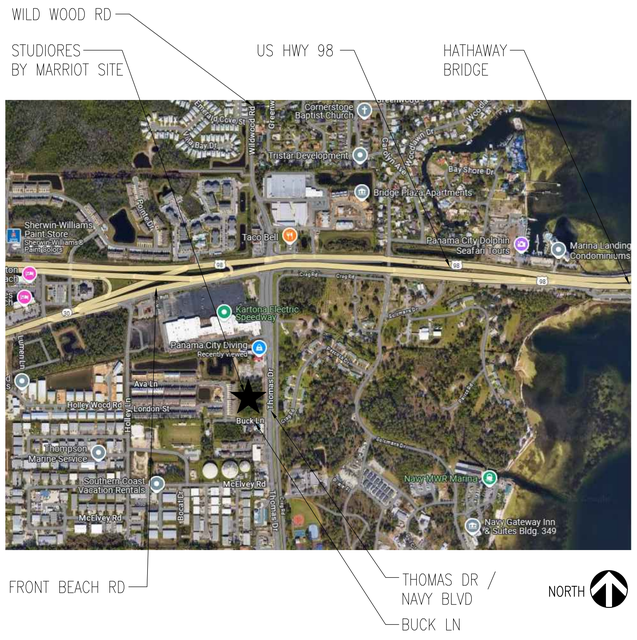


STUDIORES By Marriott
Panama City Beach, FL

Vicinity Map



PROJECT INFORMATION

APPLICABLE CODES AND STANDARDS

BUILDING CODE	– FLORIDA BUILDING CODE (FBC)	2023 EDITION 8th EDITION
ACCESSIBILITY	– FLORIDA ACCESSIBILITY CODE (FAC)	2023 EDITION
MECHANICAL CODE	– FLORIDA MECHANICAL CODE (FMC)	2023 EDITION
PLUMBING CODE	– FLORIDA PLUMBING CODE (FPC)	2023 EDITION
ELECTRICAL CODE	– NFPA 70, NATIONAL ELECTRICAL CODE (NEC)	2020 EDITION
GAS CODE	– FLORIDA GAS CODE (FGC)	2023 EDITION
FIRE CODE	– FLORIDA FIRE PREVENTION CODE, 8TH EDITION.	2023 EDITION
	– N.F.P.A. 1, FIRE CODE FLORIDA (FLORIDA 8TH EDITION)	2021 EDITION
	– N.F.P.A. 101, LIFE SAFETY CODE (FLORIDA 8TH EDITION)	2021 EDITION
ALARM	– NFPA 72	2019 EDITION
FIRE SPRINKLER	– NFPA 13	2019 EDITION
ENERGY CONSERVATION	– FLORIDA ENERGY CONSERVATION CODE (FBC-EC)	2023 EDITION

OCCUPANCY CLASSIFICATION AND BUILDING TYPE

USE GROUP – MIXED USE:
A2 / R-1 (FIRST FLOOR)
R-1 (UPPER FLOORS)

CONSTRUCTION TYPE – 2B

FIRE PROTECTION – FIRE SPRINKLED NFPA 13

BUILDING SQUARE FOOTAGE

FIRST FLOOR AREA	15,623 SQ. FT.
SECOND FLOOR AREA	15,623 SQ. FT.
THIRD FLOOR AREA	15,623 SQ. FT.
FOURTH FLOOR AREA	15,395 SQ. FT.
TOTAL AREA	62,264 SQ. FT.

Room Distribution

ROOM TYPE	FIRST FLOOR	SECOND FLOOR	THIRD FLOOR	FOURTH FLOOR	TOTAL
SINGLE QUEEN	12	12	12	12	48
SINGLE QUEEN ADA	1	1	1	1	4
DOUBLE QUEEN	12	19	19	19	69
DOUBLE QUEEN ADA	0	1	1	1	3
TOTAL SUITES COUNT	25	33	33	33	124
TOTAL ACCESSIBLE ROOMS	1	2	2	2	7

EXTERIOR DESIGN.
GEN 1.0 DECOR PACKAGE: "MIYO" MAKE IT YOUR OWN SCHEME

INTERIOR DESIGN.
GEN 1.0 DECOR PACKAGE: "MIYO" MAKE IT YOUR OWN SCHEME

Architect

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STRUCTURAL

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MEP

MEP Green Design & Build Pllc

17047 El Camino Real,
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Phone: 281.786.1195
URL: www.megreendesigns.com

THIS BUILDING IS TO BE CONSTRUCTED AS TYPE 2B CONSTRUCTION – LIGHT GAGE METAL STUDS. DETAILS SHOWING WOOD FRAMING IF ANY, ARE FOR REFERENCE ONLY. ONLY FIRE TREATED WOOD IS PERMITTED WHERE NEEDED.

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STATE OF FLORIDA
SIDDHARTH ASHOK PAREKH
AR97279
REGISTERED ARCHITECT
02-09-2026

Project #:	2502
Issue Date:	02-09-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

Panama City Beach, FL

298 Thomas Dr, Panama City Beach, FL 32408, USA

STUDIORES

SHEET TITLE:
COVER SHEET

SHEET NUMBER:
A000

The drawings and other information contained on this sheet are to be used in connection with the project located at the Project Address shown in the Title Block.

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D:\Parek\Architects\Projects\2502 – StudioRes – Panama City Beach FL\Drawings\A000 Cover Sheet.dwg – Marco T Yanes Jr – Monday, February 09, 2026, 4:42pm – Copyright 2026

HVAC GENERAL SPECIFICATIONS

1. ALL MECHANICAL EQUIPMENT AND INSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF THE CURRENT REQUIRED CODES, THE THE 2023 FLORIDA BUILDING CODE, THE 2023 FLORIDA MECHANICAL CODE, THE STATE ENERGY CODE, NFPA 90A, 96, 101, UNDERWRITERS LABORATORIES (OR ETL) AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.

2. ALL MECHANICAL EQUIPMENT SHALL BE LABELED WITH BAKELITE NAMEPLATE WITH 2" HIGH WHITE LETTERS ON A BLACK BACKGROUND, NAMEPLATE SHALL SHOW EQUIPMENT TAG USED ON THESE DRAWINGS.

3. ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH EQUIPMENT CHARACTERISTICS, MANUFACTURER'S RECOMMENDATIONS AND ELECTRICAL DRAWINGS.

4. ALL FANS SUPPLYING MORE THAN 2000 CFM OF AIR TO ANY SPACE AND ALL RECIRCULATING FAN SYSTEMS SERVING AREAS OF EGRESS SHALL BE INSTALLED WITH A SMOKE DETECTOR IN THE RETURN DUCTWORK. THE SMOKE DETECTOR SHALL BE WIRED TO STOP THE FAN UPON DETECTION OF SMOKE, AND SIGNAL THE BUILDING FIRE ALARM CONTROL PANEL (IF BUILDING IS SO EQUIPPED). SMOKE DETECTOR TROUBLE CONDITIONS SHALL BE INDICATED VISUALLY OR AUDIBLY IN A NORMALLY OCCUPIED AREA AND SHALL BE IDENTIFIED AS AIR DUCT DETECTOR TROUBLE. IF A BUILDING FIRE ALARM SYSTEM IS INSTALLED, THE SMOKE DETECTOR SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.

