GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE 2020 VERSION OF THE NATIONAL ELECTRICAL CODE AND ALL OTHER LOCAL CODES, LAWS, AND ORDINANCES. WHERE ONE CODE DIFFERS FROM ANOTHER, THE STRICTER OF THE TWO SHALL APPLY.
2. IT IS THE DUTY OF THE ELECTRICAL CONTRACTOR TO BE FAMILIAR WITH THE CONSTRUCTION DETAILS OF THE BUILDING. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE ELECTRICAL SYSTEM WITH ALL OTHER TRADES AND SHALL COMPLETE THE ELECTRICAL INSTALLATION AS SOON AS CONDITIONS WILL ALLOW.
3. ALL WORK SHALL BE DONE IN A NEAT, QUALITY MANNER WITH ALL WIRING AND RACEWAYS CONCEALED.
4. ALL ELECTRICAL DRAWINGS ARE GENERALLY DIAGRAMMATIC IN NATURE. THE ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES WORKING ON THE PREMISES.
5. ELECTRICAL CONTRACTOR SHALL CONTACT THE ARCHITECT AFTER INSTALLATION OF ALL SWITCH, RECEPTACLE, TELEPHONE, TELEVISION, AND LIGHTING BOXES FOR AN ON-SITE REVIEW BEFORE ANY WIRING IS INSTALLED OR WALL SURFACES ARE COMPLETE. THE ARCHITECT MAY, AT THIS POINT, MAKE ADJUSTMENTS TO THE BOX LOCATIONS AS DESIRED.
6. WHERE CONDUIT AND WIRING HAS NOT BEEN SHOWN ON THE DRAWINGS THE ARRANGEMENT AND ROUTING OF LIGHTING AND RECEPTACLE BRANCH CIRCUITS WILL BE AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED GOOD PRACTICE, N.E.C. REQUIREMENTS AND THE FOLLOWING LIMITATIONS:
   A. SIZE BRANCH CIRCUIT CONDUCTORS WITHIN THE FOLLOWING MAXIMUM LENGTH LIMITS: (MEASURE TO THE CENTER OF THE LOAD FOR LIGHTING CIRCUITS AND THE MOST REMOTE OUTLET FOR RECEPTACLE CIRCUITS)

	#12	#10	#8	#6
120V., 20A.	85'	110'	165'	270'
277V., 20A.	160'	250'	390'	600'

7. THIS PROJECT TO MEET NFPA 72 AND ADA REQUIREMENTS REGARDING MOUNTING HEIGHTS OF ELECTRICAL DEVICES.
8. RECESSED LIGHTING FIXTURES MUST HAVE 1/2" CLEARANCE FROM COMBUSTIBLE MATERIALS AND 3" CLEARANCE FROM INSTALLATION OR BE IC RATED PER ARTICLE 410.116 (A) 1 AND 2 AND 410.116 (B) OF THE 2020 NEC.
9. DURING CONSTRUCTION OPERATIONS, THE ELECTRICAL CONTRACTOR SHALL FAITHFULLY MAKE A RECORD OF ALL APPROVED CHANGES FROM THE CONTRACT DRAWINGS, INCLUDING ACCURATE DIMENSIONS WHERE APPLICABLE, AND SHALL ALSO RECORD ACCURATE DIMENSIONS LOCATING ALL BELOW-GRADE OUTSIDE ELECTRICAL UTILITIES (WHETHER CHANGED OR NOT) WITH REFERENCE TO PERMANENT ABOVE-GRADE OBJECTS.
   AT THE COMPLETION OF THE WORK ALL SUCH CHANGES SHALL BE RECORDED NEATLY IN RED INK BY THE ELECTRICAL CONTRACTOR ON AN UNUSED SET OF THE ELECTRICAL CONTRACT DRAWINGS SUPPLIED BY THE ARCHITECT. THE RED LINE CHANGES SHALL BE REVIEWED AND APPROVED BY THE ENGINEER AND THE COMPLETED RECORD PRINTS RETURNED TO THE ARCHITECT.
10. MINIMUM SIZE CONDUIT FOR 20A CIRCUITS IS 3/4" CONDUIT FOR METALLIC AND PVC CONDUIT. MC CABLE IS PERMISSIBLE FOR LIGHT FIXTURE WHIPS ONLY (LESS THAN 6 FEET) PROVIDED THAT THEY ARE FURNISHED BY THE LIGHTING MANUFACTURER.
11. ALL PRE-WIRED EQUIPMENT MUST BE LISTED AND LABELED BY AN APPROVED TESTING AGENCY PER ARTICLE 110.3 (A AND B) OF THE 2020 NEC.
12. THE TERMINATION PROVISIONS OF EQUIPMENT MUST BE USED IN DETERMINING THE AMPACITIES OF CONDUCTORS BASED ON TABLE 310.16 REGARDLESS OF THE INSTALLATION RATING OF THE CONDUCTORS PER ARTICLE 110.14 (C) 1 AND 2 OF THE 2020 NEC.
13. FLASH PROTECTION WARNING LABELS REQUIRED ON SWITCHBOARDS, PANEL BOARDS, AND MOTOR CONTROL CENTERS PER ARTICLE 110.16 OF THE 2020 NEC.
14. SPACES ABOUT ELECTRICAL EQUIPMENT MUST MEET 110.26 (A THROUGH F) ARTICLE 2020 NEC.
15. SERVICE DISCONNECTING MEANS MUST BE LABELED AS SUITABLE FOR USE AS SERVICE EQUIPMENT 230.66 AND 230.70 OF THE 2020 NEC.
16. RACEWAYS AND CABLES INSTALLED ABOVE SUSPENDED CEILING REQUIRED TO HAVE INDEPENDENT SUPPORT WIRES. CEILINGS GRID WIRES CANNOT BE USED TO SUPPORT RACEWAY AND CABLES UNLESS CEILING GRID IS RATED FOR SUPPORT PER ARTICLE 300.11 OF THE 2020 NEC.
17. TYPE NM, NMC AND NMS CABLES CANNOT BE USED ABOVE SUSPENDED CEILINGS PER ARTICLE 334.12 OF THE 2020 NEC.
18. FLEXIBLE CORDS CANNOT BE USED AS A SUBSTITUTE FOR FIXED WIRE OR CONCEALED ABOVE SUSPENDED CEILING PER ARTICLE 400.8 (1) AND (5) PER THE 2020 NEC.
19. INDIVIDUAL UNIT EQUIPMENT USED FOR EXIT SIGNS AND EMERGENCY LIGHTS THAT USES A RECHARGEABLE BATTERY MUST BE SUPPLIED BY THE CIRCUIT THAT SUPPLIES THE NORMAL LIGHTING FOR THAT AREA PER ARTICLE 700.12 (F) AND 700.17 OF THE 2020 NEC.
20. LAY IN FIXTURES INSTALLED IN SUSPENDED CEILINGS SHALL BE FASTENED TO GRID BY SCREWS OR LISTED CLIPS PER ARTICLE 410.36 OF THE 2020 NEC.

POWER LEGEND

- 20A, 125V, 2P, NEMA 5-20R DUPLEX RECEPTACLE MOUNTED IN SINGLE GANG DEVICE BOX. MOUNT 20" AFF TO TOP OF DEVICE BOX UNLESS NOTED OTHERWISE.
- 20A, 125V, 2P, 3W, NEMA 5-20R DUPLEX RECEPTACLE MOUNTED IN SINGLE GANG DEVICE BOX. MOUNTED ABOVE TOP OF AND COORDINATED WITH COUNTERTOP
- FED-SPEC GRADE USB & USB-C CHARGER INTEGRAL TO TAMPER-RESISTANT DUPLEX RECEPTACLE MOUNTED HORIZONTALLY IN SINGLE GANG DEVICE BOX. MOUNT ABOVE COUNTER 42" AFF UNLESS NOTED OTHERWISE. PROVIDE LEGRAND #radiant#62GUSBACWCC4 OR APPROVED EQUAL.
- G — FED-SPEC GRADE USB & USB-C CHARGER INTEGRAL TO TAMPER-RESISTANT GFCI DUPLEX RECEPTACLE MOUNTED HORIZONTALLY IN SINGLE GANG DEVICE BOX. MOUNT ABOVE COUNTER 42" AFF UNLESS NOTED OTHERWISE. PROVIDE LEGRAND #2097TRUSBACWC4 OR APPROVED EQUAL.
- QUADRAPLEX OUTLET, 2 DUPLEX RECEPTACLES MOUNTED IN TWO GANG DEVICE BOX. MOUNT 20" AFF TO TOP OF DEVICE BOX UNLESS NOTED OTHERWISE
- FED-SPEC GRADE USB CHARGER INTEGRAL TO TAMPER-RESISTANT QUADRAPLEX RECEPTACLE MOUNTED IN TWO GANG DEVICE BOX. MOUNT 20" AFF UNLESS NOTED OTHERWISE. PROVIDE WIREMOLD #TR5262USB-FINISH OR APPROVED EQUAL.
- POWER OUTLET, 250V, SIZED AS NOTED.
- TYPICAL DATA/COMM OUTLET DOUBLE GANG OUTLET BOX WITH SINGLE GANG MUD RING. ROUTE 3/4 INCH CONDUIT TO ABOVE CEILING SPACE. PROVIDE PULL STRING. COMMUNICATIONS CONTRACTOR TO PROVIDE FACE PLATE, WIRING, AND FINAL CONNECTIONS.
- G — ADJACENT TO RECEPTACLE, DENOTES GROUND FAULT INTERRUPTER RECEPTACLE (FEED THRU TYPE).
- WP — ADJACENT TO RECEPTACLE, INDICATES WEATHERPROOF IN-USE TYPE COVER TO BE INSTALLED.
- WR — ADJACENT TO RECEPTACLE, INDICATES WEATHER RESISTANT TYPE RECEPTACLE.
- WATER HEATER
- JUNCTION BOX
- LIGHTING OR RECEPTACLE PANEL BOARD.
- 30A/3P — NON-FUSED DISCONNECT SWITCH.
- 30A/3P/3R — FUSED DISCONNECT SWITCH. FUSED AS NOTED
- FWE — ADJACENT TO DEVICE, DENOTES DISCONNECT SWITCH FURNISHED WITH EQUIPMENT BY MANUFACTURER.
- SM — MOTOR RATED SWITCH, CONTINUOUS CURRENT RATED, QUANTITY OF POLES AS REQUIRED
- C — DEFINITE PURPOSE CONTACTOR
- MOTOR STARTER OR VFD
- EF — EXHAUST FAN, SEE MECHANICAL DRAWINGS FOR FAN SPECIFICATIONS.
- M — 2HP — MOTOR, HORSE POWER AS SHOWN
- PNL (##) "HOME-RUN" TO PANEL BOARD.

DRAWING LEGEND

E# / (#) — SEE SHEET NO. E#, VIEW NO. (#).

BRAND STANDARDS NOTE

THE FRANCHISE BRAND STANDARDS DESIGN DOCUMENT SHALL BE CONSIDERED AS AN INTEGRAL PART OF THE CONSTRUCTION DOCUMENTS. ALL CONTRACTORS SHALL ENSURE THEY OBTAIN, READ AND FAMILIARIZE THEMSELVES WITH THE BRAND STANDARDS DOCUMENT BEFORE BIDDING AND ALSO THROUGHOUT THE CONSTRUCTION STAGES. IF THERE ARE ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND THE FRANCHISE BRAND STANDARDS, THE CONTRACTOR SHALL ISSUE AN RFI TO THE ARCHITECT AND ENGINEER OF RECORD.

LIGHTING FIXTURE SCHEDULE

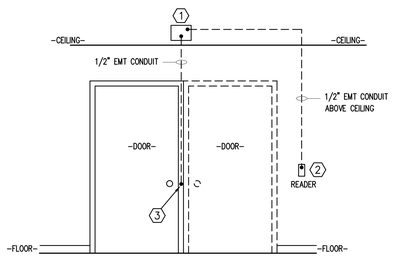
TYPE	DESCRIPTION	LAMP	MANUFACTURER PART #	KELVIN	VOLTAGE	WATTAGE	MOUNTING	COMMENTS
A1	6" LED RECESSED DOWNLIGHT (2500 LUMENS)	LED	PRESCOLITE CATALOG #LFR-6RD-H-ML25L-DM1-LFR-6RD-T-ML30K9WDS	3000K	120	28 W	RECESSED MOUNTED	
A2	6" LED RECESSED DOWNLIGHT WITH BLACK FLANGE & TRIM (1500 LUMENS)	LED	ATLANTIC LIGHTING CATALOG #COM6-SYL15-3K-U-9CR	3000K	120	18 W	RECESSED MOUNTED	
B1	4" RECESSED LED WALL WASH DOWNLIGHT (1500 LUMENS)	LED	PRESCOLITE CATALOG #LFR-4RD-H-SL15L-DM1-LFR-4RD-T-SL30K9LWW	3000K	120	19 W	RECESSED MOUNTED	
B2	4" RECESSED LED DOWNLIGHT (2500 LUMENS)	LED	PRESCOLITE CATALOG #LFR-4RD-H-ML25L-DM1-LFR-4RD-T-HL30K9MD-S-FINISH	3000K	120	21 W	RECESSED MOUNTED	
B3	4" RECESSED LED DOWNLIGHT (1000 LUMENS)	LED	PRESCOLITE CATALOG #LFR-4RD-H-SL10L-DM1-LFR-4RD-T-SL30K8MD-S-FINISH	3000K	120	12 W	RECESSED MOUNTED	
C1	4' LINEAR LED STRIP LIGHTING (6000 LUMENS)	LED	COLUMBIA LIGHTING CATALOG #MPS4-40HL-CW-EDU	4000K	120	42 W	SURFACE MOUNTED	
C2	2' LINEAR LED STRIP LIGHTING (3400 LUMENS)	LED	COLUMBIA LIGHTING CATALOG #MPS2-40ML-CW-EDU	4000K	120	25 W	SURFACE MOUNTED	
C3	4' LINEAR LED STRIP LIGHT WITH OCCUPANCY SENSOR INTEGRAL TO FIXTURE (6000 LUMENS)	LED	PORTER LIGHTING CATALOG #PT-STL-4FT-C3P	4000K	120	45 W	WALL MOUNTED	
EX1	THERMOPLASTIC LED EXIT SIGN WITH BATTERY BACKUP	LED	COMPASS LIGHTING CATALOG #CER		120	3 W	PER MANUFACTURER	
EX2	TWO-SIDED LED THERMOPLASTIC EXIT SIGN WITH BATTERY BACKUP	LED	COMPASS LIGHTING CATALOG #CER		120	3 W	PER MANUFACTURER	
EX3	THERMOPLASTIC LED EXIT SIGN COMBO WITH HEADS, AND HIGH OUTPUT BATTERY TO FEED EXIT DISCHARGE LIGHT "ER" BELOW	LED	COMPASS LIGHTING CATALOG #CCRRC		120			
EX4	LED THERMOPLASTIC EXIT SIGN COMBO WITH HEADS & BATTERY BACKUP	LED	COMPASS LIGHTING CATALOG #CCR		120	3 W	PER MANUFACTURER	
ER	2-LAMP WEATHERPROOF REMOTE HEAD POWERED BY EXIT SIGN "EX3" ABOVE	LED	COMPASS LIGHTING CATALOG #CORD		6	3 W	PER MANUFACTURER	
EM1	LED DUAL HEAD FIXTURE WITH BATTERY BACKUP INTEGRAL TO FIXTURE	LED	COMPASS LIGHTING CATALOG #CU2		120	3 W	PER MANUFACTURER	
EM2	LED RECESSED DUAL HEAD FIXTURE WITH BATTERY BACKUP INTEGRAL TO FIXTURE	LED	DUAL LITE LIGHTING CATALOG #EV4R		120	3 W	PER MANUFACTURER	
EM3	HIGH OUTPUT LED DUAL HEAD FIXTURE WITH BATTERY BACKUP INTEGRAL TO FIXTURE	LED	COMPASS LIGHTING CATALOG #CU2HL		120	3 W	PER MANUFACTURER	
F1	2'X2' LED RECESSED FLAT PANEL (5000 LUMENS)-GRID	LED	COLUMBIA LIGHTING CATALOG #CBT22-A-LSCS-EDD	3500K	120	38 W	RECESSED MOUNTED	
F2	2'X2' LED RECESSED FLAT PANEL (5000 LUMENS)-FLANGE KIT	LED	COLUMBIA LIGHTING CATALOG #CBT22-A-LSCS-EDD-FK22	3500K	120	38 W	RECESSED MOUNTED	
G	4' INDUSTRIAL SEALED AND GASKETED LINEAR LED STRIP FIXTURE	LED	COLUMBIA LIGHTING CATALOG #LXEM4-40VL-RFA-EU	4000K	120	62 W	SURFACE MOUNTED IN ELEVATOR SHAFT	
GE	SAME AS TYPE 'G' ABOVE EXCEPT WITH BATTERY BACKUP INTEGRAL TO FIXTURE							
G1	4' INDUSTRIAL SEALED AND GASKETED LINEAR LED STRIP FIXTURE	LED	COLUMBIA LIGHTING CATALOG #LXEM4-40VL-RFA-EU	4000K	120	62 W	CEILING MOUNTED	
GA1	4" LED DOWNLIGHT (GUEST ROOM)	LED	PRESCOLITE LIGHTING CATALOG #LBRST-4RD-M-LSSL-CS9-WH-FRAME4R-HB	3000K	120	13 W	RECESSED MOUNTED	
H	WALL SCONCE AT POOL PATIO	LED	TO BE SELECTED BY OWNER		120	30 W	WALL MOUNTED	
PA-201	PENDANT AT WORK ZONE	LED	ARKANSAS LIGHTING CATALOG #4098P-LED	3000K	120	80 W	PENDANT MOUNTED	
PA-202	24" LED VANITY FIXTURE (PUBLIC AREA - BATHROOM)	LED	ARKANSAS LIGHTING CATALOG #4530V-24-LED-GB	3000K	120	24 W	WALL MOUNTED	NOTE 7
PA-204	LED WALL SCONCE (GUEST CORRIDOR)	(2)LED, A15/E26 SOCKET	ARKANSAS LIGHTING CATALOG #4529C-FINISH	3000K	120	20 W	WALL MOUNTED	NOTE 7
PA-205	3-LIGHT LINEAR PENDANT LED FIXTURE (PUBLIC AREA - RECEPTION)	(3)LED, A15/E26 SOCKET	ARKANSAS LIGHTING CATALOG #4641P-FINISH	3000K	120	20 W	PENDANT MOUNTED	NOTE 7
S-#FT	LED STRING LIGHTING	LED	CALIFORNIA ACCENT LIGHTING CATALOG #ML2000-24-2.7-GSFL-DM-WET-LENGTH-ML2000-PP	2700K	120	3W/HEAD	COORDINATE WITH ARCHITECT FOR MOUNTING OF FIXTURES	
T-#FT	120V TRACK WITH LED HEADS WITH 1A CURRENT LIMITING DEVICE	LED	(TRACK) LITE-LINE LIGHTING CATALOG #ATK-LENGTH-FINISH (HEAD) LITE-LINE LIGHTING CATALOG #ATF8010-27-90-FINISH	2700K	120	10W/HEAD	COORDINATE WITH ARCHITECT FOR MOUNTING OF FIXTURES	
U-#FT	LED TAPE LIGHT FIXTURE	LED	BL LIGHTING CATALOG #BL NEONVIEW-BR-SL-SI-LS-VB-2700K-LEAD-NVBRSL-VB-CHS	2700K	24	6W/FT	COORDINATE WITH ARCHITECT FOR MOUNTING OF FIXTURES	

LIGHTING FIXTURE SCHEDULE NOTES:

1. LIGHTING FIXTURES MANUFACTURER SHALL BE PROVIDED AS SPECIFIED, UNLESS PRE-APPROVED DURING BIDDING BY THE ARCHITECT/ENGINEER.
2. VERIFY VOLTAGE REQUIREMENTS WITH RESPECT TO FLOOR PLAN CIRCUITING AND PANEL SCHEDULES.
3. VERIFY MOUNTING HEIGHTS ON ALL WALL, SURFACE, AND PENDANT MOUNTED FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.
4. VERIFY ALL LUMINAIRE COLOR SELECTIONS WITH ARCHITECT PRIOR TO PURCHASING AND INSTALLING.
5. BATTERY PACKS FOR ALL EXIT AND EMERGENCY LIGHT FIXTURES SHALL BE CAPABLE OF PROVIDING EMERGENCY POWER TO THE FIXTURES FOR A MINIMUM OF 90 MINUTES.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED ACCESSORY PARTS FOR THE TRACK LIGHTING SYSTEM TO MAKE A COMPLETE WORKING TRACK SYSTEM. THIS INCLUDES BUT NOT LIMITED TO TRACK, 120V ADAPTERS, END PIECES, CORNER PIECES, PENDANT MOUNTED ADAPTERS, HANGERS, ETC.
7. CONTACT: MARIA GUNTER (mgunter@arkansaslighting.com) OR SONJA HUTCHISON (shutchison@trinitylighting.com).

ACCESS CONTROL LEGEND

CR — DENOTES CARD READER AT THIS LOCATION. PROVIDE 2-GANG BOX AND 3/4" CONDUIT STUBBED UP TO ACCESSIBLE SPACE ABOVE CEILING FOR CONNECTION. CONNECTION TO BE BY OWNER'S VENDOR. SEE SHEET E100 FOR LOCATIONS.



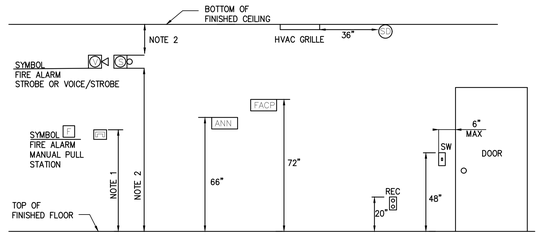
SINGLE OR DOUBLE DOOR ACCESS CONTROL DETAIL
-NO SCALE-

GENERAL NOTES:

1. ALL CONDUIT AND DEVICE BOXES TO BE CONCEALED AND RECESSED IN WALLS UNLESS ABSOLUTELY UNAVOIDABLE. COORDINATE WITH GC AND OWNER WHEN SURFACE MOUNTED COMPONENTS ARE TO BE INSTALLED.

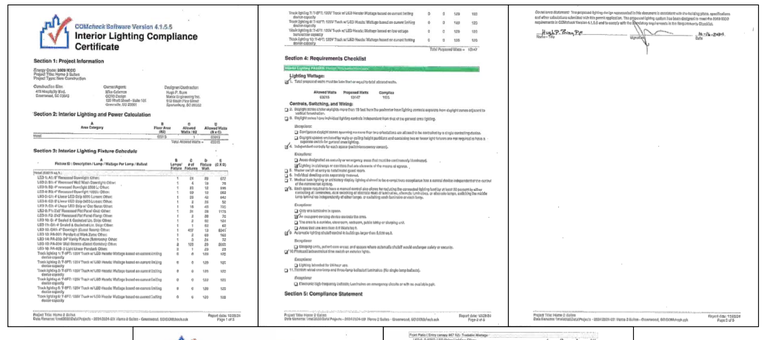
KEYED NOTES:

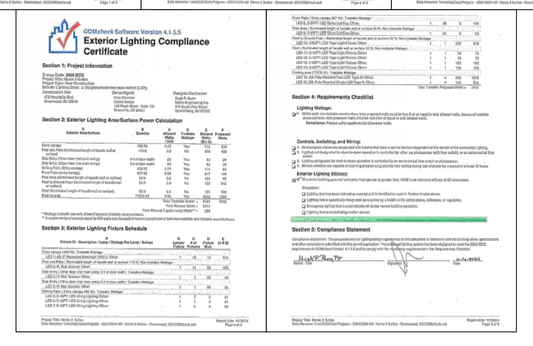
1. DENOTES 2-GANG JUNCTION BOX IN CEILING SPACE ABOVE ACCESSED CONTROLLED DOOR.
2. DENOTES 1-GANG DEVICE BOX RECESSED OR SURFACE AS REQUIRED ADJACENT TO ACCESS CONTROLLED DOOR(S). INSTALL AT 48 INCHES TO TOP OF BOX. COORDINATE LOCATION WITH OWNER'S REPRESENTATIVE BEFORE INSTALLATION.
3. DENOTES DOOR STRIKE TO BE CONTROLLED BY LOW VOLTAGE CONTROL UNIT.



TYPICAL DEVICE MOUNTING HEIGHT
SCALE: NONE

MOUNTING NOTES:
1. MOUNT PULL STATION 4'-0"AFF TO THE TOP OF BOX.
2. MOUNT STROBE OR SPEAKER/HORN COMBINATION AT LEAST 80"AFF AND NOT MORE THAN 96"AFF. MOUNT DEVICE AT LEAST 6" DOWN FROM CEILING.


COMcheck Software Version 4.1.5.5
Interior Lighting Compliance Certificate


COMcheck Software Version 4.1.5.5
Exterior Lighting Compliance Certificate

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PROJECT NUMBER: 2024-091

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475 HOSPITALITY BLVD, GREENWOOD, SC 29649

Client Logo:
HOME2 SUITES BY HILTON

Seals :
MATRIX ENGINEERING INC. No. C01034 — NORTH CAROLINA CERTIFICATE OF AUTHORIZATION
No. 9801 — REGISTERED PROFESSIONAL ENGINEER — SOUTH CAROLINA — 10-16-2024

Revisions :

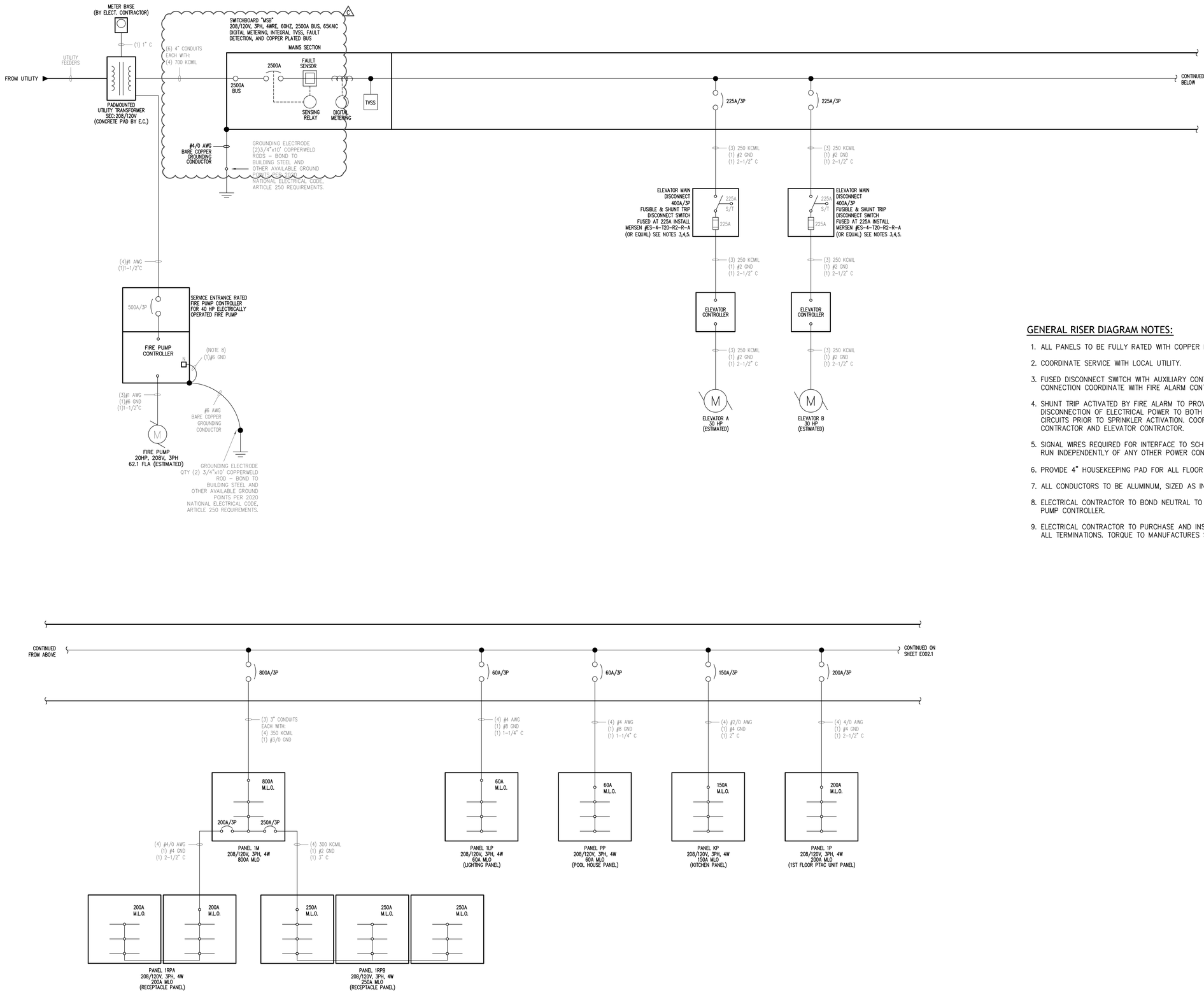
	10.16.2024	Issue For Permit
A	03.20.2025	100% Issue For Hilton
B	06.11.2025	Owner revisions/corrections

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Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:
E001

Sheet Title :
GENERAL NOTES, LEGENDS, & FIXTURE SCHEDULE



RISER DIAGRAM (1 OF 2)

SCALE: NONE

GENERAL RISER DIAGRAM NOTES:

1. ALL PANELS TO BE FULLY RATED WITH COPPER PLATED BUS.
2. COORDINATE SERVICE WITH LOCAL UTILITY.
3. FUSED DISCONNECT SWITCH WITH AUXILIARY CONTACTS FOR FIRE ALARM CONNECTION COORDINATE WITH FIRE ALARM CONTRACTOR.
4. SHUNT TRIP ACTIVATED BY FIRE ALARM TO PROVIDE INDEPENDENT DISCONNECTION OF ELECTRICAL POWER TO BOTH MAIN AND AUXILIARY CIRCUITS PRIOR TO SPRINKLER ACTIVATION. COORDINATE WITH FIRE ALARM CONTRACTOR AND ELEVATOR CONTRACTOR.
5. SIGNAL WIRES REQUIRED FOR INTERFACE TO SCHINDLER EQUIPMENT TO BE RUN INDEPENDENTLY OF ANY OTHER POWER CONDUCTORS.
6. PROVIDE 4" HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED EQUIPMENT.
7. ALL CONDUCTORS TO BE ALUMINUM, SIZED AS INDICATED.
8. ELECTRICAL CONTRACTOR TO BOND NEUTRAL TO GROUND INSIDE OF FIRE PUMP CONTROLLER.
9. ELECTRICAL CONTRACTOR TO PURCHASE AND INSTALL COMPRESSION LUGS ON ALL TERMINATIONS. TORQUE TO MANUFACTURES SPECIFICATIONS.

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PROJECT NUMBER: 2024-091

Project Title :

HOME 2 SUITES GREENWOOD SC

475 HOSPITALITY BLVD, GREENWOOD, SC 29649

Client Logo:

HOME2 SUITES BY HILTON

Seals :

SOUTH CAROLINA MATRIX ENGINEERING INC. No. C01634 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 9801 HOWARD P. BUNN JR.
10-16-2024

Revisions :

	10.16.2024	Issue For Permit
A	03.20.2025	100% Issue For Hilton
B	06.11.2025	Owner revisions/corrections
C	07.18.2025	Power Coordination

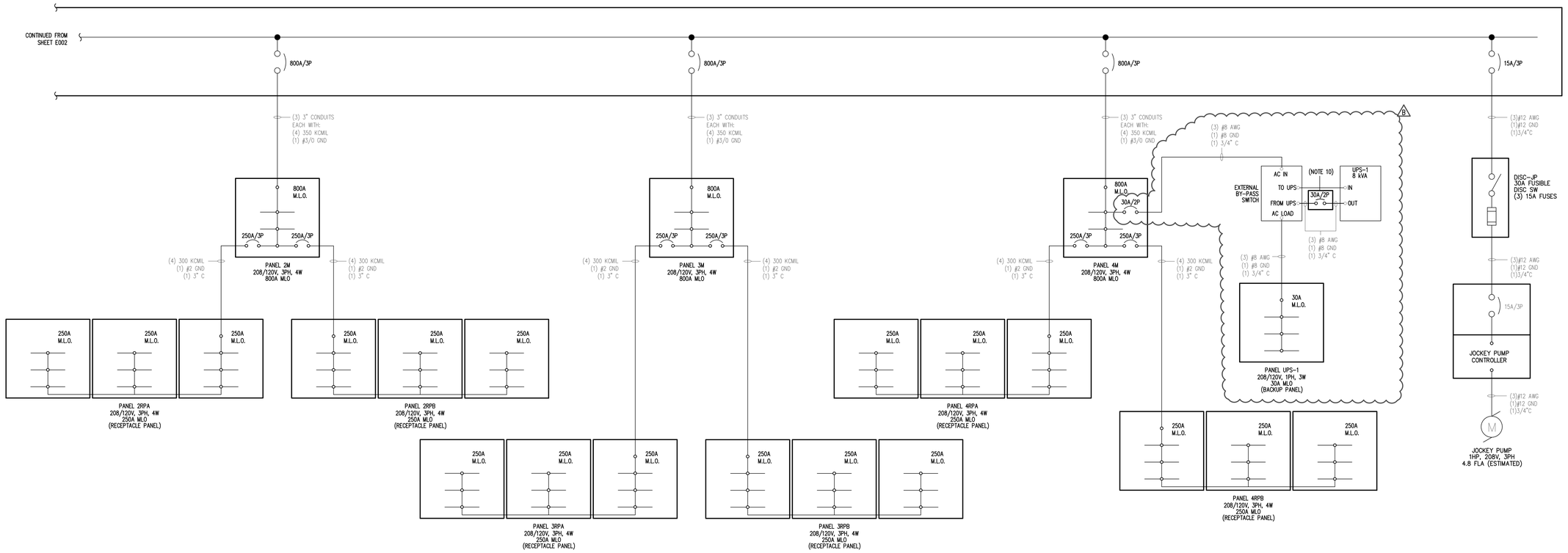
Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:

E002

Sheet Title :
RISER DIAGRAM (1 OF 2)

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RISER DIAGRAM (2 OF 2)

SCALE: NONE

GENERAL RISER DIAGRAM NOTES:

1. ALL PANELS TO BE FULLY RATED WITH COPPER PLATED BUS.
2. COORDINATE SERVICE WITH LOCAL UTILITY.
3. FUSED DISCONNECT SWITCH WITH AUXILIARY CONTACTS FOR FIRE ALARM CONNECTION COORDINATE WITH FIRE ALARM CONTRACTOR.
4. SHUNT TRIP ACTIVATED BY FIRE ALARM TO PROVIDE INDEPENDENT DISCONNECTION OF ELECTRICAL POWER TO BOTH MAIN AND AUXILIARY CIRCUITS PRIOR TO SPRINKLER ACTIVATION. COORDINATE WITH FIRE ALARM CONTRACTOR AND ELEVATOR CONTRACTOR.
5. SIGNAL WIRES REQUIRED FOR INTERFACE TO SCHINDLER EQUIPMENT TO BE RUN INDEPENDENTLY OF ANY OTHER POWER CONDUCTORS.
6. PROVIDE 4" HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED EQUIPMENT.
7. ALL CONDUCTORS TO BE ALUMINUM, SIZED AS INDICATED.
8. ELECTRICAL CONTRACTOR TO BOND NEUTRAL TO GROUND INSIDE OF FIRE PUMP CONTROLLER.
9. ELECTRICAL CONTRACTOR TO PURCHASE AND INSTALL COMPRESSION LUGS ON ALL TERMINATIONS. TORQUE TO MANUFACTURES SPECIFICATIONS.
10. 30A CIRCUIT BREAKER TO BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR.

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PROJECT NUMBER: 2024-091

Project Title :

HOME 2 SUITES GREENWOOD SC
475 HOSPITALITY BLVD, GREENWOOD, SC 29649

Client Logo:

HOME2 SUITES BY HILTON

Seals :

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION MATRIX ENGINEERING INC. No. C01034

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 9801 KENNETH P. BUNN
10-16-2024

Revisions :

	10.16.2024	Issue For Permit
A	03.20.2025	100% Issue For Hilton
B	06.11.2025	Owner revisions/corrections

Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:

E002.1

Sheet Title :
RISER DIAGRAM (2 OF 2)

MAIN SWITCHBOARD "MSB"

208/120 VOLT, 2500 AMP MAIN CIRCUIT BREAKER, 3 PHASE, 4 WIRE
SERVICE ENTRANCE, COPPER PLATED BUS, 65 KAIC, NEMA 1
GROUND FAULT PROTECTION, INTEGRAL SURGE PROTECTION, DIGITAL METERING

2500A M. C. B.

CONN LOAD	CIRCUIT USE	SN	SN	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
2393	PANEL 1LP		1	PANEL KP	17151	19544	17364	15583
3690		1	2		13674			
3077					12506			
82760	PANEL 1M		3	PANEL 3M	90697	173457	179867	173051
90125		3	4		89742			
90217					82834			
91008	PANEL 2M		5	PANEL 4M	94592	185600	181999	167233
89912		5	6		92087			
82658					84575			
3677	PANEL PP		7			3677	3403	3747
3403		7	8	PREPARED SPACE ONLY				
3747								
11316	ELEVATOR A		9	ELEVATOR B	11316	22632	22632	22632
11316		9	10		11316			
11316					11316			
16230	PANEL 1P		11			16230	16230	16230
16230		11	12	PREPARED SPACE ONLY				
16230								
12806	MUA-1		13	MUA-2	10722	23528	23528	23528
12806		13	14		10722			
12806					10722			
				JOCKEY PUMP	576	576	576	576
	PREPARED SPACE ONLY	15	16		576			
					576			
	PREPARED SPACE ONLY	17	18	PREPARED SPACE ONLY				

NOTES:

1. PROVIDE TYPED PANEL SCHEDULE.

PHASE A	445244		
PHASE B		445653	
PHASE C			422580
TOTAL VA	1313477		
CONNECTED AMPERAGE	1646 AMPERES		
DEMAND AMPERAGE	2403 AMPERES		

SERVICE DEMAND LOAD CALCULATION

FEEDER DEMAND CALCULATION PER NEC ARTICLE 220

GUESTROOM DEMAND LOAD PER NEC 220.84

REFRIGERATOR LOAD	=	750	VA
MICROWAVE LOAD	=	1,000	VA
DISHWASHER LOAD	=	750	VA
GARBAGE DISPOSAL LOAD	=	500	VA
PTAC UNIT	=	3,246	VA
LIGHTING & RECEPTACLE LOAD (AVERAGE)	=	2,847	VA
ARTIFICIAL COOKING EQUIPMENT PER 220.84	=	8,000	VA
	=	17,093	VA
	x	99	GUESTROOMS
DEMAND FACTOR (%) FOR 99 DWELLING UNITS PER 220.84	x	23%	
	=	389,208	VA

RECEPTACLES (HOUSE) (NEC TABLE 220.44)

FIRST 10,000 VA	@ (100%)	=	10,000	VA
REMAINDER (50,064 VA)	@ (50%)	=	25,032	VA
		=	35,032	VA

KITCHEN EQUIPMENT (NEC TABLE 220.56)

QTY OF KITCHEN EQUIPMENT UNITS PER 220.56	=	10	UNITS
DEMAND FACTOR FOR 10 UNITS	=	65%	
TOTAL LOAD OF UNITS	=	34,577	VA
DEMAND LOAD AT 65%	=	22,476	VA

HOUSE LOADS

LIGHTING	14,282 VA	@ (125%)	=	17,853 VA
HVAC	96,793 VA	@ (100%)	=	96,793 VA
WATER HEATING	5,224 VA	@ (100%)	=	5,224 VA

MISC. LOADS

CAR CHARGING, ELEVATORS, WASHERS, DRYERS, SIGN, ETC.	125,842 VA	@ (100%)	=	125,842 VA

DEMAND	=	692,428	VA
MIN. FEEDER AMPS (125% DEMAND AMPS)	=	2,403	AMPS

PANEL 1M SECTION 1

208/120 VOLT, 800 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

800A M. L. O.

CONN LOAD	CIRCUIT USE	SN	SN	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
3328	AHU-1	1	2	AHU-2	4324	7652	7652	7207
3328		3	4		4324			
2883	AHU-3	5	6		4324			
2883		7	8	AHU-4	2883	5766	5766	5766
2883		9	10		2883			
2883	AHU-5	11	12		2883			
2883		13	14	HP-1	1248	4131	4131	3267
2883		15	16		1248			
2018	HP-2	17	18	HP-3	1249	3267	3267	2498
2018		19	20		1249			
2018		21	22		1249			
1249	HP-4	23	24	HP-5	1249	2498	2498	1832
1249		25	26		1249			
1249		27	28		1249			
916	HP-6	29	30	HP-7	916	1832		
916		31	32		916			
	SPARE 20A BREAKER	33	34	SPARE 20A BREAKER				
667	EWH-1	35	36	EWH-2	667	1334	1334	
667		37	38		667			
667		39	40		667			
	SPARE 20A BREAKER	41	42	SPARE 20A BREAKER				

NOTES:

1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE TYPED PANEL SCHEDULE
* – ELECTRICAL CONTRACTOR TO PROVIDE RED LOCKING DEVICE ON CIRCUIT BREAKER FOR FIRE ALARM DEVICE

PANEL 1M SECTION 2

208/120 VOLT, 800 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	SN	SN	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
667	EWH-3	43	44	EWH-4	667	1334	1334	1334
667		45	46		667			
667		47	48		667			
128	EF-4	49	50	REC-HVAC MAINTENANCE	720	848	793	1320
73	EF-5	51	52	REC-HVAC MAINTENANCE	720			
660	WH-1	53	54	WH-2	660	1320	860	1376
660	WH-3	55	56	WH-4	660			
660	WH-5	57	58	WH-6	200	1668	2496	1320
200	WH-7	59	60	CP-1	1176			
1320	BP-1	61	62	CP-2	348			
1320		63	64	SP-1	1176	51110	47994	51017
1320		65	66	SPARE 20A BREAKER				
	SPARE 20A BREAKER	67	68	SPARE 20A BREAKER				
	SPARE 20A BREAKER	69	70	SPARE 20A BREAKER				
	SPARE 20A BREAKER	71	72	PREPARED SPACE ONLY				
300	FIRE ALARM CONTROL PANEL	73	74	PREPARED SPACE ONLY				
6000	CAR CHARGING STATION	75	76	CAR CHARGING STATION	6000			
6000		77	78		6000			
22310	1RPA	79	80	1RPB	28800			
19310		81	82		28684			
20410		83	84		30607			

PHASE A	82760		
PHASE B		90125	
PHASE C			90217
TOTAL VA	263156		
CONNECTED AMPERAGE	731 AMPERES		

PANEL 1LP

208/120 VOLT, 60 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

60A M. L. O.

CONN LOAD	CIRCUIT USE	SN	SN	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
861	LTG-FITNESS INC, GUEST LAUNDRY, MECHANICAL, SIDE ENTRY, CIRCULATION, VANITY, ELEC. MEZZ/MC	1	2	LTG-SITE	536	1397	1014	1601
748	LTG-GRILLING, PATIO, OUTDOOR POOL	3	4	LTG-SITE	266			
1065	LTG-PR, DINGNTR, MEZN, BOHS, ELECTRICAL, EMPLOYEE BREAKROOM, STORAGE, LAUNDRY, OFFICE, BOHS, LOUNGE, EXECUTIVE	5	6	LTG-SITE	536			
506	LTG-GUEST CORRIDOR & ICE MACHINE	7	8	LTG-SITE	266	772	1359	1092
1059	LTG-CORR/ MECHANICAL OFFICE, VESTIBULE, WOMENS, MENS, STORAGE (ES), SALES	9	10	LIGHTING CONTACTOR LC1	300			
592	LTG-CANOPY	11	12	MONUMENT SIGN	500			
124	LTG-ELEVATORS	13	14	SPARE 20A BREAKER		124	384	384
384	LTG-STAIR 1	15	16	SPARE 20A BREAKER				
384	LTG-STAIR 2	17	18	SPARE 20A BREAKER				
100	LTG-ENTRY DOORS	19	20	PREPARED SPACE ONLY		100	933	
933	LTG-REGISTRATION DESK, MARKET, BREAKFAST, SERVERY, WORK STATIONS, MANAGERS OFFICE, FOOD PREP	21	22	PREPARED SPACE ONLY				
	SPARE 20A BREAKER	23	24	PREPARED SPACE ONLY				
	SPARE 20A BREAKER	25	26	PREPARED SPACE ONLY				
	SPARE 20A BREAKER	27	28	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	29	30	PREPARED SPACE ONLY				

NOTES:

1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE TYPED PANEL SCHEDULE

GFI DENOTES GFCI TYPE BREAKER TO BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR.

PHASE A	2393		
PHASE B		3690	
PHASE C			3077
TOTAL VA	9160		
CONNECTED AMPERAGE	26 AMPERES		

PANEL KP

208/120 VOLT, 150 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

150A M. L. O.

