITIONED SPACES									
Total Designated Watts: 390									

05 must be >= 08
140.6 / 170.2(e)

FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75%/80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.
 Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS
 This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)
 This table includes lighting controls for conditioned and unconditioned spaces.

01	02	03
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Field Inspector
NA < 4,000W subject to multilevel	See Area/Space Level Controls	Pass
		Fail

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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 Schema Version: rev 20220101
 Compliance ID: 104134-0624-0006
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Indoor Lighting
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Project Name: 6TH. AND F RESIDENTIAL HOTEL
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C. COMPLIANCE RESULTS
 If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)					Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)			Compliance Results
	01	02	03	04	05	06	07	08	
Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	Total Allowed	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	Total Adjusted (Watts) *Includes Adjustments	05 must be >= 08 140.6 / 170.2(e)	
(See Table I)	(See Table I)	(See Table J)	(See Table K)	=	456.4	390	=	COMPLIES	
Conditioned	456.4			=	456.4	390	=	COMPLIES	
Unconditioned				=			=	COMPLIES	

Controls Compliance (See Table H for Details)
Rated Power Reduction Compliance (See Table Q for Details)

D. EXCEPTIONAL CONDITIONS
 This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
 This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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CERTIFICATE OF COMPLIANCE
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R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
 This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
 This section does not apply to this project.

T. DWELLING UNIT LIGHTING
 This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online.

Form/Title

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

Form/Title

Systems/Spaces To Be Field Verified
 HALLWAY; STORAGE

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS
 This section does not apply to this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
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J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
 This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
 This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
 This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
 This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS
 This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
 This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
 This section does not apply to this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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STATE OF CALIFORNIA
Indoor Lighting
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CERTIFICATE OF COMPLIANCE
 Project Name: 6TH. AND F RESIDENTIAL HOTEL
 Report Page: (Page 1 of 7)
 Project Address: 545 "F" STREET, SAN DIEGO, CA 92101
 Date Prepared: 2024-06-09T05:16:21-04:00

A. GENERAL INFORMATION

01 Project Location (city)	SAN DIEGO	04 Total Conditioned Floor Area (ft²)	1,141
02 Climate Zone	7	05 Total Unconditioned Floor Area (ft²)	0
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	0

• Hotel/Motel

B. PROJECT SCOPE
 This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces	Unconditioned Spaces		
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
<input checked="" type="checkbox"/> New Lighting System	Area Category Method	1141	N/A	0
<input type="checkbox"/> New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)		1141		

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CERTIFICATE OF COMPLIANCE
 Project Name: 6TH. AND F RESIDENTIAL HOTEL
 Report Page: (Page 4 of 7)
 Project Address: 545 "F" STREET, SAN DIEGO, CA 92101
 Date Prepared: 2024-06-09T05:16:21-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls	04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) / 160.5(b)4C	Primary/Sky Light Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(e) / 160.5(b)4E	Interlocked Systems 140.5(a)1 / 170.2(e)2A	Field Inspector	Pass	Fail
HALLWAY	Corridor	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No		<input type="checkbox"/>	<input type="checkbox"/>
STORAGE	All Other Space Types	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No		<input type="checkbox"/>	<input type="checkbox"/>
13 Plan Sheet Showing Daylit Zones:										

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
 Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used.

Conditioned Spaces	01	02	03	04	05	06
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Area Category	PAF
HALLWAY	Corridor	0.4	1,116	446.4	No	No
STORAGE	All Other Space Types	0.4	25	10	No	No
TOTALS:			1,141	456.4	See Tables J, or P for detail	

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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STATE OF CALIFORNIA
Indoor Lighting
 CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
 Project Name: 6TH. AND F RESIDENTIAL HOTEL
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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jake Lee
 Signature Date: 6/13/2024

Address: 8890 RESEARCH DR., SUITE 100, IRVINE, CA 92618
 Phone: 949-533-4117

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I verify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building owner must provide to the building owner at occupancy.

Responsible Designer Name: Jake Lee
 Signature Date: 6/13/2024

Address: 8890 RESEARCH DR., SUITE 100, IRVINE, CA 92618
 Phone: 949-533-4117

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