5. PROVIDE FIRE DAMPERS IN ALL RATED WALLS, FLOOR AND CEILING PENETRATIONS. REFER TO THE ARCHITECTURAL/FIRE SAFETY PLAN FOR LOCATIONS OF RATED AREAS. PROVIDE ACCESS DOORS IN DUCTWORK AND CEILING AT EACH FIRE/SMOKE/FIRE SMOKE DAMPER LOCATION. INSTALL SMOKE DAMPERS IN ALL DUCT PENETRATIONS THROUGH SMOKE RATED WALLS. WHERE DUCTS PENETRATE WALLS THAT CARRY BOTH FIRE AND SMOKE RATINGS, THE DAMPERS INSTALLED SHALL BE COMBINATION FIRE AND SMOKE DAMPERS. ALL DAMPERS SHALL BE U.L. 555 LABELED. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER REQUIREMENT.

6. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

7. ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY OWNER.

8. ALL HVAC COMPRESSORS SHALL HAVE EXTENDED 5-YEAR MANUFACTURER'S WARRANTY.

9. GROUND MOUNTED OUTDOOR AIR CONDITIONING EQUIPMENT LEVEL ON 4" THICK REINFORCED CONCRETE PADS, EXTENDING 6" BEYOND UNIT PERIMETER OF EQUIPMENT.

10. ALL DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL AS RECOMMENDED IN SMACNA (LATEST EDITION) LOW-PRESSURE DUCT CONSTRUCTION STANDARDS, THE MINIMUM THICKNESS OF 0.0217 INCHES (NO. 26 GAGE), UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL JOINTS AND SEAMS IN ALL SHEET METAL DUCTWORK SHALL BE SEALED WITH DUCT SEALER.

11. SUPPLY, RETURN AND FRESH AIR DUCTS AND EXHAUST DUCTS FOR HEAT RECOVERY SYSTEM AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHERE LOCATED IN UNCONDITIONED SPACES AND WHERE LOCATED OUTSIDE THE BUILDING WITH A MINIMUM OF R-8 INSULATION IN CLIMATE ZONES 2a. WHERE LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY A MINIMUM OF R-8 INSULATION IN CLIMATE ZONES 3a.

12. ALL DUCTWORK SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. DUCT SUPPORTS AND ATTACHMENT TO STRUCTURE SHALL BE AS PER SMACNA STANDARDS.

13. FLEXIBLE DUCTWORK SHALL BE THERMAFLEX M-KE (U.L. 181 LISTED, CLASS 1 FLEXIBLE AIR DUCT) OR EQUAL. PROVIDE THERMAFLEX M-KE R-6 (R VALUE = 6.0 MINIMUM OR AS REQUIRED BY LOCAL ENERGY CODE) IN ATTICS AND OTHER UNCONDITIONED SPACES. AIR CONNECTORS ARE NOT ACCEPTABLE. SIZE TO MATCH DEVICE NECK, PROVIDE ROUND GALVANIZED STEEL DUCT RUNOUTS TO MAXIMUM A MAXIMUM FLEXIBLE DUCT LENGTH OF 5'-0". FLEXIBLE DUCTWORK SHALL BE INSTALLED, SUPPORTED AS STRAIGHT AS POSSIBLE WITHOUT FORMING CRIMPS OR OTHER AIR FLOW RESTRICTIONS. FLEXIBLE DUCT ROUTING SHALL NOT PENETRATE FIRE- RESISTANCE RATED ASSEMBLY. PROVIDE SQUARE TO ROUND ADAPTERS OR BOOTS TO CONNECT TO AIR DEVICE NECK WHEN REQUIRED

14. ROUND AND FLEXIBLE DUCTWORK SHALL BE CONNECTED TO MAIN DUCTS WITH SPIN-IN FITTINGS WITH SCOOP AND BALANCING DAMPER.

15. PROVIDE DUCT LINER ONLY WHERE REQUIRED FOR ACOUSTIC NEEDS USING 1" THICK CLOSED-CELL ELASTOMERIC MATERIAL THAT COMPLIES WITH ASTM C1534-07-E1 AND LINE ALL DUCTWORK A 10'-0" DOWNSTREAM OF ALL AIR HANDLING UNITS, FAN COIL UNITS, AND TERMINAL UNITS.

16. PORTIONS OF DUCTWORK VISIBLE THROUGH AIR DISTRIBUTION DEVICES IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.

17. DUCTWORK DIMENSIONS SHOWN ON THE DRAWINGS ARE INSIDE CLEAR DIMENSIONS.

18. REFRIGERANT PIPING SHALL BE TYPE L OR REFRIGERATION SERVICE COPPER TUBING WITH BRAZED JOINTS/PRESS-TYPE FITTINGS. REFER MANUFACTURER'S SUGESSION FOR SIZING. SUCTION PIPING SHALL BE INSULATED WITH 1" INCH AP ARMAFLEX INSULATION OR MANUFACTURING AS PER MANUFACTURER REQUIREMENTS, WHICH EVER IS LARGER. INSULATION APPLIED OVER TUBING WITHOUT CUTTING. ALL JOINTS AND SEAMS SHALL BE SEALED WITH ADHESIVE.

19. ALL EXTERNAL LOUVERS/REGISTER SHALL BE PAINTED/COORDINATED WITH ARCHITECTURAL PLAN FOR ADJACENT BUILDING COLOR

20. CONDENSATE FROM ALL ROOFTOP AIR CONDITIONING EQUIPMENT SHALL BE TRAPPED AND ROUTED TO THE NEAREST ROOF DRAIN. CONDENSATE FROM ALL HORIZONTAL WATER SOURCE HEAT PUMPS ABOVE THE CEILING SHALL BE TRAPPED AND ROUTED TO THE NEAREST UTILITY SINK, MOP SINK OR HUB DRAIN IN THE CEILING PLENUM. CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC (EXCEPT INSULATED COPPER IN HVAC PLENUMS AND OUTDOORS). CONDENSATE SHALL BE PUMPED AS REQUIRED. INSULATE CONDENSATE PIPES WITH 1" INCH AMARFLEX INSULATION.

21. AFTER CONSTRUCTION, THE ENTIRE HVAC SYSTEM SHALL BE TESTED, ADJUSTED, AND BALANCED IN ACCORDANCE WITH AABC OR NEBB STANDARDS, TO DELIVER THE AIR (AND WATER FLOW) QUANTITIES SHOWN ON THE DRAWINGS. SUBMIT CERTIFIED TEST AND BALANCE REPORT TO ARCHITECT FOR APPROVAL.