CONN LOAD	CIRCUIT USE	SN	SN	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
1152	REC-MOBILE REACH-IN FREEZER (01)	1	2	REC-CONVEYOR TOASTER (26)	1725	2877	2398	7086
648	REC-MOBILE REACH-IN REFRIGERATOR (02.1)	3	4	REC-DISPLAY SHOWCASE (27)	1750			
6126	UNDERCOUNTER DISH WASHER (05)	5	6	JUICE DISPENSER (28)	960			
6126		7	8	REC-YOGURT DISPENSER (34)	168	6294	2628	2976
2100	COFFEE MAKER (14)	9	10	REC-REACH-IN DISPLAY FREEZER (30)	528			
2100		11	12	REC-REACH-IN DISPLAY REFRIGERATOR (36)	876			
2900	CONVECTION OVEN (16)	13	14	REC-WATER DISPENSER CHILLER (37.1)	180	3080	4300	1244
2900		15	16	REC-WATER DISPENSER BOILER (37.2)	1400			
444	REC-MOBILE REACH-IN REFRIGERATOR (18)	17	18	REC-WARMING KETTLE (39)	800	3900	3700	1200
2900	CONVECTION OVEN (20)	19	20	REC-WAFFLE MAKER (24)	1000			
2900		21	22	REC-WARMING KETTLE (29)	800	1000	648	
1200	REC-MICROWAVE OVEN (22)	23	24	SPARE 20A BREAKER				
1000	REC-WAFFLE MAKER (25)	25	26	SPARE 20A BREAKER				
648	REC-MOBILE REACH-IN REFRIGERATOR (02.2)	27	28	SPARE 20A BREAKER				
	SPARE 20A BREAKER	29	30	SPARE 20A BREAKER				
	SPARE 20A BREAKER	31	32	PREPARED SPACE ONLY				
	SPARE 20A BREAKER	33	34	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	35	36	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	37	38	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	39	40	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	41	42	PREPARED SPACE ONLY				

NOTES:

1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE TYPED PANEL SCHEDULE

GFI DENOTES GFCI TYPE BREAKER TO BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR.

PHASE A	17151		
PHASE B		13674	
PHASE C			12506
TOTAL VA	43331		
CONNECTED AMPERAGE	121 AMPERES		

PANEL PP

208/120 VOLT, 60 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

60A M. L. O.

CONN LOAD	CIRCUIT USE	SN	SN	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
1000	EUH-1	1	2	EUH-2	1000	2000	2000	2000
1000		3	4		1000			
1000		5	6		1000			
600	POOL/SPA HEATER	7	8	POOL EMERGENCY STOP	50	850	1207	1747
540	REC-POOL MECH/EQUIPMENT	9	10	EWH-8	667			
1080	REC-POOL & PATIO	11	12		667			
360	REC-POOL & PATIO	13	14		667	1027	196	
196	LTG-POOL EQUIPMENT, FIRE PUMP, POOL MECHANICAL, POOL STORAGE	15	16	SPARE 20A BREAKER				
	SPARE 20A BREAKER	17	18	SPARE 20A BREAKER				
	SPARE 20A BREAKER	19	20	SPARE 20A BREAKER				
	SPARE 20A BREAKER	21	22	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	23	24	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	25	26	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	27	28	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	29	30	PREPARED SPACE ONLY				

NOTES:

1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE TYPED PANEL SCHEDULE

PHASE A	3677		
PHASE B		3403	
PHASE C			3747
TOTAL VA	10827		
CONNECTED AMPERAGE	31 AMPERES		

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Project Title :
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GREENWOOD SC
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GREENWOOD, SC 29649

Client Logo:
HOME2 SUITES BY HILTON

Seals :
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION MATRIX ENGINEERING INC. No. C01034
REGISTERED PROFESSIONAL ENGINEER No. 9801 SOUTH CAROLINA MARTIN P. SUNN
10-16-2024

Revisions :

	10.16.2024	Issue For Permit
A	03.20.2025	100% Issue For Hilton
B	06.11.2025	Owner revisions/corrections
C	07.18.2025	Power Coordination

Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:
E003

Sheet Title :
FIRST FLOOR
PANEL SCHEDULES (1 OF 2)

PANEL 1RPA

208/120 VOLT, 200 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N	200A M. L. O.	S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
1000	REC–BICYCLE	1		2	REC–EXTERIOR, MECHANICAL 025B	900	1900		
1000	REC–TREADMILL	3		4	REC–MANAGERS OFFICE 010	900		1900	
1000	REC–TREADMILL	5		6	REC–WORK STATIONS 009	1080			2080
1000	REC–ELLIPTICAL	7		8	REC–LAUNDRY DISCHARGE, & LAUNDRY 013	540	1540		
1000	REC–BICYCLE	9		10	REC–LAUNDRY 013, & SERVERY 008	720		1720	
900	REC–FITNESS 024	11		12	REC–STORAGE 014, & EMPLOYEE BREAKROOM 029	1080			1980
750	REC–WASHER	13	GFI	14	REC–BREAKROOM 029 (COUNTER)	500	1250		
750	REC–WASHER	15	GFI	16	REC–BREAKROOM 029 (COUNTER)	500		1250	
1000	REC–DRYER	17	GFI	18	REC–REFRIGERATOR	750			1750
1000	↓	19	GFI	20	REC–EWF (VESTIBULE 003)	500	1500		
1000	REC–DRYER	21	20A	22	SPARE 20A BREAKER			1000	
1000	↓	23	GFI	24	REC–ELECTRICAL 027, & MECHANICAL ROOM 026	720			1720
1080	REC–EXTERIOR, VESTIBULE 001, & MECHANICAL 001C	25		26	REC–ENGINEER 030	1260	2340		
500	AUTOMATIC DOOR OPENER	27		28	REC–PBX 028	500		1000	
900	REC–LOBBY 002	29		30	REC–PBX 028	500			1400
1440	REC–LOBBY 002	31		32	REC–PBX 028	500	1940		
1080	REC–LOBBY 002	33		34	REC–PBX 028 (TELEPHONE)	500		1580	
900	REC–LOBBY 002	35		36	REC–PBX 028	500			1400
1080	REC–SALES 023	37		38	REC–PBX 028	500	1580		
1260	REC–WOMENS 020, MENS 021, & STORAGE 022	39		40	REC–PBX 028	500		1760	
1080	REC–GUEST LAUNDRY 025, SIDE ENTRY 025A, CLOSET 010B, & TARDIX 017	41		42	REC–PBX 028	500			1580

NOTES:

1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE TYPED PANEL SCHEDULE

GFI – DENOTES GFI TYPE CIRCUIT BREAKER TO BE PURCHASED AND INSTALLED BY CONTRACTOR.

PANEL 1RPA

208/120 VOLT, 200 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N		S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
720	REC–RECEPTION DESK 005	43		44	REC–PBX 028	500	1220		
900	REC–RECEPTION DESK 005	45		46	REC–PBX 028	500		1400	
1000	ELEV A LTG & ACCESS	47	15A	48	REC–FOOD PREP, LOBBY, SERVERY	720			1720
1000	ELEV B LTG & ACCESS	49	15A	50	REC–CLOCK	180	1180		
180	REC–ELEVATOR A PIT	51		52	REC–ELEVATOR B PIT	180		360	
	SPARE 20A BREAKER	53	15A GFI	54	ICE MAKER (133A)	1200			1200
360	REC–MARKET 005	55		56	↓	1200	1560		
	SPARE 20A BREAKER	57		58	REC–EXTERIOR	1080		1080	
900	REC–GUEST CORRIDOR 133	59		60	EMERGENCY COMM. POWER SUPPLY	360			1260
1440	DRYER ROOM DRYER	61	15A	62	REC–EXTERIOR	540	1980		
1440	DRYER ROOM DRYER	63	15A	64	AUTOMATIC FAUCETS–GUEST RESTROOMS	500		1940	
2160	LAUNDRY ROOM WASHER	65	20A	66	SPARE 20A BREAKER				2160
2160	↓	67		68	SPARE 20A BREAKER		2160		
2160	↓	69		70	SPARE 20A BREAKER			2160	
2160	LAUNDRY ROOM WASHER	71	20A	72	PREPARED SPACE ONLY				2160
2160	↓	73		74	PREPARED SPACE ONLY		2160		
2160	↓	75		76	PREPARED SPACE ONLY			2160	
	SPARE 20A BREAKER	77		78	PREPARED SPACE ONLY				
	SPARE 20A BREAKER	79		80	PREPARED SPACE ONLY				
	SPARE 20A BREAKER	81		82	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	83		84	PREPARED SPACE ONLY				

PHASE A	22310		
PHASE B		19310	
PHASE C			20410
TOTAL VA	62030		
CONNECTED AMPERAGE	173 AMPERES		

PANEL 1RPB SECTION 1

208/120 VOLT, 250 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N	250A M. L. O.	S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
579	LTG/REC–ROOM 113	1		2	LTG/REC–ROOM 127	939	1518		
1099	LTG/REC–ROOM 113	3		4	LTG/REC–ROOM 127	410		1509	
939	LTG/REC–ROOM 113	5		6	LTG/REC–ROOM 127	386			1325
230	LTG/REC–ROOM 113	7		8	LTG/REC–ROOM 127	1099	1329		
750	REC–ROOM 113 (REFRIGERATOR)	9		10	REC–ROOM 127 (REFRIGERATOR)	750		1500	
1000	REC–ROOM 113 (MICROWAVE)	11		12	REC–ROOM 127 (MICROWAVE)	1000			2000
500	ROOM 113 (GARBAGE DISPOSAL)	13		14	ROOM 127 (GARBAGE DISPOSAL)	500	1000		
750	REC–ROOM 113 (DISHWASHER)	15		16	REC–ROOM 127 (DISHWASHER)	750		1500	
579	LTG/REC–ROOM 115	17		18	LTG/REC–ROOM 129	1099			1678
1099	LTG/REC–ROOM 115	19		20	LTG/REC–ROOM 129	592	1691		
939	LTG/REC–ROOM 115	21		22	LTG/REC–ROOM 129	230		1169	
230	LTG/REC–ROOM 115	23		24	LTG/REC–ROOM 129	1100			1330
750	REC–ROOM 115 (REFRIGERATOR)	25		26	REC–ROOM 129 (REFRIGERATOR)	750	1500		
1000	REC–ROOM 115 (MICROWAVE)	27		28	REC–ROOM 129 (MICROWAVE)	1000		2000	
500	ROOM 115 (GARBAGE DISPOSAL)	29		30	ROOM 129 (GARBAGE DISPOSAL)	500			1000
750	REC–ROOM 115 (DISHWASHER)	31		32	REC–ROOM 129 (DISHWASHER)	750	1500		
939	LTG/REC–ROOM 117	33		34	LTG/REC–ROOM 120	243		1182	
410	LTG/REC–ROOM 117	35		36	LTG/REC–ROOM 120	1100			1510
386	LTG/REC–ROOM 117	37		38	LTG/REC–ROOM 120	929	1315		
1099	LTG/REC–ROOM 117	39		40	LTG/REC–ROOM 120	785		1884	
750	REC–ROOM 117 (REFRIGERATOR)	41		42	REC–ROOM 120 (REFRIGERATOR)	750			1500

PANEL 1RPB SECTION 2

208/120 VOLT, 250 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N		S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
1000	REC–ROOM 117 (MICROWAVE)	43		44	REC–ROOM 120 (MICROWAVE)	1000	2000		
500	ROOM 117 (GARBAGE DISPOSAL)	45		46	ROOM 120 (GARBAGE DISPOSAL)	500		1000	
750	REC–ROOM 117 (DISHWASHER)	47		48	REC–ROOM 120 (DISHWASHER)	750			1500
939	LTG/REC–ROOM 119	49		50	LTG/REC–ROOM 122	1099	1518		
410	LTG/REC–ROOM 119	51		52	LTG/REC–ROOM 122	1099		1509	
386	LTG/REC–ROOM 119	53		54	LTG/REC–ROOM 122	939			1325
1099	LTG/REC–ROOM 119	55		56	LTG/REC–ROOM 122	230	1329		
750	REC–ROOM 119 (REFRIGERATOR)	57		58	REC–ROOM 122 (REFRIGERATOR)	750		1500	
1000	REC–ROOM 119 (MICROWAVE)	59		60	REC–ROOM 122 (MICROWAVE)	1000			2000
500	ROOM 119 (GARBAGE DISPOSAL)	61		62	ROOM 122 (GARBAGE DISPOSAL)	500	1000		
750	REC–ROOM 119 (DISHWASHER)	63		64	REC–ROOM 122 (DISHWASHER)	750		1500	
939	LTG/REC–ROOM 121	65		66	LTG/REC–ROOM 124	1099	1538		
410	LTG/REC–ROOM 121	67		68	LTG/REC–ROOM 124	399		1038	
386	LTG/REC–ROOM 121	69		70	LTG/REC–ROOM 124	230	809		
1099	LTG/REC–ROOM 121	71		72	LTG/REC–ROOM 124	1139		2238	
750	REC–ROOM 121 (REFRIGERATOR)	73		74	REC–ROOM 124 (REFRIGERATOR)	750	1500		
1000	REC–ROOM 121 (MICROWAVE)	75		76	REC–ROOM 124 (MICROWAVE)	1000		2000	
500	ROOM 121 (GARBAGE DISPOSAL)	77		78	ROOM 124 (GARBAGE DISPOSAL)	500			1000
750	REC–ROOM 121 (DISHWASHER)	79		80	REC–ROOM 124 (DISHWASHER)	750	1500		
939	LTG/REC–ROOM 123	81		82	LTG/REC–ROOM 126	1099		2038	
410	LTG/REC–ROOM 123	83		84	LTG/REC–ROOM 126	399			809

PANEL 1RPB SECTION 3

208/120 VOLT, 250 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N		S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
386	LTG/REC–ROOM 123	85		86	LTG/REC–ROOM 126	230	616		
1099	LTG/REC–ROOM 123	87		88	LTG/REC–ROOM 126	1139		2238	
750	REC–ROOM 123 (REFRIGERATOR)	89		90	REC–ROOM 126 (REFRIGERATOR)	750			1500
1000	REC–ROOM 123 (MICROWAVE)	91		92	REC–ROOM 126 (MICROWAVE)	1000	2000		
500	ROOM 123 (GARBAGE DISPOSAL)	93		94	ROOM 126 (GARBAGE DISPOSAL)	500		1000	
750	REC–ROOM 123 (DISHWASHER)	95		96	REC–ROOM 126 (DISHWASHER)	750			1500
939	LTG/REC–ROOM 125	97		98	LTG/REC–ROOM 128	1099	2038		
410	LTG/REC–ROOM 125	99		100	LTG/REC–ROOM 128	399		809	
386	LTG/REC–ROOM 125	101		102	LTG/REC–ROOM 128	230			616
1099	LTG/REC–ROOM 125	103		104	LTG/REC–ROOM 128	1139	2238		
750	REC–ROOM 125 (REFRIGERATOR)	105		106	REC–ROOM 128 (REFRIGERATOR)	750		1500	
1000	REC–ROOM 125 (MICROWAVE)	107		108	REC–ROOM 128 (MICROWAVE)	1000			2000
500	ROOM 125 (GARBAGE DISPOSAL)	109		110	ROOM 128 (GARBAGE DISPOSAL)	500	1000		
750	REC–ROOM 125 (DISHWASHER)	111		112	REC–ROOM 128 (DISHWASHER)	750		1500	
1099	LTG/REC–ROOM 130	113		114	REC–ROOM 130 (REFRIGERATOR)	750	1399		
399	LTG/REC–ROOM 130	115		116	REC–ROOM 130 (MICROWAVE)	1000		730	
230	LTG/REC–ROOM 130	117		118	ROOM 130 (GARBAGE DISPOSAL)	500			1889
1139	LTG/REC–ROOM 130	119		120	REC–ROOM 130 (DISHWASHER)	750			
	PREPARED SPACE ONLY	121		122	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	123		124	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	125		126	PREPARED SPACE ONLY				

PHASE A	28800		
PHASE B		28684	
PHASE C			30607
TOTAL VA	88091		
CONNECTED AMPERAGE	245 AMPERES		

NOTES:

1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE TYPED PANEL SCHEDULE

AFCI – DENOTES AFCI TYPE CIRCUIT BREAKER TO BE PURCHASED AND INSTALLED BY CONTRACTOR.

AF/G – DENOTES COMBINATION AFCI/GFI TYPE CIRCUIT BREAKER

PANEL 1P

208/120 VOLT, 200 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N	200A M. L. O.	S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
1623	PTAC #113	1	20A	2	PTAC #120	1623	3246		
1623	↓	3		4	↓	1623		3246	
1623	PTAC #115	5	20A	6	PTAC #122	1623			3246
1623	↓	7		8	↓	1623	3246		
1623	PTAC #117	9	20A	10	PTAC #124	1623		3246	
1623	↓	11		12	↓	1623			3246
1623	PTAC #119	13	20A	14	PTAC #126	1623	3246		
1623	↓	15		16	↓	1623		3246	
1623	PTAC #121	17	20A	18	PTAC #128	1623			3246
1623	↓	19		20	↓	1623	3246		
1623	PTAC #123	21	20A	22	PTAC #130	1623		3246	
1623	↓	23		24	↓	1623			3246
1623	PTAC #125	25	20A	26	SPARE 20A BREAKER		1623		
1623	↓	27		28	SPARE 20A BREAKER			1623	
1623	PTAC #127	29	20A	30	SPARE 20A BREAKER				1623
1623	↓	31		32	PREPARED SPACE ONLY		1623		
1623	PTAC #129	33	20A	34	PREPARED SPACE ONLY			1623	
1623	↓	35		36	PREPARED SPACE ONLY				1623
	SPARE 20A BREAKER	37		38	PREPARED SPACE ONLY				
	SPARE 20A BREAKER	39		40	PREPARED SPACE ONLY				
	SPARE 20A BREAKER	41		42	PREPARED SPACE ONLY				

NOTES:

1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE TYPED PANEL SCHEDULE

PHASE A	16230		
PHASE B		16230	
PHASE C			16230
TOTAL VA	48690		
CONNECTED AMPERAGE	136 AMPERES		

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PROJECT NUMBER: 2024–091

Project Title :

HOME 2 SUITES
GREENWOOD SC
475 HOSPITALITY BLVD,
GREENWOOD, SC 29649

Client Logo:

HOME2 SUITES BY HILTON

Seals :

SOUTH CAROLINA — MATRIX ENGINEERING INC. — No. C01634 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 9801 — HOWARD P. BUNN — 10-16-2024

Revisions :

	10.16.2024	Issue For Permit
A	03.20.2025	100% Issue For Hilton
B	06.11.2025	Owner revisions/corrections

Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:

E003.1

Sheet Title :

FIRST FLOOR
PANEL SCHEDULES (2 OF 2)

PANEL 2RPA SECTION 1

208/120 VOLT, 250 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

250A M. L. O.

CONN LOAD	CIRCUIT USE	S N		S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
1099	LTG/REC-ROOM 201	1	AFCI	2	LTG/REC-ROOM 215	939	2038		
410	LTG/REC-ROOM 201	3	AFCI	4	LTG/REC-ROOM 215	410		820	
579	LTG/REC-ROOM 201	5	AFCI	6	LTG/REC-ROOM 215	386			965
1150	LTG/REC-ROOM 201	7	AFCI	8	LTG/REC-ROOM 215	1099	2249		
750	REC-ROOM 201 (REFRIGERATOR)	9	AFCI	10	REC-ROOM 215 (REFRIGERATOR)	750		1500	
1000	REC-ROOM 201 (MICROWAVE)	11	AFCI	12	REC-ROOM 215 (MICROWAVE)	1000			2000
500	ROOM 201 (GARBAGE DISPOSAL)	13	AF/GFI	14	ROOM 215 (GARBAGE DISPOSAL)	500	1000		
750	REC-ROOM 201 (DISHWASHER)	15	AF/GFI	16	REC-ROOM 215 (DISHWASHER)	750		1500	
1099	LTG/REC-ROOM 203	17	AFCI	18	LTG/REC-ROOM 217	939			2038
399	LTG/REC-ROOM 203	19	AFCI	20	LTG/REC-ROOM 217	410	809		
410	LTG/REC-ROOM 203	21	AFCI	22	LTG/REC-ROOM 217	386		796	
770	LTG/REC-ROOM 203	23	AFCI	24	LTG/REC-ROOM 217	1099			1869
750	REC-ROOM 203 (REFRIGERATOR)	25	AFCI	26	REC-ROOM 217 (REFRIGERATOR)	750	1500		
1000	REC-ROOM 203 (MICROWAVE)	27	AFCI	28	REC-ROOM 217 (MICROWAVE)	1000		2000	
500	ROOM 203 (GARBAGE DISPOSAL)	29	AF/GFI	30	ROOM 217 (GARBAGE DISPOSAL)	500			1000
750	REC-ROOM 203 (DISHWASHER)	31	AF/GFI	32	REC-ROOM 217 (DISHWASHER)	750	1500		
1099	LTG/REC-ROOM 205	33	AFCI	34	LTG/REC-ROOM 219	939		2038	
399	LTG/REC-ROOM 205	35	AFCI	36	LTG/REC-ROOM 219	410			809
230	LTG/REC-ROOM 205	37	AFCI	38	LTG/REC-ROOM 219	386	616		
1139	LTG/REC-ROOM 205	39	AFCI	40	LTG/REC-ROOM 219	1099		2238	
750	REC-ROOM 205 (REFRIGERATOR)	41	AFCI	42	REC-ROOM 219 (REFRIGERATOR)	750			1500

NOTES:

1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE TYPED PANEL SCHEDULE

AFCI – DENOTES AFCI TYPE CIRCUIT BREAKER TO BE PURCHASED AND INSTALLED BY CONTRACTOR.

AF/G – DENOTES COMBINATION AFCI/GFI TYPE CIRCUIT BREAKER

PANEL 2RPA SECTION 2

208/120 VOLT, 250 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N		S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
1000	REC-ROOM 205 (MICROWAVE)	43	AFCI	44	REC-ROOM 219 (MICROWAVE)	1000	2000		
500	ROOM 205 (GARBAGE DISPOSAL)	45	AF/GFI	46	ROOM 219 (GARBAGE DISPOSAL)	500		1000	
750	REC-ROOM 205 (DISHWASHER)	47	AF/GFI	48	REC-ROOM 219 (DISHWASHER)	750			1500
1099	LTG/REC-ROOM 207	49	AFCI	50	LTG/REC-ROOM 221	939	2038		
399	LTG/REC-ROOM 207	51	AFCI	52	LTG/REC-ROOM 221	410		809	
230	LTG/REC-ROOM 207	53	AFCI	54	LTG/REC-ROOM 221	386			616
1139	LTG/REC-ROOM 207	55	AFCI	56	LTG/REC-ROOM 221	1099	2238		
750	REC-ROOM 207 (REFRIGERATOR)	57	AFCI	58	REC-ROOM 221 (REFRIGERATOR)	750		1500	
1000	REC-ROOM 207 (MICROWAVE)	59	AFCI	60	REC-ROOM 221 (MICROWAVE)	1000			2000
500	ROOM 207 (GARBAGE DISPOSAL)	61	AF/GFI	62	ROOM 221 (GARBAGE DISPOSAL)	500	1000		
750	REC-ROOM 207 (DISHWASHER)	63	AF/GFI	64	REC-ROOM 221 (DISHWASHER)	750		1500	
1099	LTG/REC-ROOM 209	65	AFCI	66	LTG/REC-ROOM 223	939			2038
399	LTG/REC-ROOM 209	67	AFCI	68	LTG/REC-ROOM 223	410	809		
230	LTG/REC-ROOM 209	69	AFCI	70	LTG/REC-ROOM 223	386		616	
1139	LTG/REC-ROOM 209	71	AFCI	72	LTG/REC-ROOM 223	1099			2238
750	REC-ROOM 209 (REFRIGERATOR)	73	AFCI	74	REC-ROOM 223 (REFRIGERATOR)	750	1500		
1000	REC-ROOM 209 (MICROWAVE)	75	AFCI	76	REC-ROOM 223 (MICROWAVE)	1000		2000	
500	ROOM 209 (GARBAGE DISPOSAL)	77	AF/GFI	78	ROOM 223 (GARBAGE DISPOSAL)	500			1000
750	REC-ROOM 209 (DISHWASHER)	79	AF/GFI	80	REC-ROOM 223 (DISHWASHER)	750	1500		
1099	LTG/REC-ROOM 211	81	AFCI	82	LTG/REC-ROOM 225	939		2038	
399	LTG/REC-ROOM 211	83	AFCI	84	LTG/REC-ROOM 225	410			809

PANEL 2RPA SECTION 3

208/120 VOLT, 250 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N		S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
230	LTG/REC-ROOM 211	85	AFCI	86	LTG/REC-ROOM 225	386	616		
1139	LTG/REC-ROOM 211	87	AFCI	88	LTG/REC-ROOM 225	1099		2238	
750	REC-ROOM 211 (REFRIGERATOR)	89	AFCI	90	REC-ROOM 225 (REFRIGERATOR)	750			1500
1000	REC-ROOM 211 (MICROWAVE)	91	AFCI	92	REC-ROOM 225 (MICROWAVE)	1000	2000		
500	ROOM 211 (GARBAGE DISPOSAL)	93	AF/GFI	94	ROOM 225 (GARBAGE DISPOSAL)	500		1000	
750	REC-ROOM 211 (DISHWASHER)	95	AF/GFI	96	REC-ROOM 225 (DISHWASHER)	750			1500
939	LTG/REC-ROOM 213	97	AFCI	98	LTG/REC-ROOM 227	939	1878		
410	LTG/REC-ROOM 213	99	AFCI	100	LTG/REC-ROOM 227	410		820	
386	LTG/REC-ROOM 213	101	AFCI	102	LTG/REC-ROOM 227	386			772
1099	LTG/REC-ROOM 213	103	AFCI	104	LTG/REC-ROOM 227	1099	2198		
750	REC-ROOM 213 (REFRIGERATOR)	105	AFCI	106	REC-ROOM 227 (REFRIGERATOR)	750		1500	
1000	REC-ROOM 213 (MICROWAVE)	107	AFCI	108	REC-ROOM 227 (MICROWAVE)	1000			2000
500	ROOM 213 (GARBAGE DISPOSAL)	109	AF/GFI	110	ROOM 227 (GARBAGE DISPOSAL)	500	1000		
750	REC-ROOM 213 (DISHWASHER)	111	AF/GFI	112	REC-ROOM 227 (DISHWASHER)	750		1500	
1099	LTG/REC-ROOM 229	113	AFCI	114	REC-ROOM 229 (REFRIGERATOR)	750			1849
592	LTG/REC-ROOM 229	115	AFCI	116	REC-ROOM 229 (MICROWAVE)	1000	1592		
230	LTG/REC-ROOM 229	117	AFCI	118	ROOM 229 (GARBAGE DISPOSAL)	500		730	
1100	LTG/REC-ROOM 229	119	AFCI	120	REC-ROOM 229 (DISHWASHER)	750			1850
	SPARE 20A BREAKER	121		122	SPARE 20A BREAKER				
	SPARE 20A BREAKER	123		124	SPARE 20A BREAKER				
	SPARE 20A BREAKER	125		126	SPARE 20A BREAKER				

PHASE A	30081		
PHASE B		28143	
PHASE C			29853
TOTAL VA	88077		
CONNECTED AMPERAGE	245 AMPERES		

PANEL 2RPB SECTION 1

208/120 VOLT, 250 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

250A M. L. O.

CONN LOAD	CIRCUIT USE	S N		S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
939	LTG/REC-ROOM 206	1	AFCI	2	LTG/REC-ROOM 220	243	1182		
410	LTG/REC-ROOM 206	3	AFCI	4	LTG/REC-ROOM 220	1100		1510	
386	LTG/REC-ROOM 206	5	AFCI	6	LTG/REC-ROOM 220	929			1315
1099	LTG/REC-ROOM 206	7	AFCI	8	LTG/REC-ROOM 220	785	1884		
750	REC-ROOM 206 (REFRIGERATOR)	9	AFCI	10	REC-ROOM 220 (REFRIGERATOR)	750		1500	
1000	REC-ROOM 206 (MICROWAVE)	11	AFCI	12	REC-ROOM 220 (MICROWAVE)	1000			2000
500	ROOM 206 (GARBAGE DISPOSAL)	13	AF/GFI	14	ROOM 220 (GARBAGE DISPOSAL)	500	1000		
750	REC-ROOM 206 (DISHWASHER)	15	AF/GFI	16	REC-ROOM 220 (DISHWASHER)	750		1500	
939	LTG/REC-ROOM 208	17	AFCI	18	LTG/REC-ROOM 222	579			1518
410	LTG/REC-ROOM 208	19	AFCI	20	LTG/REC-ROOM 222	1099	1509		
386	LTG/REC-ROOM 208	21	AFCI	22	LTG/REC-ROOM 222	939		1325	
1099	LTG/REC-ROOM 208	23	AFCI	24	LTG/REC-ROOM 222	230			1329
750	REC-ROOM 208 (REFRIGERATOR)	25	AFCI	26	REC-ROOM 222 (REFRIGERATOR)	750	1500		
1000	REC-ROOM 208 (MICROWAVE)	27	AFCI	28	REC-ROOM 222 (MICROWAVE)	1000		2000	
500	ROOM 208 (GARBAGE DISPOSAL)	29	AF/GFI	30	ROOM 222 (GARBAGE DISPOSAL)	500			1000
750	REC-ROOM 208 (DISHWASHER)	31	AF/GFI	32	REC-ROOM 222 (DISHWASHER)	750	1500		
939	LTG/REC-ROOM 210	33	AFCI	34	LTG/REC-ROOM 224	1099		2038	
410	LTG/REC-ROOM 210	35	AFCI	36	LTG/REC-ROOM 224	399			809
386	LTG/REC-ROOM 210	37	AFCI	38	LTG/REC-ROOM 224	230	616		
1099	LTG/REC-ROOM 210	39	AFCI	40	LTG/REC-ROOM 224	1139		2238	
750	REC-ROOM 210 (REFRIGERATOR)	41	AFCI	42	REC-ROOM 224 (REFRIGERATOR)	750			1500

NOTES:

1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE TYPED PANEL SCHEDULE

AFCI – DENOTES AFCI TYPE CIRCUIT BREAKER TO BE PURCHASED AND INSTALLED BY CONTRACTOR.

AF/G – DENOTES COMBINATION AFCI/GFI TYPE CIRCUIT BREAKER

GFI – DENOTES GFI TYPE CIRCUIT BREAKER TO BE PURCHASED AND INSTALLED BY CONTRACTOR.

PANEL 2RPB SECTION 2

208/120 VOLT, 250 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N		S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
1000	REC-ROOM 210 (MICROWAVE)	43	AFCI	44	REC-ROOM 224 (MICROWAVE)	1000	2000		
500	ROOM 210 (GARBAGE DISPOSAL)	45	AF/GFI	46	ROOM 224 (GARBAGE DISPOSAL)	500		1000	
750	REC-ROOM 210 (DISHWASHER)	47	AF/GFI	48	REC-ROOM 224 (DISHWASHER)	750			1500
939	LTG/REC-ROOM 212	49	AFCI	50	LTG/REC-ROOM 226	1099	2038		
410	LTG/REC-ROOM 212	51	AFCI	52	LTG/REC-ROOM 226	399		809	
386	LTG/REC-ROOM 212	53	AFCI	54	LTG/REC-ROOM 226	230			616
1099	LTG/REC-ROOM 212	55	AFCI	56	LTG/REC-ROOM 226	1139	2238		
750	REC-ROOM 212 (REFRIGERATOR)	57	AFCI	58	REC-ROOM 226 (REFRIGERATOR)	750		1500	
1000	REC-ROOM 212 (MICROWAVE)	59	AFCI	60	REC-ROOM 226 (MICROWAVE)	1000			2000
500	ROOM 212 (GARBAGE DISPOSAL)	61	AF/GFI	62	ROOM 226 (GARBAGE DISPOSAL)	500	1000		
750	REC-ROOM 212 (DISHWASHER)	63	AF/GFI	64	REC-ROOM 226 (DISHWASHER)	750		1500	
939	LTG/REC-ROOM 214	65	AFCI	66	LTG/REC-ROOM 228	1099			2038
410	LTG/REC-ROOM 214	67	AFCI	68	LTG/REC-ROOM 228	399	809		
386	LTG/REC-ROOM 214	69	AFCI	70	LTG/REC-ROOM 228	230		616	
1099	LTG/REC-ROOM 214	71	AFCI	72	LTG/REC-ROOM 228	1139			2238
750	REC-ROOM 214 (REFRIGERATOR)	73	AFCI	74	REC-ROOM 228 (REFRIGERATOR)	750	1500		
1000	REC-ROOM 214 (MICROWAVE)	75	AFCI	76	REC-ROOM 228 (MICROWAVE)	1000		2000	
500	ROOM 214 (GARBAGE DISPOSAL)	77	AF/GFI	78	ROOM 228 (GARBAGE DISPOSAL)	500			1000
750	REC-ROOM 214 (DISHWASHER)	79	AF/GFI	80	REC-ROOM 228 (DISHWASHER)	750	1500		
939	LTG/REC-ROOM 216	81	AFCI	82	LTG/REC-ROOM 230	1099		2038	
410	LTG/REC-ROOM 216	83	AFCI	84	LTG/REC-ROOM 230	599			809

PANEL 2RPB SECTION 3

208/120 VOLT, 250 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N		S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
386	LTG/REC-ROOM 216	85	AFCI	86	LTG/REC-ROOM 230	230	616		
1099	LTG/REC-ROOM 216	87	AFCI	88	LTG/REC-ROOM 230	1139		2238	
750	REC-ROOM 216 (REFRIGERATOR)	89	AFCI	90	REC-ROOM 230 (REFRIGERATOR)	750			1500
1000	REC-ROOM 216 (MICROWAVE)	91	AFCI	92	REC-ROOM 230 (MICROWAVE)	1000	2000		
500	ROOM 216 (GARBAGE DISPOSAL)	93	AF/GFI	94	ROOM 230 (GARBAGE DISPOSAL)	500		1000	
750	REC-ROOM 216 (DISHWASHER)	95	AF/GFI	96	REC-ROOM 230 (DISHWASHER)	750			1500
939	LTG/REC-ROOM 218	97	AFCI	98	REC-CORRIDOR 233	720	1659		
410	LTG/REC-ROOM 218	99	AFCI	100	REC-CORRIDOR 233	720		1130	
386	LTG/REC-ROOM 218	101	AFCI	102	REC-ELEVATOR LOBBY & HOUSEKEEPING	1080			1466
1099	LTG/REC-ROOM 218	103	AFCI	104	ICE MAKER	1200	2299		
750	REC-ROOM 218 (REFRIGERATOR)	105	AFCI	106	↓	1200		1950	
1000	REC-ROOM 218 (MICROWAVE)	107	AFCI	108	LTG-CORRIDOR 233	560			1560
500	ROOM 218 (GARBAGE DISPOSAL)	109	AF/GFI	110	LTG-ELEV. LOBBY & HOUSEKEEPING & CORRIDOR 233	450	950		
750	REC-ROOM 218 (DISHWASHER)	111	AF/GFI	112	SPARE 20A BREAKER			750	
	SPARE 20A BREAKER	113		114	SPARE 20A BREAKER				
	SPARE 20A BREAKER	115		116	SPARE 20A BREAKER				
	SPARE 20A BREAKER	117		118	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	119		120	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	121		122	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	123		124	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	125		126	PREPARED SPACE ONLY				

PHASE A	27800		
PHASE B		28642	
PHASE C			25698
TOTAL VA	82140		
CONNECTED AMPERAGE	229 AMPERES		

PANEL 2M SECTION 1

208/120 VOLT, 800 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

800A M. L. O.

CONN LOAD	CIRCUIT USE	S N		S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
1623	PTAC #201	1	20A	2	PTAC #203	1623	3246		
1623	↓	3	20A	4	PTAC #206	1623		3246	
1623	PTAC #205	5	20A	6	↓	1623			3246
1623	↓	7	20A	8	PTAC #208	1623	3246		
1623	PTAC #207	9	20A	10	↓	1623		3246	
1623	↓	11	20A	12	↓	1623			3246
1623	PTAC #209	13	20A	14	PTAC #210	1623	3246		
1623	↓	15	20A	16	↓	1623		3246	
1623	PTAC #211	17	20A	18	PTAC #212	1623			3246
1623	↓	19	20A	20	↓	1623	3246		
1623	PTAC #213	21	20A	22	PTAC #214	1623		3246	
1623	↓	23	20A	24	↓	1623			3246
1623	PTAC #215	25	20A	26	PTAC #216	1623	3246		
1623	↓	27	20A	28	↓	1623		3246	
1623	PTAC #217	29	20A	30	PTAC #218	1623			3246
1623	↓	31	20A	32	↓	1623	3246		
1623	PTAC #219	33	20A	34	PTAC #220	1623		3246	
1623	↓	35	20A	36	↓	1623			3246
1623	PTAC #221	37	20A	38	PTAC #222	1623	3246		
1623	↓	39	20A	40	↓	1623		3246	
	SPARE 20A BREAKER	41		42	SPARE 20A BREAKER				

NOTES:

1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE TYPED PANEL SCHEDULE

* – ELECTRICAL CONTRACTOR TO PROVIDE RED LOCKING DEVICE ON CIRCUIT BREAKER FOR FIRE ALARM DEVICE

PANEL 2M SECTION 2

208/120 VOLT, 800 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N		S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
1623	PTAC #223	43	20A	44	PTAC #224	1623	3246		
1623	↓	45	20A	46	↓	1623		3246	
1623	PTAC #225	47	20A	48	PTAC #226	1623			3246
1623	↓	49	20A	50	↓	1623	3246		
1623	PTAC #227	51	20A	52	PTAC #228	1623		3246	
1623	↓	53	20A	54		1623			3246
1623	PTAC #229	55	20A	56	PTAC #230	1623	3246		
1623	↓	57	20A	58	↓	1623		3246	
667	EWH-5	59	15A	60	EF-6	172			839
667	↓	61	15A	62	PREPARED SPACE ONLY		667		
	PREPARED SPACE ONLY	63		64	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	65		66	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	67		68	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	69		70	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	71		72	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	73		74	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	75		76	PREPARED SPACE ONLY				
300	SECOND FLOOR FIRE ALARM REPEATER	77		78	PREPARED SPACE ONLY				300
30081	2RPA	79	20A	80	2RPB	27800	57881		
28143	↓	81	20A	82	↓	28642		56785	
29853	↓	83	20A	84	↓	25698			55551

PHASE A	91008		
PHASE B		85912	
PHASE C			82658
TOTAL VA	263578		
CONNECTED AMPERAGE	733 AMPERES		

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ARCHITECTURE

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PROJECT NUMBER: 2024-091

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Project Title :
HOME 2 SUITES
GREENWOOD SC
475 HOSPITALITY BLVD,
GREENWOOD, SC 29649

Client Logo:
HOME2 SUITES BY HILTON

Seals :

NORTH CAROLINA REGISTERED ENGINEERING CORPORATION CERTIFICATE OF AUTHORIZATION MATRIX ENGINEERING INC. No. C01034

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 9801 HUNTER P. DUNN 10-16-2024

Revisions :

	10.16.2024	Issue For Permit
A	03.20.2025	100% Issue For Hilton
B	06.11.2025	Owner revisions/corrections

Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:
E003.2

Sheet Title :
SECOND FLOOR
PANEL SCHEDULES

PANEL 3RPA SECTION 1

208/120 VOLT, 250 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

250A M. L. O.

CONN LOAD	CIRCUIT USE	S N		S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
939	LTG/REC-ROOM 301	1	AF/G	2	LTG/REC-ROOM 315	939	1878		
410	LTG/REC-ROOM 301	3	AF/G	4	LTG/REC-ROOM 315	410		820	
386	LTG/REC-ROOM 301	5	AF/G	6	LTG/REC-ROOM 315	386			772
1099	LTG/REC-ROOM 301	7	AF/G	8	LTG/REC-ROOM 315	1099	2098		
750	REC-ROOM 301 (REFRIGERATOR)	9	AF/G	10	REC-ROOM 315 (REFRIGERATOR)	750		1500	
1000	REC-ROOM 301 (MICROWAVE)	11	AF/G	12	REC-ROOM 315 (MICROWAVE)	1000			2000
500	ROOM 301 (GARBAGE DISPOSAL)	13	M/G	14	ROOM 315 (GARBAGE DISPOSAL)	500	1000		
750	REC-ROOM 301 (DISHWASHER)	15	M/G	16	REC-ROOM 315 (DISHWASHER)	750		1500	
1099	LTG/REC-ROOM 303	17	AF/G	18	LTG/REC-ROOM 317	939			2038
399	LTG/REC-ROOM 303	19	AF/G	20	LTG/REC-ROOM 317	410	809		
230	LTG/REC-ROOM 303	21	AF/G	22	LTG/REC-ROOM 317	386		616	
1139	LTG/REC-ROOM 303	23	AF/G	24	LTG/REC-ROOM 317	1099			2238
750	REC-ROOM 303 (REFRIGERATOR)	25	AF/G	26	REC-ROOM 317 (REFRIGERATOR)	750	1500		
1000	REC-ROOM 303 (MICROWAVE)	27	AF/G	28	REC-ROOM 317 (MICROWAVE)	1000		2000	
500	ROOM 303 (GARBAGE DISPOSAL)	29	M/G	30	ROOM 317 (GARBAGE DISPOSAL)	500			1000
750	REC-ROOM 303 (DISHWASHER)	31	M/G	32	REC-ROOM 317 (DISHWASHER)	750	1500		
1099	LTG/REC-ROOM 305	33	AF/G	34	LTG/REC-ROOM 319	939			2038
399	LTG/REC-ROOM 305	35	AF/G	36	LTG/REC-ROOM 319	410		809	
230	LTG/REC-ROOM 305	37	AF/G	38	LTG/REC-ROOM 319	386	616		
1139	LTG/REC-ROOM 305	39	AF/G	40	LTG/REC-ROOM 319	1099		2238	
750	REC-ROOM 305 (REFRIGERATOR)	41	AF/G	42	REC-ROOM 319 (REFRIGERATOR)	750			1500

NOTES:

1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE TYPED PANEL SCHEDULE

AFCI – DENOTES AFCI TYPE CIRCUIT BREAKER TO BE PURCHASED AND INSTALLED BY CONTRACTOR.

AF/G – DENOTES COMBINATION AFCI/GFI TYPE CIRCUIT BREAKER

PANEL 3RPA SECTION 2

208/120 VOLT, 250 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N		S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
1000	REC-ROOM 305 (MICROWAVE)	43	AF/G	44	REC-ROOM 319 (MICROWAVE)	1000	2000		
500	ROOM 305 (GARBAGE DISPOSAL)	45	M/G	46	ROOM 319 (GARBAGE DISPOSAL)	500		1000	
750	REC-ROOM 305 (DISHWASHER)	47	M/G	48	REC-ROOM 319 (DISHWASHER)	750			1500
1099	LTG/REC-ROOM 307	49	AF/G	50	LTG/REC-ROOM 321	939	2038		
399	LTG/REC-ROOM 307	51	AF/G	52	LTG/REC-ROOM 321	410		809	
230	LTG/REC-ROOM 307	53	AF/G	54	LTG/REC-ROOM 321	386			616
1139	LTG/REC-ROOM 307	55	AF/G	56	LTG/REC-ROOM 321	1099	2238		
750	REC-ROOM 307 (REFRIGERATOR)	57	AF/G	58	REC-ROOM 321 (REFRIGERATOR)	750		1500	
1000	REC-ROOM 307 (MICROWAVE)	59	AF/G	60	REC-ROOM 321 (MICROWAVE)	1000			2000
500	ROOM 307 (GARBAGE DISPOSAL)	61	M/G	62	ROOM 321 (GARBAGE DISPOSAL)	500	1000		
750	REC-ROOM 307 (DISHWASHER)	63	M/G	64	REC-ROOM 321 (DISHWASHER)	750		1500	
1099	LTG/REC-ROOM 309	65	AF/G	66	LTG/REC-ROOM 323	939			2038
399	LTG/REC-ROOM 309	67	AF/G	68	LTG/REC-ROOM 323	410	809		
230	LTG/REC-ROOM 309	69	AF/G	70	LTG/REC-ROOM 323	386		616	
1139	LTG/REC-ROOM 309	71	AF/G	72	LTG/REC-ROOM 323	1099			2238
750	REC-ROOM 309 (REFRIGERATOR)	73	AF/G	74	REC-ROOM 323 (REFRIGERATOR)	750	1500		
1000	REC-ROOM 309 (MICROWAVE)	75	AF/G	76	REC-ROOM 323 (MICROWAVE)	1000		2000	
500	ROOM 309 (GARBAGE DISPOSAL)	77	M/G	78	ROOM 323 (GARBAGE DISPOSAL)	500			1000
750	REC-ROOM 309 (DISHWASHER)	79	M/G	80	REC-ROOM 323 (DISHWASHER)	750	1500		
1099	LTG/REC-ROOM 311	81	AF/G	82	LTG/REC-ROOM 325	939		2038	
399	LTG/REC-ROOM 311	83	AF/G	84	LTG/REC-ROOM 325	410			809

PANEL 3RPA SECTION 3

208/120 VOLT, 250 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N		S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
230	LTG/REC-ROOM 311	85	AF/G	86	LTG/REC-ROOM 325	386	616		
1139	LTG/REC-ROOM 311	87	AF/G	88	LTG/REC-ROOM 325	1099		2238	
750	REC-ROOM 311 (REFRIGERATOR)	89	AF/G	90	REC-ROOM 325 (REFRIGERATOR)	750			1500
1000	REC-ROOM 311 (MICROWAVE)	91	AF/G	92	REC-ROOM 325 (MICROWAVE)	1000	2000		
500	ROOM 311 (GARBAGE DISPOSAL)	93	M/G	94	ROOM 325 (GARBAGE DISPOSAL)	500		1000	
750	REC-ROOM 311 (DISHWASHER)	95	M/G	96	REC-ROOM 325 (DISHWASHER)	750			1500
939	LTG/REC-ROOM 313	97	AF/G	98	LTG/REC-ROOM 327	939	1878		
410	LTG/REC-ROOM 313	99	AF/G	100	LTG/REC-ROOM 327	410		820	
386	LTG/REC-ROOM 313	101	AF/G	102	LTG/REC-ROOM 327	386			772
1099	LTG/REC-ROOM 313	103	AF/G	104	LTG/REC-ROOM 327	1099	2198		
750	REC-ROOM 313 (REFRIGERATOR)	105	AF/G	106	REC-ROOM 327 (REFRIGERATOR)	750		1500	
1000	REC-ROOM 313 (MICROWAVE)	107	AF/G	108	REC-ROOM 327 (MICROWAVE)	1000			2000
500	ROOM 313 (GARBAGE DISPOSAL)	109	M/G	110	ROOM 327 (GARBAGE DISPOSAL)	500	1000		
750	REC-ROOM 313 (DISHWASHER)	111	M/G	112	REC-ROOM 327 (DISHWASHER)	750		1500	
1099	LTG/REC-ROOM 329	113	AF/G	114	REC-ROOM 329 (REFRIGERATOR)	750			1849
592	LTG/REC-ROOM 329	115	AF/G	116	REC-ROOM 329 (MICROWAVE)	1000	1592		
230	LTG/REC-ROOM 329	117	AF/G	118	ROOM 329 (GARBAGE DISPOSAL)	500		730	
1100	LTG/REC-ROOM 329	119	AF/G	120	REC-ROOM 329 (DISHWASHER)	750			1850
	SPARE 20A BREAKER	121		122	SPARE 20A BREAKER				
	SPARE 20A BREAKER	123		124	SPARE 20A BREAKER				
	SPARE 20A BREAKER	125		126	SPARE 20A BREAKER				

PHASE A	29770		
PHASE B		27963	
PHASE C			30029
TOTAL VA	87762		
CONNECTED AMPERAGE	244 AMPERES		

PANEL 3RPB SECTION 1

208/120 VOLT, 250 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

250A M. L. O.

CONN LOAD	CIRCUIT USE	S N		S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
939	LTG/REC-ROOM 306	1	AF/G	2	LTG/REC-ROOM 320	243	1182		
410	LTG/REC-ROOM 306	3	AF/G	4	LTG/REC-ROOM 320	1100		1510	
386	LTG/REC-ROOM 306	5	AF/G	6	LTG/REC-ROOM 320	929			1315
1099	LTG/REC-ROOM 306	7	AF/G	8	LTG/REC-ROOM 320	785	1884		
750	REC-ROOM 306 (REFRIGERATOR)	9	AF/G	10	REC-ROOM 320 (REFRIGERATOR)	750		1500	
1000	REC-ROOM 306 (MICROWAVE)	11	AF/G	12	REC-ROOM 320 (MICROWAVE)	1000			2000
500	ROOM 306 (GARBAGE DISPOSAL)	13	M/G	14	ROOM 320 (GARBAGE DISPOSAL)	500	1000		
750	REC-ROOM 306 (DISHWASHER)	15	M/G	16	REC-ROOM 320 (DISHWASHER)	750		1500	
939	LTG/REC-ROOM 308	17	AF/G	18	LTG/REC-ROOM 322	579			1518
410	LTG/REC-ROOM 308	19	AF/G	20	LTG/REC-ROOM 322	1099	1509		
386	LTG/REC-ROOM 308	21	AF/G	22	LTG/REC-ROOM 322	939		1325	
1099	LTG/REC-ROOM 308	23	AF/G	24	LTG/REC-ROOM 322	230			1329
750	REC-ROOM 308 (REFRIGERATOR)	25	AF/G	26	REC-ROOM 322 (REFRIGERATOR)	750	1500		
1000	REC-ROOM 308 (MICROWAVE)	27	AF/G	28	REC-ROOM 322 (MICROWAVE)	1000		2000	
500	ROOM 308 (GARBAGE DISPOSAL)	29	M/G	30	ROOM 322 (GARBAGE DISPOSAL)	500			1000
750	REC-ROOM 308 (DISHWASHER)	31	M/G	32	REC-ROOM 322 (DISHWASHER)	750	1500		
939	LTG/REC-ROOM 310	33	AF/G	34	LTG/REC-ROOM 324	1099			2038
410	LTG/REC-ROOM 310	35	AF/G	36	LTG/REC-ROOM 324	399		809	
386	LTG/REC-ROOM 310	37	AF/G	38	LTG/REC-ROOM 324	230	616		
1099	LTG/REC-ROOM 310	39	AF/G	40	LTG/REC-ROOM 324	1139		2238	
750	REC-ROOM 310 (REFRIGERATOR)	41	AF/G	42	REC-ROOM 324 (REFRIGERATOR)	750			1500

NOTES:

1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE TYPED PANEL SCHEDULE

AFCI – DENOTES AFCI TYPE CIRCUIT BREAKER TO BE PURCHASED AND INSTALLED BY CONTRACTOR.

AF/G – DENOTES COMBINATION AFCI/GFI TYPE CIRCUIT BREAKER

GFI – DENOTES GFI TYPE CIRCUIT BREAKER TO BE PURCHASED AND INSTALLED BY CONTRACTOR.

PANEL 3RPB SECTION 2

208/120 VOLT, 250 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N		S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
1000	REC-ROOM 310 (MICROWAVE)	43	AF/G	44	REC-ROOM 324 (MICROWAVE)	1000	2000		
500	ROOM 310 (GARBAGE DISPOSAL)	45	M/G	46	ROOM 324 (GARBAGE DISPOSAL)	500		1000	
750	REC-ROOM 310 (DISHWASHER)	47	M/G	48	REC-ROOM 324 (DISHWASHER)	750			1500
939	LTG/REC-ROOM 312	49	AF/G	50	LTG/REC-ROOM 326	1099	2038		
410	LTG/REC-ROOM 312	51	AF/G	52	LTG/REC-ROOM 326	399		809	
386	LTG/REC-ROOM 312	53	AF/G	54	LTG/REC-ROOM 326	230			616
1099	LTG/REC-ROOM 312	55	AF/G	56	LTG/REC-ROOM 326	1139	2238		
750	REC-ROOM 312 (REFRIGERATOR)	57	AF/G	58	REC-ROOM 326 (REFRIGERATOR)	750		1500	
1000	REC-ROOM 312 (MICROWAVE)	59	AF/G	60	REC-ROOM 326 (MICROWAVE)	1000			2000
500	ROOM 312 (GARBAGE DISPOSAL)	61	M/G	62	ROOM 326 (GARBAGE DISPOSAL)	500	1000		
750	REC-ROOM 312 (DISHWASHER)	63	M/G	64	REC-ROOM 326 (DISHWASHER)	750		1500	
939	LTG/REC-ROOM 314	65	AF/G	66	LTG/REC-ROOM 328	1099			2038
410	LTG/REC-ROOM 314	67	AF/G	68	LTG/REC-ROOM 328	399	809		
386	LTG/REC-ROOM 314	69	AF/G	70	LTG/REC-ROOM 328	230		616	
1099	LTG/REC-ROOM 314	71	AF/G	72	LTG/REC-ROOM 328	1139			2238
750	REC-ROOM 314 (REFRIGERATOR)	73	AF/G	74	REC-ROOM 328 (REFRIGERATOR)	750	1500		
1000	REC-ROOM 314 (MICROWAVE)	75	AF/G	76	REC-ROOM 328 (MICROWAVE)	1000		2000	
500	ROOM 314 (GARBAGE DISPOSAL)	77	M/G	78	ROOM 328 (GARBAGE DISPOSAL)	500			1000
750	REC-ROOM 314 (DISHWASHER)	79	M/G	80	REC-ROOM 328 (DISHWASHER)	750	1500		
939	LTG/REC-ROOM 316	81	AF/G	82	LTG/REC-ROOM 330	1099		2038	
410	LTG/REC-ROOM 316	83	AF/G	84	LTG/REC-ROOM 330	599			809

PANEL 3RPB SECTION 3

208/120 VOLT, 250 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N		S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
386	LTG/REC-ROOM 316	85	AF/G	86	LTG/REC-ROOM 330	230	616		
1099	LTG/REC-ROOM 316	87	AF/G	88	LTG/REC-ROOM 330	1139		2238	
750	REC-ROOM 316 (REFRIGERATOR)	89	AF/G	90	REC-ROOM 330 (REFRIGERATOR)	750			1500
1000	REC-ROOM 316 (MICROWAVE)	91	AF/G	92	REC-ROOM 330 (MICROWAVE)	1000	2000		
500	ROOM 316 (GARBAGE DISPOSAL)	93	M/G	94	ROOM 330 (GARBAGE DISPOSAL)	500		1000	
750	REC-ROOM 316 (DISHWASHER)	95	M/G	96	REC-ROOM 330 (DISHWASHER)	750			1500
939	LTG/REC-ROOM 318	97	AF/G	98	REC-CORRIDOR 333	720	1659		
410	LTG/REC-ROOM 318	99	AF/G	100	REC-CORRIDOR 333	720		1140	
386	LTG/REC-ROOM 318	101	AF/G	102	REC-ELEVATOR LOBBY & HOUSEKEEPING	1080			1466
1099	LTG/REC-ROOM 318	103	AF/G	104	ICE MAKER	1200	2299		
750	REC-ROOM 318 (REFRIGERATOR)	105	AF/G	106	↓	1200		1950	
1000	REC-ROOM 318 (MICROWAVE)	107	AF/G	108	LTG-CORRIDOR 333	560			1560
500	ROOM 318 (GARBAGE DISPOSAL)	109	M/G	110	LTG-ELEV. LOBBY & HOUSEKEEPING & CORRIDOR 333	450	950		
750	REC-ROOM 318 (DISHWASHER)	111	M/G	112	SPARE 20A BREAKER			750	
	SPARE 20A BREAKER	113		114	SPARE 20A BREAKER				
	SPARE 20A BREAKER	115		116	SPARE 20A BREAKER				
	SPARE 20A BREAKER	117		118	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	119		120	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	121		122	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	123		124	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	125		126	PREPARED SPACE ONLY				

PHASE A	27800		
PHASE B		28652	
PHASE C			25698
TOTAL VA	82150		
CONNECTED AMPERAGE	229 AMPERES		

PANEL 3M SECTION 1

208/120 VOLT, 800 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

800A M. L. O.

CONN LOAD	CIRCUIT USE	S N		S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
1623	PTAC #301	1	20A	2	PTAC #303	1623	3246		
1623	↓	3	20A	4	↓	1623		3246	
1623	PTAC #305	5	20A	6	PTAC #306	1623			3246
1623	↓	7	20A	8	↓	1623	3246		
1623	PTAC #307	9	20A	10	PTAC #308	1623		3246	
1623	↓	11	20A	12	↓	1623			3246
1623	PTAC #309	13	20A	14	PTAC #310	1623	3246		
1623	↓	15	20A	16	↓	1623		3246	
1623	PTAC #311	17	20A	18	PTAC #312	1623			3246
1623	↓	19	20A	20	↓	1623	3246		
1623	PTAC #313	21	20A	22	PTAC #314	1623		3246	
1623	↓	23	20A	24	↓	1623			3246
1623	PTAC #315	25	20A	26	PTAC #316	1623	3246		
1623	↓	27	20A	28	↓	1623		3246	
1623	PTAC #317	29	20A	30	PTAC #318	1623			3246
1623	↓	31	20A	32	↓	1623	3246		
1623	PTAC #319	33	20A	34	PTAC #320	1623		3246	
1623	↓	35	20A	36	↓	1623			3246
1623	PTAC #321	37	20A	38	PTAC #322	1623	3246		
1623	↓	39	20A	40	↓	1623		3246	
	SPARE 20A BREAKER	41		42	SPARE 20A BREAKER				

NOTES:

1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE TYPED PANEL SCHEDULE

* – ELECTRICAL CONTRACTOR TO PROVIDE RED LOCKING DEVICE ON CIRCUIT BREAKER FOR FIRE ALARM DEVICE

PANEL 3M SECTION 2

208/120 VOLT, 800 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N		S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
1623	PTAC #323	43	20A	44	PTAC #324	1623	3246		
1623	↓	45	20A	46	↓	1623		3246	
1623	PTAC #325	47	20A	48	PTAC #326	1623			3246
1623	↓	49	20A	50	↓	1623	3246		
1623	PTAC #327	51	20A	52	PTAC #328	1623		3246	
1623	↓	53	20A	54	↓	1623			3246
1623	PTAC #329	55	20A	56	PTAC #330	1623	3246		
1623	↓	57	20A	58	↓	1623		3246	
667	EWH-6	59	15A	60	EF-7	172			839
667	↓	61	15A	62	PREPARED SPACE ONLY		667		
667	↓	63	15A	64	PREPARED SPACE ONLY			667	
	PREPARED SPACE ONLY	65		66	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	67		68	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	69		70	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	71		72	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	73		74	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	75		76	PREPARED SPACE ONLY				
300	THIRD FLOOR FIRE ALARM REPEATER	77		78	PREPARED SPACE ONLY				300
29770	3RPA	79	250A	80	3RPB	27800	57570		
27963	↓	81	250A	82	↓	28652	56615		
30029	↓	83	250A	84	↓	25698			55727

PHASE A	90697		
PHASE B		89742	
PHASE C			82834
TOTAL VA	263273		
CONNECTED AMPERAGE	732 AMPERES		

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ARCHITECTURE

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PROJECT NUMBER: 2024-091

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Project Title :
HOME 2 SUITES
GREENWOOD SC
475 HOSPITALITY BLVD,
GREENWOOD, SC 29649

Client Logo:
HOME2 SUITES BY HILTON

Seals :
NORTH CAROLINA ENGINEERING CORPORATION CERTIFICATE OF AUTHORIZATION MATRIX ENGINEERING INC. No. C01034
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 9801 HUNTER P. DUNN 10-16-2024

Revisions :

	10.16.2024	Issue For Permit
A	03.20.2025	100% Issue For Hilton
B	06.11.2025	Owner revisions/corrections

Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:
E003.3

Sheet Title :
THIRD FLOOR
PANEL SCHEDULES

PANEL 4RPA SECTION 1

208/120 VOLT, 250 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N	250A M. L. O.	S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
939	LTG/REC-ROOM 401	1	AFCI	2	LTG/REC-ROOM 415	939	1878		
410	LTG/REC-ROOM 401	3	AFCI	4	LTG/REC-ROOM 415	410		820	
386	LTG/REC-ROOM 401	5	AFCI	6	LTG/REC-ROOM 415	386			772
1099	LTG/REC-ROOM 401	7	AFCI	8	LTG/REC-ROOM 415	1099	2198		
750	REC-ROOM 401 (REFRIGERATOR)	9	AFCI	10	REC-ROOM 415 (REFRIGERATOR)	750		1500	
1000	REC-ROOM 401 (MICROWAVE)	11	AFCI	12	REC-ROOM 415 (MICROWAVE)	1000			2000
500	ROOM 401 (GARBAGE DISPOSAL)	13	AF/G	14	ROOM 415 (GARBAGE DISPOSAL)	500	1000		
750	REC-ROOM 401 (DISHWASHER)	15	AF/G	16	REC-ROOM 415 (DISHWASHER)	750		1500	
1099	LTG/REC-ROOM 403	17	AFCI	18	LTG/REC-ROOM 417	939			2038
399	LTG/REC-ROOM 403	19	AFCI	20	LTG/REC-ROOM 417	410	809		
230	LTG/REC-ROOM 403	21	AFCI	22	LTG/REC-ROOM 417	386		616	
1139	LTG/REC-ROOM 403	23	AFCI	24	LTG/REC-ROOM 417	1099			2238
750	REC-ROOM 403 (REFRIGERATOR)	25	AFCI	26	REC-ROOM 417 (REFRIGERATOR)	750	1500		
1000	REC-ROOM 403 (MICROWAVE)	27	AFCI	28	REC-ROOM 417 (MICROWAVE)	1000		2000	
500	ROOM 403 (GARBAGE DISPOSAL)	29	AFCI	30	ROOM 417 (GARBAGE DISPOSAL)	500			1000
750	REC-ROOM 403 (DISHWASHER)	31	AF/G	32	REC-ROOM 417 (DISHWASHER)	750	1500		
1099	LTG/REC-ROOM 405	33	AFCI	34	LTG/REC-ROOM 419	939		2038	
399	LTG/REC-ROOM 405	35	AFCI	36	LTG/REC-ROOM 419	410			809
230	LTG/REC-ROOM 405	37	AFCI	38	LTG/REC-ROOM 419	386	616		
1139	LTG/REC-ROOM 405	39	AFCI	40	LTG/REC-ROOM 419	1099		2238	
750	REC-ROOM 405 (REFRIGERATOR)	41	AFCI	42	REC-ROOM 419 (REFRIGERATOR)	750			1500

NOTES:

1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE TYPED PANEL SCHEDULE

AFCI – DENOTES AFCI TYPE CIRCUIT BREAKER TO BE PURCHASED AND INSTALLED BY CONTRACTOR.

AF/G – DENOTES COMBINATION AFCI/GFI TYPE CIRCUIT BREAKER

PHASE A	29870		
PHASE B		27963	
PHASE C			30029
TOTAL VA	87862		
CONNECTED AMPERAGE	244 AMPERES		

PANEL 4RPA SECTION 2

208/120 VOLT, 250 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N	S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
1000	REC-ROOM 405 (MICROWAVE)	43	44	REC-ROOM 419 (MICROWAVE)	1000	2000		
500	ROOM 405 (GARBAGE DISPOSAL)	45	46	ROOM 419 (GARBAGE DISPOSAL)	500		1000	
750	REC-ROOM 405 (DISHWASHER)	47	48	REC-ROOM 419 (DISHWASHER)	750			1500
1099	LTG/REC-ROOM 407	49	50	LTG/REC-ROOM 421	939	2038		
399	LTG/REC-ROOM 407	51	52	LTG/REC-ROOM 421	410		809	
230	LTG/REC-ROOM 407	53	54	LTG/REC-ROOM 421	386			616
1139	LTG/REC-ROOM 407	55	56	LTG/REC-ROOM 421	1099	2238		
750	REC-ROOM 407 (REFRIGERATOR)	57	58	REC-ROOM 421 (REFRIGERATOR)	750		1500	
1000	REC-ROOM 407 (MICROWAVE)	59	60	REC-ROOM 421 (MICROWAVE)	1000			2000
500	ROOM 407 (GARBAGE DISPOSAL)	61	62	ROOM 421 (GARBAGE DISPOSAL)	500	1000		
750	REC-ROOM 407 (DISHWASHER)	63	64	REC-ROOM 421 (DISHWASHER)	750		1500	
1099	LTG/REC-ROOM 409	65	66	LTG/REC-ROOM 423	939			2038
399	LTG/REC-ROOM 409	67	68	LTG/REC-ROOM 423	410	809		
230	LTG/REC-ROOM 409	69	70	LTG/REC-ROOM 423	386		616	
1139	LTG/REC-ROOM 409	71	72	LTG/REC-ROOM 423	1099			2238
750	REC-ROOM 409 (REFRIGERATOR)	73	74	REC-ROOM 423 (REFRIGERATOR)	750	1500		
1000	REC-ROOM 409 (MICROWAVE)	75	76	REC-ROOM 423 (MICROWAVE)	1000		2000	
500	ROOM 409 (GARBAGE DISPOSAL)	77	78	ROOM 423 (GARBAGE DISPOSAL)	500			1000
750	REC-ROOM 409 (DISHWASHER)	79	80	REC-ROOM 423 (DISHWASHER)	750	1500		
1099	LTG/REC-ROOM 411	81	82	LTG/REC-ROOM 425	939		2038	
399	LTG/REC-ROOM 411	83	84	LTG/REC-ROOM 425	410			809

PANEL 4RPA SECTION 3

208/120 VOLT, 250 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N	S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
230	LTG/REC-ROOM 411	85	86	LTG/REC-ROOM 425	386	616		
1139	LTG/REC-ROOM 411	87	88	LTG/REC-ROOM 425	1099		2238	
750	REC-ROOM 411 (REFRIGERATOR)	89	90	REC-ROOM 425 (REFRIGERATOR)	750			1500
1000	REC-ROOM 411 (MICROWAVE)	91	92	REC-ROOM 425 (MICROWAVE)	1000	2000		
500	ROOM 411 (GARBAGE DISPOSAL)	93	94	ROOM 425 (GARBAGE DISPOSAL)	500		1000	
750	REC-ROOM 411 (DISHWASHER)	95	96	REC-ROOM 425 (DISHWASHER)	750			1500
939	LTG/REC-ROOM 413	97	98	LTG/REC-ROOM 427	939	1878		
410	LTG/REC-ROOM 413	99	100	LTG/REC-ROOM 427	410		820	
386	LTG/REC-ROOM 413	101	102	LTG/REC-ROOM 427	386			772
1099	LTG/REC-ROOM 413	103	104	LTG/REC-ROOM 427	1099	2198		
750	REC-ROOM 413 (REFRIGERATOR)	105	106	REC-ROOM 427 (REFRIGERATOR)	750		1500	
1000	REC-ROOM 413 (MICROWAVE)	107	108	REC-ROOM 427 (MICROWAVE)	1000			2000
500	ROOM 413 (GARBAGE DISPOSAL)	109	110	ROOM 427 (GARBAGE DISPOSAL)	500	1000		
750	REC-ROOM 413 (DISHWASHER)	111	112	REC-ROOM 427 (DISHWASHER)	750		1500	
1099	LTG/REC-ROOM 429	113	114	REC-ROOM 429 (REFRIGERATOR)	750			1849
592	LTG/REC-ROOM 429	115	116	REC-ROOM 429 (MICROWAVE)	1000	1592		
230	LTG/REC-ROOM 429	117	118	ROOM 429 (GARBAGE DISPOSAL)	500		730	
1100	LTG/REC-ROOM 429	119	120	REC-ROOM 429 (DISHWASHER)	750			1850
	SPARE 20A BREAKER	121	122	SPARE 20A BREAKER				
	SPARE 20A BREAKER	123	124	SPARE 20A BREAKER				
	SPARE 20A BREAKER	125	126	SPARE 20A BREAKER				

PHASE A	29870		
PHASE B		27963	
PHASE C			30029
TOTAL VA	87862		
CONNECTED AMPERAGE	244 AMPERES		

PANEL 4RPB SECTION 1

208/120 VOLT, 250 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N	250A M. L. O.	S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
939	LTG/REC-ROOM 406	1	AFCI	2	LTG/REC-ROOM 420	243	1182		
410	LTG/REC-ROOM 406	3	AFCI	4	LTG/REC-ROOM 420	1100		1510	
386	LTG/REC-ROOM 406	5	AFCI	6	LTG/REC-ROOM 420	929			1315
1099	LTG/REC-ROOM 406	7	AFCI	8	LTG/REC-ROOM 420	785	1884		
750	REC-ROOM 406 (REFRIGERATOR)	9	AFCI	10	REC-ROOM 420 (REFRIGERATOR)	750		1500	
1000	REC-ROOM 406 (MICROWAVE)	11	AFCI	12	REC-ROOM 420 (MICROWAVE)	1000			2000
500	ROOM 406 (GARBAGE DISPOSAL)	13	AF/G	14	ROOM 420 (GARBAGE DISPOSAL)	500	1000		
750	REC-ROOM 406 (DISHWASHER)	15	AF/G	16	REC-ROOM 420 (DISHWASHER)	750		1500	
939	LTG/REC-ROOM 408	17	AFCI	18	LTG/REC-ROOM 422	939			1878
410	LTG/REC-ROOM 408	19	AFCI	20	LTG/REC-ROOM 422	410	820		
386	LTG/REC-ROOM 408	21	AFCI	22	LTG/REC-ROOM 422	386		772	
1099	LTG/REC-ROOM 408	23	AFCI	24	LTG/REC-ROOM 422	1099			2198
750	REC-ROOM 408 (REFRIGERATOR)	25	AFCI	26	REC-ROOM 422 (REFRIGERATOR)	750	1500		
1000	REC-ROOM 408 (MICROWAVE)	27	AFCI	28	REC-ROOM 422 (MICROWAVE)	1000		2000	
500	ROOM 408 (GARBAGE DISPOSAL)	29	AFCI	30	ROOM 422 (GARBAGE DISPOSAL)	500			1000
750	REC-ROOM 408 (DISHWASHER)	31	AF/G	32	REC-ROOM 422 (DISHWASHER)	750	1500		
939	LTG/REC-ROOM 410	33	AFCI	34	LTG/REC-ROOM 424	1099		2038	
410	LTG/REC-ROOM 410	35	AFCI	36	LTG/REC-ROOM 424	399			809
386	LTG/REC-ROOM 410	37	AFCI	38	LTG/REC-ROOM 424	230	616		
1099	LTG/REC-ROOM 410	39	AFCI	40	LTG/REC-ROOM 424	1139		2238	
750	REC-ROOM 410 (REFRIGERATOR)	41	AFCI	42	REC-ROOM 424 (REFRIGERATOR)	750			1500

NOTES:

1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE TYPED PANEL SCHEDULE

AFCI – DENOTES AFCI TYPE CIRCUIT BREAKER TO BE PURCHASED AND INSTALLED BY CONTRACTOR.

AF/G – DENOTES COMBINATION AFCI/GFI TYPE CIRCUIT BREAKER

GFI – DENOTES GFI TYPE CIRCUIT BREAKER TO BE PURCHASED AND INSTALLED BY CONTRACTOR.

PANEL 4RPB SECTION 2

208/120 VOLT, 250 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N	S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
1000	REC-ROOM 410 (MICROWAVE)	43	44	REC-ROOM 424 (MICROWAVE)	1000	2000		
500	ROOM 410 (GARBAGE DISPOSAL)	45	46	ROOM 424 (GARBAGE DISPOSAL)	500		1000	
750	REC-ROOM 410 (DISHWASHER)	47	48	REC-ROOM 424 (DISHWASHER)	750			1500
939	LTG/REC-ROOM 412	49	50	LTG/REC-ROOM 426	1099	2038		
410	LTG/REC-ROOM 412	51	52	LTG/REC-ROOM 426	399		809	
386	LTG/REC-ROOM 412	53	54	LTG/REC-ROOM 426	230			616
1099	LTG/REC-ROOM 412	55	56	LTG/REC-ROOM 426	1139	2238		
750	REC-ROOM 412 (REFRIGERATOR)	57	58	REC-ROOM 426 (REFRIGERATOR)	750		1500	
1000	REC-ROOM 412 (MICROWAVE)	59	60	REC-ROOM 426 (MICROWAVE)	1000			2000
500	ROOM 412 (GARBAGE DISPOSAL)	61	62	ROOM 426 (GARBAGE DISPOSAL)	500	1000		
750	REC-ROOM 412 (DISHWASHER)	63	64	REC-ROOM 426 (DISHWASHER)	750		1500	
939	LTG/REC-ROOM 414	65	66	LTG/REC-ROOM 428	1099			2038
410	LTG/REC-ROOM 414	67	68	LTG/REC-ROOM 428	399	809		
386	LTG/REC-ROOM 414	69	70	LTG/REC-ROOM 428	230		616	
1099	LTG/REC-ROOM 414	71	72	LTG/REC-ROOM 428	1139			2238
750	REC-ROOM 414 (REFRIGERATOR)	73	74	REC-ROOM 428 (REFRIGERATOR)	750	1500		
1000	REC-ROOM 414 (MICROWAVE)	75	76	REC-ROOM 428 (MICROWAVE)	1000		2000	
500	ROOM 414 (GARBAGE DISPOSAL)	77	78	ROOM 428 (GARBAGE DISPOSAL)	500			1000
750	REC-ROOM 414 (DISHWASHER)	79	80	REC-ROOM 428 (DISHWASHER)	750	1500		
939	LTG/REC-ROOM 416	81	82	LTG/REC-ROOM 430	1099		2038	
410	LTG/REC-ROOM 416	83	84	LTG/REC-ROOM 430	599			809

PANEL 4RPB SECTION 3

208/120 VOLT, 250 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N	S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
386	LTG/REC-ROOM 416	85	86	LTG/REC-ROOM 430	230	616		
1099	LTG/REC-ROOM 416	87	88	LTG/REC-ROOM 430	1139		2238	
750	REC-ROOM 416 (REFRIGERATOR)	89	90	REC-ROOM 430 (REFRIGERATOR)	750			1500
1000	REC-ROOM 416 (MICROWAVE)	91	92	REC-ROOM 430 (MICROWAVE)	1000	2000		
500	ROOM 416 (GARBAGE DISPOSAL)	93	94	ROOM 430 (GARBAGE DISPOSAL)	500		1000	
750	REC-ROOM 416 (DISHWASHER)	95	96	REC-ROOM 430 (DISHWASHER)	750			1500
939	LTG/REC-ROOM 418	97	98	REC-CORRIDOR 433	720	1659		
410	LTG/REC-ROOM 418	99	100	REC-CORRIDOR 433	720		1130	
386	LTG/REC-ROOM 418	101	102	REC-ELEVATOR LOBBY & HOUSEKEEPING	1080			1466
1099	LTG/REC-ROOM 418	103	104	ICE MAKER	1200	2299		
750	REC-ROOM 418 (REFRIGERATOR)	105	106		1200		1950	
1000	REC-ROOM 418 (MICROWAVE)	107	108	LTG-CORRIDOR 433	560			1560
500	ROOM 418 (GARBAGE DISPOSAL)	109	110	LTG-ELEV. LOBBY & HOUSEKEEPING & CORRIDOR 433	450	950		
750	REC-ROOM 418 (DISHWASHER)	111	112	SPARE 20A BREAKER			750	
	SPARE 20A BREAKER	113	114	SPARE 20A BREAKER				
	SPARE 20A BREAKER	115	116	SPARE 20A BREAKER				
	SPARE 20A BREAKER	117	118	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	119	120	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	121	122	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	123	124	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	125	126	PREPARED SPACE ONLY				

PHASE A	27111		
PHASE B		28089	
PHASE C			26927
TOTAL VA	82127		
CONNECTED AMPERAGE	229 AMPERES		

PANEL 4M SECTION 1

208/120 VOLT, 800 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N	800A M. L. O.	S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
1623	PTAC #401	1	20A	2	PTAC #403	1623	3246		
1623	↓	3	20A	4	↓	1623		3246	
1623	PTAC #405	5	20A	6	PTAC #406	1623			3246
1623	↓	7	20A	8	↓	1623	3246		
1623	PTAC #407	9	20A	10	PTAC #408	1623		3246	
1623	↓	11	20A	12	↓	1623			3246
1623	PTAC #409	13	20A	14	PTAC #410	1623	3246		
1623	↓	15	20A	16	↓	1623		3246	
1623	PTAC #411	17	20A	18	PTAC #412	1623			3246
1623	↓	19	20A	20	↓	1623	3246		
1623	PTAC #413	21	20A	22	PTAC #414	1623		3246	
1623	↓	23	20A	24	↓	1623			3246
1623	PTAC #415	25	20A	26	PTAC #416	1623	3246		
1623	↓	27	20A	28	↓	1623		3246	
1623	PTAC #417	29	20A	30	PTAC #418	1623			3246
1623	↓	31	20A	32	↓	1623	3246		
1623	PTAC #419	33	20A	34	PTAC #420	1623		3246	
1623	↓	35	20A	36	↓	1623			3246
1623	PTAC #421	37	20A	38	PTAC #422	1623	3246		
1623	↓	39	20A	40	↓	1623		3246	
	SPARE 20A BREAKER	41		42	SPARE 20A BREAKER				

NOTES:

1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE TYPED PANEL SCHEDULE

* – ELECTRICAL CONTRACTOR TO PROVIDE RED LOCKING DEVICE ON CIRCUIT BREAKER FOR FIRE ALARM DEVICE

PANEL 4M SECTION 2

208/120 VOLT, 800 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N	S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C
1623	PTAC #423	43	44	PTAC #424	1623	3246		
1623	↓	45	46	↓	1623		3246	
1623	PTAC #425	47	48	PTAC #426	1623			3246
1623	↓	49	50	↓	1623	3246		
1623	PTAC #427	51	52	PTAC #428	1623		3246	
1623	↓	53	54	↓	1623			3246
1623	PTAC #429	55	56	PTAC #430	1623	3246		
1623	↓	57	58	↓	1623		3246	
667	EWH-7	59	60	EF-8	372			839
667	↓	61	62	PANEL UPS-1	2024	2691		
	PREPARED SPACE ONLY	63	64	↓	1518		2181	
	PREPARED SPACE ONLY	65	66	PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	67	68	PREPARED SPACE ONLY				
300	LIGHTING CONTACTOR 1&2	69	70	EXTERIOR SIGN	200		1008	
300	FOURTH FLOOR FIRE ALARM REPEATER	71	72	EXTERIOR SIGN	500			500
	PREPARED SPACE ONLY	73	74	REC-HVAC MAINTENANCE	360	660		
	PREPARED SPACE ONLY	75	76	LTG-BEACON TAPE LTG(ROOF)	384		384	
	PREPARED SPACE ONLY	77	78	LTG-BEACON TAPE LTG (FRONT)	312			312
29870	4RPA	79	80	4RPB	27111	56981		
27963	↓	81	82	↓	28089		56052	
30029	↓	83	84	↓	26927			56956

PHASE A	94592		
PHASE B		92087	
PHASE C			84575
TOTAL VA	271254		
CONNECTED AMPERAGE	753 AMPERES		

PANEL UPS–1

208/120 VOLT, 30 AMP MAIN LUGS ONLY, 1 PHASE, 3 WIRE
FULLY RATED, COPPER PLATED BUS, 10 KAIC

CONN LOAD	CIRCUIT USE	S N	30A M. L. O.	S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B
506	EF-9	1		2	EF-12	506	1012	
506	EF-10	3		4	EF-13	506		1012
506	EF-11	5		6	EF-14	506	1012	
	SPARE 20A BREAKER	7		8	EF-15	506		506
	SPARE 20A BREAKER	9		10	SPARE 20A BREAKER			
	SPARE 20A BREAKER	11		12	SPARE 20A BREAKER			

NOTES:

1. ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
2. PROVIDE TYPED PANEL SCHEDULE

PHASE A	2024	
PHASE B		1518
TOTAL VA	3542	
CONNECTED AMPERAGE	18 AMPERES	

COR3 DESIGN, LLC
ARCHITECTURE

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Consultants:

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Taylor and Viola Structural Engineers
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Hickory, NC 28603
828.328.6331

PLUMBING
LWI Consulting Engineers
870 Cleveland St, STE 1D
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864.271.6535

MECHANICAL
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864.583.6274

MATRIX ENGINEERING, INC.
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(864)583-6274
matrixei.com
PROJECT NUMBER: 2024-091

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Project Title :
HOME 2 SUITES
GREENWOOD SC
475 HOSPITALITY BLVD,
GREENWOOD, SC 29649

Client Logo:

HOME2 SUITES BY HILTON

Seals :

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION MATRIX ENGINEERING INC. No. C01034

REGISTERED PROFESSIONAL ENGINEER No. 9801 HUNTER P. DUNN 10-16-2024

Revisions :

	10.16.2024	Issue For Permit
A	03.20.2025	100% Issue For Hilton
B	06.11.2025	Owner revisions/corrections

Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:
E003.4

Sheet Title :
FOURTH FLOOR
PANEL SCHEDULES

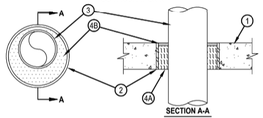
System No. C-AJ-1630

CAJ 1630

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

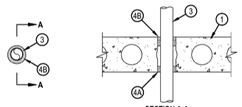
ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 2, 3 & 4 Hr (See Item 4)	F Rating — 2, 3 & 4 Hr (See Item 4)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/sq ft	FH Rating — 2, 3 & 4 Hr (See Item 4)
L Rating At 400 F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
W Rating — Class 1 (See Item 4)	L Rating At Ambient — Less Than 1 CFM/sq ft
	L Rating At 400 F — 4 CFM/sq ft

CONFIGURATION A



SECTION A-A

CONFIGURATION B



SECTION A-A

1. Floor or Wall Assembly — See Configuration A above. Reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/cu meter) concrete as specified in the Table in Item 4 below. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of sleeve(s) opening is 32 in. (813 mm).
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
1A. Floor Assembly — See Configuration B above. Min 6 in. (152 mm) thick UL Classified hollow-core Precast Concrete Units*. Max diam of opening is 7 in. (178 mm).
See Precast Concrete Units (CFTV) category in the Fire Resistance Directory for names of manufacturers.

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System No. C-AJ-1630

CAJ 1630

2. Steel Sleeve (Optional) — Nom 32 in. (813 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe sleeve cast or grouted into floor or wall assembly, flush with both surfaces of floor or wall. As an option, sleeve may extend max 2 in. above top surface of floor or beyond one or both surfaces of wall. Steel sleeve may be used in 2 and 3 hr F Rated systems only.
3. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. See Table in Item 4 for sizes of penetrants A, B, D and E that may be used. See Item 3C below for size of conduit that may be used. The annular space shall be as specified in Table in Item 4 below. The following types and sizes of metallic pipes, conduits or tubing may be used:
A. Steel Pipe — Schedule 10 (or heavier) steel pipe.
B. Iron Pipe — Cast or ductile iron pipe.
C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or nom 6 in. (152 mm) diam (or smaller) steel conduit.
D. Copper Tubing — Type L (or heavier) copper tubing.
E. Copper Pipe — Regular (or heavier) copper pipe.
4. Firestop System — The F Rating of the system is dependent upon the type of concrete, thickness of concrete, annular space, fill and packing material thickness, packing material density and penetrant size as shown in the Table below. W Rating applies to annular spaces of min 0 in. (point contact) to max 1-7/8 in. and to Configuration A detail only.

F Rating hr	Min Thick Concrete In. (mm)	Annular Space In. (mm)	Min Thick Packing Mtl In. (mm)	Min Density Packing Mtl pcf (kg/cu meter)	Min Thick Fill Mtl. In. (mm)	Penetrant Size, In. (mm) Diam (or Smaller)	
						D, E Copper	A, B (Steel Iron)
2	5-1/2 (140)	0 to 1-7/8 (0 to 48)	5 (127)	4 (64)	1/2 (13)	4 (102)	16 (406)
3	4-1/2 (114)	0 to 2-1/8 (0 to 54)	4-1/4 (108)	4 (64)	1/4 (6)	6 (152)	30 (762)
4	5-1/2 (140)	0 to 1-7/8 (0 to 48)	5 (127)	4 (64)	1/2 (13)	4 (102)	8 (203)

A. Packing Material — Min 4-1/4 or 5 in. (108 or 127 mm) thickness of min 4.0 pcf (64 kg/cu meter) mineral wool batt insulation firmly packed into opening as a permanent form as specified in the Table above. Packing material to be recessed from top surface of floor or top end of sleeve, or from both surfaces of wall or ends of sleeve, as required to accommodate the required thickness of fill material. For hollow-core floor applications as shown in Configuration B, one half of the required thickness of mineral wool packing material shall be installed flush with the bottom surface of the floor and the remaining half of the mineral wool packing material installed at the top of the opening and recessed from the top surface of the floor to accommodate the required thickness of the fill material.
B. Fill, Void or Cavity Material* — Caulk — Min 1/4 or 1/2 in. (6 or 13 mm) thickness of fill material as specified in the Table above applied within the annulus, flush with top surface of floor or top end of sleeve, or with both surfaces of wall or ends of sleeve. At the point contact location between pipe and concrete or sleeve, a min 1/2 in. (13 mm) diam bead of fill material shall be applied. As an option, for hollow-core floors, the packing material (Item 4A) on the bottom surface of the floor may be recessed to accommodate a 1/4 in. (6 mm) depth of fill material installed flush with bottom surface of floor.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-S SIL GQ (floors or walls) and CFS-S SIL SL (floors only)
*Bearing the UL Classification Mark

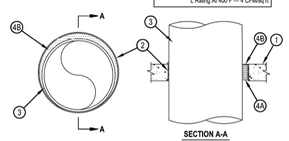
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System No. C-AJ-1226

CAJ 1226

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 3 Hr	F Rating — 3 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/sq ft	FH Rating — 3 Hr
L Rating At 400 F — 4 CFM/sq ft	FTH Rating — 0 Hr
	L Rating At Ambient — Less Than 1 CFM/sq ft
	L Rating At 400 F — 4 CFM/sq ft



SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 32 in. (813 mm).
2. Metallic Sleeve — (Optional) Nom 32 in. (813 mm) diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in. (76 mm) above floor or beyond both surfaces of wall.
2A. Sheet Metal Sleeve — (Optional) Max 6 in. (152 mm) diam, min 26 ga. galv steel provided with a 26 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. (102 mm) below the bottom of the deck and a max of 1 in. (25 mm) above the top surface of the concrete floor.
2B. Sheet Metal Sleeve — (Optional) - Max 12 in. (305 mm) diam, min 24 ga galv steel provided with a 24 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. (102 mm) below the bottom of the deck and a max of 1 in. (25 mm) above the top surface of the concrete floor.
3. Through-Penetrant — One metallic pipe, tube or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). Penetrant may be installed with continuous point contact. Penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic penetrants may be used:
A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
C. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
E. Conduit — Nom 6 in. (152 mm) diam (or smaller) steel conduit.
F. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT).

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System No. C-AJ-1226

CAJ 1226

4. Firestop System — The firestop system shall consist of the following:
A. Packing Material — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or sleeve or from both surfaces of wall or sleeve as required to accommodate the required thickness of fill material.
B. Fill, Void or Cavity Material* — Sealant — Min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with top surface of floor or sleeve or with both surfaces of wall or sleeve. At the point or continuous contact locations between penetrant and concrete or sleeve, a min 1/4 in. (6 mm) diam bead of fill material shall be applied at the concrete or sleeve/ pipe penetrant interface on the top surface of floor and on both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

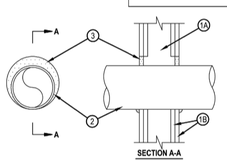
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System No. W-L-1054

WL 1054

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating (Without Movement) at Ambient — Less Than 1 CFM/sq ft	FH Ratings —1 and 2 Hr (See Items 1 and 3)
L Rating (Without Movement) at 400°F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
M Rating (Movement) — See Table 1	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 5.1 L/s/m2
	L Rating at 204°C — Less Than 5.1 L/s/m2



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. For M Rating, steel studs to be min 3-5/8 in. (92 mm) wide. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.
The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly. The M Rating is applicable only to 1 hr rated walls.

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System No. W-L-1054

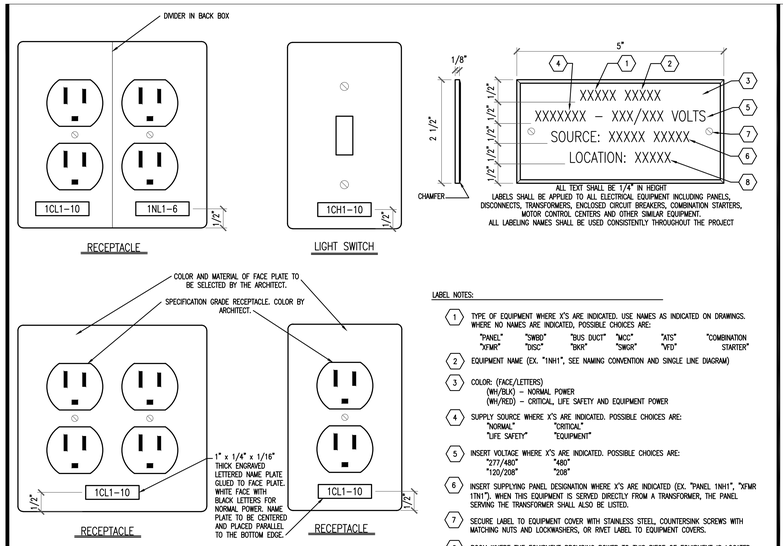
WL 1054

2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, concults or tubing may be used:
A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) . diam steel conduit.
D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant

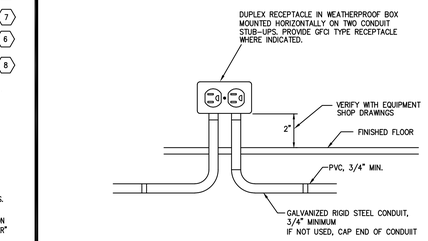
Movement Direction	Penetrant Item	Nominal Penetrant Diameter	Annular Space	Movement	Sealant Depth	F-Rating	L Rating with Movement
Y	2A, 2C*	2 in.	Max 2-1/4 in.	5%	5/8 in.	1 hr	N/A
Z	2A, 2C*	2 in.	2-1/4 in.	0.25 in.	5/8 in.	1 hr	N/A

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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1 RECEPTACLE & ELECTRICAL EQUIPMENT IDENTIFICATION DETAIL NO SCALE

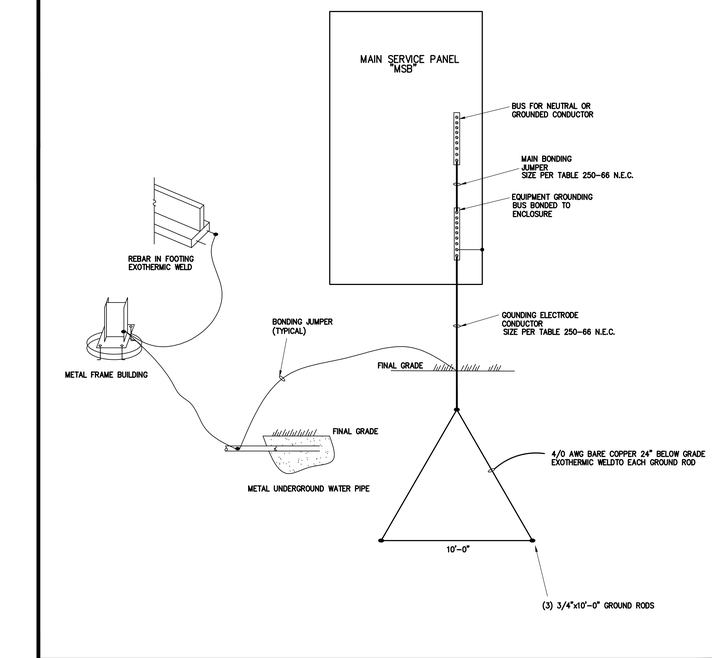


STUB-UP DETAIL

SCALE: NONE

INSTALL TWO 3/4" (MINIMUM) RIGID STEEL CONDUITS TO KEEP BOX FROM TWISTING

2 KITCHEN FLOOR RECEPTACLE DETAIL NO SCALE



3 GROUNDING DETAIL NO SCALE

GUESTROOM CAT6* CABLING

New Construction

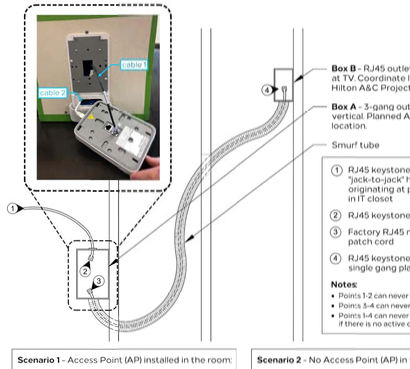
Hilton

This document is provided only for general understanding. Reference Hilton's Brand Standards for specific Brand requirements. Cable must be provided and run by owner's cable installer. Installers and their work must be Panduit certified.