22. PROVIDE ACCESS PANELS IN NON-ACCESSIBLE CEILINGS AND IN WALL STRUCTURE TO ALLOW ADEQUATE ROOM FOR MAINTENANCE OF EQUIPMENT AND BALANCING OF SYSTEM. ACCESS PANELS IN CEILING AND WALLS SHALL BE PROVIDED WHERE SHOWN ON THE DRAWINGS OR NECESSARY TO ACCESS DAMPERS, VALVES, ETC. COORDINATE EXACT LOCATION OF ALL ACCESS PANELS WITH THE ARCHITECT DURING THE SHOP DRAWING PROCESS.

23. MOUNT THERMOSTATS AND HUMIDISTATS 4' AFF TO TOP UNLESS NOTED OTHERWISE. PROVIDE CLEAR LOCKING COVER ASSEMBLIES FOR ALL PUBLIC AREA THERMOSTATS AND HUMIDISTATS.

24. ALL ROOFTOP MOUNTED EQUIPMENT SHALL BE INSTALLED LEVEL ON, AND ANCHORED TO, MINIMUM 12" HIGH INSULATED ROOF CURBS. CONTRACTOR SHALL COORDINATE ROOF SLOPE AND ACTUAL CURB HEIGHTS WITH ARCHITECTURAL DRAWINGS. ALL REFERENCES TO ROOF HEIGHTS REFER TO HEIGHTS ABOVE FINISHED ROOF SURFACE.

25. U.N.O. ROOF CURBS SHALL BE CUSTOM CURB OR APPROVED EQUAL (SUBMIT WITH SHOP DRAWINGS). VIBRATION/SOUND ATTENUATING ROOF CURBS (WHERE SCHEDULED OR NOTED) SHALL BE MASON RSC-A (2-1/2") OR EQUAL WITH ACOUSTICAL PACKAGE.

26. LOCATIONS OF GRILLES, REGISTERS, & DIFFUSERS SHOWN ON THE DRAWINGS ARE APPROXIMATE. COORDINATE EXACT LOCATIONS WITH LIGHTS, CEILING GRID, ETC. AND ARCHITECTURAL REFLECTED CEILING PLAN.

27. SLOPE ALL HORIZONTAL GAS FLUE PIPING MINIMUM 1/4"/FT.

28. GAS FLUE PIPING SHALL BE TYPE "B" DOUBLE WALL FLUE, U.L. LISTED, EXCEPT FOR INDUCED OR FORCED DRAFT EQUIPMENT, WHICH SHALL BE METALBESTOS TYPE PS OR EQUAL.

29. PROVIDE MANUAL AIR VENTS AT HIGH POINTS OF ALL RECIRCULATING WATER PIPING SYSTEMS.

30. PIPING AT PUMPS AND EQUIPMENT SHALL BE SUPPORTED SO THAT NO PIPING OR ACCESSORY LOAD IS CARRIED BY THE PUMP OR EQUIPMENT.

31. ALL PIPING ABOVE GRADE SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. PIPING HUNG FROM JOISTS SHALL BE HUNG FROM THE TOP CHORDS OF THE JOISTS.

32. ALL PIPE AND DUCT PENETRATIONS OF FIRE AND/OR SMOKE-RATED ASSEMBLIES SHALL BE FIRE-STOPPED AS REQUIRED TO RESTORE ASSEMBLY TO ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE AS MANUFACTURED BY 3M CO., CP25 CAULK, CS195 COMPOSITE PANEL, FS195 WRAP/STRIP, OR PSS 7900 SERIES SYSTEMS AS RECOMMENDED BY MFG. FOR PARTICULAR APPLICATION, OR EQUIVALENT SYSTEM AS APPROVED BY LOCAL CODE OFFICIALS.

33. MANUAL OVER-RIDE CONTROL (EMERGENCY SHUT-DOWN) SWITCHES FOR ALL HVAC UNITS SHALL BE LOCATED IN LOCKING COVER ADJACENT TO FIRE ALARM ANNUNCIATOR PANEL OR OTHER LOCATION APPROVED BY LOCAL AUTHORITY HAVING JURISDICTION.

34. ROOFTOP HVAC UNITS SHALL BE INSTALLED SUCH THAT ROOF DECK IS COMPLETE AND CONTINUOUS UNDER BOTTOMS OF HVAC UNITS, AND SHALL BE CUT ONLY FOR UNIT SUPPLY AND RETURN OPENINGS. SPACE BETWEEN ROOF DECK AND BOTTOM OF ROOFTOP HVAC UNITS (INSIDE OF ROOF CURBS) SHALL BE FILLED WITH HIGH DENSITY, 6 LBS./CU.FT., ACOUSTICAL INSULATION.

35. DRYER VENTS SHALL BE CONSTRUCTED OF SHEET METAL AS RECOMMENDED IN SMACNA (LATEST EDITION) AND MECHANICAL CODE. INSTALL CLEAN-OUT DOOR IN HEEL OF 90° ELBOWS. DUCT DISCHARGE OPENING SHALL BE REINFORCED TO MAINTAIN SHAPE AND SHALL HAVE REMOVABLE 1/2" X 1/2" BIRD SCREEN. MECHANICAL CONTRACTOR TO PROVIDE BOOSTER FAN AND LINT TRAP FOR ALL THE DRYER PER MANUFACTURER INSTRUCTION INSTALLATION. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER AND CONTROL WIRING AS REQUIRED.

36. DO NOT ROUTE DUCT OR PIPE OVER ELECTRICAL PANELS.

37. LOCATE VALVES/ CONTROL VOLUME DAMPER WITHIN 18"OF CEILING SO THAT THEY ARE WITHIN REACH

38. WHERE THE DUCTWORK PENETRATE THE RATE WALL WHICH NOT REQUIRE FD/FSD. THE CONTRACTOR MUST PROVIDE A MINIMUM 12-INCH-LONG (305 MM) BY 0.060-INCH-THICK (1.52 MM) STEEL SLEEVE. IT SHALL BE CENTERED IN EACH DUCT OPENING. THE SLEEVE SHALL BE SECURED TO BOTH SIDES OF THE WALL AND ALL FOUR SIDES OF THE SLEEVE WITH MINIMUM 11/2-INCH BY 11/2-INCH BY 0.060-INCH (38 MM BY 38 MM BY 1.52 MM) STEEL RETAINING ANGLES. THE RETAINING ANGLES SHALL BE SECURED TO THE SLEEVE AND THE WALL WITH NO. 10 (M5) SCREWS. THE ANNULAR SPACE BETWEEN THE STEEL SLEEVE AND THE WALL OPENING SHALL BE FILLED WITH ROCK (MINERAL) WOOL BATTING ON ALL SIDES.