Cat6 cabling is required to operate the AP (Access Point) and set top box at TV. The drawing below demonstrates how one cable can be used to serve both inside a guestroom; therefore, saving the cost of a second cable run.

The following must be considered when placing the boxes:

- **Box A** (at AP) placement behind furniture or TV will reduce signal and require increase in total number of APs. Do not position within damaging range of movable furniture.
- **Box B** (at set top box) must be within reach of the set top box mounted to the back of the TV.



Scenario 1 - Access Point (AP) installed in the room:

- **Point 2** will connect to the AP's uplink port via a 6' to 9' patch cord
- **Point 3** will connect to the AP via its PoE out port of the AP's integral switch.
- The AP, HIA, and HSA mounting bracket will secure over and conceal all cabling in **Box A**.
- **Point 4** will utilize appropriate Panduit locks to secure a patch cord from Point 4 to the set top box.

Scenario 2 - No Access Point (AP) in the room:

- Directly connect **Point 3** and **Point 2** by plugging **Point 3** into **Point 2**.
- **Box A** cabling is hidden and secured with a blank 3-gang cover-plate
- **Point 4** will utilize appropriate Panduit locks to secure a patch cord from Point 4 to the set top box.

*Telephones not included

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4 GUESTROOM CAT6 CABLING DETAIL - NO SCALE

COR3 DESIGN, LLC ARCHITECTURE
COR3 Design, LLC
Commercial, Office, Retail, Restaurant, Real Estate Development
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MATRIX ENGINEERING, INC.
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PROJECT NUMBER: 2024-091

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Project Title :
HOME 2 SUITES
GREENWOOD SC
475 HOSPITALITY BLVD,
GREENWOOD, SC 29649

Client Logo:
HOME2 SUITES BY HILTON

Seals :
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION MATRIX ENGINEERING INC. No. C01034
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 9801 KEVIN B. BUNN
10-16-2024

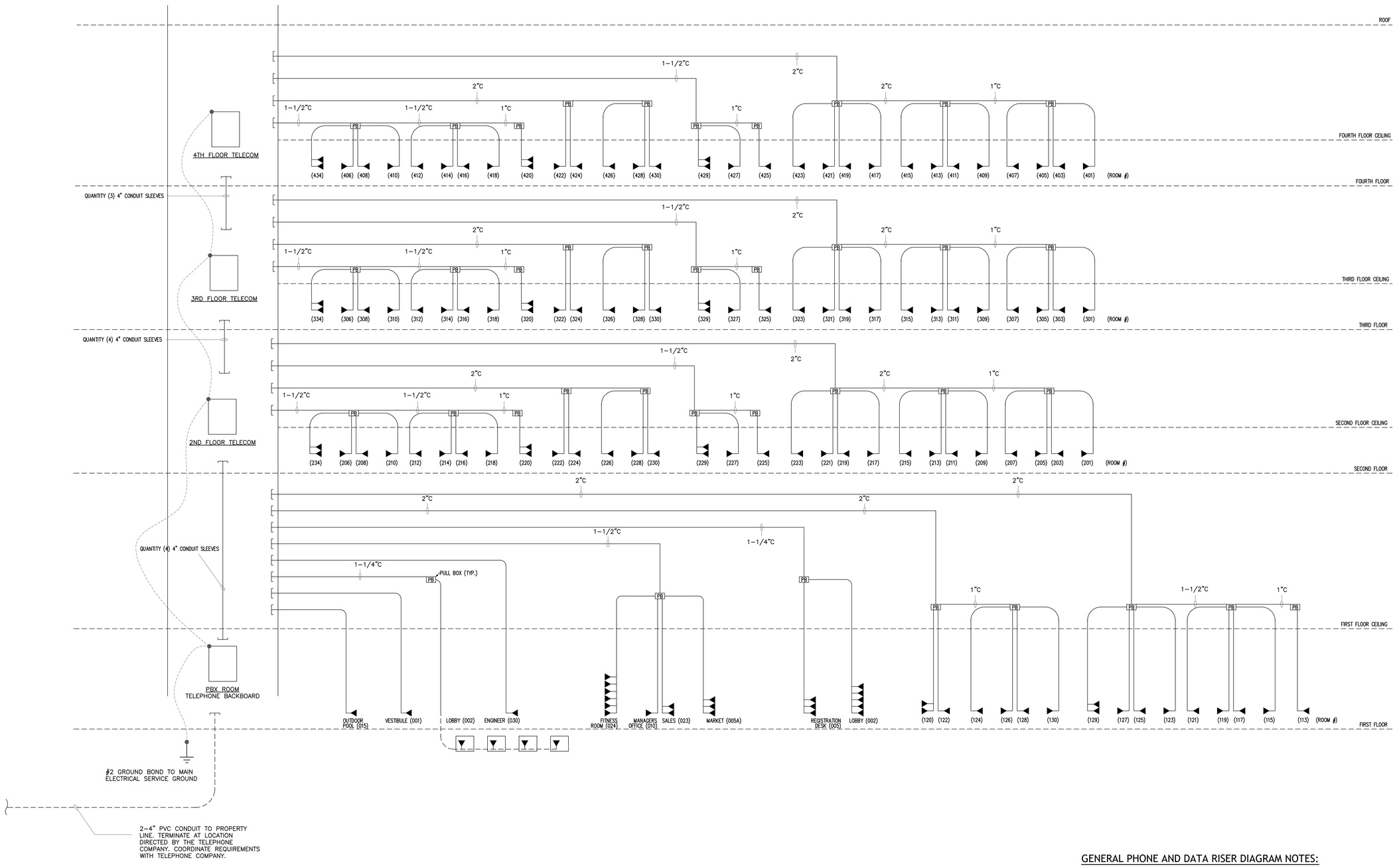
Revisions :

	10.16.2024	Issue For Permit
A	03.20.2025	100% Issue For Hilton
B	06.11.2025	Owner revisions/corrections

Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:
E004

Sheet Title :
ELECTRICAL DETAILS



PHONE AND DATA RISER DIAGRAM

SCALE: NONE

GENERAL PHONE AND DATA RISER DIAGRAM NOTES:

1. ALL CONDUIT SHALL BE 1" CONDUIT UNLESS NOTED OTHERWISE.
2. ALL PHONE AND DATA CABLE SHALL BE INSTALLED IN EMT CONDUIT. DO NOT USE FLEXIBLE CONDUIT OR CONDULET.
3. ELECTRICAL CONTRACTOR TO PROVIDE PULLSTRING WITH ALL CONDUIT.
4. ELECTRICAL CONTRACTOR TO COORDINATE REQUIREMENTS WITH TELECOMMUNICATIONS CONTRACTOR PRIOR TO ANY ROUGH-IN WORK.

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HOME2 SUITES BY HILTON

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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 9801 HARLIN P. SUMAN
10-16-2024

Revisions :

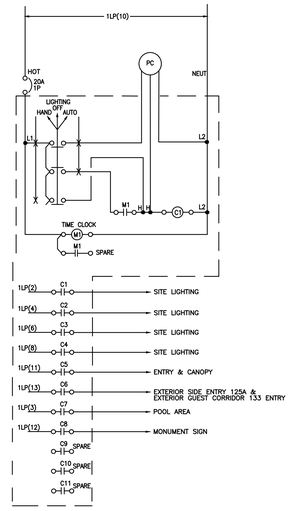
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Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:

E005

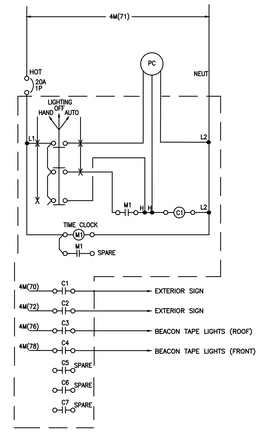
Sheet Title :
LOW VOLTAGE RISER



EXTERIOR LIGHTING CONTACTOR "LC1"

EXTERIOR LIGHTING CONTROLLER NOTES:

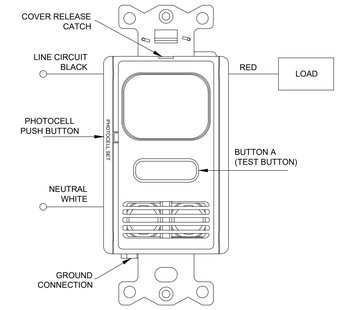
1. EXTERIOR LIGHTING CONTROLLER IS TO BE NEMA 3 ENCLOSURE. SIZED AS REQUIRED. PROVIDE ENGRAVED NAMEPLATE ON DOOR.
2. H-O-A SWITCH IS TO BE ALLEN BRADLEY CAT. NO. 800H-RH3A OIL TIGHT TYPE OR APPROVED EQUAL. MOUNT SWITCH ON DOOR AND PROVIDE NAMEPLATE ENGRAVED AS SHOWN.
3. CONTACTOR TO BE SQUARE D 8903 TYPE LH ELECTRICALLY HELD LIGHTING CONTACTOR OR APPROVED EQUAL. CONTACTS ARE TO BE 30A CONTINUOUS RATED, QUANTITY AS INDICATED.
4. TIMECLOCK TO BE INTERMATIC GM40AV OR APPROVED EQUAL. COORDINATE WITH OWNER FOR MOUNTING LOCATION.
5. PHOTOCELL TO BE TORK PHOTOCONTROL PART #2000-1 OR APPROVED EQUAL
6. PROVIDE APPROPRIATE NUMBER OF POLES FOR LIGHTING PLUS (3) THREE SPARES.



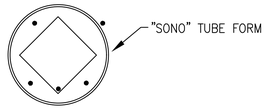
EXTERIOR LIGHTING CONTACTOR "LC2"

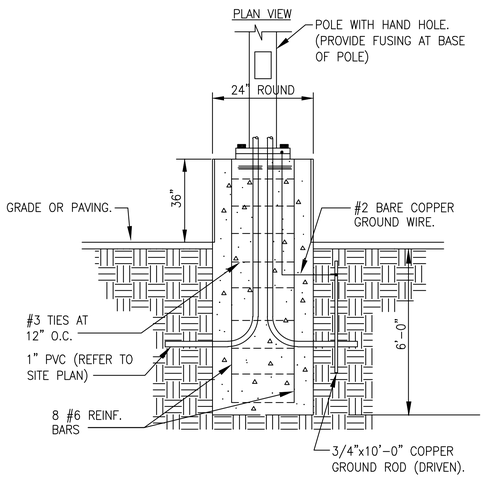
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6. PROVIDE APPROPRIATE NUMBER OF POLES FOR LIGHTING PLUS (3) THREE SPARES.



LHMTS1 LIGHT HAWK DUAL TECH WALL SWITCH/SENSOR (WS1)
-NO SCALE-



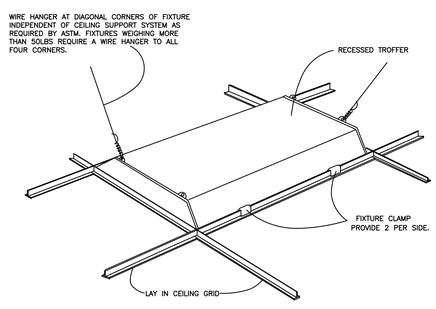


SITE LIGHTING – POLE BASE DETAIL

SCALE : NONE

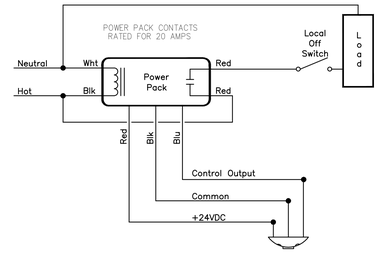
NOTE: ELECTRICAL CONTRACTOR SHALL COORDINATE POLE SIZE BOLT TEMPLATE PRIOR TO FORMING BASE.

DETAIL IS FOR PRICING AND TO SHOW INTENT ONLY. ELECTRICAL CONTRACTOR SHALL CONFIRM DIAMETER AND DEPTH OF BASE TO WITHSTAND MAXIMUM SUSTAINABLE WIND LOADS.



TYPICAL RECESSED FIXTURE MOUNTING DETAIL

NO SCALE



TYPICAL POWER PACK WIRING DIAGRAM

-NOT TO SCALE-

NOTES:

1. DO NOT ATTEMPT TO POWER MORE THAN 4 DEVICES, BE IT SENSORS OR SLAVE PACKS, FROM A SINGLE POWER PACK.
2. LOW VOLTAGE WIRE TO BE 18AWG.

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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 9801 HOWARD P. BLOAN
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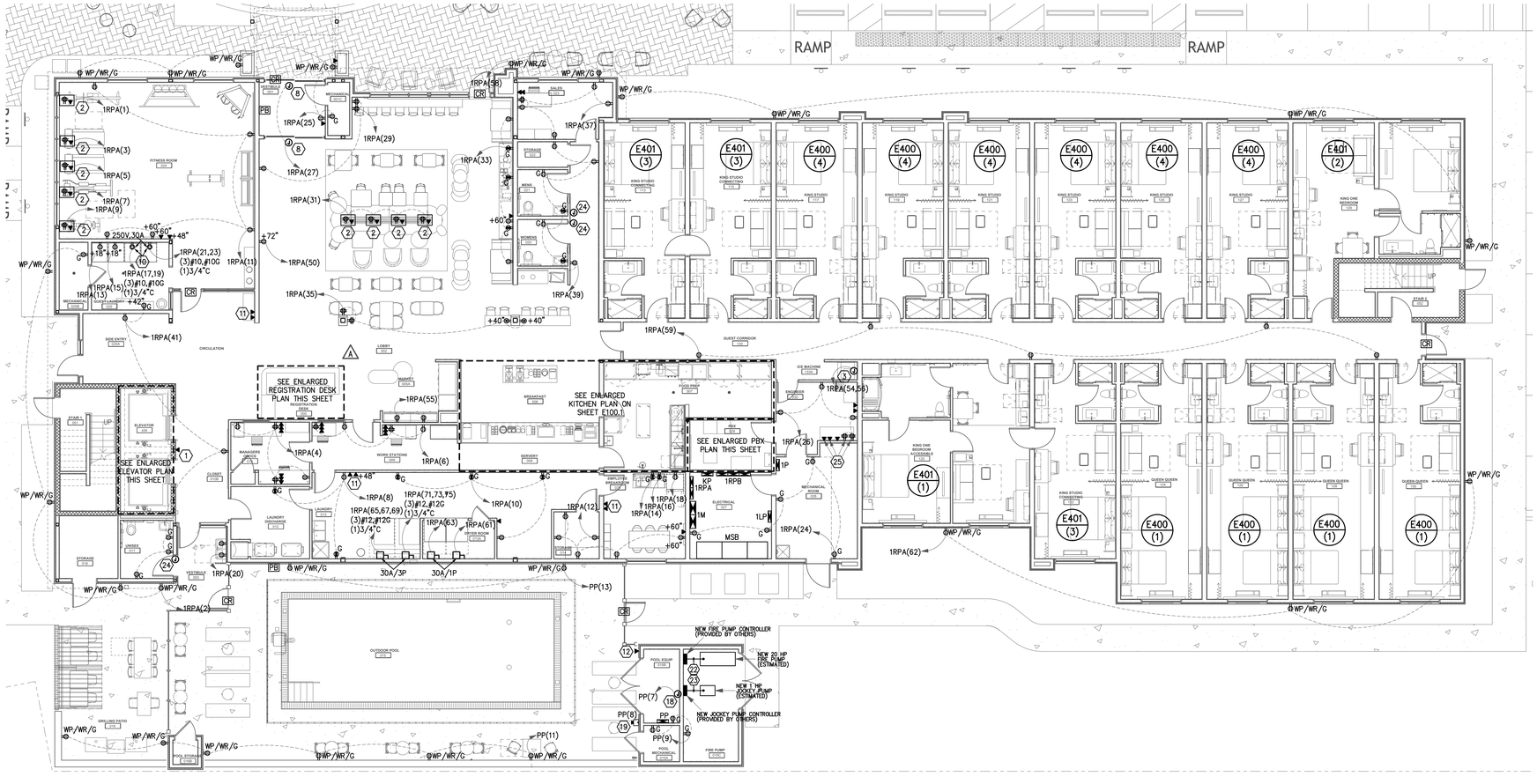
Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:

E006

Sheet Title :

LIGHTING DETAILS



GROUND FLOOR POWER PLAN

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

POOL NOTES:

1. ELECTRICAL CONTRACTOR TO PROVIDE EQUIPOTENTIAL BONDING TO REDUCE VOLTAGE GRADIENTS IN THE POOL AREAS IN ACCORDANCE WITH ARTICLE 680.26 OF THE NATIONAL ELECTRICAL CODE.
2. PARTS ASSOCIATED WITH THE POOL TO BE BONDED INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
   - 2.1. CONDUCTIVE POOL SHELLS (COMMON BONDING POINT)
   - 2.2. PERIMETER SURFACES (REBAR 3 FEET HORIZONTALLY BEYOND THE INSIDE WALL OF THE POOL)
   - 2.3. METALLIC COMPONENTS (ALL METAL PARTS OF THE POOL STRUCTURE ie. STAIRS, LADDERS, BRACKETS, ETC.
   - 2.4. UNDERWATER LIGHTING
   - 2.5. METAL FITTINGS (ALL METAL FITTINGS WITHIN OR ATTACHED TO THE POOL STRUCTURE)
   - 2.6. ELECTRICAL EQUIPMENT (ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH POOL WATER CIRCULATING SYSTEMS ie. PUMPS, MOTORS)
   - 2.7. METAL WIRING METHODS AND EQUIPMENT (ALL CONDUIT, PIPING)

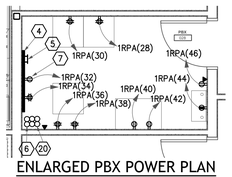
   SEE NEC ARTICLE 680.26 FOR DETAILS.
   THIS DRAWING DOES NOT INDICATE ALL NECESSARY BONDING POINTS.
3. USE POOL SHELL STRUCTURAL REINFORCING STEEL AS A COMMON BONDING POINT TO WHICH ALL METAL PARTS ASSOCIATED WITH THE POOL ARE CONNECTED.
4. ACCEPTABLE BONDING CONNECTIONS SHALL BE EXOTHERMIC WELDING (REBAR CONNECTIONS) AND CLAMPS SPECIFICALLY LISTED FOR THE PURPOSE.
5. ELECTRICAL CONNECTIONS AND COMPONENTS IN THE POOL AREAS AND ASSOCIATED EQUIPMENT ROOMS SHALL BE SUITABLE FOR HIGHLY CORROSIVE WET ENVIRONMENTS. BOXES AND ENCLOSURES IN THESE AREAS SHALL BE NEMA 4X RATED. CONDUIT SHALL BE GALVANIZED RIGID IN ALL ABOVE MENTIONED AREAS WITH THE EXCEPTION OF THE POOL EQUIPMENT ROOM AND THE CHEMICAL STORAGE ROOM WHICH SHALL HAVE PVC COATED RIGID CONDUIT AND FITTINGS. FASTENERS IN AREAS MENTIONED ABOVE SHALL BE STAINLESS STEEL. COORDINATE WITH GENERAL CONTRACTOR TO ENSURE ALL PENETRATIONS INTO METAL OR CONCRETE ARE SEALED TO PREVENT CORROSION.
6. THE BONDING CONDUCTOR SHALL BE SOLID COPPER CONDUCTORS, INSULATED COVERED, OR BARE NOT SMALLER THAN #8 AWG.
7. BOND TOGETHER ALL ELECTRICAL COMPONENTS, CONDUITS, AND PIPING (ALL METAL PARTS) ASSOCIATED WITH THE WATER/HEAT CIRCULATING SYSTEM IN THE POOL EQUIPMENT ROOM AND CHEMICAL STORAGE ROOM.
8. COORDINATE ALL ELECTRICAL ASSOCIATED WITH THE POOL WITH THE POOL CONTRACTOR.
9. CONNECT UNDERWATER WET NICHE LIGHTING FIXTURES. WET NICHE FIXTURES WILL BE FURNISHED AND INSTALLED BY THE POOL CONTRACTOR. WET NICHE FIXTURES SHALL BE 500 WATTS MAXIMUM EACH. FIXTURES SHALL BE CONNECTED TO A GROUND FAULT INTERRUPTER (GFI) CIRCUIT. CONNECT THROUGH LOW VOLTAGE TRANSFORMER.
10. AREA LIGHTING AROUND THE POOL SHALL BE CONNECTED TO GROUND FAULT CIRCUIT INTERRUPTER (GFCI) CIRCUITS.
11. DUPLEX RECEPTACLES AROUND THE POOL SHALL BE GFCI TYPE OR PROTECTED BY GFI CIRCUIT BREAKER. RECEPTACLE SHALL BE WEATHER PROTECTED. RECEPTACLES SHALL BE LOCATED AT LEAST 10'-0" FROM THE INSIDE OF THE POOL WALL.
12. PROVIDE EMERGENCY SHUT-OFF BUTTON FOR POOL PUMP MOTORS. BUTTON SHALL OPERATE SHUNT TRIP OF BREAKERS FEEDING PUMP MOTOR CIRCUIT.

CR DENOTES CARD READER AT THIS LOCATION. PROVIDE 2-GANG BOX AND 3/4" CONDUIT STUBBED UP TO ACCESSIBLE SPACE ABOVE CEILING FOR CONNECTION. CONNECTION TO BE BY OWNER'S VENDOR. SEE DETAIL ON SHEET E001 FOR ADDITIONAL INFORMATION.

PB DENOTES PUSH BUTTON INTERCOM OR HOUSE PHONE (OPTIONAL VIDEO MONITORING) AT THIS LOCATION. PROVIDE A SINGLE GANG BOX AND 3/4" CONDUIT STUBBED UP TO ACCESSIBLE SPACE ABOVE CEILING FOR CONNECTION. CONNECTION TO BE BY OWNER'S VENDOR.

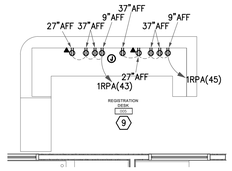
PANEL 1RPB BRANCH CIRCUITS

ROOM	LTG/REC	REFRIGERATOR	MICROWAVE	GARBAGE DISPOSAL	DISHWASHER
113	(1),(3),(5),(7)	(9)	(11)	(13)	(15)
115	(17),(19),(21),(23)	(25)	(27)	(29)	(31)
117	(33),(35),(37),(39)	(41)	(43)	(45)	(47)
119	(49),(51),(53),(55)	(57)	(59)	(61)	(63)
121	(65),(67),(69),(71)	(73)	(75)	(77)	(79)
123	(81),(83),(85),(87)	(89)	(91)	(93)	(95)
125	(97),(99),(101),(103)	(105)	(107)	(109)	(111)
127	(2),(4),(6),(8)	(10)	(12)	(14)	(16)
129	(18),(20),(22),(24)	(26)	(28)	(30)	(32)
120	(34),(36),(38),(40)	(42)	(44)	(46)	(48)
122	(50),(52),(54),(56)	(58)	(60)	(62)	(64)
124	(66),(68),(70),(72)	(74)	(76)	(78)	(80)
126	(82),(84),(86),(88)	(90)	(92)	(94)	(96)
128	(98),(100),(102),(104)	(106)	(108)	(110)	(112)
130	(113),(115),(117),(119)	(114)	(116)	(118)	(120)



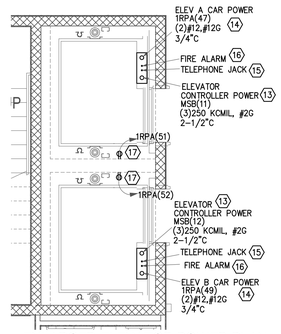
ENLARGED PBX POWER PLAN

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



ENLARGED REGISTRATION DESK POWER PLAN

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



ENLARGED ELEVATOR POWER PLAN

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

GENERAL GROUND FLOOR POWER PLAN NOTES:

1. PROVIDE UL LISTED FIRESTOP ASSEMBLY FOR ALL DEVICES INSTALLED IN FIREWALLS.
2. COORDINATE ALL ELECTRICAL WORK WITH GENERAL CONTRACTOR AND OTHER TRADES ON SITE BEFORE INSTALLATION.
3. ALL RECEPTACLES INSTALLED IN COMMON AREAS SHALL BE TAMPER PROOF PER NEC 406-12.
4. RECEPTACLES WHICH ARE BACK-TO-BACK ON A COMMON WALL SHALL BE OFFSET 6" MINIMUM TO AVOID SOUND TRANSMISSION.
5. ELECTRICAL CONTRACTOR TO PROVIDE ALL ELECTRICAL CONNECTIONS REQUIRED FOR THE POOL EQUIPMENT. COORDINATE WITH GENERAL CONTRACTOR/OWNER AS REQUIRED. ELECTRICAL CONTRACTOR TO PROVIDE ALL GROUNDING AND BONDING FOR POOL AND POOL EQUIPMENT ROOM PER NEC 680.

KEYED GROUND FLOOR POWER PLAN NOTES:

1. DENOTES APPROXIMATE LOCATION OF ELEVATOR PHONE JACK. ELECTRICAL CONTRACTOR TO COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.
2. DENOTES FLUSH MOUNTED FLOOR BOX DEVICE WITH RECEPTACLE, DATA CONNECTION, AND ETHERNET OUTLET. PURCHASE AND INSTALL LEGRAND WIREMOLD SERIES EFB45S OR EQUAL. COORDINATE EXACT REQUIREMENTS WITH FITNESS ROOM EQUIPMENT REQUIREMENTS.
3. DENOTES APPROXIMATE LOCATION OF COMMERCIAL ICE MAKER. ELECTRICAL CONTRACTOR TO COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT CUTSHEET PRIOR TO INSTALLATION.
4. PROVIDE TELEPHONE BACKBOARD AT THIS LOCATION. BACKBOARD TO BE PREMIUM GRADE 8'X4' SHEET OF PLYWOOD FREE FROM ANY WARPING AND OTHER DEFECTS. PLYWOOD SHALL BE PAINTED NO ALL SIX SIDES WITH GRAY FIRE RETARDANT PAINT. ORIENT BACKBOARD WITH 8'-0" DIMENSION VERTICAL, STARTING AT 12" AFF. COORDINATE EXACT REQUIREMENTS WITH GENERAL CONTRACTOR/OWNER PRIOR TO INSTALLATION.
5. TELEPHONE GROUNDING BUS IN PBX ROOM. GROUND BAR TO BE 1/4"X1/4"X18" 98% CONDUCTIVE COPPER INSTALLED ON 600 VOLT PORCELAIN INSULATOR MOUNTED AT 18" AFF. CONNECT TO BUILDING GROUNDING SYSTEM.
6. ELECTRICAL CONTRACTOR TO STUB UP QUANTITY (2)4" CONDUIT WITH PULL STRING FROM SERVICE ENTRANCE LOCATION TO PBX ROOM AS SHOWN. FOR COST ESTIMATING PURPOSES ASSUME 100 LINEAR FEET. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH UTILITY COMPANY/OWNER. SEE SHEET E700 FOR MORE INFORMATION.
7. DENOTES 120V, 15 AMPERE TWIST LOCK RECEPTACLE PROVIDED BY ELECTRICAL CONTRACTOR.
8. DENOTES JUNCTION BOX FOR AUTOMATIC DOOR OPENER MOTOR. MOUNT JUNCTION BOX ABOVE DOOR. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH INSTALLATION DRAWINGS PRIOR TO INSTALLATION.
9. ELECTRICAL CONTRACTOR TO COORDINATE EXACT MOUNTING HEIGHT AND LOCATION OF DEVICES WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
10. DENOTES RECEPTACLE MOUNTED 18" AFF FOR DRYER. COORDINATE EXACT NEMA CONFIGURATION WITH EQUIPMENT PRIOR TO PURCHASING AND INSTALLING.
11. DENOTES DATA TO BE MOUNTED 48" AFF FOR HOUSE PHONE.
12. DENOTES TELEPHONE OUTLET MOUNTED 48" A.F.F.
13. DENOTES ELEVATOR CONTROLLER POWER. CIRCUIT BREAKER AND WIRE SIZES ARE ESTIMATED UNTIL INSTALLATION DOCUMENTATION IS PROVIDED AFTER CONTRACTUAL PURCHASING AGREEMENT.
14. DENOTES 15 AMP, 1 PHASE CIRCUIT FOR ELEVATOR CAR LIGHTING AND ACCESSORIES.
15. PROVIDE (1) DEDICATED OUTSIDE TELEPHONE LINE. CONNECT TO ELEVATOR CONTROLLER.
16. DENOTES CONNECTION FOR FIRE ALARM COMPONENTS SERVING ELEVATOR. SEE FIRE ALARM DRAWINGS.
17. DENOTES ELEVATOR PIT MAINTENANCE RECEPTACLE.
18. DENOTES JUNCTION BOX FOR MASTERTEMP POOL AND SPA HEATER. COORDINATE WITH MASTERTEMP SHOP DRAWINGS PRIOR TO INSTALLING.
19. DENOTES POOL PUMPS EMERGENCY STOP PUSH BUTTON TO DE-ENERGIZE POOL PUMP EQUIPMENT. RUN CIRCUIT THROUCH E-STOP PUSHBUTTON TO SHUNT TRIP BREAKER FEEDING FILTRATION PUMP. PROVIDE RED MAINTAINED MUSHROOM HEAD TYPE PUSH-PULL BUTTON. PROVIDE NAMEPLATE CLEARLY LABELED WITH A MINIMUM 4 INCH HIGH RED LETTERS ON A WHITE BACKGROUND THAT STATES "POOL EMERGENCY CUT-OFF SWITCH." MOUNT SWITCH AT 48 INCHES ABOVE POOL DECK TO TOP OF DEVICE BOX. COORDINATE WITH POOL CONTRACTOR PRIOR TO INSTALLING.
20. ELECTRICAL CONTRACTOR TO STUB UP QUANTITY (4)4" CONDUIT WITH PULL STRING INTO SECOND FLOOR HOUSEKEEPING FOR INTERCONNECTIVITY.
21. DELETED.
22. SEE SHEET E002 FOR FIRE PUMP WIRING INFORMATION.
23. SEE SHEET E002 FOR JOCKEY PUMP WIRING INFORMATION.
24. DENOTES JUNCTION BOX MOUNTED ABOVE CEILING TO SUPPLY 120V POWER TO POWER SUPPLIES UTILIZED FOR ELECTRONIC AUTO-FLUSH TOILETS, URINALS, AND FAUCETS. COORDINATE EXACT QUANTITIES AND LOCATIONS WITH PLUMBING CONTRACTOR. 120V WIRING BY ELECTRICAL CONTRACTOR. LOW VOLTAGE WIRING TO BE DONE BY PLUMBING CONTRACTOR. WIRE TO PANEL 1RPA CIRCUIT 64 WITH (2)#12 AWG, #12G IN 3/4" CONDUIT.
25. DENOTES RECEPTACLE/DATA TO BE MOUNTED ABOVE COUNTER. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION PRIOR TO INSTALLING.

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PROJECT NUMBER: 2024-091

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Project Title :
HOME 2 SUITES GREENWOOD SC
475 HOSPITALITY BLVD,
GREENWOOD, SC 29649

Client Logo:
HOME2 SUITES BY HILTON

Seals :
SOUTH CAROLINA REGISTERED ENGINEER CERTIFICATE OF AUTHORIZATION MATRIX ENGINEERING INC. No. C01034
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 9801 MICHAEL P. BUNN 10-16-2024

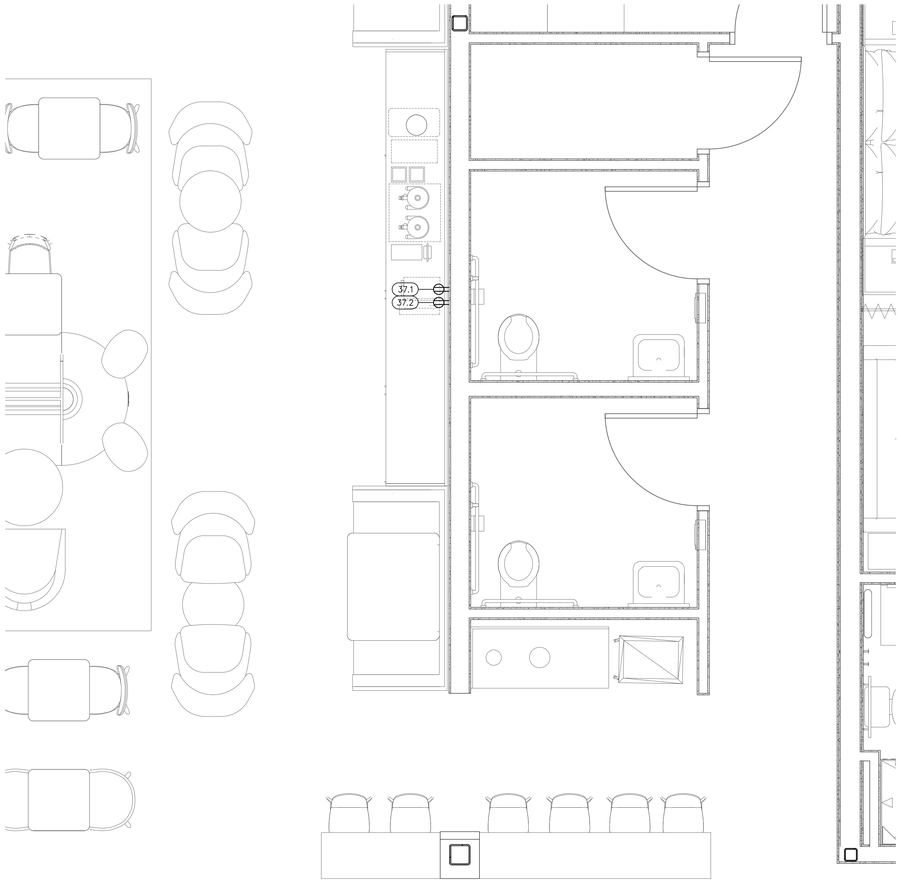
Revisions :

	10.16.2024	Issue For Permit
A	03.20.2025	100% Issue For Hilton
B	06.11.2025	Owner revisions/corrections

Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:
E100

Sheet Title :
GROUND FLOOR POWER PLAN



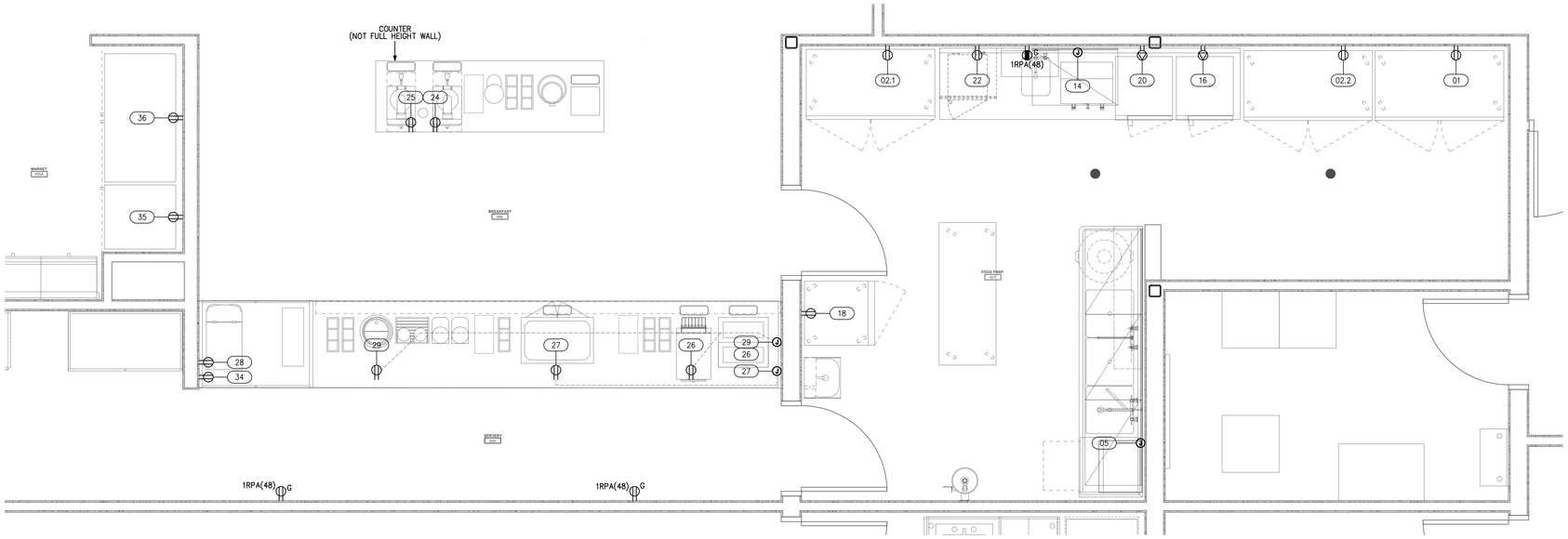


KITCHEN EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	PANEL-CKT#	CB/POLES	VOLTAGE/PH	WIRE-CONDUIT	ELECTRICAL CONNECTION	NOTES
01	MOBILE REACH-IN FREEZER	KP(1)	20A/1P	120V/1PH	(2)#12,#12G-(1)3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 24" AFF TO CENTER OF BOX.
02.1	MOBILE REACH-IN REFRIGERATOR	KP(3)	20A/1P	120V/1PH	(2)#12,#12G-(1)3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 24" AFF TO CENTER OF BOX.
02.2	MOBILE REACH-IN REFRIGERATOR	KP(27)	20A/1P	120V/1PH	(2)#12,#12G-(1)3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 24" AFF TO CENTER OF BOX.
05	UNDERCOUNTER DISHMACHINE (HIGH TEMP)	KP(5,7)	60A/2P	208V/1PH	(3)#6,#10G-(1)3/4"C	DIRECT CONNECTION	MOUNT JUNCTION BOX 24" AFF TO CENTER OF BOX.
14	COFFEE MAKER	KP(9,11)	30A/2P	208V/1PH	(3)#10,#10G-(1)3/4"C	DIRECT CONNECTION	MOUNT JUNCTION BOX 48" AFF TO CENTER OF BOX.
16	CONVECTION OVEN (VENTLESS)	KP(13,15)	30A/2P	208V/1PH	(3)#10,#10G-(1)3/4"C	PROVIDE RECEPTACLE, CORD AND PLUG AS REQUIRED	MOUNT RECEPTACLE 48" AFF TO CENTER OF BOX.
18	MOBILE REACH-IN FREEZER	KP(17)	20A/1P	120V/1PH	(2)#12,#12G-(1)3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 24" AFF TO CENTER OF BOX.
20	CONVECTION OVEN (VENTLESS)	KP(19,21)	30A/2P	208V/1PH	(3)#10,#10G-(1)3/4"C	PROVIDE RECEPTACLE, CORD AND PLUG AS REQUIRED	MOUNT RECEPTACLE 48" AFF TO CENTER OF BOX.
22	MICROWAVE OVEN WITH SHELF	KP(23)	20A/1P	120V/1PH	(2)#12,#12G-(1)3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 48" AFF TO CENTER OF BOX.
24	WAFFLE MAKER	KP(20)	20A/1P	120V/1PH	(2)#12,#12G-(1)3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 18" AFF TO CENTER OF BOX.
25	WAFFLE MAKER (FUTURE)	KP(25)	20A/1P	120V/1PH	(2)#12,#12G-(1)3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 18" AFF TO CENTER OF BOX.
26	CONVEYOR TOASTER	KP(2)	20A/1P	120V/1PH	(2)#12,#12G-(1)3/4"C	PROVIDE NEMA 5-20R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 18" AFF TO CENTER OF BOX. COORDINATE WITH KITCHEN EQUIPMENT VENDOR.
27	DISPLAY SHOWCASE	KP(4)	20A/1P	120V/1PH	(2)#12,#12G-(1)3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 18" AFF TO CENTER OF BOX. COORDINATE WITH KITCHEN EQUIPMENT VENDOR.
28	JUICE DISPENSER	KP(6)	20A/1P	120V/1PH	(2)#12,#12G-(1)3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 48" AFF TO CENTER OF BOX.
29	WARMING KETTLE	KP(22)	20A/1P	120V/1PH	(2)#12,#12G-(1)3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 48" AFF TO CENTER OF BOX. COORDINATE WITH KITCHEN EQUIPMENT VENDOR.
34	YOGURT DISPENSER	KP(8)	20A/1P	120V/1PH	(2)#12,#12G-(1)3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 18" AFF TO CENTER OF BOX.
35	REACH-IN DISPLAY FREEZER	KP(10)	20A/1P	120V/1PH	(2)#12,#12G-(1)3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 18" AFF TO CENTER OF BOX.
36	REACH-IN DISPLAY REFRIGERATOR	KP(12)	20A/1P	120V/1PH	(2)#12,#12G-(1)3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 24" AFF TO CENTER OF BOX.
37.1	WATER DISPENSER - CHILLER	KP(14)	20A/2P	120V/1PH	(2)#12,#12G-(1)3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 48" AFF TO CENTER OF BOX.
37.2	WATER DISPENSER - BOILER	KP(16)	20A/2P	120V/1PH	(2)#12,#12G-(1)3/4"C	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	MOUNT RECEPTACLE 48" AFF TO CENTER OF BOX.

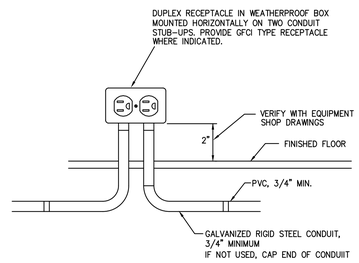
GENERAL ENLARGED FOOD PREP PLAN NOTES:

1. ALL CIRCUITS WIRED WITH (2) #12, #12 GND, 3/4" C UNLESS NOTED OTHERWISE.
2. COORDINATE FINAL LOCATION OF ALL ELECTRICAL OUTLETS WITH OWNER PRIOR TO INSTALLING.
3. COORDINATE ALL KITCHEN EQUIPMENT JUNCTION BOXES, RECEPTACLES, AND DATA DEVICE BOX MOUNTING HEIGHTS WITH THE KITCHEN EQUIPMENT VENDOR AND DRAWINGS.
4. ALL 120V, 1P 15 & 20 AMP RECEPTACLES IN THE KITCHEN AREA SHALL BE GFCI TYPE AND MOUNTED IN A READILY ACCESSIBLE LOCATION. READILY ACCESSIBLE IS DEFINED AS NOT HAVING TO MOVE ANY EQUIPMENT IN ORDER TO RESET OR TEST THE GFCI RECEPTACLE.
5. VERIFY ALL PLUG CONFIGURATIONS AND MOUNTING HEIGHTS OF ALL KITCHEN EQUIPMENT OUTLET BOXES WITH FOOD SERVICE EQUIPMENT CONTRACTOR BEFORE INSTALLATION OF CONDUIT AND WIRING.
6. ELECTRICAL CONTRACTOR TO INSTALL STAINLESS STEEL DEVICE PLATES FOR ALL DEVICES IN KITCHEN.
7. ALL SINGLE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERES OR LESS INSTALLED IN THE KITCHEN/FOOD PREP AREA SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL. PER THE REQUIREMENTS OF NEC ARTICLE 210.8(B). FOR EACH CIRCUIT SHOWING "GFCI" THE ELECTRICAL CONTRACTOR SHALL PROVIDE EITHER GFCI CIRCUIT BREAKERS OR RECEPTACLES THAT WILL MEET THE "READILY ACCESSIBLE" REQUIREMENT.
8. CONTRACTOR SHALL COORDINATE WITH ALL CONDUIT THAT IS TO BE ROUTED IN SLAB WITH THE GENERAL CONTRACTOR PRIOR TO INSTALLATION.



ENLARGED FOOD PREP PLAN

SCALE: 1/2" = 1'-0"



STUB-UP DETAIL

SCALE: NONE

INSTALL TWO 3/4" (MINIMUM) RIGID STEEL CONDUITS TO KEEP BOX FROM TWISTING

BREAKFAST/SERVERY FLOOR RECEPTACLE DETAIL

SCALE: 1/2" = 1'-0"

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HOME 2 SUITES GREENWOOD SC

475 HOSPITALITY BLVD,
GREENWOOD, SC 29649

Client Logo:

HOME2 SUITES BY HILTON

Seals :

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049801 REGISTERED MATTHEW P. BUNN 10-16-2024

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 9801 REGISTERED MATTHEW P. BUNN 10-16-2024

MATRIX ENGINEERING INC. No. C01034 CERTIFICATE OF AUTHORIZATION

Revisions :

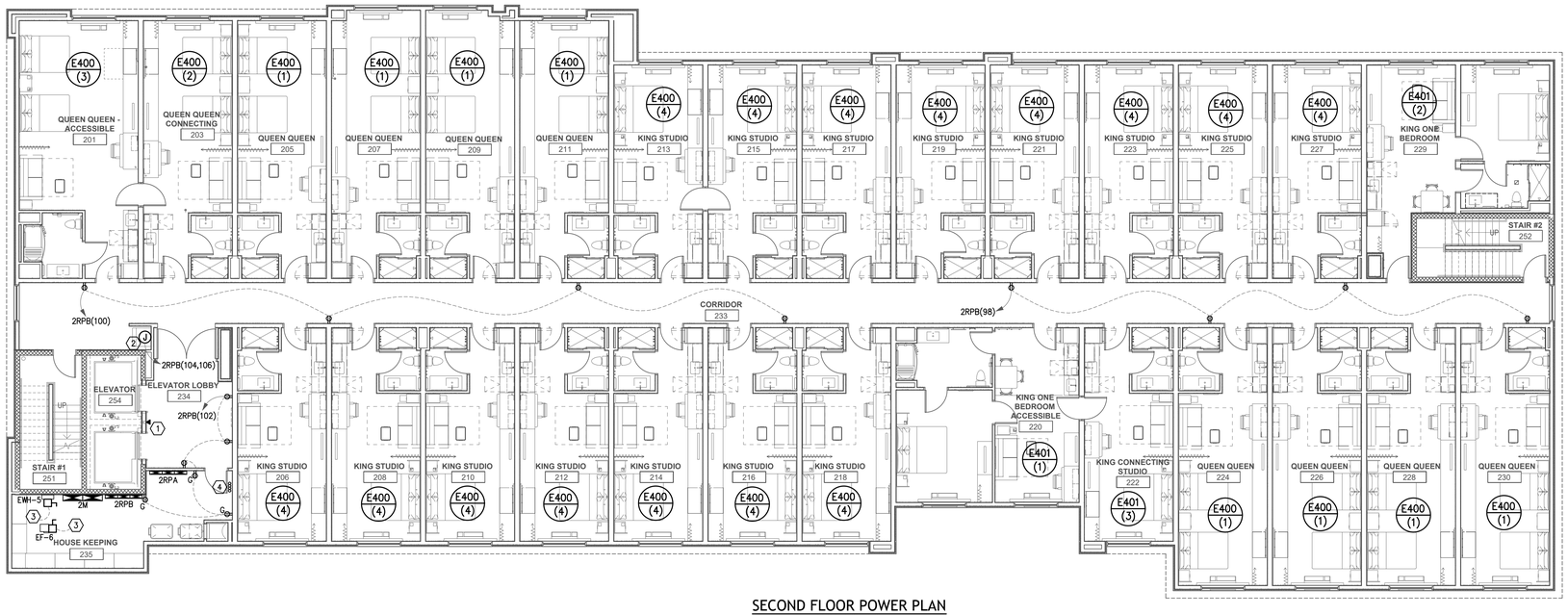
10.16.2024	Issue For Permit
A 03.20.2025	100% Issue For Hilton
B 06.11.2025	Owner revisions/corrections

Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:

E100.1

Sheet Title :
ENLARGED FOOD PREP PLAN



SECOND FLOOR POWER PLAN

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

PANEL 2RPA BRANCH CIRCUITS					
ROOM	LTG/REC	REFRIGERATOR	MICROWAVE	GARBAGE DISPOSAL	DISHWASHER
201	(1),(3),(5),(7)	(9)	(11)	(13)	(15)
203	(17),(19),(21),(23)	(25)	(27)	(29)	(31)
205	(33),(35),(37),(39)	(41)	(43)	(45)	(47)
207	(49),(51),(53),(55)	(57)	(59)	(61)	(63)
209	(65),(67),(69),(71)	(73)	(75)	(77)	(79)
211	(81),(83),(85),(87)	(89)	(91)	(93)	(95)
213	(97),(99),(101),(103)	(105)	(107)	(109)	(111)
215	(2),(4),(6),(8)	(10)	(12)	(14)	(16)
217	(18),(20),(22),(24)	(26)	(28)	(30)	(32)
219	(34),(36),(38),(40)	(42)	(44)	(46)	(48)
221	(50),(52),(54),(56)	(58)	(60)	(62)	(64)
223	(66),(68),(70),(72)	(74)	(76)	(78)	(80)
225	(82),(84),(86),(88)	(90)	(92)	(94)	(96)
227	(98),(100),(102),(104)	(106)	(108)	(110)	(112)
229	(113),(115),(117),(119)	(114)	(116)	(118)	(120)

PANEL 2RPB BRANCH CIRCUITS					
ROOM	LTG/REC	REFRIGERATOR	MICROWAVE	GARBAGE DISPOSAL	DISHWASHER
206	(1),(3),(5),(7)	(9)	(11)	(13)	(15)
208	(17),(19),(21),(23)	(25)	(27)	(29)	(31)
210	(33),(35),(37),(39)	(41)	(43)	(45)	(47)
212	(49),(51),(53),(55)	(57)	(59)	(61)	(63)
214	(65),(67),(69),(71)	(73)	(75)	(77)	(79)
216	(81),(83),(85),(87)	(89)	(91)	(93)	(95)
218	(97),(99),(101),(103)	(105)	(107)	(109)	(111)
220	(2),(4),(6),(8)	(10)	(12)	(14)	(16)
222	(18),(20),(22),(24)	(26)	(28)	(30)	(32)
224	(34),(36),(38),(40)	(42)	(44)	(46)	(48)
226	(50),(52),(54),(56)	(58)	(60)	(62)	(64)
228	(66),(68),(70),(72)	(74)	(76)	(78)	(80)
230	(82),(84),(86),(88)	(90)	(92)	(94)	(96)

GENERAL SECOND FLOOR POWER PLAN NOTES:

1. PROVIDE UL LISTED FIRESTOP ASSEMBLY FOR ALL DEVICES INSTALLED IN FIREWALLS.
2. COORDINATE ALL ELECTRICAL WORK WITH GENERAL CONTRACTOR AND OTHER TRADES ON SITE BEFORE INSTALLATION.
3. ALL RECEPTACLES INSTALLED IN COMMON AREAS SHALL BE TAMPER PROOF PER NEC 406-12.
4. RECEPTACLES WHICH ARE BACK-TO-BACK ON A COMMON WALL SHALL BE OFFSET 6" MINIMUM TO AVOID SOUND TRANSMISSION.

KEYED SECOND FLOOR POWER PLAN NOTES:

(1) DENOTES APPROXIMATE LOCATION OF ELEVATOR PHONE JACK TO BE COORDINATED WITH ARCHITECT AND HILTON DURING TOP OUT. ELECTRICAL CONTRACTOR TO COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.

(2) DENOTES APPROXIMATE LOCATION OF COMMERCIAL ICE MAKER. ELECTRICAL CONTRACTOR TO COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT CUTSHEET PRIOR TO INSTALLATION.

(3) SEE MECHANICAL EQUIPMENT SCHEDULE ON SHEET E200 FOR WIRING INFORMATION AND ELECTRICAL INFORMATION OF UNIT.

(4) DENOTES APPROXIMATE LOCATION OF QUANTITY (4) 4" CONDUIT SLEEVES WITH PULLSTRING INSTALLED FROM FIRST FLOOR PBX ROOM INTO SECOND FLOOR HOUSEKEEPING FOR DATA/COMMUNICATION. COORDINATE WITH TELECOMMUNICATIONS CONTRACTOR PRIOR TO INSTALLING.

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NORTH CAROLINA — MATRIX ENGINEERING INC. No. C01034 — CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 9801 — MARTIN P. DUNN — 10-16-2024

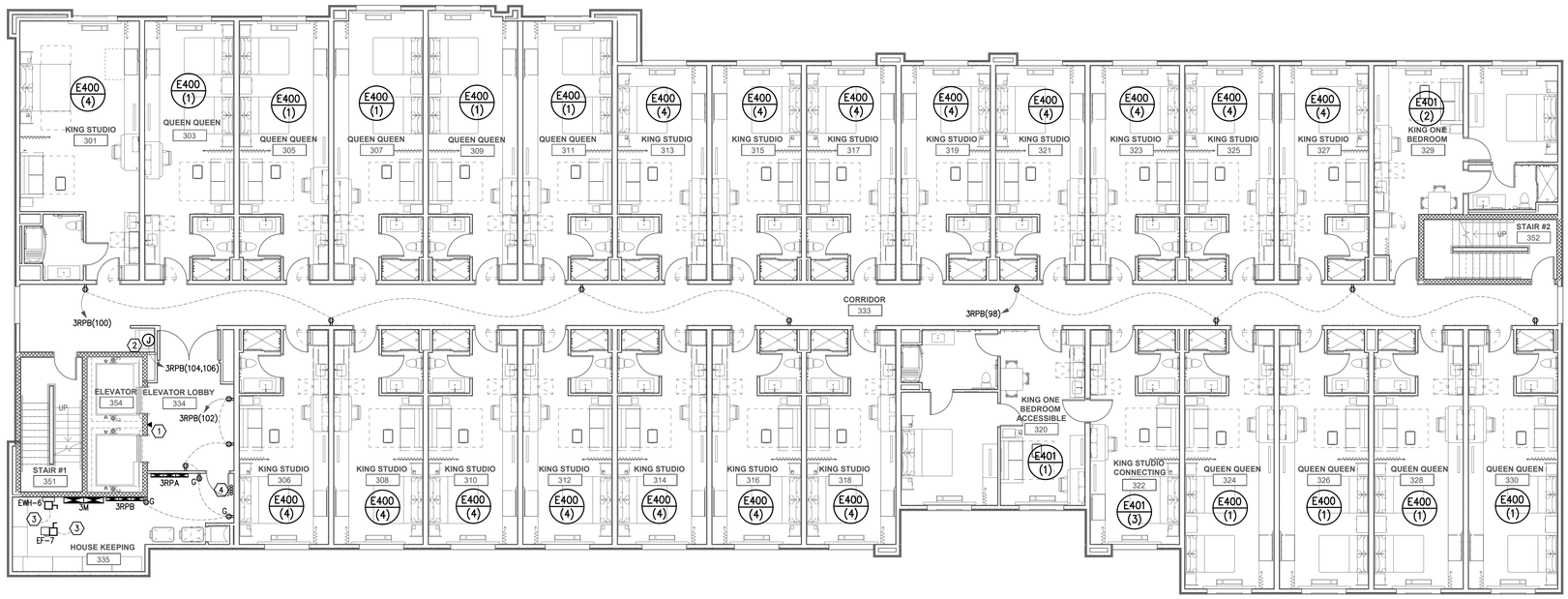
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Project Number : 23112
Phase : CD
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Drawn By : BY
Checked By : HPB

Sheet Number:
E101

Sheet Title :
SECOND FLOOR POWER PLAN



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

PANEL 3RPA BRANCH CIRCUITS

ROOM	LTG/REC	REFRIGERATOR	MICROWAVE	GARBAGE DISPOSAL	DISHWASHER
301	(1),(3),(5),(7)	(9)	(11)	(13)	(15)
303	(17),(19),(21),(23)	(25)	(27)	(29)	(31)
305	(33),(35),(37),(39)	(41)	(43)	(45)	(47)
307	(49),(51),(53),(55)	(57)	(59)	(61)	(63)
309	(65),(67),(69),(71)	(73)	(75)	(77)	(79)
311	(81),(83),(85),(87)	(89)	(91)	(93)	(95)
313	(97),(99),(101),(103)	(105)	(107)	(109)	(111)
315	(2),(4),(6),(8)	(10)	(12)	(14)	(16)
317	(18),(20),(22),(24)	(26)	(28)	(30)	(32)
319	(34),(36),(38),(40)	(42)	(44)	(46)	(48)
321	(50),(52),(54),(56)	(58)	(60)	(62)	(64)
323	(66),(68),(70),(72)	(74)	(76)	(78)	(80)
325	(82),(84),(86),(88)	(90)	(92)	(94)	(96)
327	(98),(100),(102),(104)	(106)	(108)	(110)	(112)
329	(113),(115),(117),(119)	(114)	(116)	(118)	(120)

PANEL 3RPB BRANCH CIRCUITS

ROOM	LTG/REC	REFRIGERATOR	MICROWAVE	GARBAGE DISPOSAL	DISHWASHER
306	(1),(3),(5),(7)	(9)	(11)	(13)	(15)
308	(17),(19),(21),(23)	(25)	(27)	(29)	(31)
310	(33),(35),(37),(39)	(41)	(43)	(45)	(47)
312	(49),(51),(53),(55)	(57)	(59)	(61)	(63)
314	(65),(67),(69),(71)	(73)	(75)	(77)	(79)
316	(81),(83),(85),(87)	(89)	(91)	(93)	(95)
318	(97),(99),(101),(103)	(105)	(107)	(109)	(111)
320	(2),(4),(6),(8)	(10)	(12)	(14)	(16)
322	(18),(20),(22),(24)	(26)	(28)	(30)	(32)
324	(34),(36),(38),(40)	(42)	(44)	(46)	(48)
326	(50),(52),(54),(56)	(58)	(60)	(62)	(64)
328	(66),(68),(70),(72)	(74)	(76)	(78)	(80)
330	(82),(84),(86),(88)	(90)	(92)	(94)	(96)

GENERAL THIRD FLOOR POWER PLAN NOTES:

1. PROVIDE UL LISTED FIRESTOP ASSEMBLY FOR ALL DEVICES INSTALLED IN FIREWALLS.
2. COORDINATE ALL ELECTRICAL WORK WITH GENERAL CONTRACTOR AND OTHER TRADES ON SITE BEFORE INSTALLATION.
3. ALL RECEPTACLES INSTALLED IN COMMON AREAS SHALL BE TAMPER PROOF PER NEC 406-12.
4. RECEPTACLES WHICH ARE BACK-TO-BACK ON A COMMON WALL SHALL BE OFFSET 6" MINIMUM TO AVOID SOUND TRANSMISSION.

KEYED THIRD FLOOR POWER PLAN NOTES:

(1) DENOTES APPROXIMATE LOCATION OF ELEVATOR PHONE JACK TO BE COORDINATED WITH ARCHITECT AND HILTON DURING TOP OUT. ELECTRICAL CONTRACTOR TO COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.

(2) DENOTES APPROXIMATE LOCATION OF COMMERCIAL ICE MAKER. ELECTRICAL CONTRACTOR TO COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT CUTSHEET PRIOR TO INSTALLATION.

(3) SEE MECHANICAL EQUIPMENT SCHEDULE ON SHEET E200 FOR WIRING INFORMATION AND ELECTRICAL INFORMATION OF UNIT.

(4) DENOTES APPROXIMATE LOCATION OF QUANTITY (4) 4" CONDUIT SLEEVES WITH PULLSTRING INSTALLED FROM SECOND FLOOR HOUSKEEPING INTO THIRD FLOOR HOUSEKEEPING FOR DATA/COMMUNICATION. COORDINATE WITH TELECOMMUNICATIONS CONTRACTOR PRIOR TO INSTALLING.

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Seals :
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION MATRIX ENGINEERING INC. No. C01034
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 9801 HARRY P. GUNN
10-16-2024

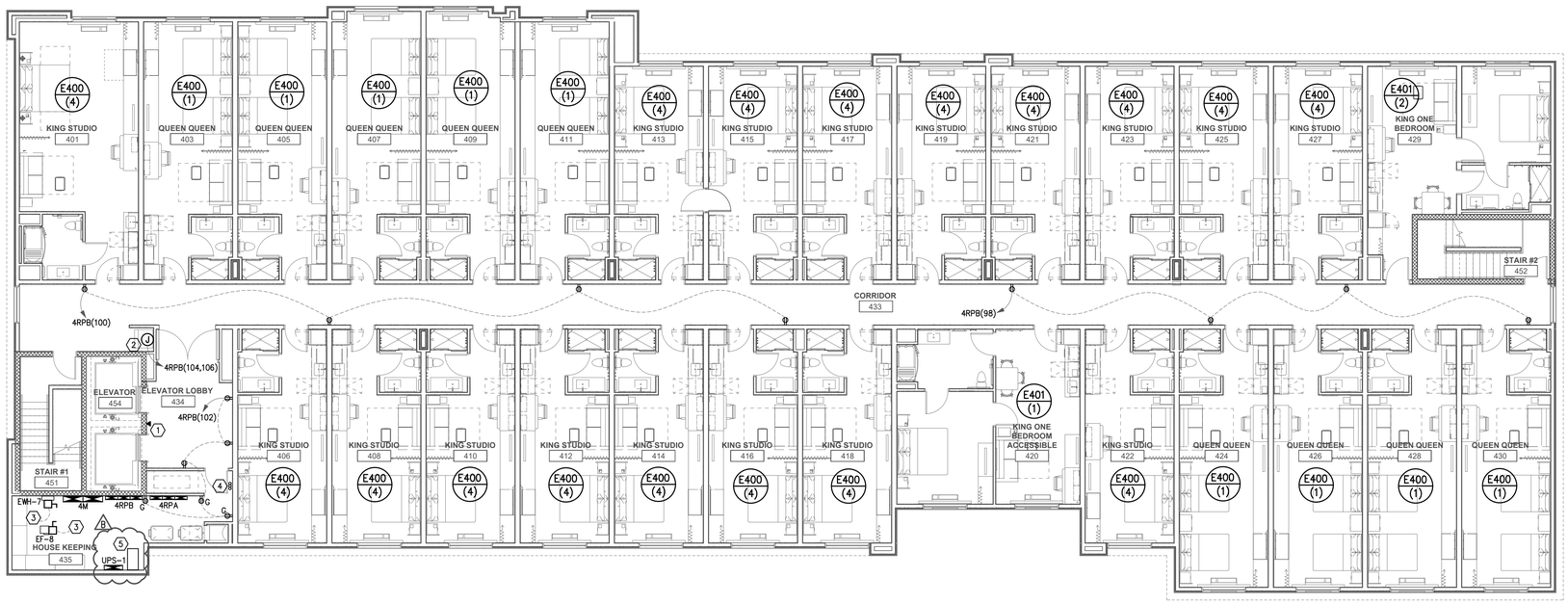
Revisions :

	10.16.2024	Issue For Permit
A	03.20.2025	100% Issue For Hilton
B	06.11.2025	Owner revisions/corrections

Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:
E102

Sheet Title :
THIRD FLOOR
POWER PLAN



FOURTH FLOOR POWER PLAN

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

PANEL 4RPA BRANCH CIRCUITS

ROOM	LTG/REC	REFRIGERATOR	MICROWAVE	GARBAGE DISPOSAL	DISHWASHER
401	(1),(3),(5),(7)	(9)	(11)	(13)	(15)
403	(17),(19),(21),(23)	(25)	(27)	(29)	(31)
405	(33),(35),(37),(39)	(41)	(43)	(45)	(47)
407	(49),(51),(53),(55)	(57)	(59)	(61)	(63)
409	(65),(67),(69),(71)	(73)	(75)	(77)	(79)
411	(81),(83),(85),(87)	(89)	(91)	(93)	(95)
413	(97),(99),(101),(103)	(105)	(107)	(109)	(111)
415	(2),(4),(6),(8)	(10)	(12)	(14)	(16)
417	(18),(20),(22),(24)	(26)	(28)	(30)	(32)
419	(34),(36),(38),(40)	(42)	(44)	(46)	(48)
421	(50),(52),(54),(56)	(58)	(60)	(62)	(64)
423	(66),(68),(70),(72)	(74)	(76)	(78)	(80)
425	(82),(84),(86),(88)	(90)	(92)	(94)	(96)
427	(98),(100),(102),(104)	(106)	(108)	(110)	(112)
429	(113),(115),(117),(119)	(114)	(116)	(118)	(120)

PANEL 4RPB BRANCH CIRCUITS

ROOM	LTG/REC	REFRIGERATOR	MICROWAVE	GARBAGE DISPOSAL	DISHWASHER
406	(1),(3),(5),(7)	(9)	(11)	(13)	(15)
408	(17),(19),(21),(23)	(25)	(27)	(29)	(31)
410	(33),(35),(37),(39)	(41)	(43)	(45)	(47)
412	(49),(51),(53),(55)	(57)	(59)	(61)	(63)
414	(65),(67),(69),(71)	(73)	(75)	(77)	(79)
416	(81),(83),(85),(87)	(89)	(91)	(93)	(95)
418	(97),(99),(101),(103)	(105)	(107)	(109)	(111)
420	(2),(4),(6),(8)	(10)	(12)	(14)	(16)
422	(18),(20),(22),(24)	(26)	(28)	(30)	(32)
424	(34),(36),(38),(40)	(42)	(44)	(46)	(48)
426	(50),(52),(54),(56)	(58)	(60)	(62)	(64)
428	(66),(68),(70),(72)	(74)	(76)	(78)	(80)
430	(82),(84),(86),(88)	(90)	(92)	(94)	(96)

GENERAL FOURTH FLOOR POWER PLAN NOTES:

1. PROVIDE UL LISTED FIRESTOP ASSEMBLY FOR ALL DEVICES INSTALLED IN FIREWALLS.
2. COORDINATE ALL ELECTRICAL WORK WITH GENERAL CONTRACTOR AND OTHER TRADES ON SITE BEFORE INSTALLATION.
3. ALL RECEPTACLES INSTALLED IN COMMON AREAS SHALL BE TAMPER PROOF PER NEC 406-12.
4. RECEPTACLES WHICH ARE BACK-TO-BACK ON A COMMON WALL SHALL BE OFFSET 6" MINIMUM TO AVOID SOUND TRANSMISSION.

KEYED FOURTH FLOOR POWER PLAN NOTES:

1. DENOTES APPROXIMATE LOCATION OF ELEVATOR PHONE JACK TO BE COORDINATED WITH ARCHITECT AND HILTON DURING TOP OUT. ELECTRICAL CONTRACTOR TO COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.
2. DENOTES APPROXIMATE LOCATION OF COMMERCIAL ICE MAKER. ELECTRICAL CONTRACTOR TO COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT CUTSHEET PRIOR TO INSTALLATION.
3. SEE MECHANICAL EQUIPMENT SCHEDULE ON SHEET E200 FOR WIRING INFORMATION AND ELECTRICAL INFORMATION OF UNIT.
4. DENOTES APPROXIMATE LOCATION OF QUANTITY (3) 4" CONDUIT SLEEVES WITH PULLSTRING INSTALLED FROM THIRD FLOOR HOUSKEEPING INTO FOURTH FLOOR HOUSEKEEPING FOR DATA/COMMUNICATION. COORDINATE WITH TELECOMMUNICATIONS CONTRACTOR PRIOR TO INSTALLING.
5. DENOTES PROPOSED LOCATION OF 8 KVA UPS TO BE INSTALLED BY ELECTRICAL CONTRACTOR TO PROVIDE BACKUP POWER TO PANEL UPS-1. COORDINATE WITH OWNER PRIOR TO INSTALLING. UPS TO BE CAPABLE OF PROVIDING BACKUP POWER FOR A MINIMUM OF 2 HOURS.

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PROJECT NUMBER: 2024-091

Project Title :

HOME 2 SUITES
GREENWOOD SC
475 HOSPITALITY BLVD,
GREENWOOD, SC 29649

Client Logo:

HOME2 SUITES BY HILTON

Seals :

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION MATRIX ENGINEERING INC. No. C01034

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 9801 HOWARD P. GUNN

10-16-2024

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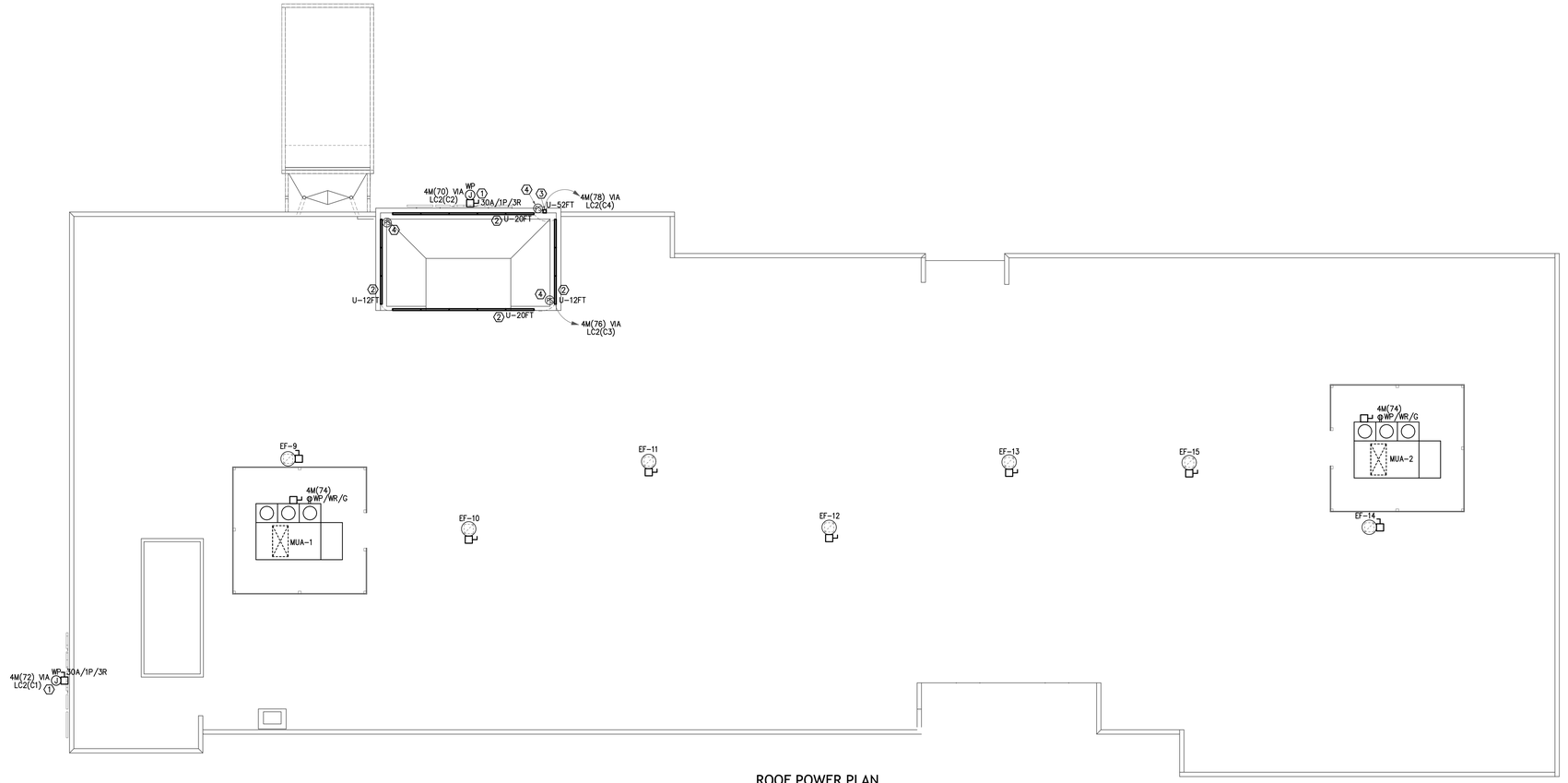
Sheet Number:

E103

Sheet Title :

FOURTH FLOOR POWER PLAN

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

LIGHTING CONTROL LEGEND

(PS) POWER SUPPLY
BL LIGHTING
CATALOG #BL LED DRIVER-J5-96W

GENERAL ROOF POWER PLAN NOTES:

1. ELECTRICAL CONTRACTOR TO COORDINATE WITH OWNER REGARDING EXTERIOR SIGNAGE VOLTAGE/AMPACITY REQUIREMENTS PRIOR TO PURCHASING AND INSTALLING CONDUIT, WIRE, AND CIRCUIT BREAKER.
2. SEE MECHANICAL EQUIPMENT SCHEDULE ON SHEET E-200 AND E-200.1 FOR ELECTRICAL REQUIREMENTS.
3. "FWE" DENOTES FURNISHED WITH EQUIPMENT BY MANUFACTURER.
4. ELECTRICAL CONTRACTOR TO VERIFY ALL ELECTRICAL REQUIREMENTS AND INSTALLATION LOCATIONS WITH MECHANICAL CONTRACTOR, OWNER, AND ARCHITECT.
5. PANEL '4M' LOCATED ON 4TH FLOOR. SEE E103 FOR PANEL LOCATION.

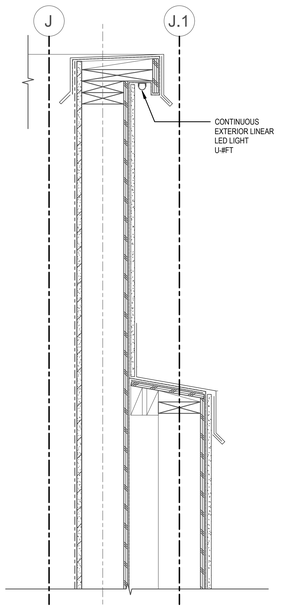
KEYED ROOF POWER PLAN NOTES:

(1) DENOTES JUNCTION BOX INTEGRAL TO SIGN WITH EXTERNAL DISCONNECT SWITCH. ELECTRICAL CONTRACTOR TO COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLING.

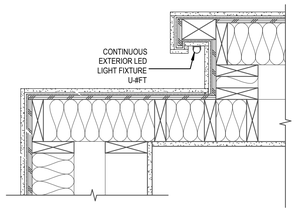
(2) DENOTES BEACON CONTINUOUS LED LIGHTING FIXTURE MOUNTED ON ROOF UNDER ALUMINUM COPING SYSTEM. SEE DETAILS ON LEFT. ELECTRICAL CONTRACTOR TO COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLING.

(3) DENOTES CONTINUOUS LED LIGHTING FIXTURE TO BE RAN FROM ROOF TO GROUND LEVEL. SEE DETAILS AND ELEVATION DETAIL ON LEFT. ELECTRICAL CONTRACTOR TO COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLING.

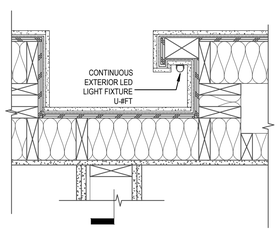
(4) DENOTES POWER SUPPLY FOR EXTERIOR TAPE LIGHT FIXTURE(S). ELECTRICAL CONTRACTOR TO MOUNT POWER SUPPLY IN ACCESSIBLE LOCATION. COORDINATE LOCATION OF POWER SUPPLY PRIOR TO INSTALLING.



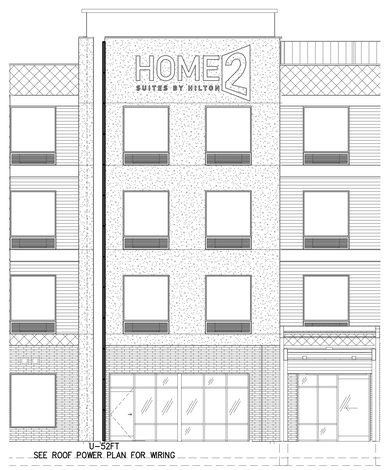
BEACON AT KEEP DETAIL
SCALE: NONE



REVEAL DETAIL - LEVEL 1
SCALE: NONE



REVEAL DETAIL - LEVEL 2-4
SCALE: NONE



EVELATION DETAIL - FRONT
SCALE: 1/8" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER No. 9801 ROBERT P. BUNN
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Sheet Number:
E104

Sheet Title :
ROOF POWER PLAN

MECHANICAL & PLUMBING EQUIPMENT SCHEDULE

EQUIPMENT TAG	EQUIPMENT ITEM	EQUIPMENT VOLTAGE/PHASE	EQUIPMENT HORSEPOWER	EQUIPMENT LOAD	CIRCUIT BREAKER SIZE	FROM PANEL/CIRCUIT	TO EQUIPMENT	DISCONNECT SWITCH SIZE	MOTOR STARTER OR VARIABLE FREQUENCY DRIVE	CONDUIT TYPE/SIZE	WIRE SIZE	WATTAGE PER PHASE	APPLICABLE COMMENTS	EQUIPMENT TAG
MUA-1	OUTDOOR AIR UNIT	208V/3PH		38.419 KW	175A/3P	PANEL MSB (13)	UNIT MAIN LUGS	200A/3P/3R	N/A	1-1/2 INCH	(3) #1/0 AWG [PH] (1) #6 AWG [GND]	12,806W/PHASE	UNIT REQUIRES DUCT SMOKE DETECTOR. SEE FIRE ALARM DRAWINGS.	MUA-1
MUA-2	OUTDOOR AIR UNIT	208V/3PH		32.165 KW	150A/3P	PANEL MSB (14)	UNIT MAIN LUGS	200A/3P/3R	N/A	1-1/4 INCH	(3) #2 AWG [PH] (1) #6 AWG [GND]	10,722W/PHASE	UNIT REQUIRES DUCT SMOKE DETECTOR. SEE FIRE ALARM DRAWINGS.	MUA-2
AHU-1	AIR HANDLER UNIT	208V/1PH		6.656 KW	40A/2P	PANEL 1M (1,3)	UNIT MAIN LUGS	60A/2P	N/A	3/4 INCH	(2) #6 AWG [PH] (1) #10 AWG [GND]	3,328W/PHASE		AHU-1
AHU-2	AIR HANDLER UNIT	208V/3PH		12.97 KW	45A/3P	PANEL 1M (2,4,6)	UNIT MAIN LUGS	60A/3P	N/A	3/4 INCH	(3) #6 AWG [PH] (1) #10 AWG [GND]	4,324W/PHASE	UNIT REQUIRES DUCT SMOKE DETECTOR. SEE FIRE ALARM DRAWINGS.	AHU-2
AHU-3	AIR HANDLER UNIT	208V/3PH		8.646 KW	30A/3P	PANEL 1M (5,7,9)	UNIT MAIN LUGS	30A/3P	N/A	3/4 INCH	(3) #8 AWG [PH] (1) #10 AWG [GND]	2,883W/PHASE		AHU-3
AHU-4	AIR HANDLER UNIT	208V/3PH		8.646 KW	30A/3P	PANEL 1M (8,10,12)	UNIT MAIN LUGS	30A/3P	N/A	3/4 INCH	(3) #8 AWG [PH] (1) #10 AWG [GND]	2,883W/PHASE		AHU-4
AHU-5	AIR HANDLER UNIT	208V/3PH		8.646 KW	30A/3P	PANEL 1M (11,13,15)	UNIT MAIN LUGS	30A/3P	N/A	3/4 INCH	(3) #8 AWG [PH] (1) #10 AWG [GND]	2,883W/PHASE		AHU-5
AHU-6	AIR HANDLER UNIT	208V/1PH				HP-6		30A/2P	N/A	3/4 INCH	(3) #12 AWG [PH] (1) #12 AWG [GND]		UNIT POWERED FROM OUTDOOR UNIT HP-6	AHU-6
AHU-7	AIR HANDLER UNIT	208V/1PH				HP-7		30A/2P	N/A	3/4 INCH	(3) #12 AWG [PH] (1) #12 AWG [GND]		UNIT POWERED FROM OUTDOOR UNIT HP-7	AHU-7
HP-1	HEAT PUMP UNIT	208V/1PH		2.496 KW	25A/2P	PANEL 1M (14,16)	UNIT MAIN LUGS	30A/2P/3R	N/A	3/4 INCH	(2) #10 AWG [PH] (1) #10 AWG [GND]	1,248W/PHASE		HP-1
HP-2	HEAT PUMP UNIT	208V/3PH		6.053 KW	35A/3P	PANEL 1M (17,19,21)	UNIT MAIN LUGS	60A/3P/3R	N/A	3/4 INCH	(3) #8 AWG [PH] (1) #10 AWG [GND]	2,018W/PHASE		HP-2
HP-3	HEAT PUMP UNIT	208V/3PH		3.747 KW	20A/3P	PANEL 1M (18,20,22)	UNIT MAIN LUGS	30A/3P/3R	N/A	3/4 INCH	(3) #12 AWG [PH] (1) #12 AWG [GND]	1,249W/PHASE		HP-3
HP-4	HEAT PUMP UNIT	208V/3PH		3.747 KW	20A/3P	PANEL 1M (23,25,27)	UNIT MAIN LUGS	30A/3P/3R	N/A	3/4 INCH	(3) #12 AWG [PH] (1) #12 AWG [GND]	1,249W/PHASE		HP-4
HP-5	HEAT PUMP UNIT	208V/3PH		3.747 KW	20A/3P	PANEL 1M (24,26,28)	UNIT MAIN LUGS	30A/3P/3R	N/A	3/4 INCH	(3) #12 AWG [PH] (1) #12 AWG [GND]	1,249W/PHASE		HP-5
HP-6	HEAT PUMP UNIT	208V/1PH		1.831 KW	25A/2P	PANEL 1M (29,31)	UNIT MAIN LUGS	30A/2P/3R	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	916W/PHASE		HP-6
HP-7	HEAT PUMP UNIT	208V/1PH		1.831 KW	25A/2P	PANEL 1M (30,32)	UNIT MAIN LUGS	30A/2P/3R	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	916W/PHASE		HP-7
EF-1	EXHAUST FAN	120V/1PH		21 W	20A/1P		UNIT MAIN LUGS	FWE	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	21W/PHASE	EXHAUST FAN TO BE TIED INTO OPERATION OF LIGHTS IN ROOM.	EF-1
EF-2	EXHAUST FAN	120V/1PH		21 W	20A/1P		UNIT MAIN LUGS	FWE	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	21W/PHASE	EXHAUST FAN TO BE TIED INTO OPERATION OF LIGHTS IN ROOM.	EF-2
EF-3	EXHAUST FAN	120V/1PH		21 W	20A/1P		UNIT MAIN LUGS	FWE	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	21W/PHASE	EXHAUST FAN TO BE TIED INTO OPERATION OF LIGHTS IN ROOM.	EF-3
EF-4	EXHAUST FAN	120V/1PH		128 W	20A/1P	PANEL 1M (49)	UNIT MAIN LUGS	30A/1P	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	128W/PHASE	EXHAUST FAN TO BE TIED INTO OPERATION OF AHU-1	EF-4
EF-5	EXHAUST FAN	120V/1PH		73 W	20A/1P	PANEL 1M (51)	UNIT MAIN LUGS	30A/1P	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	73W/PHASE		EF-5
EF-6	EXHAUST FAN	120V/1PH		172 W	20A/1P	PANEL 2M (60)	UNIT MAIN LUGS	30A/1P	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	172W/PHASE		EF-6
EF-7	EXHAUST FAN	120V/1PH		172 W	20A/1P	PANEL 3M (60)	UNIT MAIN LUGS	30A/1P	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	172W/PHASE		EF-7
EF-8	EXHAUST FAN	120V/1PH		172 W	20A/1P	PANEL 4M (60)	UNIT MAIN LUGS	30A/1P	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	172W/PHASE		EF-8
EF-9	EXHAUST FAN	120V/1PH	1/6 HP		20A/1P	B PANEL UPS-1 (1)	UNIT MAIN LUGS	30A/1P/3R	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	506W/PHASE	EXHAUST FAN TO OPERATE CONTINUOUSLY	EF-9
EF-10	EXHAUST FAN	120V/1PH	1/6 HP		20A/1P	PANEL UPS-1 (3)	UNIT MAIN LUGS	30A/1P/3R	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	506W/PHASE	EXHAUST FAN TO OPERATE CONTINUOUSLY	EF-10
EF-11	EXHAUST FAN	120V/1PH	1/6 HP		20A/1P	PANEL UPS-1 (5)	UNIT MAIN LUGS	30A/1P/3R	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	506W/PHASE	EXHAUST FAN TO OPERATE CONTINUOUSLY	EF-11
EF-12	EXHAUST FAN	120V/1PH	1/6 HP		20A/1P	PANEL UPS-1 (2)	UNIT MAIN LUGS	30A/1P/3R	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	506W/PHASE	EXHAUST FAN TO OPERATE CONTINUOUSLY	EF-12
EF-13	EXHAUST FAN	120V/1PH	1/6 HP		20A/1P	PANEL UPS-1 (4)	UNIT MAIN LUGS	30A/1P/3R	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	506W/PHASE	EXHAUST FAN TO OPERATE CONTINUOUSLY	EF-13
EF-14	EXHAUST FAN	120V/1PH	1/6 HP		20A/1P	PANEL UPS-1 (6)	UNIT MAIN LUGS	30A/1P/3R	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	506W/PHASE	EXHAUST FAN TO OPERATE CONTINUOUSLY	EF-14
EF-15	EXHAUST FAN	120V/1PH	1/6 HP		20A/1P	PANEL UPS-1 (8)	UNIT MAIN LUGS	30A/1P/3R	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	506W/PHASE	EXHAUST FAN TO OPERATE CONTINUOUSLY	EF-15
EWH-1	ELECTRIC WALL HEATER	208V/3PH		2.0 KW	15A/3P	PANEL 1M (35,37,39)	UNIT MAIN LUGS	30A/3P	N/A	3/4 INCH	(3) #12 AWG [PH] (1) #12 AWG [GND]	667W/PHASE		EWH-1
EWH-2	ELECTRIC WALL HEATER	208V/3PH		2.0 KW	15A/3P	PANEL 1M (36,38,40)	UNIT MAIN LUGS	30A/3P	N/A	3/4 INCH	(3) #12 AWG [PH] (1) #12 AWG [GND]	667W/PHASE		EWH-2
EWH-3	ELECTRIC WALL HEATER	208V/3PH		2.0 KW	15A/3P	PANEL 1M (43,45,47)	UNIT MAIN LUGS	30A/3P	N/A	3/4 INCH	(3) #12 AWG [PH] (1) #12 AWG [GND]	667W/PHASE		EWH-3
EWH-4	ELECTRIC WALL HEATER	208V/3PH		2.0 KW	15A/3P	PANEL 1M (44,46,48)	UNIT MAIN LUGS	30A/3P	N/A	3/4 INCH	(3) #12 AWG [PH] (1) #12 AWG [GND]	667W/PHASE		EWH-4
EWH-5	ELECTRIC WALL HEATER	208V/3PH		2.0 KW	15A/3P	PANEL 2M (59,61,63)	UNIT MAIN LUGS	30A/3P	N/A	3/4 INCH	(3) #12 AWG [PH] (1) #12 AWG [GND]	667W/PHASE		EWH-5
EWH-6	ELECTRIC WALL HEATER	208V/3PH		2.0 KW	15A/3P	PANEL 3M (59,61,63)	UNIT MAIN LUGS	30A/3P	N/A	3/4 INCH	(3) #12 AWG [PH] (1) #12 AWG [GND]	667W/PHASE		EWH-6
EWH-7	ELECTRIC WALL HEATER	208V/3PH		2.0 KW	15A/3P	PANEL 4M (59,61,63)	UNIT MAIN LUGS	30A/3P	N/A	3/4 INCH	(3) #12 AWG [PH] (1) #12 AWG [GND]	667W/PHASE		EWH-7
EWH-8	ELECTRIC WALL HEATER	208V/3PH		2.0 KW	15A/3P	PANEL PP (10,12,14)	UNIT MAIN LUGS	30A/3P	N/A	3/4 INCH	(3) #12 AWG [PH] (1) #12 AWG [GND]	667W/PHASE		EWH-8
EUH-1	ELECTRIC UNIT HEATER	208V/3PH		3.0 KW	15A/3P	PANEL PP (1,3,5)	UNIT MAIN LUGS	30A/3P	N/A	3/4 INCH	(3) #12 AWG [PH] (1) #12 AWG [GND]	1,000W/PHASE		EUH-1
EUH-2	ELECTRIC UNIT HEATER	208V/3PH		3.0 KW	15A/3P	PANEL PP (2,4,6)	UNIT MAIN LUGS	30A/3P	N/A	3/4 INCH	(3) #12 AWG [PH] (1) #12 AWG [GND]	1,000W/PHASE		EUH-2
WH-1	GAS WATER HEATER	120V/1PH		660 W	15A/1P	PANEL 1M (53)	UNIT MAIN LUGS	30A/1P	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	660W/PHASE		WH-1
WH-2	GAS WATER HEATER	120V/1PH		660 W	15A/1P	PANEL 1M (54)	UNIT MAIN LUGS	30A/1P	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	660W/PHASE		WH-2
WH-3	GAS WATER HEATER	120V/1PH		660 W	15A/1P	PANEL 1M (55)	UNIT MAIN LUGS	30A/1P	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	660W/PHASE		WH-3
WH-4	GAS WATER HEATER	120V/1PH		660 W	15A/1P	PANEL 1M (56)	UNIT MAIN LUGS	30A/1P	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	660W/PHASE		WH-4
WH-5	GAS WATER HEATER	120V/1PH		660 W	15A/1P	PANEL 1M (57)	UNIT MAIN LUGS	30A/1P	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	660W/PHASE		WH-5
WH-6	GAS TANKLESS WATER HEATER	120V/1PH		200 W	15A/1P	PANEL 1M (58)	UNIT MAIN LUGS	30A/1P	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	200W/PHASE		WH-6
WH-7	GAS TANKLESS WATER HEATER	120V/1PH		200 W	15A/1P	PANEL 1M (59)	UNIT MAIN LUGS	30A/1P	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	200W/PHASE		WH-7
CP-1	CIRCULATION PUMP	120V/1PH	1/2 HP	1.176 KW	20A/1P	PANEL 1M (60)	UNIT MAIN LUGS	30A/1P	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	1176W/PHASE		CP-1
CP-2	CIRCULATION PUMP	120V/1PH	1/8 HP	348 W	20A/1P	PANEL 1M (62)	UNIT MAIN LUGS	30A/1P	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	348W/PHASE		CP-2
BP-1	DOMESTIC BOOSTER PUMP	208V/3PH	3 HP	3.96 KW	20A/3P	PANEL 1M (61,63,65)	UNIT MAIN LUGS	30A/3P	N/A	3/4 INCH	(3) #12 AWG [PH] (1) #12 AWG [GND]	1320W/PHASE		BP-1
SP-1	ELEVATOR SUMP PUMP	120V/1PH	1/2 HP	1.176 KW	20A/1P	PANEL 1M (64)	UNIT MAIN LUGS	30A/1P	N/A	3/4 INCH	(2) #12 AWG [PH] (1) #12 AWG [GND]	1176W/PHASE		SP-1