39. THE CONTRACTOR SHALL VERIFY AND RECEIVE AN APPROVAL FROM THE HVAC SYSTEM'S MANUFACTURER TO ENSURE THE HVAC EQUIPMENT'S PROPER OPERATION AT THE LOCAL WEATHER.

40. THE CONTRACTORS SHALL CONSTRUCT THE MECHANICAL SYSTEM ACCORDING TO MEPG'S MECHANICAL PLANS, CALCULATION, DETAILS AND SPECIFICATION. ALL REQUESTS FOR ALTERNATE MECHANICAL EQUIPMENT AND SOLUTIONS MUST BE SUBMITTED THROUGH REQUEST FOR INFORMATION (RFI)

41. THE CONTRACTOR SHALL REVIEW THE LIFE SAFETY OR FIRE RATED WALL PLANS ON THE ARCHITECT PLANS AND MECHANICAL PLANS TO ENSURE BIDDING PROPER NUMBERS OF FIRE/SMOKER DAMPER AND CEILING RADIANT DAMPERS.

42. THE COMPLETE MECHANICAL SYSTEM MUST BE TESTED, BALANCED, AND COMMISSIONED BY QUALIFIED COMMISSIONER AGENT DURING THE CONSTRUCTION PHASE PRIOR TO FULL OPERATION. FAILURE TO PROPERLY CONDUCT TESTING, BALANCING, AND COMMISSIONING THE MECHANICAL SYSTEM SHALL RESULT IN SYSTEM DYSFUNCTION, WHICH IS FULLY RESPONSIBLE BY THE CONTRACTOR

43. DUCTS AND PIPING SHALL BE DESIGNED AND INSTALLED TO MEET THE REQUIREMENTS OF THE CURRENT EDITION OF THE SMACNA DUCT CONSTRUCTION STANDARDS AND SEISMIC RESTRAINT MANUAL. INSTALLER SHALL HAVE A COPY OF THE MANUAL ON SITE AT TIME OF INSPECTIONS. WHERE DISCREPANCIES OCCUR IN THE FIELD, INSPECTION WILL HAVE JURISDICTION, OR JUSTIFICATION SHALL BE PROVIDED FOR STRUCTURAL REVIEW

44. ENVIRONMENTAL AIR DUCT EXHAUST SHALL TERMINATE NOT LESS THAN 3 FEET (914 MM) FROM A PROPERTY LINE, 10 FEET (3048 MM) FROM A FORCED AIR INLET, AND 3 FEET (914 MM) FROM OPENINGS INTO THE BUILDING. ENVIRONMENTAL EXHAUST DUCTS SHALL NOT DISCHARGE ONTO A PUBLIC WALKWAY. CONTRACTOR TO VERIFY ON PLAN PRIOR BIDING

45. FACTORY-MADE FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET (1524 MM) IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE.

46. PROVIDE REFRIGERANT LEAK DETECTOR IN GUESTROOM NEAR THE FAN COIL UNIT. DETECTORS MUST INTEGRATE WITH THE FCU OPERATION TO TRIGGER AUTOMATIC SHUTDOWN OF THE UNIT AND ACTIVATION OF ALARMS IF A REFRIGERANT LEAK IS DETECTED. AVOID INSTALLATION IN OBSTRUCTED AREAS OR LOCATIONS SUBJECT TO AIRFLOW INTERFERENCE (E.G., NEAR WINDOWS, DOOR...). ENSURE ACCESSIBILITY FOR MAINTENANCE AND TESTING.

47. ONCE THE SENSOR(S) INDICATE NO OCCUPANCY FOR A MINIMUM OF 20 MINUTES, THE FOLLOWING SHALL OCCUR:
A. HVAC TEMPERATURE SETPOINTS ARE RESET TO A HIGHER COOLING AND LOWER HEATING TEMPERATURE PER SECTION C403.7.6.1
HVAC SYSTEM IS NOT COMPLETELY SHUT DOWN, BUT MUST BE SETBACK TO:
- COOLING ≥80°F
- HEATING ≤ 60°F

B. BATHROOM EXHAUST FAN OR ISOLATION DEVICE.
- EXHAUST FAN SHUTS OFF WITHIN 20 MINUTES OF THE ROOM BECOMING UNOCCUPIED PER SECTION C403.7.6.2

COMMERCIAL ENERGY CONSERVATION CODE COMPLIANCE

DRAWINGS: CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE RECORD DRAWINGS OF THE ACTUAL INSTALLATION BE PROVIDED TO THE BUILDING OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER. RECORD DRAWINGS SHALL INCLUDE AS A MINIMUM THE LOCATION AND PERFORMANCE DATA ON EACH PIECE OF EQUIPMENT, GENERAL CONFIGURATION OF DUCT AND PIPE DISTRIBUTION SYSTEM INCLUDING SIZES, AND THE TERMINAL AIR OR WATER DESIGN FLOW RATES.
MANUALS. CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT AN OPERATING MANUAL AND A MAINTENANCE MANUAL BE PROVIDED TO THE BUILDING OWNER OR THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE. THESE MANUALS SHALL BE IN ACCORDANCE WITH INDUSTRY-ACCEPTED STANDARDS (SEE APPENDIX E) AND SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
(a) SUBMITTAL DATA STATING EQUIPMENT SIZE AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
(b) OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, EXCEPT EQUIPMENT NOT FURNISHED AS PART OF THE PROJECT. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
(c) NAMES AND ADDRESSES OF AT LEAST ONE SERVICE AGENCY.
(d) HVAC CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCE DESCRIPTIONS. DESIRED OR FIELD-DETERMINED SET-POINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT CONTROL DEVICES OR, FOR DIGITAL CONTROL SYSTEMS, IN PROGRAMMING COMMENTS.
(e) A COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING SUGGESTED SET-POINTS.

GENERAL NOTE

1. THE CONTRACTORS SHALL CONSTRUCT MEP SYSTEM ACCORDING TO MEPG'S PLANS, CALCULATION, DETAILS AND SPECIFICATION. ALL REQUESTS FOR ALTERNATE MATERIAL, EQUIPMENT AND SOLUTIONS MUST BE SUBMITTED THROUGH REQUEST FOR INFORMATION (RFI). FAILURE TO SUBMIT THE RFI SHALL RESULT IN THE DISAPPROVAL OF CHANGE ORDER (IF ANY) FOR THE PROPOSED ALTERNATE MATERIAL, EQUIPMENT, AND SOLUTION.