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Project Title :

HOME 2 SUITES GREENWOOD SC

475 HOSPITALITY BLVD,
GREENWOOD, SC 29649

Client Logo:

HOME2 SUITES BY HILTON

Seals :

SOUTH CAROLINA — MATRIX ENGINEERING INC. No. C01034 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 9801 — HARRY P. BUNN — 10-16-2024

Revisions :

	10.16.2024	Issue For Permit
A	03.20.2025	100% Issue For Hilton
B	06.11.2025	Owner revisions/corrections

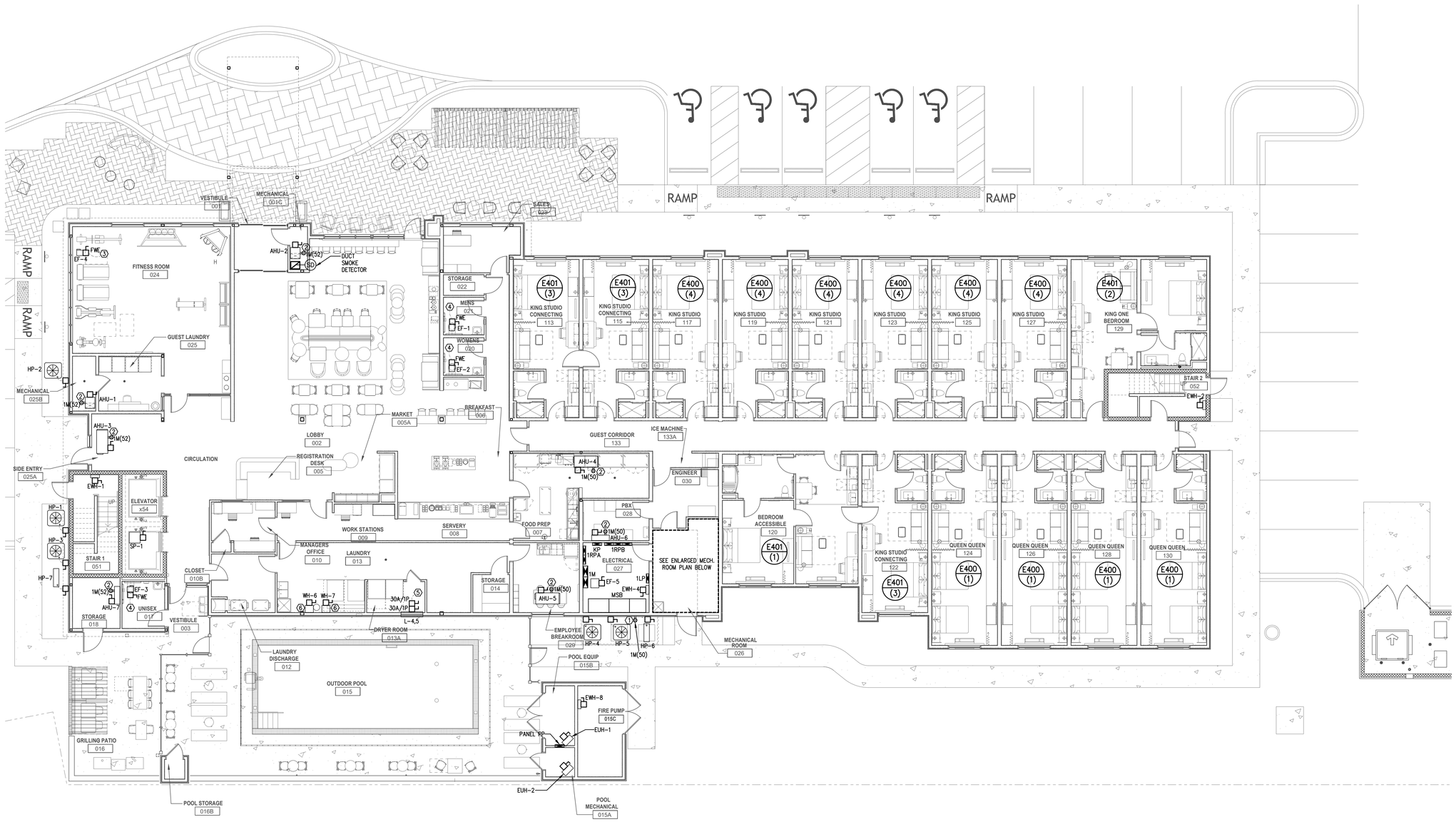
Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

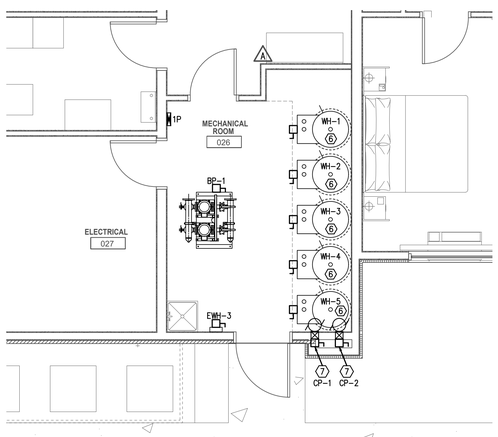
Sheet Number:

E200

Sheet Title :

MECHANICAL
EQUIPMENT SCHEDULE





ENLARGED MECHANICAL ROOM PLAN
SCALE: 1/4" = 1'-0"

GROUND FLOOR MECHANICAL POWER PLAN
SCALE: 1/8" = 1'-0"

GENERAL MECHANICAL POWER PLAN NOTES:

1. PROVIDE UL LISTED FIRESTOP ASSEMBLY FOR ALL DEVICES INSTALLED IN FIREWALLS.
2. COORDINATE ALL ELECTRICAL WORK WITH GENERAL CONTRACTOR AND OTHER TRADES ON SITE BEFORE INSTALLATION.
3. SEE MECHANICAL EQUIPMENT SCHEDULE ON SHEET E-200 AND E-200.1 FOR ELECTRICAL REQUIREMENTS.
4. "FWE" DENOTES FURNISHED WITH EQUIPMENT BY MANUFACTURER.
5. ELECTRICAL CONTRACTOR TO VERIFY ALL ELECTRICAL REQUIREMENTS AND INSTALLATION LOCATIONS WITH MECHANICAL DRAWINGS AND PLUMBING DRAWINGS.
6. ALL DISCONNECT SWITCHES TO BE HEAVY DUTY.

KEYED MECHANICAL POWER PLAN NOTES:

1. DENOTES WEATHER PROOF, WEATHER RESISTANT, GFCI TYPE RECEPTACLE FOR HEAT PUMP MAINTENANCE.
2. DENOTES 120V GFCI DUPLEX RECEPTACLE FOR MAINTENANCE AND CONDENSATE PUMP. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
3. DENOTES EXHAUST FAN TO BE INTERLOCKED WITH OPERATION OF AHU-1. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLING.
4. DENOTES EXHAUST FAN TO BE INTERLOCKED WITH OPERATION OF LIGHTS IN RESTROOM. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLING. SEE SHEET E300 FOR CIRCUIT DESIGNATION.
5. DENOTES 30A/1P DISCONNECT SWITCHES FOR MOTORIZED DAMPERS FOR LOUVERS L-4 AND L-5. DISCONNECT SWITCHES TO BE MOUNTED ADJACENT TO LOUVERS ON WALL. MOTORIZED DAMPERS TO BE INTERLOCKED WITH DRYERS IN DRYER ROOM. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLING.
6. DENOTES TANKLESS WATER HEATER MOUNTED ON WALL. COORDINATE EXACT MOUNTING LOCATION WITH PLUMBING CONTRACTOR PRIOR TO INSTALLING.
7. DENOTES CIRCULATION PUMP MOUNTED ON WALL ADJACENT TO WATER HEATER. ELECTRICAL CONTRACTOR TO VERIFY EXACT LOCATION AND CONTROL OF CIRCULATION PUMP WITH PLUMBING CONTRACTOR. IF NECESSARY, ELECTRICAL CONTRACTOR TO PURCHASE & INSTALL DISCONNECT SWITCH & DEFINITE PURPOSE CONTACTOR FOR CIRCULATION PUMP. COORDINATE COIL VOLTAGE WITH MECHANICAL CONTROLS CONTRACTOR. POWER WIRING BY ELECTRICAL CONTRACTOR. LOW VOLTAGE CONTROL WIRING BY MECHANICAL CONTROLS CONTRACTOR.

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Client Logo:
HOME2 SUITES BY HILTON

Seals :
SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 9801 MICHAEL P. BUNN
10-16-2024
SOUTH CAROLINA MATRIX ENGINEERING INC. No. C01034 CERTIFICATE OF AUTHORIZATION

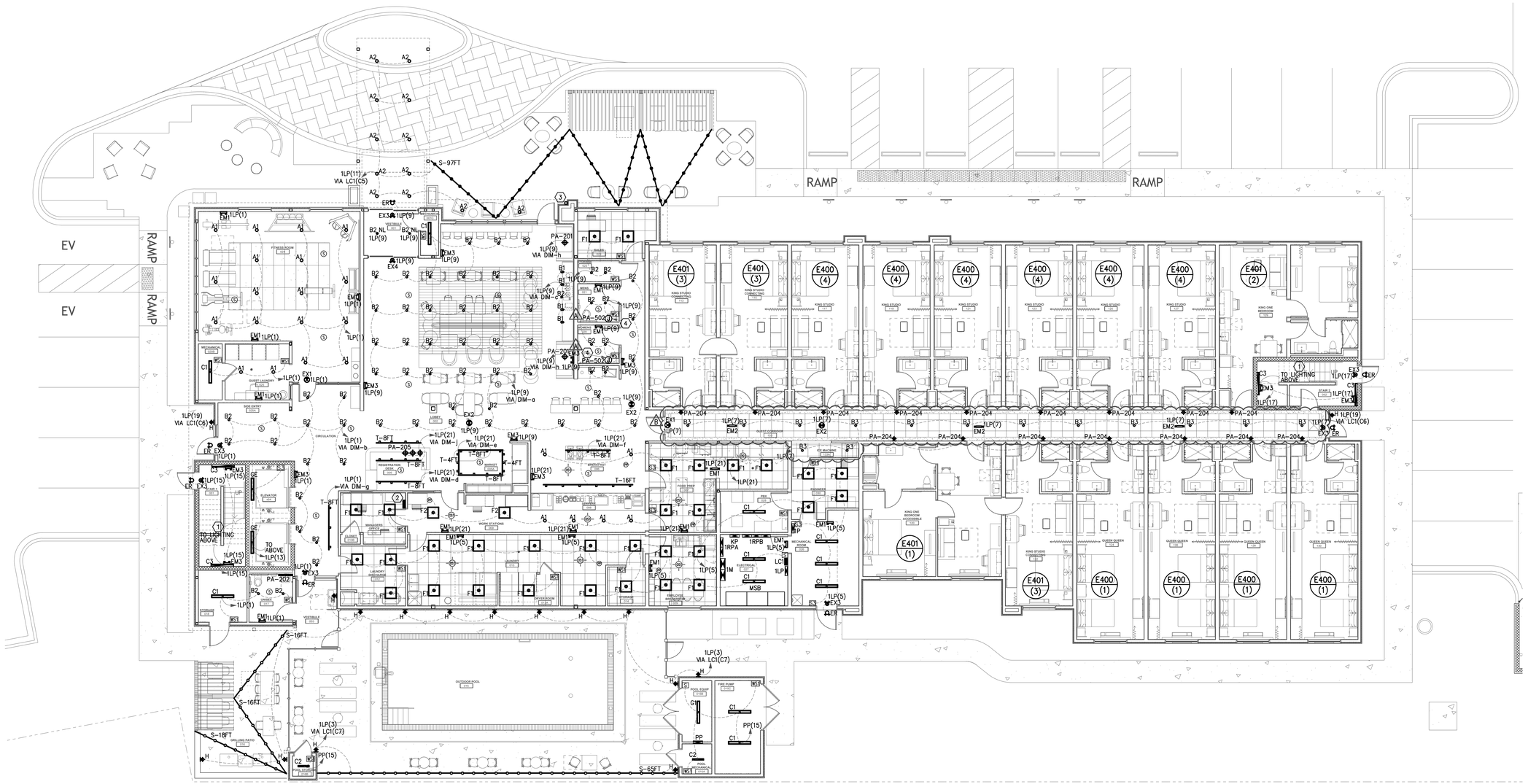
Revisions :

10.16.2024		Issue For Permit
A	03.20.2025	100% Issue For Hilton
B	06.11.2025	Owner revisions/corrections

Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:
E201

Sheet Title :
GROUND FLOOR
MECHANICAL POWER PLAN

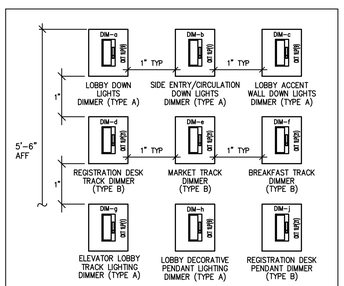


GROUND FLOOR LIGHTING PLAN

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

LIGHTING CONTROL LEGEND

- (OS1) CEILING MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR HUBBELL CONTROL SOLUTIONS CATALOG #OMNIDT2000
- (PP) POWER PACK HUBBELL CONTROL SOLUTIONS CATALOG #UVPP
- [S] LOCAL TOGGLE SWITCH, S.P.S.T., 20 AMP, SPEC GRADE.
- [S3] LOCAL TOGGLE SWITCH, 3-WAY 20 AMP, SPEC GRADE.
- [WS1] WALL MOUNTED OCCUPANCY SENSOR HUBBELL CONTROL SOLUTIONS CATALOG #LHMTS1-G-FINISH
- (S) CEILING MOUNTED SPEAKER RECESSED MOUNTED PROVIDE JUNCTION BOX AND 1"C TO PBX ROOM



DIMMERS SHALL BE:
TYPE A: LEGRAND #RH4FBL3PW
TYPE B: LUTRON #DVCL-153P-FINISH
DIMMERS SHALL HAVE A FULL RANGE SLIDE CONTROL
COORDINATE WITH OWNER FOR COLOR OF DEVICES AND COVERPLATES
DO NOT GANG DIMMERS.
DO NOT SHARE NEUTRALS OF DIMMED CIRCUITS.

OCCUPANCY SENSOR NOTES

1. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
2. ULTRASONIC CEILING MOUNTED SENSORS REQUIRE THAT THEY BE NO CLOSER THAN 6 FEET TO AIR SUPPLY/RETURN REGISTERS.
3. ONE POWER PACK IS REQUIRED FOR EACH CIRCUIT CONTROLLED.

GENERAL GROUND LIGHTING PLAN NOTES:

1. ALL LIGHT FIXTURES SHALL MEET SEISMIC REQUIREMENTS OF ASCE 7.
2. ALL LAY-IN FIXTURES SHALL HAVE 12 GAUGE WIRE HANGERS PLACED ON DIAGONAL CORNERS ATTACHED DIRECTLY TO BUILDING STRUCTURE. ANY RECESSED LIGHT FIXTURES WEIGHING MORE THAN 50 LBS SHALL BE SUPPORTED FROM ALL FOUR CORNERS.
3. ELECTRICAL CONTRACTOR SHALL WIRE ALL EMERGENCY EGRESS FIXTURES AND EXIT SIGNS UN-SWITCHED TO LIGHTING CIRCUIT IN ROOM WHERE EGRESS FIXTURES ARE MOUNTED.
4. FIXTURES WITH THE SUFFIX "E" AND A DIAGONAL LINE THROUGH THEM DENOTES EMERGENCY BATTERY BALLAST PROVIDED WITH FIXTURE. ELECTRICAL CONTRACTOR TO PROVIDE UNSWITCHED LEG OF CIRCUIT TO FIXTURE FOR BATTERY CHARGING.
5. IN ROOMS THAT HAVE BOTH OCCUPANCY SENSOR AND SWITCH/SWITCHES, WIRE OCCUPANCY SENSOR AHEAD OF AND IN SERIES WITH SWITCH/SWITCHES.
6. MOUNT POWER PACKS ABOVE CEILING IN ACCESSIBLE LOCATION.
7. SEE LIGHTING CONTACTOR 'LC1' DETAIL ON SHEET E006.

KEYED GROUND LIGHTING PLAN NOTES:

1. ELECTRICAL CONTRACTOR TO WIRE FIXTURES ON CIRCUIT AS NIGHT LIGHTS. WIRE FIXTURES UN-SWITCHED AND "HOT".
2. DENOTES APPROXIMATE LOCATION OF SWITCHBANK. ELECTRICAL CONTRACTOR TO COORDINATE EXACT MOUNTING LOCATION WITH OWNER/ARCHITECT PRIOR TO INSTALLATION. SEE SWITCHBANK DETAIL ON THIS SHEET FOR ADDITIONAL INFORMATION.
3. DENOTES LED TAPE FIXTURE MOUNTED VERTICALLY ON EXTERIOR BUILDING FACE. SEE SHEET E104 FOR WIRING AND DETAILS.
4. DENOTES JUNCTION BOX FOR VANITY MIRROR PA-502 TO BE CONTROLLED BY LIGHTING SWITCH IN RESTROOM. ELECTRICAL CONTRACTOR TO COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT CUTSHEET PRIOR TO INSTALLATION. ALL WIRES TO BE FULLY CONCEALED, NO WIRES ARE TO BE EXPOSED UNDER ANY CIRCUMSTANCE. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ANY ROUGH-IN WORK.

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Client Logo:
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Seals :
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION MATRIX ENGINEERING INC. No. C01034
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 9801 HAYDEN P. BUHAN
10-16-2024

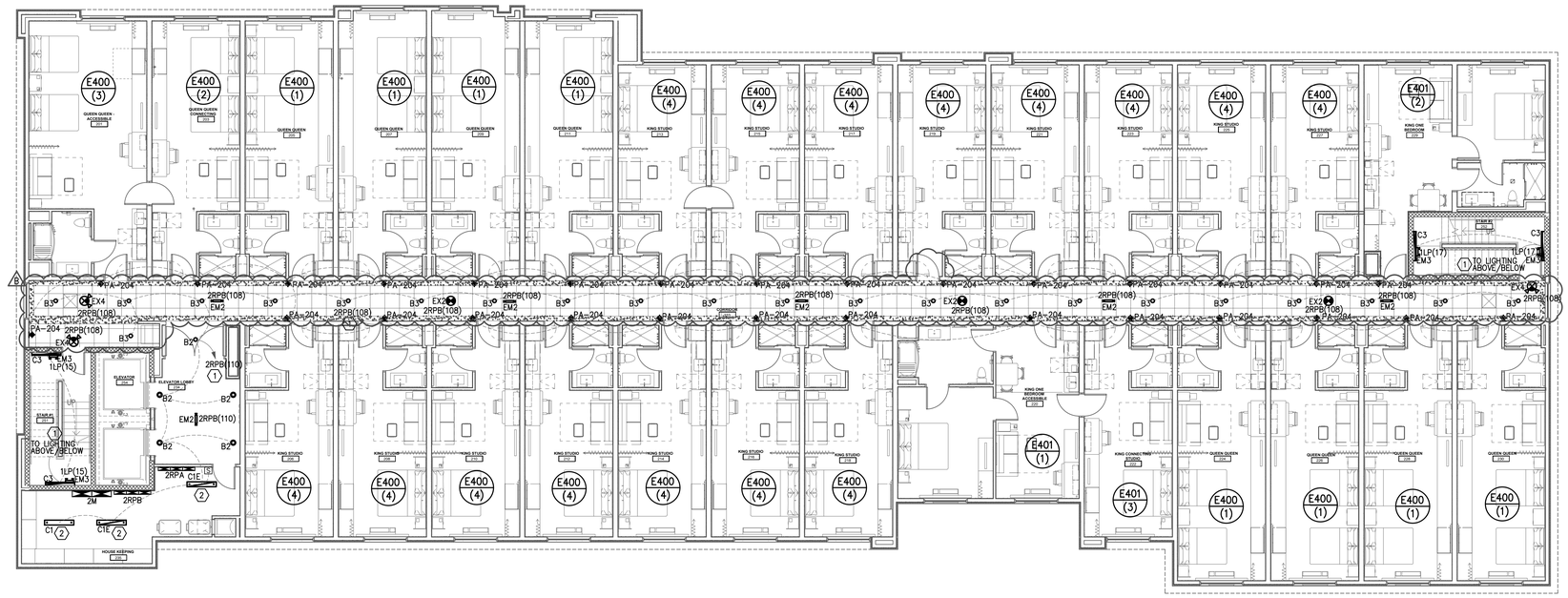
Revisions :

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B	06.11.2025	Owner revisions/corrections

Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:
E300

Sheet Title :
GROUND FLOOR LIGHTING PLAN



SECOND FLOOR LIGHTING PLAN

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

GENERAL SECOND FLOOR LIGHTING PLAN NOTES:

1. ALL LIGHT FIXTURES SHALL MEET SEISMIC REQUIREMENTS OF ASCE 7.
2. ALL LAY-IN FIXTURES SHALL HAVE 12 GAUGE WIRE HANGERS PLACED ON DIAGONAL CORNERS ATTACHED DIRECTLY TO BUILDING STRUCTURE. ANY RECESSED LIGHT FIXTURES WEIGHING MORE THAN 50 LBS SHALL BE SUPPORTED FROM ALL FOUR CORNERS.
3. ELECTRICAL CONTRACTOR SHALL WIRE ALL EMERGENCY EGRESS FIXTURES AND EXIT SIGNS UN-SWITCHED TO LIGHTING CIRCUIT IN ROOM WHERE EGRESS FIXTURES ARE MOUNTED.
4. FIXTURES WITH THE SUFFIX "E" AND A DIAGONAL LINE THROUGH THEM DENOTES EMERGENCY BATTERY BALLAST PROVIDED WITH FIXTURE. ELECTRICAL CONTRACTOR TO PROVIDE UNSWITCHED LEG OF CIRCUIT TO FIXTURE FOR BATTERY CHARGING.

KEYED SECOND FLOOR LIGHTING PLAN NOTES:

(1) ELECTRICAL CONTRACTOR TO WIRE FIXTURES ON CIRCUIT AS NIGHT LIGHTS. WIRE FIXTURES UN-SWITCHED AND "HOT".

(2) ELECTRICAL CONTRACTOR TO WIRE FIXTURE TO LOCAL TOGGLE SWITCH AS INDICATED.

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GREENWOOD, SC 29649

Client Logo:

HOME2 SUITES BY HILTON

Seals :

SOUTH CAROLINA — MATRIX ENGINEERING INC. No. C01034 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 9801 — ROBERT P. BUNN — 10-16-2024

Revisions :

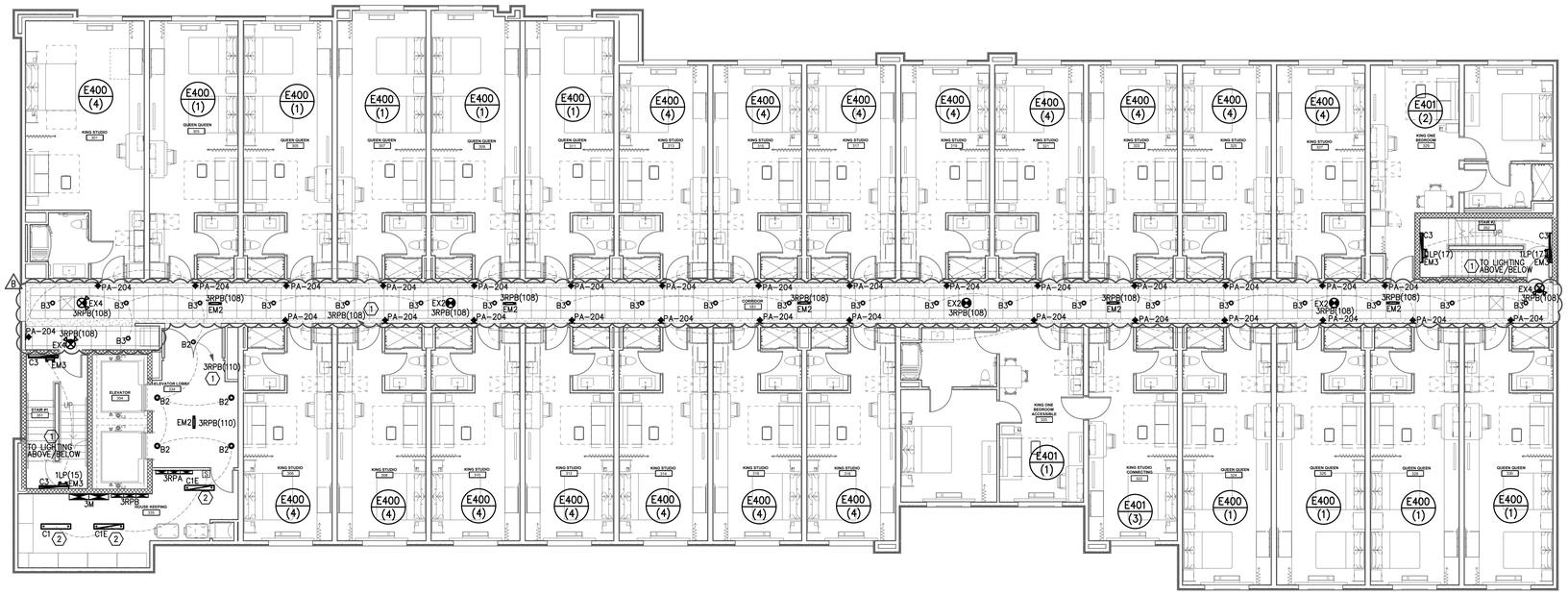
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Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:

E301

Sheet Title :
SECOND FLOOR LIGHTING PLAN



THIRD FLOOR LIGHTING PLAN

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

GENERAL SECOND FLOOR LIGHTING PLAN NOTES:

1. ALL LIGHT FIXTURES SHALL MEET SEISMIC REQUIREMENTS OF ASCE 7.
2. ALL LAY-IN FIXTURES SHALL HAVE 12 GAUGE WIRE HANGERS PLACED ON DIAGONAL CORNERS ATTACHED DIRECTLY TO BUILDING STRUCTURE. ANY RECESSED LIGHT FIXTURES WEIGHING MORE THAN 50 LBS SHALL BE SUPPORTED FROM ALL FOUR CORNERS.
3. ELECTRICAL CONTRACTOR SHALL WIRE ALL EMERGENCY EGRESS FIXTURES AND EXIT SIGNS UN-SWITCHED TO LIGHTING CIRCUIT IN ROOM WHERE EGRESS FIXTURES ARE MOUNTED.
4. FIXTURES WITH THE SUFFIX "E" AND A DIAGONAL LINE THROUGH THEM DENOTES EMERGENCY BATTERY BALLAST PROVIDED WITH FIXTURE. ELECTRICAL CONTRACTOR TO PROVIDE UNSWITCHED LEG OF CIRCUIT TO FIXTURE FOR BATTERY CHARGING.

KEYED SECOND FLOOR LIGHTING PLAN NOTES:

(1) ELECTRICAL CONTRACTOR TO WIRE FIXTURES ON CIRCUIT AS NIGHT LIGHTS. WIRE FIXTURES UN-SWITCHED AND "HOT".

(2) ELECTRICAL CONTRACTOR TO WIRE FIXTURE TO LOCAL TOGGLE SWITCH AS INDICATED.

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PROJECT NUMBER: 2024-091

Project Title :
HOME 2 SUITES
GREENWOOD SC
475 HOSPITALITY BLVD,
GREENWOOD, SC 29649

Client Logo:
HOME2 SUITES BY HILTON

Seals :
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION MATRIX ENGINEERING INC. No. C01034
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 9801 KEITH P. GUNN
10-16-2024

Revisions :

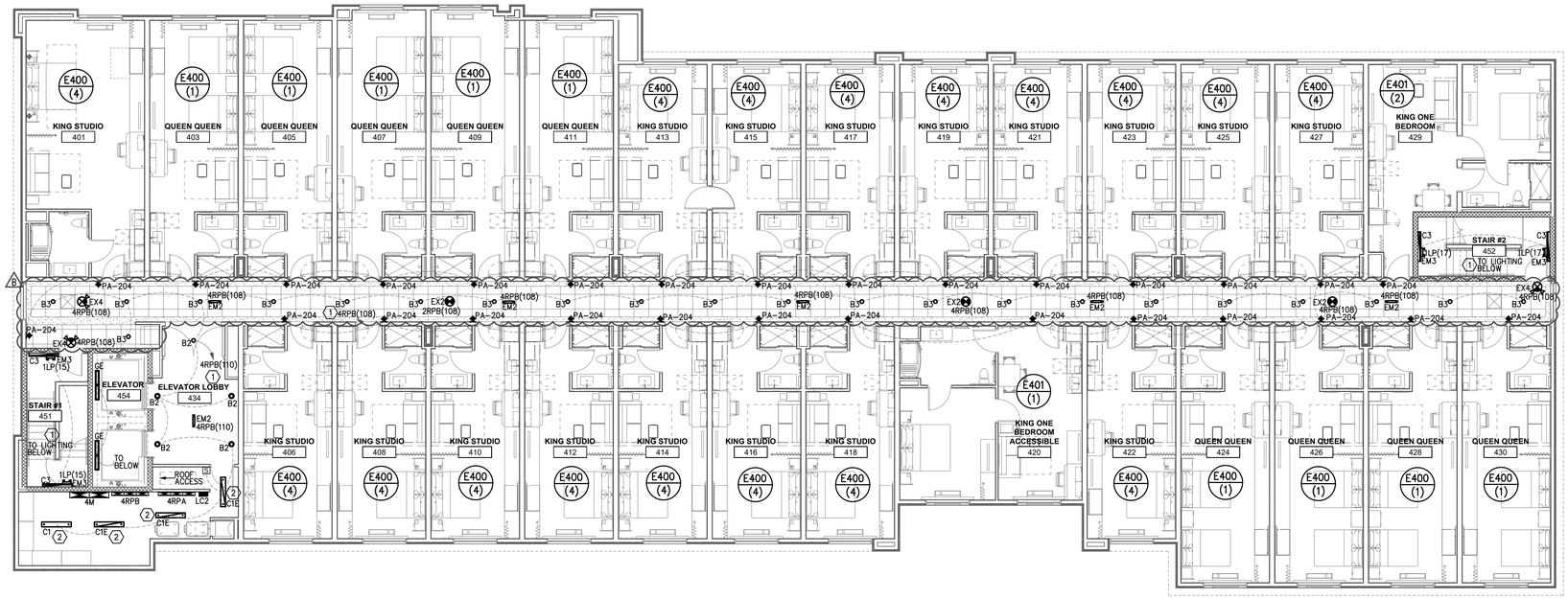
	10.16.2024	Issue For Permit
A	03.20.2025	100% Issue For Hilton
B	06.11.2025	Owner revisions/corrections

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Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:
E302

Sheet Title :
THIRD FLOOR
LIGHTING PLAN



FOURTH FLOOR LIGHTING PLAN

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

GENERAL SECOND FLOOR LIGHTING PLAN NOTES:

1. ALL LIGHT FIXTURES SHALL MEET SEISMIC REQUIREMENTS OF ASCE 7.
2. ALL LAY-IN FIXTURES SHALL HAVE 12 GAUGE WIRE HANGERS PLACED ON DIAGONAL CORNERS ATTACHED DIRECTLY TO BUILDING STRUCTURE. ANY RECESSED LIGHT FIXTURES WEIGHING MORE THAN 50 LBS SHALL BE SUPPORTED FROM ALL FOUR CORNERS.
3. ELECTRICAL CONTRACTOR SHALL WIRE ALL EMERGENCY EGRESS FIXTURES AND EXIT SIGNS UN-SWITCHED TO LIGHTING CIRCUIT IN ROOM WHERE EGRESS FIXTURES ARE MOUNTED.
4. FIXTURES WITH THE SUFFIX "E" AND A DIAGONAL LINE THROUGH THEM DENOTES EMERGENCY BATTERY BALLAST PROVIDED WITH FIXTURE. ELECTRICAL CONTRACTOR TO PROVIDE UNSWITCHED LEG OF CIRCUIT TO FIXTURE FOR BATTERY CHARGING.

KEYED SECOND FLOOR LIGHTING PLAN NOTES:

(1) ELECTRICAL CONTRACTOR TO WIRE FIXTURES ON CIRCUIT AS NIGHT LIGHTS. WIRE FIXTURES UN-SWITCHED AND "HOT".

(2) ELECTRICAL CONTRACTOR TO WIRE FIXTURE TO LOCAL TOGGLE SWITCH AS INDICATED.

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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 9801 MICHAEL P. BUNN 10-16-2024

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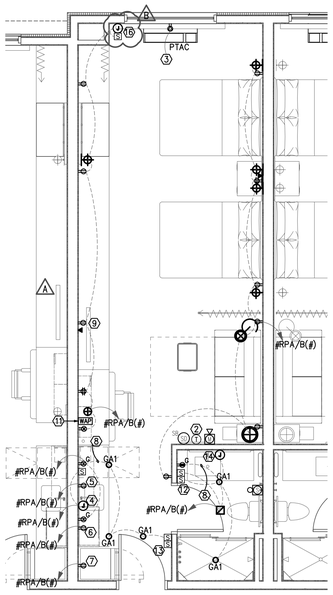
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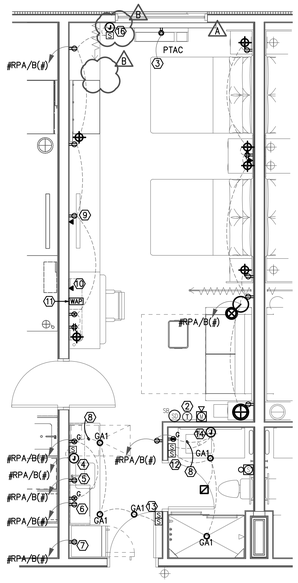
Sheet Number:

E303

Sheet Title :
FOURTH FLOOR
LIGHTING PLAN



1 QUEEN STUDIO SUITE ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



2 QUEEN STUDIO CONNECTOR ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

GENERAL ENLARGED GUEST ROOM NOTES:

1. EXTEND J-BOX, DEVICE & COVER PLATE FLUSH WITH MILLWORK BACK PANEL.
2. PROVIDE (1) CAT6-RJ45 CABLE IN EVERY GUESTROOM ON THE WALL BELOW THE DESK/WORK AREA TERMINATED ON AN 8-PIN RJ45 FEMALE JACK FOR WIRELESS ACCESS POINT INFRASTRUCTURE (LINE POWERED WAP).
3. WHEN A WIRED DATA CONNECTION FOR GUEST IS ALSO PROVIDED, ANOTHER CAT6-RJ45 CABLE TERMINATED ON AN 8-PIN RJ45 FEMALE JACK MUST BE PROVIDED ON THE WALL BELOW THE DESK/WORK AREA. MAINTAIN 6" CLEARANCE FROM ALL OTHER OUTLETS AND DEVICES. A PATCH CORD SHOULD BE PROVIDED AT THE DESKTOP WITH GROMMET FOR GUEST CONVENIENCE.
4. "#RPA" DENOTES GUEST ROOM LIGHTING/RECEPTACLE CIRCUIT TO BE WIRED TO PANEL "RPA" LOCATED ON THE SAME FLOOR AS THE GUESTROOM (ex. PANEL "3RPA" ON FLOOR 3). SEE POWER PLAN ON EACH FLOOR FOR CIRCUIT DESIGNATIONS.
5. "#RPB" DENOTES GUEST ROOM LIGHTING/RECEPTACLE CIRCUIT TO BE WIRED TO PANEL "RPB" LOCATED ON THE SAME FLOOR AS THE GUESTROOM (ex. PANEL "3RPB" ON FLOOR 3). SEE POWER PLAN ON EACH FLOOR FOR CIRCUIT DESIGNATIONS.
6. ALL GUEST ROOMS REQUIRE MULTI-TONE SPEAKER WITH 520HZ LOW FREQUENCY OUTPUT IN LIVING AND SLEEPING SPACES.
7. SMOKE DETECTORS ARE REQUIRED IN LIVING AND SLEEPING SPACES.
8. GUESTROOM SMOKE DETECTORS MUST BE PHOTOELECTRIC SMOKE DETECTORS WITH SOUNDER BASES AND BOTH POWERED AND MONITORED BY THE FIRE ALARM CONTROL PANEL (FACP). SOUNDER BASES SHALL PROVIDE A MINIMUM AUDIBLE ALARM OF 85 dBA AT 10', AND A MINIMUM OF 75dBA AT THE PILLOW.
9. ACTIVATION OF GUESTROOM SMOKE DETECTORS SHALL IMMEDIATELY AND AUTOMATICALLY ACTIVATE AN ALARM IN THE DETECTOR SOUNDER BASE AND SEND A SUPERVISORY SIGNAL TO THE FACP. MULTIPLE DETECTORS IN A SINGLE UNIT SHALL BE INTERCONNECTED. INCLUDE IN SEQUENCE OF OPERATIONS AND ENSURE CORRECT ANNUNCIATION.
10. ALL HEARING IMPAIRED ACCESSIBLE DESIGNATED ROOMS SHALL BE PROVIDED WITH AUDIBLE AND VISUAL ALARM STROBES IN THE SLEEPING AREAS AND BATHROOMS. CANDELA RATINGS AND MOUNTING HEIGHTS MUST MEET NFPA 72, 2018.
11. VISUAL STROBE REQUIRED IN RESTROOM FOR HEARING IMPAIRED GUESTROOMS ONLY. SEE LEGEND BELOW FOR GUEST ROOMS REQUIRING VISUAL STROBE IN RESTROOM.
12. SPEAKER STROBE WITH LOW FREQUENCY 520HZ OUTPUT REQUIRED IN LIVING AND SLEEPING SPACES FOR HEARING IMPAIRED GUEST ROOMS ONLY. FOR NON-HEARING IMPAIRED GUEST ROOMS, LIVING AND SLEEPING SPACES REQUIRE SPEAKER ONLY WITH 520HZ LOW FREQUENCY OUTPUT. SEE LEGEND BELOW FOR GUEST ROOMS REQUIRING SPEAKER STROBE.
13. RECEPTACLES WHICH ARE BACK-TO-BACK ON A COMMON WALL SHALL BE OFFSET 6" MINIMUM TO AVOID SOUND TRANSMISSION.

KEYED ENLARGED GUEST ROOM NOTES:

(1) DENOTES CONNECTION TO BLACKOUT SHEER ROLLER SHADE. ELECTRICAL CONTRACTOR TO COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT CUTSHEET PRIOR TO INSTALLATION. ALL WIRES TO BE FULLY CONCEALED, NO WIRES ARE TO BE EXPOSED UNDER ANY CIRCUMSTANCE. PROVIDE SWITCH FOR CONTROL OF MECHANICAL SHADES AS INDICATED. REFER TO FE MANUAL PRIOR TO INSTALLING.

(2) WIRED THERMOSTAT FOR PTAC. MOUNTED 48" MAX TO TOP OF DEVICE. COMMUNCATION BETWEEN THERMOSTAT AND PTAC MAY BE WIRELESS.

(3) DENOTES NEMA 6-20R RECEPTACLE AND HOMERUN FOR PTAC UNIT TO BE WIRED TO 208/120V PANEL ON SAME FLOOR. SEE PANEL SCHEDULES ON SHEETS E003.1 THROUGH E003.4 FOR CIRCUIT DESIGNATIONS.

(4) DEDICATED JUNCTION BOX FOR GARBAGE DISPOSAL CONTROLLED BY WALL SWITCH. WALL SWITCH TO BE GANGED WITH DUPLEX COUNTERTOP RECEPTACLE.

(5) DENOTES APPROXIMATE LOCATION OF DEDICATED RECEPTACLE FOR UNDERCOUNTER DISHWASHER. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ANY ROUGH-IN WORK.

(6) DENOTES APPROXIMATE LOCATION OF DEDICATED RECEPTACLE MOUNTED HORIZONTALLY FOR MICROWAVE. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ANY ROUGH-IN WORK.

(7) DENOTES APPROXIMATE LOCATION OF DEDICATED RECEPTACLE FOR REFRIGERATOR. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ANY ROUGH-IN WORK.

(8) ALL RECEPTACLES FROM THIS POINT SHALL BE CONNECTED TO UNSWITCHED BRANCH CIRCUIT.

(9) DENOTES TV CONNECTIONS FOR FREE-TO-GUEST CONTENT:
A) NO SMART TV: COAX CABLE BEHIND TV. CAT6 RJ-45 JACK BEHIND TV, RUN IN SMURF TUBE IN WALL TO WAP UNDER DESK. PATCH CORD TO EDGE CONTROLLER FOR CONNECTED ROOM. MIN. 6" CLEARANCE FROM WALL BOXES
– OR –
B) SMART TV-INTERNET PROTOCOL TELEVISION (IPTV); COAX NOT REQUIRED. CAT6 RJ-45 JACK BEHIND TV RUN IN SMURF TUBE IN WALL TO WAP UNDER DESK. PATCH CORD TO EDGE CONTROLLER FOR CONNECTED ROOM. CAT6 RJ-45 JACK BEHIND TV IN ONE-BEDROOM TV. MIN. 6" CLEARANCE FROM WALL BOXES. VISIT HILTONHDTV.COM FOR ADDITIONAL INFORMATION.

(10) DENOTES OPTIONAL WIRED DATA CONNECTION FOR GUEST USE:
A) ADD CAT6 RJ-45 CABLE JACK AND PATCH CORD THROUGH DESKTOP GROMMET
– OR –
B) PATCH CORD FROM WAP PORT THROUGH DESKTOP GROMMET.
EACH CABLE MUST HOMERUN BETWEEN THE GUESTROOM AND THE IDF ON EACH FLOOR. VISIT CONNECTEDROOM.HILTON.COM FOR CURRENT REQUIREMENTS AND OPTIONS.

(11) DENOTES WIRELESS ACCESS POINT IN 3-GANG BOX MOUNTED VERTICALLY UNDER DESK. MAINTAIN 6" BETWEEN ALL BOXES, TYP. ALL GUESTROOMS. COORDINATE WAP LOCATION WITH ARCHITECT, MILLWORK, AND CASEGOODS TO AVOID CONFLICTS. VISIT CONNECTEDROOM.HILTON.COM FOR CURRENT WIRELESS INTERNET REQUIREMENTS AND LIST OF APPROVED INTEGRATORS.

(12) IN BATHROOM LOCATIONS ONLY, LIGHT SWITCH EQUIPPED WITH "LITE-A-SWITCH" LED BACKLIT FACEPLATE, UNIVERSAL SERIES CLEAR SWITCH WITH PLATE – MAINTAIN 2" DISTANCE FROM ALL OTHER DEVICES. MOUNTED SO TOP OF SWITCH IS 48" MAX A.F.F.

(13) DENOTES AUDIO-VISUAL DOOR ALERT AND DOORBELL ON/OFF SWITCH REQUIRED FOR HEARING IMPAIRED GUESTROOMS ONLY. PROVIDE HOTEL ROOM ANNUNCIATOR KIT EDWARDS CFA SERIES 7005-G5 OR EQUAL AND ON/OFF SWITCH. ANNUNCIATOR KIT TO INCLUDE TRANSFORMER, STROBE AND PUSHBUTTON. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL REQUIRED COMPONENTS. INSTALL TRANSFORMER IN ACCESSIBLE LOCATION ABOVE CEILING IN CORRIDOR. INSTALL PERMANENT LABEL ABOVE SWITCH THAT STATES, "TURN SWITCH ON TO ENABLE HEARING IMAPIRED NOTIFICATION DEVICE." SEE LEGEND ON LEFT FOR HEARING IMPAIRED GUEST ROOMS.

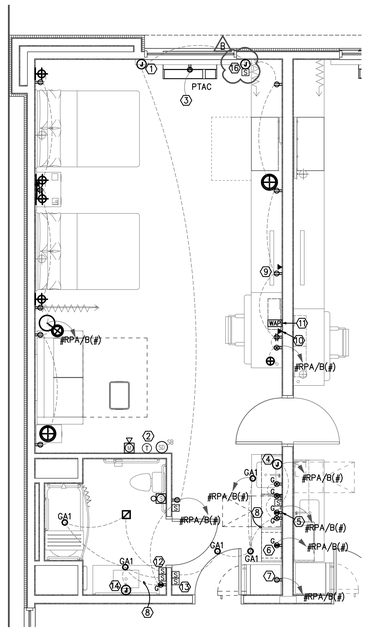
(14) DENOTES JUNCTION BOX FOR VANITY MIRROR GR-501 TO BE CONTROLLED BY LIGHTING SWITCH IN RESTROOM. ELECTRICAL CONTRACTOR TO COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT CUTSHEET PRIOR TO INSTALLATION. ALL WIRES TO BE FULLY CONCEALED, NO WIRES ARE TO BE EXPOSED UNDER ANY CIRCUMSTANCE. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ANY ROUGH-IN WORK.

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(15) DELETED

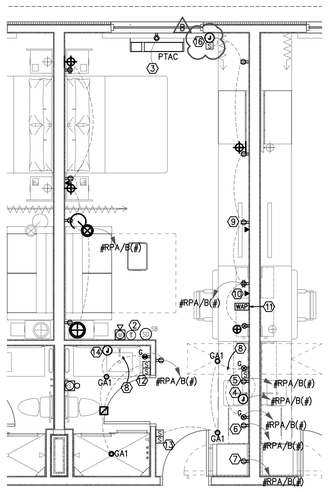
(16) DENOTES APPROXIMATE LOCATION OF IN-WALL JUNCTION BOX MOUNTED 5'-6"AFF FOR WALL MOUNTED LIGHT FIXTURE. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL (1) WALL MOUNTED TOGGLE SWITCH FOR CONTROL OF FIXTURE. MOUNT SWITCH BELOW AT 3'-6" AFF. ALL WIRES TO BE FULLY CONCEALED, NO WIRES ARE TO BE EXPOSED UNDER ANY CIRCUMSTANCE.

HEARING ACCESSIBLE ROOMS

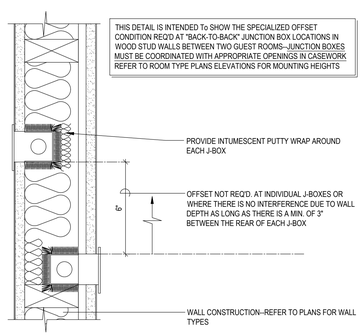
SHEET	GUEST ROOMS
E500	115, 120, 129
E501	203, 207, 222
E502	319, 322
E503	419



3 QUEEN STUDIO ACCESSIBLE ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



4 KING STUDIO SUITE ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



JUNCTION BOX OFFSET DETAIL
SCALE: NONE

FIRE ALARM LEGEND	
S/SB	SOUNDER BASE SMOKE DETECTOR (LOW FREQUENCY)
	SPEAKER/STROBE WITH 520HZ (LOW FREQUENCY)
	SPEAKER WITH 520HZ (LOW FREQUENCY)

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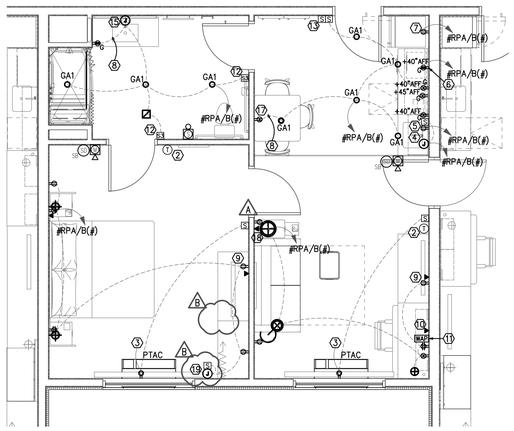
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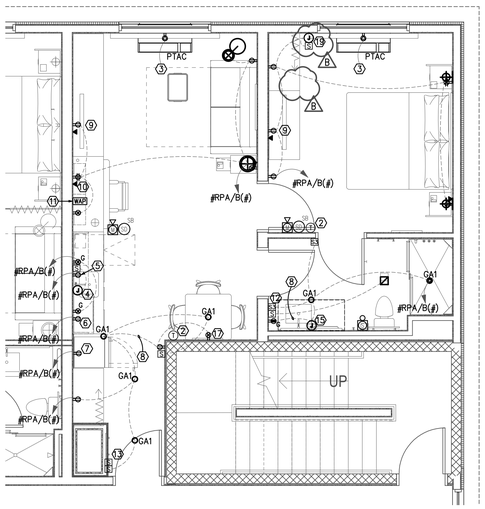
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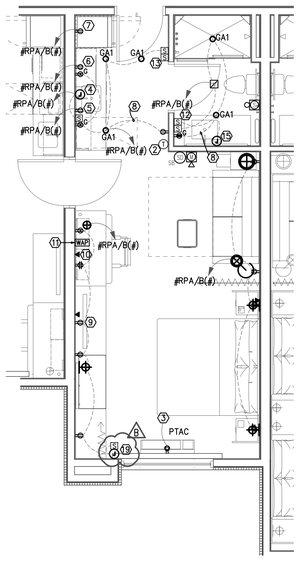
Sheet Title :
ENLARGED GUEST ROOMS PLANS



1 KING 1 BEDROOM ACCESSIBLE ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



2 KING 1 BEDROOM SUITE ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



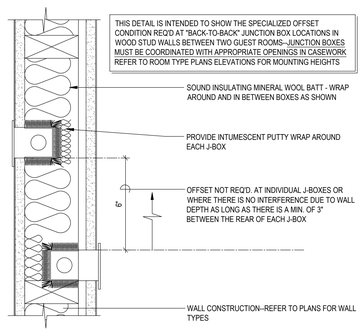
3 KING STUDIO CONNECTOR ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

GENERAL ENLARGED GUEST ROOM NOTES:

1. EXTEND J-BOX, DEVICE & COVER PLATE FLUSH WITH MILLWORK BACK PANEL.
2. PROVIDE (1) CAT6-RJ45 CABLE IN EVERY GUESTROOM ON THE WALL BELOW THE DESK/WORK AREA TERMINATED ON AN 8-PIN RJ45 FEMALE JACK FOR WIRELESS ACCESS POINT INFRASTRUCTURE (LINE POWERED WAP).
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6. ALL GUEST ROOMS REQUIRE MULTI-TONE SPEAKER WITH 520HZ LOW FREQUENCY OUTPUT IN LIVING AND SLEEPING SPACES.
7. SMOKE DETECTORS ARE REQUIRED IN LIVING AND SLEEPING SPACES.
8. GUESTROOM SMOKE DETECTORS MUST BE PHOTOELECTRIC SMOKE DETECTORS WITH SOUNDER BASES AND BOTH POWERED AND MONITORED BY THE FIRE ALARM CONTROL PANEL (FACP). SOUNDER BASES SHALL PROVIDE A MINIMUM AUDIBLE ALARM OF 85 dBA AT 10', AND A MINIMUM OF 75dBA AT THE PILLOW.
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11. VISUAL STROBE REQUIRED IN RESTROOM FOR HEARING IMPAIRED GUESTROOMS ONLY. SEE LEGEND BELOW FOR GUEST ROOMS REQUIRING VISUAL STROBE IN RESTROOM.
12. SPEAKER STROBE WITH LOW FREQUENCY 520HZ OUTPUT REQUIRED IN LIVING AND SLEEPING SPACES FOR HEARING IMPAIRED GUEST ROOMS ONLY. FOR NON-HEARING IMPAIRED GUEST ROOMS, LIVING AND SLEEPING SPACES REQUIRE SPEAKER ONLY WITH 520HZ LOW FREQUENCY OUTPUT. SEE LEGEND BELOW FOR GUEST ROOMS REQUIRING SPEAKER STROBE.
13. RECEPTACLES WHICH ARE BACK-TO-BACK ON A COMMON WALL SHALL BE OFFSET 6" MINIMUM TO AVOID SOUND TRANSMISSION.

HEARING ACCESSIBLE ROOMS

SHEET	GUEST ROOMS
E500	115, 120, 129
E501	203, 207, 222
E502	319, 322
E503	419



JUNCTION BOX OFFSET DETAIL
SCALE: NONE

KEYED ENLARGED GUEST ROOM NOTES:

1. DENOTES CONNECTION TO BLACKOUT SHEER ROLLER SHADE. ELECTRICAL CONTRACTOR TO COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT CUTSHEET PRIOR TO INSTALLATION. ALL WIRES TO BE FULLY CONCEALED, NO WIRES ARE TO BE EXPOSED UNDER ANY CIRCUMSTANCE. PROVIDE SWITCH FOR CONTROL OF MECHANICAL SHADES AS INDICATED. REFER TO FE MANUAL PRIOR TO INSTALLING.
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4. DEDICATED JUNCTION BOX FOR GARBAGE DISPOSAL CONTROLLED BY WALL SWITCH. WALL SWITCH TO BE GANGED WITH DUPLEX COUNTERTOP RECEPTACLE.
5. DENOTES APPROXIMATE LOCATION OF DEDICATED RECEPTACLE FOR UNDERCOUNTER DISHWASHER. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ANY ROUGH-IN WORK.
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8. ALL RECEPTACLES FROM THIS POINT SHALL BE CONNECTED TO UNSWITCHED BRANCH CIRCUIT.
9. DENOTES TV CONNECTIONS FOR FREE-TO-GUEST CONTENT:
   A) NO SMART TV: COAX CABLE BEHIND TV. CAT6 RJ-45 JACK BEHIND TV, RUN IN SMURF TUBE IN WALL TO WAP UNDER DESK. PATCH CORD TO EDGE CONTROLLER FOR CONNECTED ROOM. MIN. 6" CLEARANCE FROM WALL BOXES
   - OR -
   B) SMART TV-INTERNET PROTOCOL TELEVISION (IPTV); COAX NOT REQUIRED. CAT6 RJ-45 JACK BEHIND TV RUN IN SMURF TUBE IN WALL TO WAP UNDER DESK. PATCH CORD TO EDGE CONTROLLER FOR CONNECTED ROOM. CAT6 RJ-45 JACK BEHIND TV IN ONE-BEDROOM TV. MIN. 6" CLEARANCE FROM WALL BOXES. VISIT HILTONHDTV.COM FOR ADDITIONAL INFORMATION.
10. DENOTES OPTIONAL WIRED DATA CONNECTION FOR GUEST USE:
    A) ADD CAT6 RJ-45 CABLE JACK AND PATCH CORD THROUGH DESKTOP GROMMET
    - OR -
    B) PATCH CORD FROM WAP PORT THROUGH DESKTOP GROMMET.
    EACH CABLE MUST HOMERUN BETWEEN THE GUESTROOM AND THE IDF ON EACH FLOOR. VISIT CONNECTEDROOM.HILTON.COM FOR CURRENT REQUIREMENTS AND OPTIONS.
11. DENOTES WIRELESS ACCESS POINT IN 3-GANG BOX MOUNTED VERTICALLY UNDER DESK. MAINTAIN 6" BETWEEN ALL BOXES, TYP. ALL GUESTROOMS. COORDINATE WAP LOCATION WITH CASEGOODS TO AVOID CONFLICTS. VISIT CONNECTEDROOM.HILTON.COM FOR CURRENT WIRELESS INTERNET REQUIREMENTS AND LIST OF APPROVED INTEGRATORS.
12. IN BATHROOM LOCATIONS ONLY, LIGHT SWITCH EQUIPPED WITH "LITE-A-SWITCH" LED BACKLIT FACEPLATE, UNIVERSAL SERIES CLEAR SWITCH WITH PLATE - MAINTAIN 2" DISTANCE FROM ALL OTHER DEVICES. MOUNTED SO TOP OF SWITCH IS 48" MAX A.F.F.
13. DENOTES AUDIO-VISUAL DOOR ALERT AND DOORBELL ON/OFF SWITCH REQUIRED FOR HEARING IMPAIRED GUESTROOMS ONLY. PROVIDE HOTEL ROOM ANNUNCIATOR KIT EDWARDS CFA SERIES 7005-G5 OR EQUAL AND ON/OFF SWITCH. ANNUNCIATOR KIT TO INCLUDE TRANSFORMER, STROBE AND PUSHBUTTON. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL REQUIRED COMPONENTS. INSTALL TRANSFORMER IN ACCESSIBLE LOCATION ABOVE CEILING IN CORRIDOR. INSTALL PERMANENT LABEL ABOVE SWITCH THAT STATES, "TURN SWITCH ON TO ENABLE HEARING IMAPIRED NOTIFICATION DEVICE." SEE LEGEND ON LEFT FOR HEARING IMPAIRED GUEST ROOMS.
14. ELECTRICAL CONTRACTOR TO PURCHASE AND INSTALL GFCI TYPE RECEPTACLE IN APPROXIMATE LOCATION FOR UNDERCABINET LIGHTING. COORDINATE EXACT MOUNTING LOCATION WITH GENERAL CONTRACTOR/ARCHITECT PRIOR TO INSTALLATION.
15. DENOTES JUNCTION BOX FOR VANITY MIRROR GR-501 TO BE CONTROLLED BY LIGHTING SWITCH IN RESTROOM. ELECTRICAL CONTRACTOR TO COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT CUTSHEET PRIOR TO INSTALLATION. ALL WIRES TO BE FULLY CONCEALED, NO WIRES ARE TO BE EXPOSED UNDER ANY CIRCUMSTANCE. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ANY ROUGH-IN WORK.
16. DELETED
17. DENOTES HORIZONTALLY MOUNTED USB AND USB-C TYPE RECEPTACLE MOUNTED 3" ABOVE TABLE HEIGHT.
18. DENOTES TELEPHONE OUTLET. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION PRIOR TO INSTALLING.
19. DENOTES APPROXIMATE LOCATION OF IN-WALL JUNCTION BOX MOUNTED 5'-6"AFF FOR WALL MOUNTED LIGHT FIXTURE. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL (1) WALL MOUNTED TOGGLE SWITCH FOR CONTROL OF FIXTURE. MOUNT SWITCH BELOW AT 3'-6" AFF. ALL WIRES TO BE FULLY CONCEALED, NO WIRES ARE TO BE EXPOSED UNDER ANY CIRCUMSTANCE.

FIRE ALARM LEGEND	
(SD) 18	SOUNDER BASE SMOKE DETECTOR (LOW FREQUENCY)
	SPEAKER/STROBE WITH 520HZ (LOW FREQUENCY)
	SPEAKER WITH 520HZ (LOW FREQUENCY)

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Project Title :
HOME 2 SUITES GREENWOOD SC
475 HOSPITALITY BLVD, GREENWOOD, SC 29649

Client Logo:
HOME2 SUITES BY HILTON

Seals :
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION MATRIX ENGINEERING INC. No. C01034
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 9801 ROBERT P. BUNN
10-16-2024

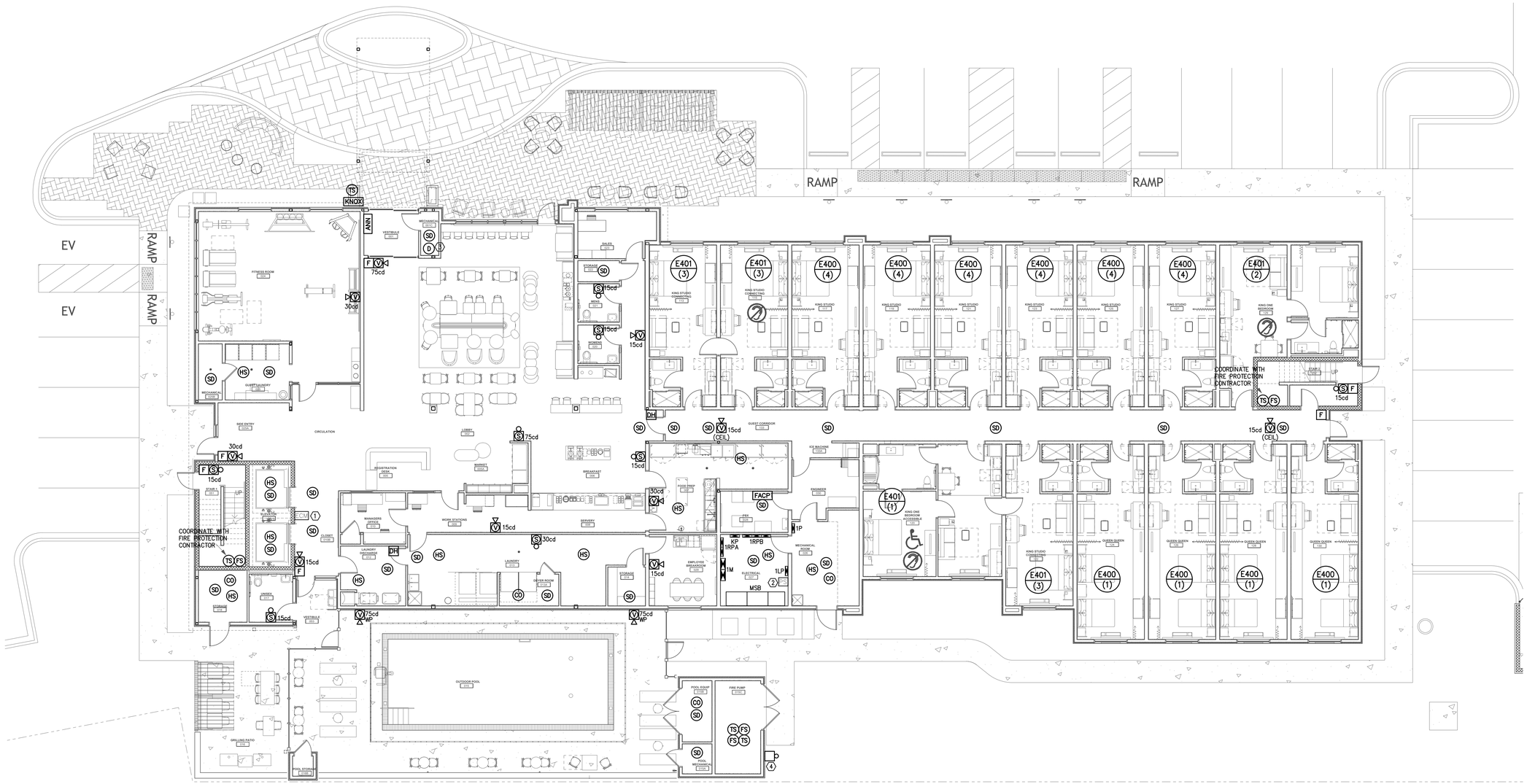
Revisions :

10.16.2024	Issue For Permit	
A	03.20.2025	100% Issue For Hilton
B	06.11.2025	Owner revisions/corrections

Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:
E401

Sheet Title :
ENLARGED GUEST ROOMS PLANS



GROUND FLOOR FIRE ALARM PLAN

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

FIRE ALARM LEGEND

CO	CARBON MONOXIDE DETECTOR.
SD	SMOKE DETECTOR.
D	DUCT DETECTOR.
HS	HEAT SENSOR.
TS	TAMPER SWITCH
FS	FLOW SWITCH
F	MANUAL FIRE ALARM PULL STATION.
V	FIRE ALARM SYSTEM VOICE/STROBE UNIT.
S	FIRE ALARM SYSTEM STROBE UNIT.
DH	DOOR HOLDER.
IAM	INDIVIDUAL ADDRESSABLE MODULES.
FACP	FIRE ALARM CONTROL PANEL.
ANN	REMOTE ANNUNCIATOR PANEL.
KNOX	KNOX BOX
(CEIL)	CEILING MOUNTED DEVICE
WP	WEATHER PROOF DEVICE

GENERAL GROUND FLOOR FIRE ALARM PLAN NOTES:

1. MANUAL PULLS SHALL BE MOUNTED WITHIN 5 FEET OF EXTERIOR DOORS.
2. ALL STROBE LIGHTS TO BE SYNCHRONIZED.
3. REQUIRED STROBE CANDELA SHALL BE THE RESPONSIBILITY OF THE EQUIPMENT SUPPLIER.
4. FIRE ALARM CONTRACTOR TO COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR FIRE ALARM REQUIREMENTS.
5. MOUNT SMOKE DETECTOR WITHIN 5 FEET OF FACP AND REPEATER PANELS.
6. ALL FIRE ALARM SYSTEM WIRING SHALL BE ROUTED IN TYPE EMT CONDUIT. CONDUIT SHALL BE PAINTED WITH A RED STRIPE AT 10 FOOT INTERVALS AND JUNCTION BOX COVERS SHALL BE PAINTED RED.
7. STROBE OR SPEAKER STROBES SHALL NOT BE MOUNTED MORE THAN 15 FEET FROM THE END OF THE CORRIDORS.
8. PROVIDE 1" CONDUIT FROM MAIN FIRE ALARM CONTROL PANEL TO ALL REPEATER AND ANNUNCIATOR PANELS.
9. FIRE ALARM CONTRACTOR TO COORDINATE MOUNTING OF DEVICES WITH LIGHT FIXTURES, AUDIO SPEAKERS, MECHANICAL VENTS, AND ALL OTHER CEILING MOUNTED DEVICES.
10. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE LABELED AS FIRE WALLS AND SHALL BE CAULKED WITH A UL APPROVED FIRE CAULKING SYSTEM EQUAL TO OR GREATER THAN THE RATING OF THE FIRE WALL. A LABEL SHALL BE APPLIED INDICATING THE APPROVED UL TYPE SYSTEM UTILITZED AT EACH PENETRATION. COPIES OF THE FIRE STOP UL APPROVED TYPE SYSTEMS UTILIZED FOR THE PROJECT SHALL BE PROVIDED AT THE SITE DURING THE TIME OF ALL FIRE ALARM INSPECTIONS.
11. ALL CIRCUIT BREAKERS FEEDING FIRE ALARM COMPONENTS SHALL HAVE A LOCKING DEVICE RED IN COLOR.
12. INSTALL A LABEL INDICATING THE DATE OF MANUFACTURER FOR ALL FIRE ALARM BACK-UP BATTERIES.
13. FIRE ALARM CONTRACTOR TO COORDINATE LOCATION OF KNOX BOX WITH AUTHORITY HAVING JURISDICTION.
14. ALL CEILING AND WALL MOUNTED DEVICES TO BE WHITE IN COLOR. COORDINATE EXACT FINISH WITH OWNER/ARCHITECT.
15. FIRE ALARM CONTRACTOR TO COORDINATE WITH FIRE PROTECTION CONTRACTOR TO VERIFY ALL QUANTITIES AND LOCATIONS OF ALL FIRE PROTECTION COMPONENTS REQUIRING MONITORING AND/OR TAMPER SWITCHES.
16. ELECTRICAL CONTRACTOR TO FIELD COORDINATE WITH LOCAL FIRE DEPARTMENTS AND FIRE MARSHAL FOR TESTING TO DETERMINE IF EMERGENCY RESPONDER RADIO COVERAGE IS REQUIRED PER THE 2021 IBC SECTION 916.1 AND IFC SECTION 570. ELECTRICAL CONTRACTOR TO INCLUDE A SEPARATE LINE ITEM FOR COST OF EMERGENCY RESPONDER RADIO SYSTEM IN BASE BID. IT IT IS DETERMINED THAT SYSTEM IS NOT REQUIRED, CONTRACTOR MAY EXCLUDE THIS WORK FROM THE SCOPE OF THE PROJECT.
17. FIRE ALARM CONTROL PANEL TO INTERFACE WITH SOUND AND LIGHTING CONTROLS SO THAT IN THE EVENT OF A GENERAL ALARM THE SOUND AND LIGHTING SYSTEM IS DE-ENERGIZED OR REDUCED SO AS NOT TO INTERFERE WITH THE FIRE ALARM SOUND/VISUALS.

KEYED GROUND FLOOR FIRE ALARM PLAN NOTES:

1. EMERGENCY COMMUNICATION BASE STATION "ECM" SHALL BE CONNECTED TO SECOND, THIRD AND FOURTH FLOOR EMERGENCY CALL STATIONS & SYSTEM POWER SUPPLY IN ELEC. 027. ELECTRICAL CONTRACTOR TO COORDINATE WITH MANUFACTURER AND SYSTEM SHOP DRAWINGS PRIOR TO INSTALLING.
2. DENOTES PROPOSED LOCATION FOR EMERGENCY COMMUNICATION POWER SUPPLY. ELECTRICAL CONTRACTOR TO PROVIDE POWER TO EMERGENCY COMMUNICATION POWER SUPPLY "PS" FROM PANEL 1RPA(60) WITH (2)#12,#12G IN 3/4" CONDUIT. POWER SUPPLY SHALL BE CONNECTED TO THE SECOND, THIRD AND FOURTH FLOOR EMERGENCY CALL STATIONS & EMERGENCY COMMUNICATION BASE ON FIRST FLOOR. ELECTRICAL CONTRACTOR TO COORDINATE WITH MANUFACTURER AND SYSTEM SHOP DRAWINGS PRIOR TO INSTALLING.
3. DENOTES DUCT DETECTOR PROVIDED AND WIRED BY FIRE ALARM CONTRACTOR. INSTALLATION AND UNIT SHUT DOWN BY MECHANICAL CONTRACTOR. COORDINATE UNIT SHUTDOWN WITH MECHANICAL.
4. DENOTES FIRE ALARM SPRINKLER BELL. WIRE THROUGH FLOW SWITCH. COORDINATE WITH FIRE PROTECTION CONTRACTOR.

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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 9801 HOWARD P. BUNN 10-16-2024

Revisions :

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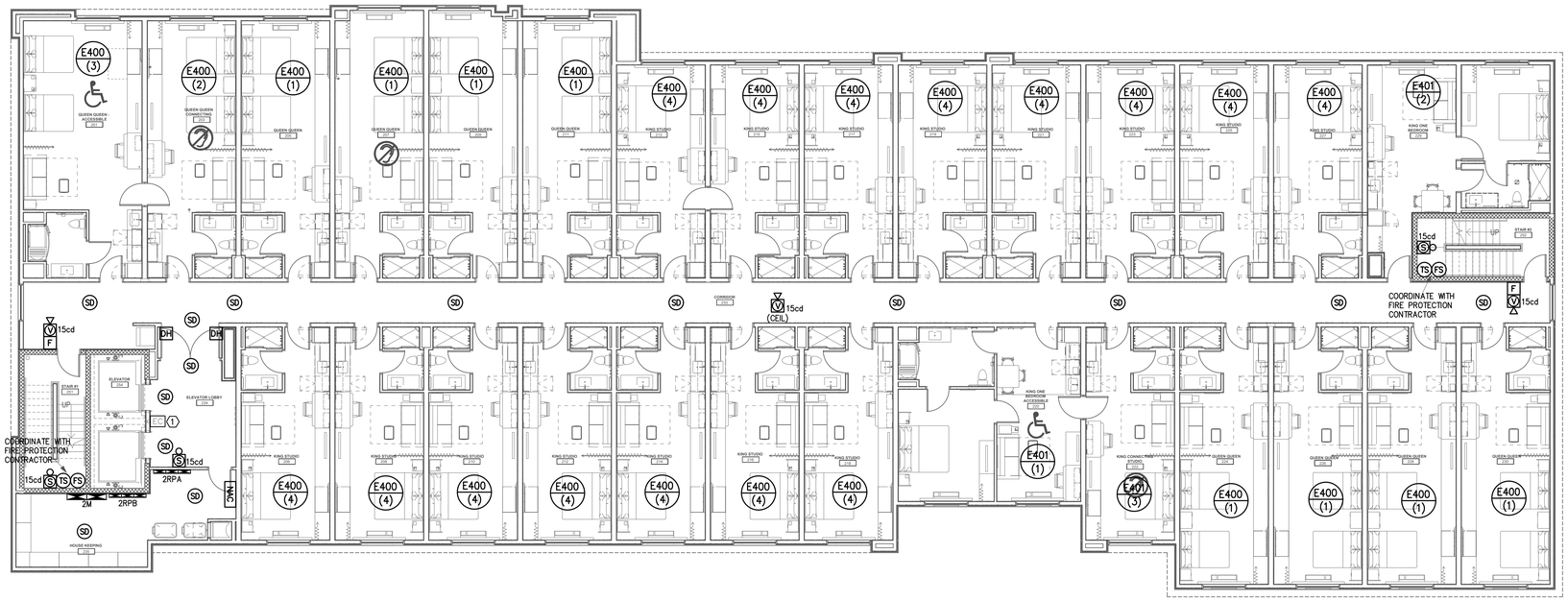
Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:

E500

Sheet Title :

GROUND FLOOR FIRE ALARM PLAN



SECOND FLOOR FIRE ALARM FLOOR PLAN

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

FIRE ALARM LEGEND

CO	CARBON MONOXIDE DETECTOR.
SD	SMOKE DETECTOR.
D	DUCT DETECTOR.
HS	HEAT SENSOR.
TS	TAMPER SWITCH
FS	FLOW SWITCH
F	MANUAL FIRE ALARM PULL STATION.
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KNOX	KNOX BOX
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GENERAL FIRE ALARM PLAN NOTES:

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Client Logo:
HOME2 SUITES BY HILTON

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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 9801 KENNETH P. GUNN
10-16-2024

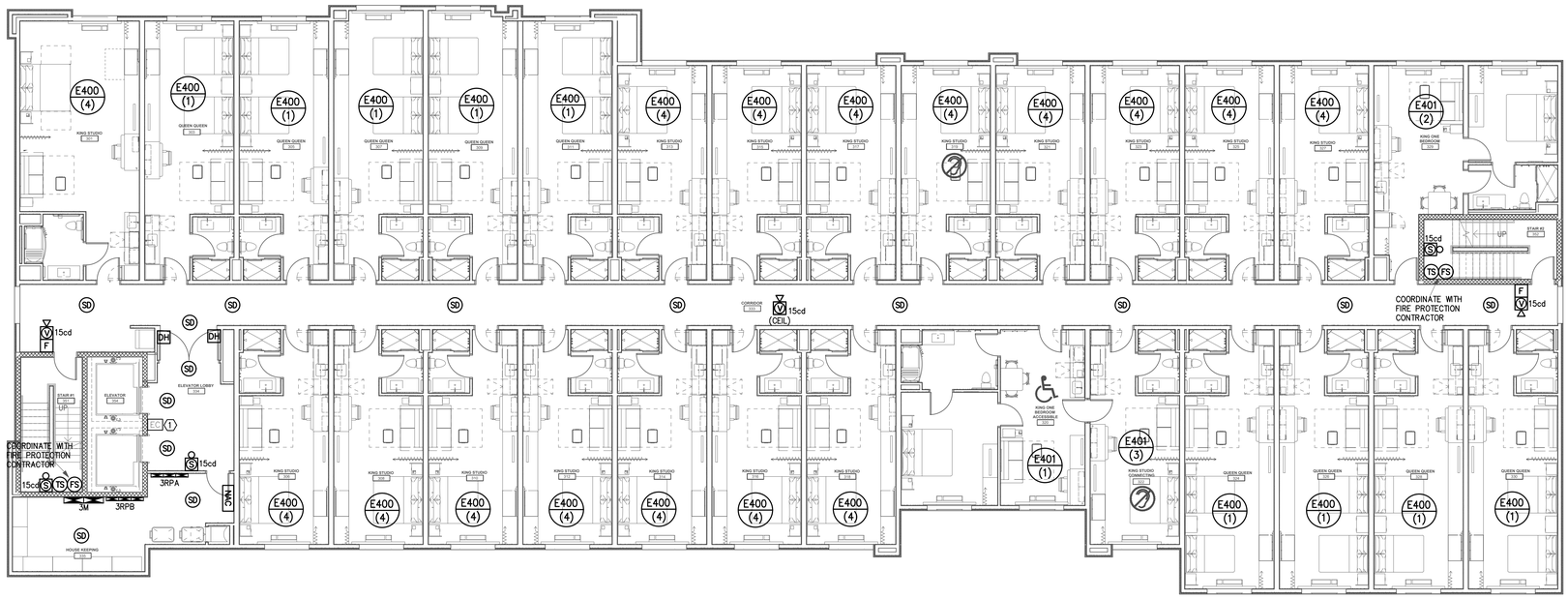
Revisions :

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Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:
E501

Sheet Title :
SECOND FLOOR
FIRE ALARM PLAN



THIRD FLOOR FIRE ALARM PLAN

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

FIRE ALARM LEGEND

CO	CARBON MONOXIDE DETECTOR.
SD	SMOKE DETECTOR.
D	DUCT DETECTOR.
HS	HEAT SENSOR.
TS	TAMPER SWITCH
FS	FLOW SWITCH
F	MANUAL FIRE ALARM PULL STATION.
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KEYED FIRE ALARM PLAN NOTES:

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SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 9801 KENNETH H. GUNN
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Revisions :

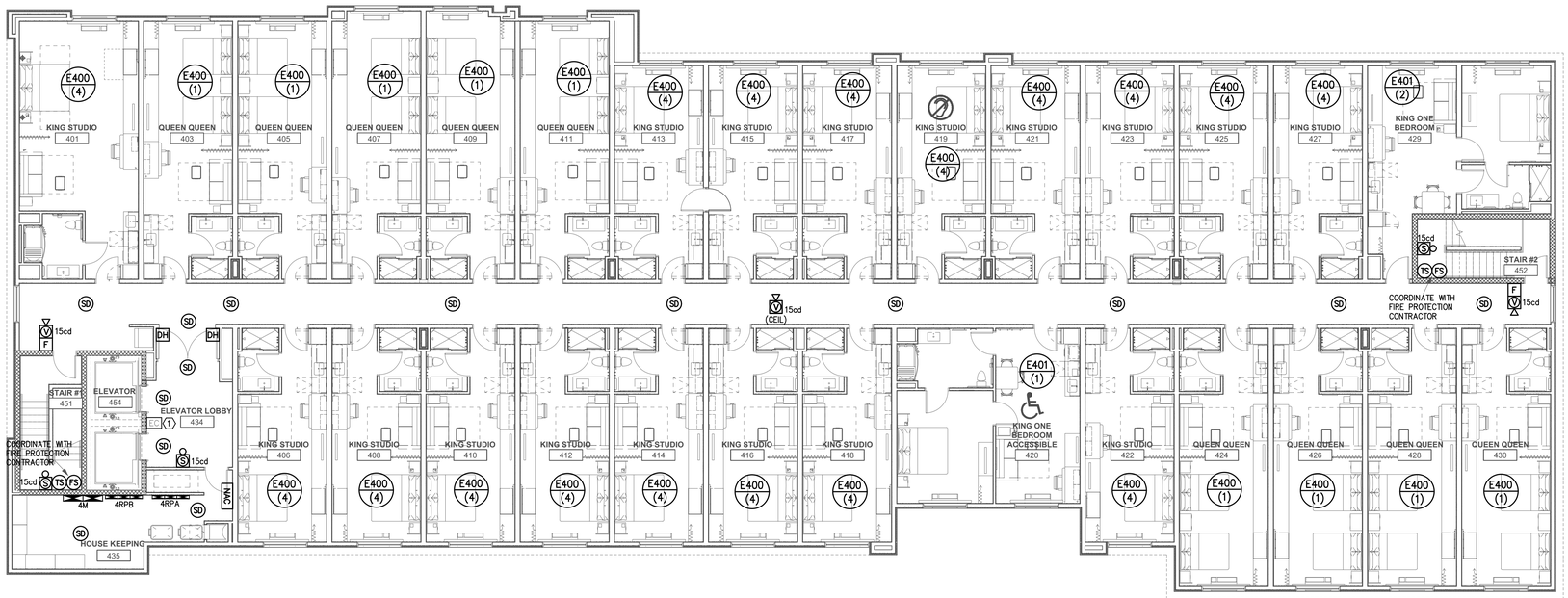
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Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:

E502

Sheet Title :
THIRD FLOOR
FIRE ALARM PLAN



FOURTH FLOOR FIRE ALARM PLAN

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

FIRE ALARM LEGEND

CO	CARBON MONOXIDE DETECTOR.
SD	SMOKE DETECTOR.
D	DUCT DETECTOR.
HS	HEAT SENSOR.
TS	TAMPER SWITCH
FS	FLOW SWITCH
F	MANUAL FIRE ALARM PULL STATION.
V	FIRE ALARM SYSTEM VOICE/STROBE UNIT.
S	FIRE ALARM SYSTEM STROBE UNIT.
DH	DOOR HOLDER.
IAM	INDIVIDUAL ADDRESSABLE MODULES.
FACP	FIRE ALARM CONTROL PANEL.
ANN	REMOTE ANNUNCIATOR PANEL.
KNOX	KNOX BOX
(CEIL)	CEILING MOUNTED DEVICE
WP	WEATHERPROOF DEVICE

GENERAL FIRE ALARM PLAN NOTES:

1. MANUAL PULLS SHALL BE MOUNTED WITHIN 5 FEET OF EXTERIOR DOORS.
2. ALL STROBE LIGHTS TO BE SYNCHRONIZED.
3. REQUIRED STROBE CANDELA SHALL BE THE RESPONSIBILITY OF THE EQUIPMENT SUPPLIER.
4. FIRE ALARM CONTRACTOR TO COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR FIRE ALARM REQUIREMENTS.
5. MOUNT SMOKE DETECTOR WITHIN 5 FEET OF FACP AND REPEATER PANELS.
6. ALL FIRE ALARM SYSTEM WIRING SHALL BE ROUTED IN TYPE EMT CONDUIT. CONDUIT SHALL BE PAINTED WITH A RED STRIPE AT 10 FOOT INTERVALS AND JUNCTION BOX COVERS SHALL BE PAINTED RED.
7. STROBE OR SPEAKER STROBES SHALL NOT BE MOUNTED MORE THAN 15 FEET FROM THE END OF THE CORRIDORS.
8. PROVIDE 1" CONDUIT FROM MAIN FIRE ALARM CONTROL PANEL TO ALL REPEATER AND ANNUNCIATOR PANELS.
9. FIRE ALARM CONTRACTOR TO COORDINATE MOUNTING OF DEVICES WITH LIGHT FIXTURES, AUDIO SPEAKERS, MECHANICAL VENTS, AND ALL OTHER CEILING MOUNTED DEVICES.
10. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE LABELED AS FIRE WALLS AND SHALL BE CAULKED WITH A UL APPROVED FIRE CAULKING SYSTEM EQUAL TO OR GREATER THAN THE RATING OF THE FIRE WALL. A LABEL SHALL BE APPLIED INDICATING THE APPROVED UL TYPE SYSTEM UTILITZED AT EACH PENETRATION. COPIES OF THE FIRE STOP UL APPROVED TYPE SYSTEMS UTILIZED FOR THE PROJECT SHALL BE PROVIDED AT THE SITE DURING THE TIME OF ALL FIRE ALARM INSPECTIONS.
11. ALL CIRCUIT BREAKERS FEEDING FIRE ALARM COMPONENTS SHALL HAVE A LOCKING DEVICE RED IN COLOR.
12. INSTALL A LABEL INDICATING THE DATE OF MANUFACTURER FOR ALL FIRE ALARM BACK-UP BATTERIES.
13. FIRE ALARM CONTRACTOR TO COORDINATE LOCATION OF KNOX BOX WITH AUTHORITY HAVING JURISDICTION.
14. ALL CEILING AND WALL MOUNTED DEVICES TO BE WHITE IN COLOR. COORDINATE EXACT FINISH WITH OWNER/ARCHITECT.
15. FIRE ALARM CONTRACTOR TO COORDINATE WITH FIRE PROTECTION CONTRACTOR TO VERIFY ALL QUANTITIES AND LOCATIONS OF ALL FIRE PROTECTION COMPONENTS REQUIRING MONITORING AND/OR TAMPER SWITCHES.
16. ELECTRICAL CONTRACTOR TO FIELD COORDINATE WITH LOCAL FIRE DEPARTMENTS AND FIRE MARSHAL FOR TESTING TO DETERMINE IF EMERGENCY RESPONDER RADIO COVERAGE IS REQUIRED PER THE 2021 IBC SECTION 916.1 AND IFC SECTION 570. ELECTRICAL CONTRACTOR TO INCLUDE A SEPARATE LINE ITEM FOR COST OF EMERGENCY RESPONDER RADIO SYSTEM IN BASE BID. IT IT IS DETERMINED THAT SYSTEM IS NOT REQUIRED, CONTRACTOR MAY EXCLUDE THIS WORK FROM THE SCOPE OF THE PROJECT.
17. FIRE ALARM CONTROL PANEL TO INTERFACE WITH SOUND AND LIGHTING CONTROLS SO THAT IN THE EVENT OF A GENERAL ALARM THE SOUND AND LIGHTING SYSTEM IS DE-ENERGIZED OR REDUCED SO AS NOT TO INTERFERE WITH THE FIRE ALARM SOUND/VISUALS.

KEYED FIRE ALARM PLAN NOTES:

(1) EMERGENCY CALL STATION SHALL BE CONNECTED TO BASE STATION ON FIRST FLOOR AND POWER SUPPLY ON FIRST FLOOR IN ELEC. 027. ELECTRICAL CONTRACTOR TO COORDINATE WITH MANUFACTURER AND SYSTEM SHOP DRAWINGS PRIOR TO INSTALLING.

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PROJECT NUMBER: 2024-091

Project Title :
HOME 2 SUITES
GREENWOOD SC
475 HOSPITALITY BLVD,
GREENWOOD, SC 29649

Client Logo:
HOME2 SUITES BY HILTON

Seals :
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION MATRIX ENGINEERING INC. No. C01034
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 9801 KENNETH P. GUNN
10-16-2024

Revisions :

	10.16.2024	Issue For Permit
A	03.20.2025	100% Issue For Hilton
B	06.11.2025	Owner revisions/corrections

Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:
E503

Sheet Title :
FOURTH FLOOR
FIRE ALARM PLAN

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ROOF FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"

FIRE ALARM LEGEND

CO	CARBON MONOXIDE DETECTOR.
SD	SMOKE DETECTOR.
D	DUCT DETECTOR.
HS	HEAT SENSOR.
TS	TAMPER SWITCH
FS	FLOW SWITCH
F	MANUAL FIRE ALARM PULL STATION.
	FIRE ALARM SYSTEM VOICE/STROBE UNIT.
	FIRE ALARM SYSTEM STROBE UNIT.
DH	DOOR HOLDER.
IAM	INDIVIDUAL ADDRESSABLE MODULES.
FACP	FIRE ALARM CONTROL PANEL.
ANN	REMOTE ANNUNCIATOR PANEL.
KNOX	KNOX BOX
(CEIL)	CEILING MOUNTED DEVICE
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KEYED FIRE ALARM PLAN NOTES:

(1) DENOTES DUCT DETECTOR PROVIDED AND WIRED BY FIRE ALARM CONTRACTOR. INSTALLATION AND UNIT SHUT DOWN BY MECHANICAL CONTRACTOR. COORDINATE UNIT SHUTDOWN WITH MECHANICAL.

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SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 9801 — HOWARD P. BUNN — 10-16-2024

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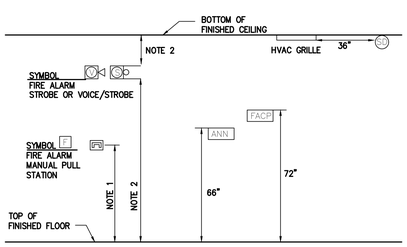
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Sheet Title :
ROOF
FIRE ALARM PLAN

BUILDING SYSTEM OUTPUTS																			CENTRAL COM				
	ACTIVATE COMMON ALARM SIGNAL INDICATOR	ACTIVATE AUDIBLE ALARM SIGNAL	ACTIVATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTIVATE AUDIBLE SUPERVISORY INDICATOR	ACTIVATE COMMON TROUBLE SIGNAL INDICATOR	ACTIVATE AUDIBLE TROUBLE SIGNAL	ACTIVATE GENERAL EVACUATION SIGNAL	DISPLAY CHANGE OF STATUS	ACTIVATE EXTERNAL HORNS/STROBES	TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION	TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION	RETURN ELEVATOR TO ALTERNATE FLOOR	RETURN ELEVATOR TO FIRST FLOOR	SHUNT TRIP AFTER ELEVATOR REACHES DESIGNATED FLOOR	SHUT DOWN RESPECTIVE HVAC	SHOW CHANGE OF STATUS ON ANNUNCIATOR	SHOW CHANGE OF STATUS ON CENTRAL PANEL	TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION	TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION
MANUAL FIRE ALARM PULL BOXES	X	X					X	X	X	X							X	X	X		
BUILDING SMOKE DETECTOR	X	X					X	X	X	X							X	X	X		
DUCT SMOKE DETECTOR			X	X				X			X					X	X	X		X		
SPRINKLER WATER FLOW	X	X					X	X	X	X							X	X	X				
SPRINKLER TAMPER			X	X				X			X						X	X		X		
ELEV. EQ. ROOM SMOKE DETECTOR	X	X					X	X	X	X					X		X	X	X				
ELEV. EQ. ROOM HEAT DETECTOR	X	X					X	X	X	X					X	X	X	X					
ELEV. SHAFT HEAT DETECTOR	X	X					X	X	X	X						X	X	X					
1ST FLOOR ELEVE. LOBBY SMOKE DET	X	X					X	X	X	X				X			X	X	X				
UPPER FLR. ELEV. LOBBY SMOKE DET	X	X					X	X	X	X			X				X	X	X				
HOOD SUPPRESSION SYSTEM	X	X					X	X	X	X							X	X	X				
NOTIFICATION DEVICE SHORT CIRCUIT					X	X		X				X					X	X				X	
OPEN CIRCUIT					X	X		X				X					X	X				X	
GROUND FAULT					X	X		X				X					X	X				X	
FIRE ALARM A.C. POWER FAILURE					X	X		X				X					X	X				X	
FIRE ALARM SYSTEM LOW BATTERY					X			X				X					X	X				X	

NOTES:

1. ALARM CONDITION OF FIRE ALARM SYSTEM SHALL CAUSE SIMULTANEOUS EVACUATION OF THE ENTIRE BUILDING.
2. VISUAL FIRE ALARM DEVICES IN ACCESSIBLE GUEST ROOMS SHALL BE ACTUATED IN THE EVENT OF AN ALARM CONDITION.
3. COORDINATE ACTIVATION OF EXHAUST FANS WITH MECHANICAL EQUIPMENT SCHEDULES AND MECHANICAL DRAWINGS.
4. FIRE ALARM CONTRACTOR TO PROVIDE FIRE ALARM CONTROLS AS NECESSARY TO INTERFACE WITH, AND CONTROL OPERATION OF, ALL FIRE PROTECTION DEVICES OR PERIPHERALS REQUIRED FOR A COMPLETE OPERATIONAL FIRE ALARM SYSTEM.