2. THE CONTRACTORS ARE REQUIRED TO FOLLOW THE SPECIFIED EQUIPMENT'S INSTALLATION MANUAL FROM THE MANUFACTURE

3. THE CONTRACTORS ARE REQUIRED TO FOLLOW THE LOCAL BUILDING CODE OF AUTHORITY HAVING JURISDICTION.

4. MECHANICAL CONTRACTOR TO INSTALL ROOF TOP UNITS SECURED TO ROOF PER REQUIRED SEISMIC/ WIND LOAD STANDARDS.

5. THE CONTRACTORS ARE REQUIRED TO SUBMIT THEIR VALUED ENGINEERING (IF ANY) TO MEP GREEN DESIGN AND BUILD PLLC FOR ASSESSMENT AND COMMENT/APPROVAL BEFORE EXECUTING THEM ON THE JOB SITE. OTHERWISE, THE CONTRACTORS SHALL HOLD ALL RESPONSIBILITIES REGARDING RESPONDING TO THE INSPECTORS, RESUBMITTING PLANS FOR CITY REAPPROVAL, ETC. DUE TO THE CHANGES MADE ON THE JOB SITE WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD AND OWNER

MECHANICAL SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
	AHU	AIR HANDLING UNIT-VERTICAL
	ACCU CU	AIR COOLED CONDENSING UNIT
	FCU	FAN COIL UNIT-DUCTLESS
	PTAC	PACKAGE AIR-CONDITIONING UNIT
	DOAS	DEDICATED OUTSIDE AIR UNIT
	EF	EXHAUST FAN
	SAD	SUPPLY AIR DIFFUSER
	SR	SIDEWALL SUPPLY REGISTER
	RG/RR	RETURN GRILLE OR REGISTER
	EG/ER	EXHAUST GRILLE
	VCD	VOLUME CONTROL DAMPER
		ROOF CAP
	FD/FSD	FIRE DAMPER/FIRE SMOKE DAMPER
		MANUAL BUTTERFLY DAMPER
		LOUVER FOR COMBUSTION AIR
		FLEXIBLE DUCT
T	T°STAT	WALL MOUNTED THERMOSTAT
S	SD	DUCT MOUNTED SMOKE DETECTOR
H		HEAT DETECTOR
TS		TEMPERATURE SENSOR
P		PRESSURE SENSOR
M	MD	MOTORIZED DAMPER
		RETURN AIR DUCT
		SUPPLY AIR DUCT
		DEDICATED OUTSIDE AIR DUCT
		EXHAUST AIR DUCT
		2 HOUR FIRE RATED
		1 HOUR FIRE RATED

ABBREVIATION	DESCRIPTION
ACCU	AIR COOLED CONDENSING UNIT
AHU	AIR HANDLING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERANT & AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CA	COMBUSTION AIR
CFM	CUBIC FEET PER MINUTE
°F	DEGREES FAHRENHEIT
DIA.	DIAMETER
DF	DUCT FURNACE
EBBH	ELECTRIC BASEBOARD HEATER
EUH	ELECTRIC UNIT HEATER
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
EWB	ENTERING WET BULB TEMPERATURE
EF	EXHAUST FAN
EAD	EXHAUST AIR DUCT
EAL	EXHAUST AIR LOUVER
FPM	FEET PER MINUTE
FD	FIRE DAMPER
FAL	FRESH AIR LOUVER
FLA	FULL LOAD AMPS
GPM	GALLONS PER MINUTE
GC	GENERAL CONTRACTOR
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HP	HORSE POWER
"WC	INCHES WATER COLUMN
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE

ABBREVIATION	DESCRIPTION
LDB	LEAVING DRY BULB TEMPERATURE
LWB	LEAVING WET BULB TEMPERATURE
LRA	LOCKED ROTOR AMP
MC	MECHANICAL CONTRACTOR
MA	MIXED AIR
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
M	ONE THOUSAND
MBH	1000 BTU PER HOUR
OSA	OUTSIDE AIR
OSAT	OUTSIDE AIR TEMPERATURE
PACU	PACKAGE AIR-CONDITIONING UNIT
RA	RETURN AIR
RG	RETURN GRILLE
RR	RETURN REGISTER
RAT	RETURN AIR TEMPERATURE
RPM	REVOLUTIONS PER MINUTE
SMACNA	SHEET METAL & AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
TSP	TOTAL STATIC PRESSURE
SA	SUPPLY AIR
SAG	SUPPLY AIR GRILLE
SR	SUPPLY REGISTER
TΔ	TEMPERATURE DIFFERENCE
TYP.	TYPICAL
UL	UNDERWRITTEN LABORATORIES
VCD	VOLUME CONTROL DAMPER
WSA	WIRE SIZE AMPS

BALANCE AIR CALCULATION

EXHAUST AIR QUANTITIES:

A) TOTAL GUEST ROOM BATH EXHAUST AIR QUANTITIES	– EXH. FAN EF-9:	124	@ 30 CFM	=	3720
B) UNISEX	– EXH. FAN EF-1:	1	@ 50 CFM	=	50
C) ICE MACHINE	– EXH. FAN EF-1.1:	1	@ 150 CFM	=	150
D) LAUNDRY	– EXH. FAN EF-2:	1	@ 250 CFM	=	250
E) FITNESS CENTER	– EXH. FAN EF-4:	1	@ 250 CFM	=	250
F) GUEST LAUNDRY	– EXH. FAN EF-6:	1	@ 100 CFM	=	100
		TOTAL EXHAUST AIR CFM		=	4520

DEDICATED OUTSIDE AIR QUANTITIES AND SOURCE:

A) TOTAL OUTSIDE AIR SERVED FOR GUESTROOMS AND GUEST CORRIDORS: DOAS-1 = 3275, DOAS-2 = 3790

B) TOTAL OUTSIDE AIR SERVED FOR 1ST FLOOR SPLIT AHU UNITS:
AHU-1.1 = 300
AHU-1.2 = 200
AHU-1.3 = 260
AHU-1.4 = 200

TOTAL MAKE-UP AIR CFM = 7600

DEDICATED OUTSIDE AIR SYSTEM > EXHAUST AIR => POSITIVE BUILDING PRESSURIZATION

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JAN. 15, 2026

DUNG D VU LICENSE No. 83005 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
MECHANICAL SPECIFICATIONS & SYMBOLS

SHEET NUMBER:
M1.0

AIR HANDLING UNIT WITH HEAT PUMP SCHEDULE

AIR HANDLING UNIT											HEAT		AUXILIARY HEAT STRIP			CONDENSING UNIT							WEIGHT (LBS)	SEER2
MARK	C.F.M	E.S.P (IN. WC)	FAN H/P	EDB/EWB (°F)	TOTAL CAPACITY (BTU/HR)	VOLTAGE (V/P/HZ)	M.C.A (A)	M.O.C.P (A)	MODEL#	TON	WEIGHT (LBS)	HEATING (BTU/HR)	HSPF2	VOLTAGE (V/P/HZ)	HEATING CAPACITY (KW)	MODEL#	MARK	AMBIENT	CAPACITY (BTU/HR)	STAGES	VOLTAGE (V/P/HZ)	M.C.A (A)	M.O.C.P (A)	MODEL#		
AHU-1.1	1400	0.8	3/4	80/67	48500	208/1/60	29.9	30	CARRIER-FG5ANXC48L	4	164	48500	8.1	208/1/60	3.8	KFFEH0501N05	ACCU-1.1	105	48500	2	208/1/60	31.4	50	CARRIER-27TPA848A003	309	17.0
AHU-1.2	1225	0.6	1/2	80/67	34677	208/1/60	27.5	30	CARRIER-FG5ANXC36L	3	152	37600	8.1	208/1/60	3.8	KFFEH0501N05	ACCU-1.2	105	34677	2	208/1/60	25.7	40	CARRIER-27TPA836A003	260	15.2
AHU-1.3	700	0.6	1/2	80/67	22970	208/1/60	25.9	30	CARRIER-FG5ANXB24L	2	130	24800	8.1	208/1/60	3.8	KFFEH0501N05	ACCU-1.3	105	22970	2	208/1/60	22.1	25	CARRIER-27TPA824A003	241	17.5
AHU-1.4	700	0.6	1/2	80/67	22970	208/1/60	25.9	30	CARRIER-FG5ANXB24L	2	130	24800	8.1	208/1/60	3.8	KFFEH0501N05	ACCU-1.4	105	22970	2	208/1/60	22.1	25	CARRIER-27TPA824A003	241	17.5

MCA = MINIMUM CIRCUIT AMPS C.B. = CIRCUIT BREAKER MOCP = MAXIMUM OVER CURRENT PROTECTION

NOTES:

1. ALL AIR HANDLING UNITS SHALL BE PROVIDED WITH FACTORY INSTALLED HEATER PACKAGES (FUSED CIRCUIT BREAKERS), DISCONNECT SWITCH, TIME-DELAY RELAY, FACTORY-SUPPLIED POWER CORD, 40-VA-TRANSFORMER, PRE-PAINTED GALVANIZED STEEL CABINET WITH R 4.2 INSULATION, MINIMUM 2% CABINET LEAKAGE RATE WHEN TESTED AT 1.0 INCHES OF STATIC PRESSURE, PRIMARY AND SECONDARY DRAIN CONNECTIONS WITH BRASS INSERTS, INSPECTION PLATES FOR CLEANING COIL, FACTORY-SUPPLIED CLEANABLE FILTER FRAME.
2. FURNISH COMMERCIAL PROGRAMMABLE ELECTRONIC THERMOSTATS WITH 7 DAY TIMECLOCK, AUTO CHANGEOVER, MULTI STAGE CAPACITY, AND LARGE LCD TEMPERATURE DISPLAY FOR EACH ZONE.
3. PROVIDE A SMOKE DETECTOR IN THE RETURN DUCT OF EACH UNIT SERVING SHARING ZONE WHICH OVER 2000 CFM. INTERLOCK SMOKE SENSOR DETECTOR WITH FIRE ALARM PANEL AND SHUT DOWN WHEN SMOKE IS DETECTED.
4. THERMOSTATIC CONTROLS SHALL BE CAPABLE OF PROVIDING A TEMPERATURE RANGE OR DEAD BAND OF AT LEAST 3 DEGREES.
5. FURNISH A PROGRAMMABLE THERMOSTAT WITH EACH UNIT.
6. EACH COOLING COIL SHALL BE FURNISHED WITH A MATCHING THERMOSTATIC EXPANSION VALVE (TXV).
7. ALL CONDENSING UNITS SHALL BE FURNISHED WITH CRANKCASE HEATER, LOW AMBIENT KIT & WINTER START CONTROL.
8. OPTIONAL SAFETY DEVICE SHALL INCLUDE H.P. & L.P. CUTOUT SWITCH AND EVAPORATOR FREEZE THERMOSTAT.
9. IN CASE THE DISTANCE BETWEEN INDOOR AND OUTDOOR UNITS EXCEED 60 FEET, THE CONTRACTOR MUST CONTACT THE MANUFACTURE FOR INSTRUCTION.
10. PROVIDE MERV-13 FILTERS, OR MERV-8 FILTERS WITH BIPOLAR IONIZATION, FOR ALL AIR HANDLING UNITS WHICH SERVE MULTI-OCCUPANT SPACES.
11. PROVIDE UNIT WITH CONDENSATE PUMP FOR UNITs LOCATED ABOVE CEILING.

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EXHAUST FAN SCHEDULES

MARK	TYPE	MANUFACTURE	MODEL #	AREA SERVED	MIN. CAPACITY		DRIVE	RPM	ELECTRICAL			INLET SONES	WEIGHT LBS	REMARKS
					C.F.M.	E.S.P.			WATTS	HP	VOLTAGE			
EF-1	CEILING	GREENHECK	SP-AP0511W	UNISEX	50	0.375	DIRECT	0,828	11	--	115/1/60	1.4	10	NOTES #1, 3, 4, 6.
EF-1.1	CEILING	GREENHECK	SP-A390-VG	VENDING	100	0.500	DIRECT	1,223	30	--	115/1/60	4.0	24	NOTES #1, 3, 4, 6.
EF-2	INLINE	GREENHECK	CSP-A390-VG	LAUNDRY EXHAUST	250	0.375	DIRECT	1,168	44	--	115/1/60	1.2	24	NOTES #3, 6.
EF-3	INLINE	GREENHECK	CSP-A710-VG	MECHANICAL	390	0.375	DIRECT	1,143	87	--	115/1/60	0.9	36	NOTES #3, 8.
EF-4	CEILING	GREENHECK	SP-A390-VG	FITNESS	250	0.375	DIRECT	1,459	42	--	115/1/60	4.0	24	NOTES #1, 3, 4, 5.
EF-5	CEILING	GREENHECK	SP-A390-VG	ELECTRICAL-1ST FL	360	0.375	DIRECT	1,409	87	--	115/1/60	5.0	24	NOTES #1, 3, 4, 8.
EF-6	CEILING	GREENHECK	SP-A390-VG	GUEST LAUNDRY	100	0.375	DIRECT	1,063	19	--	115/1/60	3.0	24	NOTES #1, 2, 3, 4.
EF-7	CENTR.	GREENHECK	CUE-090-D	ELEVATOR SHAFT	400	0.500	DIRECT	1,550	--	1/15	115/1/60	7.6	24	NOTES #3, 7, 9.