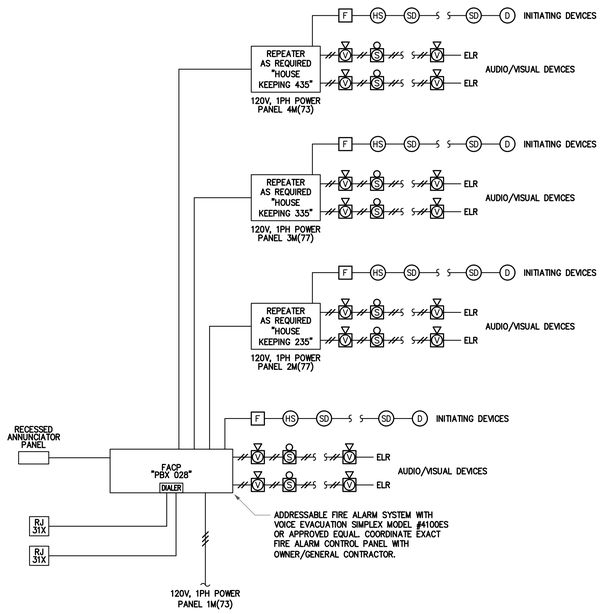


TYPICAL DEVICE MOUNTING HEIGHT

SCALE: NONE

MOUNTING NOTES:

1. MOUNT PULL STATION NOT LESS THAN 4'-0"AFF AND NOT MORE THAN 4'-6"AFF.
2. MOUNT STROBE OR VOICE/STROBE COMBINATION AT LEAST 80"AFF AND NOT MORE THAN 96"AFF. MOUNT DEVICE AT LEAST 6" DOWN FROM CEILING.
3. MOUNTING HEIGHTS OF ELECTRICAL DEVICES TO MEET NFPA 72 AND ADA CODE REQUIREMENTS.



FIRE ALARM RISER DIAGRAM

SCALE: NONE

FIRE ALARM LEGEND

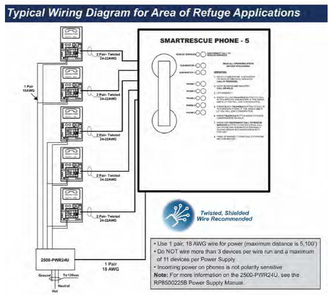
SD	SMOKE DETECTOR
SD CO	SMOKE DETECTOR WITH CO BASE
D	DUCT DETECTOR
HS	HEAT SENSOR
HS CO	HEAT SENSOR WITH CO BASE
CO	CARBON MONOXIDE DETECTOR
TS	TAMPER SWITCH
FS	FLOW SWITCH
SD SB	SOUNDER BASE SMOKE DETECTOR (LOW FREQUENCY)
V 520HZ	SPEAKER/STROBE WITH 520HZ (LOW FREQUENCY)
V	FIRE ALARM SYSTEM VOICE/STROBE UNIT
S	FIRE ALARM SYSTEM STROBE UNIT
F	MANUAL FIRE ALARM PULL STATION
DH	DOOR HOLDER
IR	ID NET RELAY
IAM	INDIVIDUAL ADDRESSABLE MODULES
FACP	FIRE ALARM CONTROL PANEL
ANN	REMOTE ANNUNCIATOR PANEL
KNOX	KNOX BOX
NAC	NOTIFICATION EXTENDER PANEL
FD	FIRE DAMPER
CZ	CONTROL ZAM
MR101	MD101 RELAY
T-SDNSE	SHUNT TRIP MONITOR MODULE
(CEIL)	CEILING MOUNTED DEVICE
WG	DEVICE WITH PROTECTIVE WIRE GUARD
WP	WEATHERPROOF DEVICE

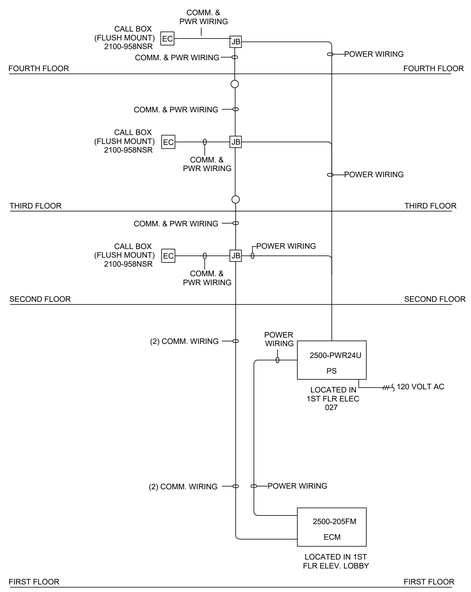
EMERGENCY COMMUNICATION DEVICE LEGEND

ECM	SMART RESCUE BASE STATION RATH CATALOG #2500-205FM (OR EQUAL)
EC	SMART RESCUE SYSTEM CALL BOX RATH CATALOG #2100-98NSR (OR EQUAL)
PS	24 Vdc POWER SUPPLY RATH CATALOG #2500-PWR24U (OR EQUAL)

NOTES:

1. PROVIDE ALL REQUIRED BACK BOXES AND SURFACE MOUNTED COLLARS FOR AREA STATIONS AND MASTER STATIONS. SIZE PER MANUFACTURER'S RECOMMENDATIONS.
2. ALL WIRING TO BE IN CONDUIT.





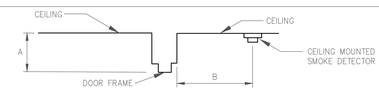
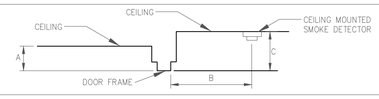
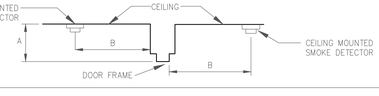
EMERGENCY COMMUNICATION SYSTEM GENERAL RISER DIAGRAM

NTS

RISER NOTES:

1. RISER IS A DIAGRAMMATICAL REPRESENTATION OF THE SYSTEM ARCHITECTURE IN BUILDING CROSS SECTION. IT IS NOT INTENDED TO REPRESENT ACTUAL WIRE RUNS, PANEL CONFIGURATIONS OR PENETRATIONS. REFER TO FLOOR PLANS AND PANEL DETAILS FOR CIRCUIT ROUTING AND CONFIGURATION INFORMATION.
2. ALL WIRING SHALL COMPLY WITH APPLICABLE ELECTRICAL CODES.

SMOKE DETECTOR REQUIREMENTS FOR DOOR RELEASE

DEPTH "A" OF WALL SECTION ABOVE DOOR	CEILING MOUNTED SMOKE DETECTOR LOCATION	DISTANCE "B" AWAY FROM WALL SECTION ABOVE DOOR	GRAPHICAL REPRESENTATION
0"–24" ON BOTH SIDES	PROVIDE ONE ON EITHER SIDE MOUNT CENTERLINE OF SINGLE OR DOUBLE DOOR	MAXIMUM OF 5 FEET AND MINIMUM OF "A" BUT NOT LESS THAN 12"	
OVER 24" ON ONE SIDE	PROVIDE ONE ON EITHER SIDE MOUNT CENTERLINE OF SINGLE OR DOUBLE DOOR	MAXIMUM OF 5 FEET AND MINIMUM OF "C"	
OVER 24" ON BOTH SIDES	PROVIDE ONE ON EACH SIDE MOUNT CENTERLINE OF SINGLE OR DOUBLE DOOR	MAXIMUM OF 5 FEET AND MINIMUM OF "C"	

SMOKE DETECTOR REQUIREMENTS FOR DOOR RELEASE SERVICE NOTES:

1. WHERE DOOR RELEASE SERVICE DEVICES ARE INDICATED ON PLANS CEILING MOUNTED DETECTORS SHALL BE PROVIDED. QUANTITY AND LOCATION OF SMOKE DETECTORS SHALL BE AS DETERMINED BY THE "SMOKE DETECTORS REQUIREMENTS FOR DOOR RELEASE SERVICE" AND WITH ARCHITECTURAL WALL SECTIONS. COORDINATE WITH ARCHITECTURAL WALL SECTIONS, LIGHTS FIXTURES, MECHANICAL DUCT SUPPLY AND RETURNS, FIRE SUPPRESSION SYSTEMS, AND OTHER CEILING RELATED ITEMS.
2. WHERE THERE THERE ARE MULTIPLE DOORWAYS, ADDITIONAL CEILING MOUNTED SMOKE DETECTORS SHALL BE REQUIRED AS FOLLOWS:
   - A. WHERE THE SEPARATION BETWEEN DOORWAYS EXCEEDS 24 INCHES, EACH DOORWAY SHALL BE TREATED SEPARATELY.
   - B. WHERE THE SEPARATION BETWEEN DOORWAY IS 24 INCHES OR LESS, A SMOKE DETECTOR SHALL BE LOCATED ON THE CENTERLINE OF THE SEPARATION.
   - C. EACH GROUP OF THREE DOORWAY OPENINGS SHALL BE TREATED SEPARATELY.
   - D. EACH GROUP OF DOORWAY OPENINGS THAT EXCEED 20 FEET IN WIDTH SHALL BE TREATED SEPARATELY.
3. UPON ACTUATION OF ONE DOOR HOLDER DEVICE AT A STAIRWELL, THE ASSOCIATED DOOR HOLDERS ON THE ABOVE AND BELOW FLOORS SHALL ALSO RELEASE THE DOORS OF THE SHARED STAIRWELL.

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475 HOSPITALITY BLVD, GREENWOOD, SC 29649

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HOME2 SUITES BY HILTON

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REGISTERED PROFESSIONAL ENGINEER SOUTH CAROLINA No. 9801 MICHAEL P. BUNN
10-16-2024

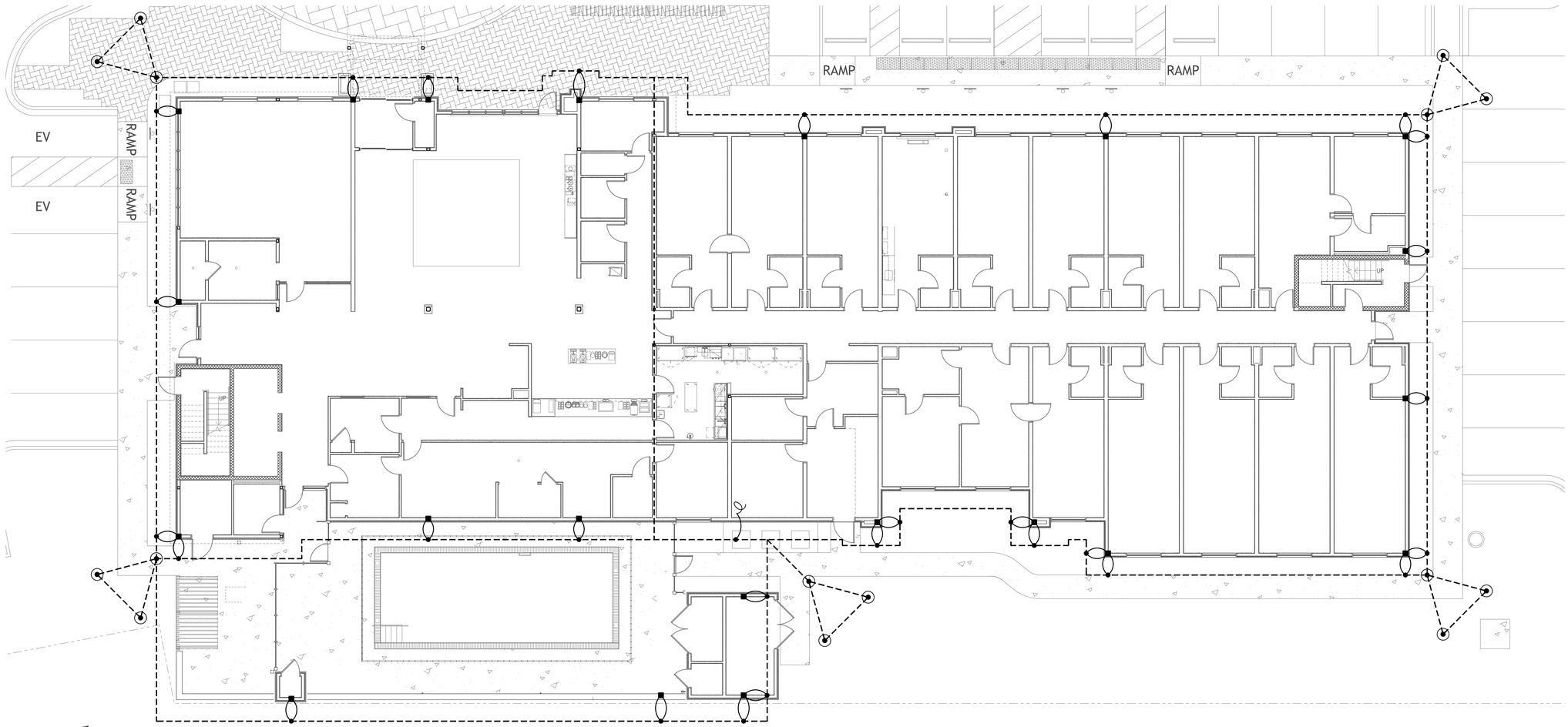
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Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:
E505

Sheet Title :
FIRE ALARM DETAILS



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

GENERAL GROUNDING PLAN NOTES:

1. ELECTRICAL GROUNDING INSTALLATION SHALL COMPLY WITH THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE.
2. REFER TO SHEET E603 FOR TYPICAL GROUNDING DETAILS.
3. GROUNDING CABLE SHALL BE BARE COPPER MEDIUM HARD DRAWN CLASS B SIZE AS SHOWN ON DRAWING. INSTALL CABLE A MINIMUM OF 2'-6"BELOW FINISHED GRADE (OR SLAB). ROUTE CABLE APPROXIMATE 4 TO 6 FEET FROM BUILDING.
4. EXOTHERMIC CONNECTIONS SHALL BE USED FOR ALL BELOW GRADE GROUNDING CONNECTIONS.
5. EXOTHERMIC CONNECTIONS SHALL BE USED ABOVE GRADE TO BUILDING COLUMNS AND BOLTED TO EQUIPMENT.
6. GROUNDING CONDUCTORS ARE SHOWN DIAGRAMMATICALLY ON GROUNDING PLAN DRAWINGS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND INTERFERENCES PRIOR TO EXCAVATION, TRENCHING AND DRIVING OF GROUNDING ELECTRODES.
7. METAL SURFACES SHALL BE THOROUGHLY CLEANED PRIOR TO MAKING GROUNDING CONNECTIONS TO INSURE GROUNDING CONTINUITY.
8. ALL GROUND RODS SHALL BE COPPER CLAD 3/4" X 10' SECTION DRIVEN TO A DEPTH OF 10 FT.
9. GROUNDING CONNECTIONS TO SWITCHGEAR BUSSES SHALL BE BOLTED CONNECTIONS TO THE GROUNDING BUS BAR.
10. GROUNDING CONNECTIONS TO EQUIPMENT WITH LEGS SHALL BE EXOTHERMIC CONNECTIONS.
11. EXACT LOCATION OF ALL CONNECTIONS SHALL BE DETERMINED IN FIELD PRIOR TO INSTALLATION.
12. CONTRACTOR SHALL ROUTE #4/0 BARE COPPER GROUND CABLE TO NEAREST BUILDING COLUMN AND CAD WELD TO COLUMN.
13. BUILDING GROUND IMPEDANCE SHALL BE TESTED IN ACCORDANCE WITH THE NEC. THE ROD AND CLAMP SHALL NOT BE COVERED UNTIL AFTER INSPECTION. GROUNDING SYSTEM RESISTANCE: 5 OHMS. WRITTEN VERIFICATION REQUIRED BY OWNERS REPRESENTATIVE.

KEYED GROUNDING PLAN NOTES:

(1) DENOTES ELECTRICAL CONTRACTOR TO CADWELD #4/0 WIRE TO METAL REBAR IN CONCRETE, AND PROVIDE 10' PIGTAIL TO BE WELDED TO MACHINE IN FUTURE. COORDINATE WITH STRUCTURAL DRAWINGS FOR EXACT LOCATION OF REBAR PRIOR TO INSTALLATION.

GROUNDING LOOP LEGEND

- ---------- #4/0 BARE CU GROUND CABLE
- ● GROUND CABLE EXOTHERMIC CONNECTION
- ▶ EQUIPMENT GROUND CONNECTION
- ■ COLUMN GROUND CONNECTION
- ◉ GROUND ROD
- #4/0 BARE CU PIG TAIL

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PROJECT NUMBER: 2024-091

Project Title :

HOME 2 SUITES GREENWOOD SC
475 HOSPITALITY BLVD,
GREENWOOD, SC 29649

Client Logo:

HOME2 SUITES BY HILTON

Seals :

NORTH CAROLINA BOARD OF EXAMINERS FOR ENGINEERING AND SURVEYING — MATRIX ENGINEERING INC. No. C01034

SOUTH CAROLINA LABOR, LICENSING AND REGULATION — PROFESSIONAL ENGINEER — No. 9801 — HAYDEN P. BURNS — 10-16-2024

Revisions :

	10.16.2024	Issue For Permit
A	03.20.2025	100% Issue For Hilton
B	06.11.2025	Owner revisions/corrections

Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

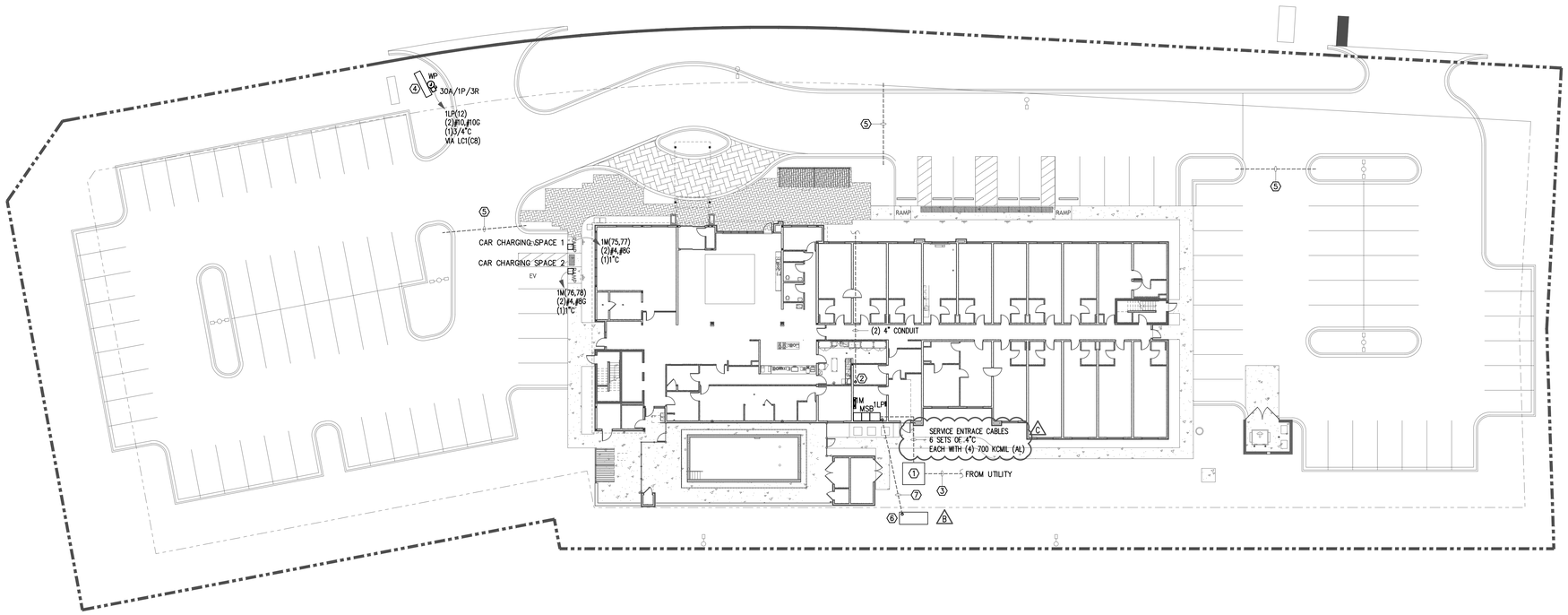
Sheet Number:

E600

Sheet Title :

GROUNDING PLAN

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ELECTRICAL SITE PLAN
SCALE: 1" = 20'-0"

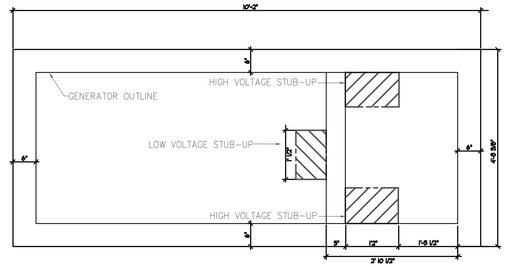
ELECTRICAL SITE PLAN GENERAL NOTES:

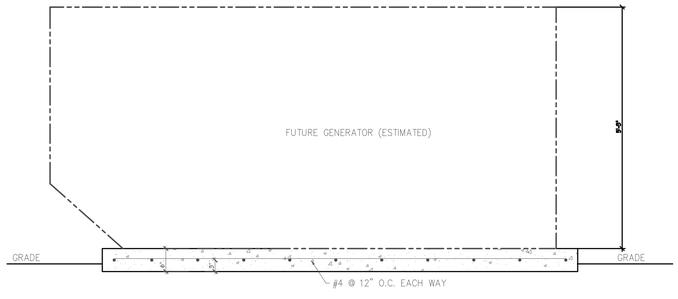
1. ALL NEW ELECTRICAL EQUIPMENT SHALL BE TAGGED WITH PERMANENT WHITE PLASTIC NAMEPLATES WITH 1/4" BLACK LETTERS. NAMEPLATE SHALL SHOW EQUIPMENT DESIGNATION, OPERATIVE VOLTAGE, AND SOURCE OF POWER.
2. AN INSULATED, COPPER GROUND WIRE SHALL BE ROUTED IN ALL CONDUITS AS AN EQUIPMENT GROUNDING CONDUCTOR. ALL POLES SHALL ALSO BE GROUNDED WITH A DRIVEN GROUND ROD.
3. ELECTRICAL CONTRACTOR SHALL ROUTE HOMERUNS AS ECONOMICALLY AS POSSIBLE. ALL ASPECTS OF THE NATIONAL ELECTRIC CODE, 2020 EDITION, SHALL BE ADHERED TO IN REGARD TO CONDUIT FILL AND DERATING OF WIRE.
4. UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40.
5. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR DETAILS, DIMENSIONS, INTERFERENCES, ETC.
6. COODINATE INSTALLATION OF ELECTRICAL SYSTEM WITH GENERAL CONTRACTOR AND SUB CONTRACTORS.
7. CONDUIT SHALL BE INCASED IN CONCRETE WHERE IT CROSSES UNDER ROADS.
8. COORDINATE UTILITY PAD MOUNTED TRANSFORMER WITH CIVIL DRAWINGS.

KEYED ELECTRICAL SITE PLAN NOTES:

1. DENOTES PROPOSED LOCATION OF UTILITY TRANSFORMER. COORDINATE EXACT LOCATION WITH UTILITY COMPANY PRIOR TO INSTALLING.
2. ELECTRICAL CONTRACTOR TO ROUTE (2) 4" CONDUITS WITH PULL STRING FOR DATA/COMM SERVICE FROM PROVIDER'S DIP POLE LOCATION TO GROUND FLOOR DATA ROOM "PBX." STUB-UP CONDUIT 12" ABOVE FINISHED FLOOR IN GROUND FLOOR DATA ROOM. ELECTRICAL CONTRACTOR TO CONTACT UTILITY COMPANY FOR EXACT LOCATION OF DISTRIBUTION POINT PRIOR TO INSTALLING.
3. PRIMARY BY UTILITY, ELECTRICAL CONTRACTOR TO PROVIDE (2) 6" PVC CONDUITS UNDER PAVEMENT TO PROPERTY LINE AS DIRECTED BY LOCAL UTILITY.
4. DENOTES WEATHERPROOF JUNCTION BOX AND NEMA 3R DISCONNECT SWITCH FOR EXTERIOR MONUMENT SIGN. COORDINATE EXACT LOCATION PRIOR TO INSTALLING.
5. ELECTRICAL CONTRACTOR TO PURCHASE AND INSTALL (1) 2" CONDUIT SLEEVE WITH PULL STRING STUBBED UP IN LANDSCAPING MEDIANS.
6. DENOTES PROPOSED LOCATION OF PAD FOR FUTURE GENERATOR. COORDINATE EXACT LOCATION PRIOR TO INSTALLING. GENERATOR PAD SIZE IS ESTIMATED.
7. DENOTES PROPOSED ROUTING OF (2) 3", (1) 1-1/4", AND (3) 3/4" CONDUIT SLEEVES WITH PULL STRING FOR FUTURE GENERATOR POWER CONNECTIONS. ELECTRICAL CONTRACTOR TO STUB UP AND CAP CONDUIT AT EACH END.

B





SECTION VIEW-GENERATOR TANK AND PAD
SCALE: 3/4" = 1'-0"

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Project Title :
HOME 2 SUITES
GREENWOOD SC
475 HOSPITALITY BLVD,
GREENWOOD, SC 29649

Client Logo:
HOME2 SUITES BY HILTON

Seals :
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION MATRIX ENGINEERING INC. No. C01034
REGISTERED PROFESSIONAL ENGINEER No. 9801 SOUTH CAROLINA
10-16-2024

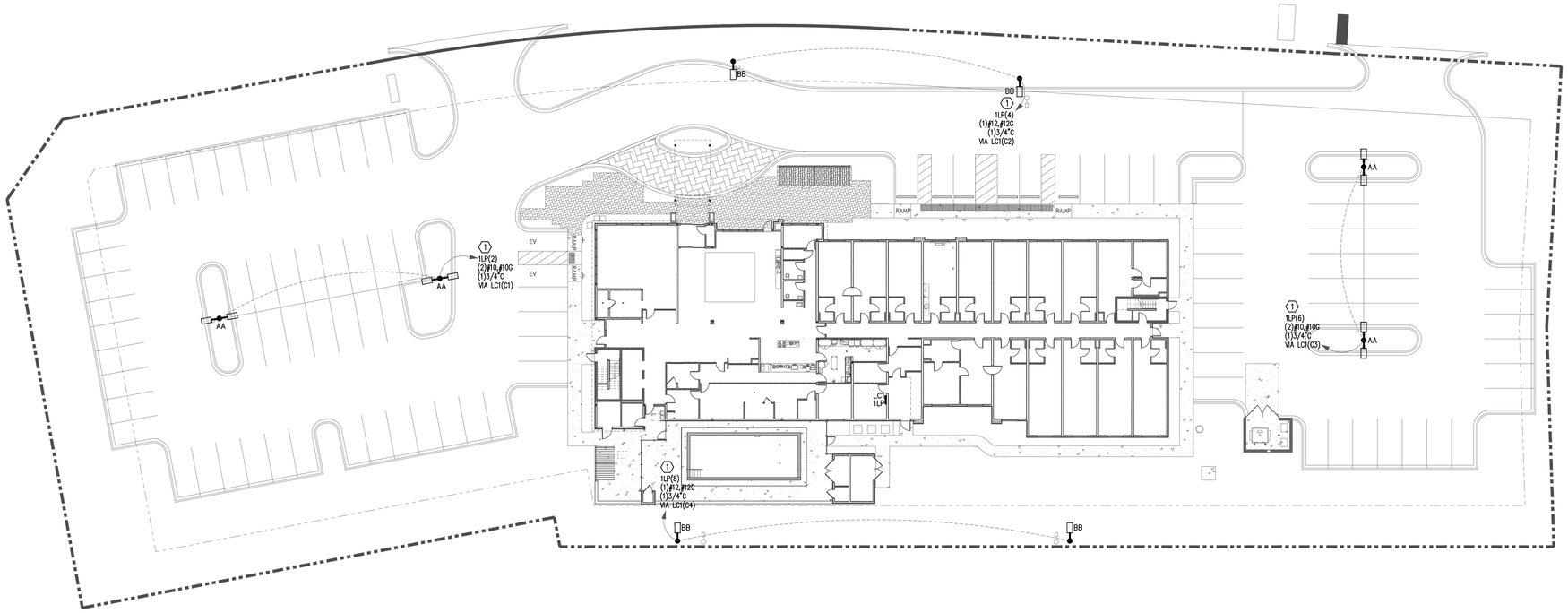
Revisions :

10.16.2024		Issue For Permit
A	03.20.2025	100% Issue For Hilton
B	06.11.2025	Owner revisions/corrections
C	07.18.2025	Power Coordination

Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:
E700

Sheet Title :
ELECTRICAL SITE PLAN



SITE LIGHTING PLAN

SCALE: 1" = 20'-0"

SITE LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	QUANTITY	LAMP	MANUFACTURER PART #	KELVIN	VOLTAGE	WATTAGE	MOUNTING
AA	POLE MOUNTED TWIN LED FIXTURE (TYPE III DISTRIBUTION)	4	LED	FIXTURE: CURRENT LIGHTING CATALOG #ALS1-160L-135-4K7-3-UNV-A-FINISH POLE: CURRENT LIGHTING CATALOG #SSS-A-25-40-A-2-FINISH	4000K	120	268	POLE MOUNTED 25'-0" AFG
BB	POLE MOUNTED SINGLE LED FIXTURE (TYPE III DISTRIBUTION)	4	LED	FIXTURE: CURRENT LIGHTING CATALOG #ALS1-160L-135-4K7-3-UNV-A-FINISH POLE: CURRENT LIGHTING CATALOG #SSS-A-25-40-A-1-FINISH	4000K	120	134	POLE MOUNTED 25'-0" AFG

NOTES:

1. COORDINATE LED COLOR TEMPERATURE WITH ARCHITECT/OWNER PRIOR TO PURCHASING AND INSTALLING.
2. COORDINATE FINISHES WITH ARCHITECT/OWNER PRIOR TO PURCHASING AND INSTALLING.

GENERAL SITE LIGHTING PLAN NOTES:

1. COORDINATE EXACT LOCATION OF ALL SITE LIGHTING WITH THE OWNER AND THE CIVIL DRAWINGS PRIOR TO BEGINNING OF ROUGH-INS.
2. ALL POLES SHALL BE MOUNTED ON CONCRETE BASE. REFER TO DETAILS ON RIGHT FOR TYPICAL INSTALLATION OF BASE. ELECTRICAL CONTRACTOR SHALL CONFIRM THAT THE BASE IS SUITABLE TO SUPPORT THE FIXTURE AND THE POLE WITH THE NORMAL DESIGN CONDITIONS FOR THE AREA.
3. AN INSULATED, COPPER GROUND WIRE SHALL BE ROUTED IN ALL CONDUITS AS AN EQUIPMENT GROUNDING CONDUCTOR. ALL POLES SHALL ALSO BE GROUNDED WITH A DRIVEN GROUND ROD.
4. ELECTRICAL CONTRACTOR SHALL ROUTE HOMERUNS AS ECONOMICALLY AS POSSIBLE. ALL ASPECTS OF THE NATIONAL ELECTRIC CODE, 2020 EDITION, SHALL BE ADHERED TO IN REGARD TO CONDUIT FILL AND DERATING OF WIRE.
5. UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40.
6. ALL UNDERGROUND WIRING CONDUCTORS SHALL BE COPPER, THHW WITH A MINIMUM OF 75 DEGREE CELSIUS INSULATION.
7. ELECTRICAL CONTRACTOR SHALL CONFIRM EXACT MOUNTING METHOD OF ALL LIGHT FIXTURES AND PROVIDE ALL NECESSARY HARDWARE.
8. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR DETAILS, DIMENSIONS, INTERFERENCES, ETC.
9. COODINATE INSTALLATION OF ELECTRICAL SYSTEM WITH GENERAL CONTRACTOR AND SUB CONTRACTORS.
10. CONDUIT SHALL BE INCASED IN CONCRETE WHERE IT CROSSES UNDER ROADS.

KEYED SITE LIGHTING PLAN NOTES:

(1) DENOTES LIGHTING CIRCUIT TO BE FED THRU LC1 LIGHTING CONTACTOR (PHOTOCELL & TIMECLOCK). SEE LC1 DETAIL ON SHEET E006. ELECTRICAL CONTRACTOR TO ROUTE LIGHTING CIRCUITS THROUGH CONDUIT PROVIDED BY SITE CONTRACTOR. COORDINATE WITH SITE CONTRACTOR.

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Client Logo:

HOME2 SUITES BY HILTON

Seals :

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION MATRIX ENGINEERING INC. No. C01034

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 9801 KEVIN B. GUNN

10-16-2024

Revisions :

	10.16.2024	Issue For Permit
A	03.20.2025	100% Issue For Hilton
B	06.11.2025	Owner revisions/corrections

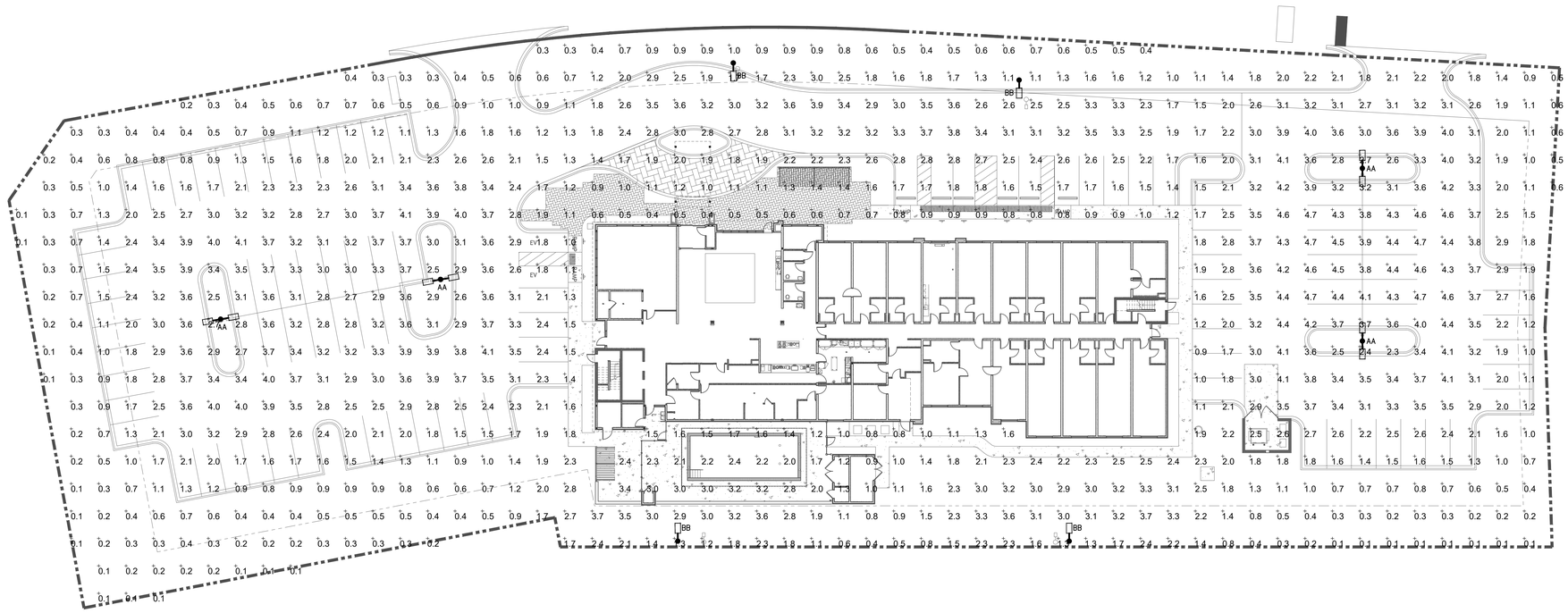
Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:

E701

Sheet Title :

SITE LIGHTING PLAN



SITE LIGHTING PHOTOMETRIC PLAN

SCALE: 1" = 20'-0"

PHOTOMETRIC CALCULATIONS					
DESCRIPTION	AVG	MAX	MIN	MAX/MIN	AVG/MIN
SITE AREA	2.03 fc	4.7 fc	0.1 fc	47.0	20.3

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Client Logo:

HOME2 SUITES BY HILTON

Seals :

SOUTH CAROLINA — MATRIX ENGINEERING INC. No. C01034 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 9801 — KEITH P. BUNN — 10-16-2024

Revisions :

	10.16.2024	Issue For Permit
A	03.20.2025	100% Issue For Hilton
B	06.11.2025	Owner revisions/corrections

Project Number :
23112
Phase :
CD
Date :
04.22.2024
Drawn By :
BY
Checked By :
HPB

Sheet Number:

E702

Sheet Title :
SITE LIGHTING PHOTOMETRIC PLAN

ELECTRICAL SPECIFICATIONS

General Provisions

1. All Electrical work shall be executed in accordance with the 2020 version of the National Electrical Code and all other local codes, laws, and ordinances. Where one code differs from another, the stricter of the two shall apply.

2. It is the duty of the Electrical contractor to be familiar with the construction details of the building. The contractor shall coordinate the installation of the electrical system with all other trades and shall complete the electrical installation as soon as conditions will allow.

3. Payment of all fees, permits, and licenses required to complete the electrical installation shall be the responsibility of the electrical contractor.

4. All work shall be done in a neat, quality manner with all wiring and raceways concealed.

5. All electrical work shall be warranted by the electrical contractor for one (1) year from the date of acceptance by the owner or his designated representative.

6. All electrical drawings are generally diagrammatic in nature. The electrical contractor shall closely coordinate all electrical work will all other trades working on the premises.

7. Electrical contractor shall submit five (5) sets of catalog cuts, brochures, or other technical data for all equipment furnished under this contract to the architect for his review.

8. All requests for prior approval shall be submitted to the engineer no later than ten (10) days prior to the bid date unless noted as "approved equal" in a written addendum. All manufactures shall be specified herein or as shown on the contract documents.

9. See general notes, schedules, and legends on the electrical drawing set for any additional requirements to the contract.

10. Electrical contractor is to contact the architect after installation of all switch, receptacle, telephone, television, and lighting boxes for an on-site review before any wiring is installed or wall surfaces are complete. The architect may, at this point, make adjustments to the box locations as desired.

11. All electrical panelboards and lighting equipment shall be restrained per seismic requirements of the appropriate building code in effect.

Electrical Raceways

1. All cutting and patching required for and resulting from the electrical installation work shall be patched and repaired to restore the original surface finish. This repair work is the responsibility of the electrical contractor.

2. Contractor shall install sleeves for conduits that pass through grade beams, foundations, walls, and slabs before concrete is poured. Contractor shall do all necessary cutting and sealing afterwards in an approved manner.

3. All penetrations through fire-rated walls shall be patched with a UL approved fire sealant equal to at least the rating of the wall.

4. Wiring system is to be concealed above the suspended ceiling or in walls where possible. Conduit is to be installed parallel to building lines and clear of all openings, depressions, pipes, ducts, structure, etc.

5. Conduit is to be installed between cabinets and boxes with no more than four (4) 90 degree bends. Conduit is to be securely fastened in place with straps, hangers and steel supports as required. Conduit is not to be fastened or supported from the ceiling grid or supporting wires. Conduit ends shall be reamed and conduit shall be thoroughly cleaned before installation. Openings in conduit shall be plugged or properly covered.

6. Terminals on switches and outlets shall not be used to "feed through" to the next switch or outlet. The removal of a receptacle or fixture or any other device fed from a box shall not interfere with conductor continuity.

7. Conduit shall be furnished as shown on the electrical drawings. Approved types are heavy wall rigid steel hot dipped galvanized or EMT with compression type fittings and connections. All runs shall be continuous with all joints and connections pulled tight. Conduit shall be required in and under all slabs and in masonry walls. PVC conduit may be used underground or under slabs. Minimum conduit size shall be 3/4".

8. Contractor shall install a nylon pull wire in each empty conduit.

9. Contractor to include an equipment grounding conductor in each conduit. Conductor size to be determined by National Electrical Code requirements.

Conductors

1. Conductors shall be soft-annealed 98% copper. All conductors larger than #8 AWG shall be stranded. Minimum size conductor shall be #12 AWG unless otherwise specified. No aluminum conductors will be permitted. Type THHN shall not be used underground, outside, at service entrances or in wet locations. All insulation shall be rated at 600 volts.

The following insulation types are permitted:

#10 AWG and smaller	THW,THWN,THW
#8 AWG to #4/0 AWG	THW, THHN
Over 4/0 AWG	THW
Service Entrance	USE, RHW
Wire through fluorescent fixture or within 3' of heating equipment	THHN

Conductors shall be color coded as follows:

	208/120 Volt Y	480/277 Volt Y
Phase A	Black	Brown
Phase B	Red	Orange
Phase C	Blue	Yellow
Neutral	White	White
Ground	Green	Green

Distribution

1. Electrical power service voltage shall be as noted on the drawings. Size of the electrical service conductors shall be as shown on the riser diagram. All service connections and grounding detail shall be per the National Electrical Code article 250 and shall be inspected before covering.

2. Contractor shall comply with the 2020 National Electrical Code and all laws that apply to electrical installations.

3. All material used on the project shall be new and conform to Underwriters Laboratories (UL) standards.

4. Contractor to verify voltage drops and A.I.C. ratings for all equipment connected and verify the size of all electrical system breakers, conduit, wire size, etc.

Grounding

1. All metallic conduit, supports, cabinets, panelboards, and other electrical system components shall be permanently grounded per the National Electrical Code. All grounding devices and clamps shall be of the type approved specifically for grounding use. All circuits shall include a grounding conductor sized per National Electrical Code requirements.

Panelboards

1. Receptacle and lighting panels shall be safety dead-front type. Bussing and breakers shall be as shown on panelboard drawing. Panels shall be supplied with copper plated bus. Cabinets shall be NEMA type 1. Contractor to supply nameplates and type-written panel schedules. Panel shall be manufactured by Square D General Electric, Cutler Hammer or approved equal.

2. All circuit breakers must show positive indication of tripped breaker.

3. Switches shall be heavy-duty type fusible or non-fusible as specified on drawing. Operating mechanism shall be designed to provide quick-make and quick-break operation. Construction shall consist of silver-plated operating parts with safety interlock on door to prevent entry when in "on" position. Indoor enclosures shall be NEMA type 1. Outdoor enclosures shall be type NEMA 3R. Fuse clips shall be for type RK-1 fuses. Disconnect switches shall be manufactured by Square D, General Electric, Cutler Hammer or approved equal.

4. All electrical equipment, panels, switches, etc., shall be tagged with white plastic nameplates with 1/4"H black letters. Nameplate shall show equipment designation and operating voltage.

Lighting Equipment

1. Lighting fixtures shall be of the type shown in the lighting fixture schedule.

2. Exit lamps shall be provided at all exterior doors. All emergency and exit lights shall have self-contained battery back-up systems, or be of the type for use with emergency generator system if specified.

Devices and Boxes

1. All outlet, lighting, and switch boxes shall be pressed steel where used in overhead and concealed areas. Receptacles and switches in exposed areas shall be installed in ferrous alloy or cast aluminum boxes with appropriate sheet steel covers.

2. Local switches shall be quiet toggle type, Hubbell #1221 or approved equal (single pole) or Hubbell #1223 or approved equal (3-way) and shall be rated for 120/277 Volts. Duplex receptacles shall be Hubbell #5352 or approved equal, three wire grounding type with ground installed.

3. All wall switches shall be 20 Ampere, silent type with cover plate.

4. Duplex receptacles shall be 20 Ampere with cover plate.

5. Unless otherwise indicated , all lighting switches shall be flush mounted 44" above finished floor or 7" above finished countertop.

6. All receptacles shall be flush mounted 18" above finished floor or 7" above finished countertop unless otherwise indicated. Receptacles above countertops shall be mounted horizontally unless otherwise noted. Notify architect for configuration of location after boxes are set, but before wire is pulled or walls are constructed. Contractor shall certify that all receptacles are tested for proper polarity prior to final inspection.

7. All telephone outlets shall be flush mounted 18" above finished floor unless otherwise indicated.

8. Toilet exhaust fans shall be supplied and installed by the mechanical contractor. Wiring shall be done by the Electrical contractor.

9. All low voltage wiring for HVAC controls shall be done by the mechanical contractor. All line voltage HVAC wiring shall be done by the electrical contractor. Electrical contractor shall review HVAC specifications and plans and coordinate with HVAC contractor to provide all requirements.

10. All switch and receptacle cover plates to be brushed stainless steel unless otherwise specified by architect. Consult with architect before purchasing cover plates.

Data Communications Systems

1. Electrical contractor shall provide and install all raceway and backboxes as noted on drawings. All head end equipment, wiring, faceplates, and final connections for low voltage systems (data, voice, audio visual) shall be by others under seperate contract with owner.

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Project Title :
HOME 2 SUITES GREENWOOD SC
475 HOSPITALITY BLVD, GREENWOOD, SC 29649

Client Logo:
HOME2 SUITES BY HILTON

Seals :
SOUTH CAROLINA MATRIX ENGINEERING INC. No. C01034 CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 9801 HOLDEN B. BUNN
10-16-2024

Revisions :

	10.16.2024	Issue For Permit
A	03.20.2025	100% Issue For Hilton
B	06.11.2025	Owner revisions/corrections

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Project Number : 23112
Phase : CD
Date : 04.22.2024
Drawn By : BY
Checked By : HPB

Sheet Number:
E800

Sheet Title :
ELECTRICAL SPECIFICATIONS