NOTES:

1. PROVIDE THE FAN WITH A CEILING RADIATION DAMPER IF THE FAN IS INSTALLED ON THE RATED CEILING ASSEMBLIES.
2. INTERLOCK FAN WITH LIGHTING
3. PROVIDE FAN WITH MANUFACTURERS BACKDRAFT DAMPER.
4. PROVIDE FAN WITH OFF-WHITE ALUMINUM GRILLE.
5. FAN WILL RUN INTERLOCK WITH AHU-1.4.
6. FAN WILL RUN CONTINUOUSLY.
7. PROVIDE FAN WITH 14" MANUNFACTURE ROOF CURB.
8. PROVIDE FAN WITH TEMPERATURE SENSOR. (FAN SHALL BE ON WHEN THE TEMPERATURE RISE OVER 80 DEGREES F)
9. PROVIDE FAN WITH APPROVED MOTORIZED DAMPER, THERMOSTAT (FAN SHALL BE ON WHEN THE TEMPERATURE RISE OVER 90 DEGREES F)

PACKAGED TERMINAL AIR CONDITIONER (HEAT PUMP)

MARK	MANUFACTURE	MODEL NO.	AREA SERVED	FAN		COOLING CAPACITY				EER	HEATING CAPACITY				ELECT. HEATER CAPACITY				VOLTAGE	REMARKS
				CFM HI/LOW	MIN. O.S.A.	TOTAL BTU/HR	SENSIBLE BTU/HR	WATTS	AMPS		BTU/HR	C.O.P.	WATTS	AMPS	BTU/HR	WATTS	MCA	MOCP		
PTAC-1	FRIEDRICH	PDH09K3SGR3	GUEST ROOMS	330/282	--	9,400	--	780	3.9	12.1	8,200	3.60	670	4.1	9,900	2,800	19.0	20	208/1/60	SEE NOTE #1,2,3,4,5,6,7,8,9,10,11,12.
PTAC-2	FRIEDRICH	PDH12K3SGR3	GUEST ROOMS	341/306	--	11,800	--	1000	4.9	11.8	10,700	3.46	900	4.3	9,900	2,800	19.0	20	208/1/60	SEE NOTE #1,2,3,4,5,6,7,8,9,10,11,12.

1. PROVIDE WITH FACTORY INSTALLED POWER CORD & SUB-BASE WITH ACCESS PLATES FOR THE MOUNTING OF ELECTRICAL RECEPTACLE.
2. PROVIDE INSTRUCTION PLATE AT UNIT FOR REMOTE T-STAT AT WALL.
3. PROVIDE UNIT WITH REMOTE WALL T-STAT.
4. PROVIDE ARCHITECTURAL OUTDOOR GRILLE, PAINT GRILLE TO MATCH EXTERIOR WALL.
5. PROVIDE INSULATED STEEL WALL SLEEVE MODEL WS900E. WALL SLEEVE, 14 1/8" D X 42" W X 16" H, GALVANIZED STEEL, STONEWOOD BEIGE,INSULATED W/ WEATHER BOARD.
6. PROVIDE INTERNAL CONDENSATE DRAIN KIT.
7. PROVIDE UNIT WITH LOW AMBIENT CONTROL AND LOW AMBIENT LOCKOUT TO LOCKOUT COMPRESSOR BELOW 40°F.
8. FURNISH UNIT WITH 42"W x 16"H x 14 1/8"D WALL CASE.
9. SEE MECHANICAL PLANS FOR EXACT LOCATIONS AND QUANTITIES OF UNITS.
10. T-STAT/REMOTE CONTROL WITH TWO SPEED FAN CONTROL CAPABILITY.
11. PROVIDE UNIT WITH GUESTROOM MANAGEMENT SYSTEM (GRMS). THE SYSTEM MUST INCLUDE CENTRALLY NETWORKED DIGITAL THERMOSTATS WITH INTEGRAL OCCUPANCY SENSOR AND INTERFACE WITH THE ELECTRICAL SYSTEM (PLEASE REFER TO THE GUESTROOM LIGHTING/HVAC CONTROL SYSTEM DIAGRAM ON THE ELECTRICAL PLAN. PROVIDE BRAND/ FRANCHISE APPROVED THERMOSTAT VIA SYSTEM INTEGRATOR SMARTCON SOLUTIONS (sales@smartconsolutions.com / 1-844-633-2412).) AND PROPERTY MANAGEMENT SYSTEM (PMS). MECHANICAL CONTRACTOR TO RESPONSIBLE TO WORK WITH A GRMS INTEGRATOR CONSULTANT FOR INSTALLATION, PROJECT MANAGEMENT, PROCUREMENT, AND COMMISSIONING OF THE GRMS.
12. PROVIDE CORROSION RESISTANCE FOR ALL CONDENSING UNITS EXPOSED TO THE COASTAL ELEMENTS.

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SPLIT DX FANCOIL UNIT SCHEDULES.

INDOOR UNIT												OUTDOOR UNIT							
MARK	MANUFACTURE BASED ON	AREA SERVED	MODEL #	FAN			COOLING CAPACITY	HEAT CAPACITY		ELECTRICAL	APPROX. WEIGHT	CONFIGURATION	MARK	MANUFACTURE BASED ON	MODEL #	NOM. CAPACITY TONS	SEER2	HSPF2	ELECTRICAL			
				C.F.M.	O.S.A.	EXT. S.P.	BTUH/HR	SUPPLEMTL KW	HEAT PUMP BTUH/HR	VOLTAGE									M.C.A	M.O.C.P	VOLTAGE	APPROX. WEIGHT LBS
FCU-1	DAIKIN	PBX	FTKF24AXVJU	754	0	–	21,600	--	--	208/1/60	33	HIGH WALL	CU-1	DAIKIN	RKF24AXVJU	2.0	22	–	19.8	20	208/1/60	132

* INDOOR UNIT POWERED FROM OUTDOOR UNIT.
  MCA = MINIMUM CIRCUIT AMPS
  MOCP = MAXIMUM OVERCURRENT PROTECTION AMPS
* IN CASE THE DISTANCE BETWEEN INDOOR AND OUTDOOR UNITS EXCEED 60 FEET, THE CONTRACTOR MUST CONTACT THE MANUFACTURE FOR INSTRUCTION.
* PROVIDE UNIT WITH CONDENSATE PUMP.

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OUTSIDE AIR CALCULATION PER 2023 FLORIDA BUILDING CODE, MECHANICAL, 8TH EDITION, TABLE 403.3.1.1

OCCUPANCY CATEGORY	FLOOR AREA (Square feet) Az	PEOPLE (Person) Pz	PEOPLE OUTDOOR AIR RATE PER TABLE 403.3.1.1 (CFM/person) Rp	AREA OUTDOOR AIRFLOW RATE PER TABLE 403.3.1.1 (CFM/ Square feet) Ra	OUTSIDE AIR REQUIRED PER FMC CODE (CFM) Vbz	TOTAL OUTSIDE AIR NEEDED (CFM) (A)	OUTSIDE AIR REQUIRED PER LOAD CALCULATION (CFM) (1), (B)	TOTAL OUTSIDE AIR REQUIRED (CFM) (C)	
Lounge 152	677	14	7.5	0.06	146	295	–	300 CFM (AHU-1.1)	
Guest laundry 155	206	5	25	0.12	150				
Vestibule 140	142	–	–	0.06	9	172	–	200 CFM (AHU-1.2)	
Lobby 141	367	15	7.5	0.06	135				
Check in 142	104	3	7.5	0.06	29				
Fitness - 153	346	4	20	0.18	62	252.72	–	260 CFM (AHU-1.3)	
Employee Breakroom 143	153	4	5	0.06	29	197	–	200 CFM (AHU-1.4)	
Linen storage 149	105	–	–	0.12	13				
storage 147	42	–	–	0.12	5				
Laundry 146	230	6	25	0.12	150				
Corridor 1st	970	–	–	0.06	58	399	399	400	
Corridor 2nd	1343	–	–	0.06	81	454	454	460	
Corridor 3rd	1343	–	–	0.06	81	454	454	460	
BOH 3rd	269	–	–	0.06	16	263	263	265	
Corridor 4th	1343	–	–	0.06	81	475	475	475	
BOH 4th	269	–	–	0.06	16	270	270	270	
SINGLE QUEEN/ CONNECT	346	2	5	0.06	31	–	–	35 CFM x (48 ROOMS)	1680
DBQ	368	3	5	0.06	37			40 CFM x (69 ROOMS)	2760
DBQ ADA	460	3	5	0.06	43			45 CFM x (60 ROOMS)	135
SINGLE QUEEN ADA	426	2	5	0.06	36			40 CFM x (4 ROOMS)	160
						TOTAL:		7065	

Vbz = Rp*Pz+ Ra*Az
WHERE:
Pz : ZONE POPULATION: THE NUMBER OF PEOPLE IN THE SPACE OR SPACES IN THE ZONE.
Az : ZONE FLOOR AREA: THE NET OCCUPIABLE FLOOR AREA OF THE SPACE OR SPACES IN THE ZONE.
Rp : PEOPLE OUTDOOR AIR RATE: THE OUTDOOR AIRFLOW RATE REQUIRED PER PERSON FROM TABLE 403.3.1.1.
Ra : AREA OUTDOOR AIR RATE: THE OUTDOOR AIRFLOW RATE REQUIRED PER UNIT AREA FROM TABLE 403.3.1.1.
KEY NOTE:
(1) SEE CLOUD X ON THE SHEET THE HEATING AND COOLING LOAD FOR OUTSIDE AIR
(A): THE OUTSIDE AIR CALCULATION PER THE MECHANICAL CODE REQUIRED (2023 FMC- CHAPTER 403.3.1.1)
(B): THE OUTSIDE AIR CALCULATION BY MECHANICAL HEATING AND COOLING LOAD CALCULATION.
(C): COMPARE TO CHOOSE THE LARGEST VALUE BETWEEN A AND B
THE OUTSIDE AIR CALCULATION BY MECHANICAL LOAD CALCULATION (B) MORE THAN THE MECHANICAL CODE REQUIRED (2023 FMC- CHAPTER 403.3.1.1) (A) => USED THE OUTSIDE AIR RATE PER LOAD CALCULATION

100% DEDICATED OUTSIDE AIR SYSTEM SCHEDULE WITH HEAT RECOVERY

FAN UNIT NO.	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	FAN INFORMATION						ELECTRICAL INFORMATION					COOLING INFORMATION									GAS HEAT INFORMATION				
					BLOWER	TOTAL CFM	MAX OUTSIDE AIR CFM	EXHAUST AIR CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOLT	MCA	MOCP	OUTSIDE AIR		MIXED AIR		LEAVING AIR			CAPACITY		IEER		GAS TYPE	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE
																DB	WB	DB	WB	DB	WB	DP	TOTAL	SENS.						
1	DOAS-1	1	RARTU3-1.300-24-15T-ERV	RUPP AIR SYSTEMS	24MF-3-RTU	3275	3275	2130	3592	2.000	7.50	3	208	92.6A	110A	86.8°F	81.2°F	80.5°F	72.2°F	52.6°F	52.5°F	52.4°F	204.7 MBH	99.3 MBH	18.8	8.3	NATURAL	228227	184864	49°F	7 IN. W.C. - 14 IN. W.C.
2	DOAS-2	1	RARTU3-1.400-24-20T-ERV	RUPP AIR SYSTEMS	24MF-3-RTU	3790	3790	2465	3796	2.000	10.00	3	208	117.1A	125A	86.8°F	81.2°F	80.6°F	72.6°F	51.1°F	51.1°F	51.1°F	256.1 MBH	121.7 MBH	18.2	7.9	NATURAL	264117	213935	49°F	7 IN. W.C. - 14 IN. W.C.

REMARKS:
1. INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL
2. DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE
3. INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER
4. REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE
5. EC MOTOR CONDENSING FANS
6. ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE
7. SUCTION LINE ACCUMULATOR
8. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER
9. AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)
10. 2" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-13 INSULATION-MINIMUM 20GA EXTERIOR W/ 14GA BASE
11. TOTAL ENERGY RECOVERY WHEEL WITH SPEED CONTROLS FOR FROST PROTECTION AND MODULATION TO CAPACITY. INCLUDES SUPPLY AND EXHAUST FILTER & WHEEL MONITORING
12. 81% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 6:1 TURNDOWN WITH NG AND 5:1 TURNDOWN WITH LP
13. EXHAUST CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
14. FILTERED SUPPLY AND EXHAUST AIR STREAMS WITHIN ENERGY RECOVERY VENTILATOR MODULE
15. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
16. FULLY MODULATING HOT GAS REHEAT
17. 15 DEGREE LOW AMBIENT OPERATION
18. E-COATED CONDENSING COIL
19. E-COATED EVAPORATIVE COIL
20. E-COATED REHEAT COIL
21. HAIL GUARD FOR CONDENSING COIL
22. BAROMETRIC RELIEF DAMPER
23. DOWN DISCHARGE/DOWN RETURN
24. MINIMUM ROOM AREA ASSUMED 7.2' SUPPLY DIFFUSER HEIGHT AND IS CALCULATED PER UL60335-2-40 4TH ED. VALUES BASED ON FACTORY CHARGE, ACTUAL SITE CHARGE MAY DIFFER.
25. SCCR RATING OF 10kAMP
26. PROVIDE MERV-13 SECONDARY FILTERS FOR DOAS-1, 2.

Contact Sergio Camarillo @ Technical Sales
346-330-2007 | sergio.camarillo@captiveaire.com

ZONE REGISTER TERMINAL SCHEDULE

TAG	SIZE	CFM	ESP	AREA SEVER	MANUFACTURER
ZRT-1	4"	30	0.20	GUESTROOM	ALDES

NOTES:
1. PLEASE SUPPLY SINGLE-PHASE POWER OF 120 VOLTS AND 60 HZ FOR THE ZRT-1 UNITS
2. PLEASE SUPPLY THE ZRT-1 UNITS WITH THE MANUFACTURER'S MOUNTING KIT.
3. THE ZRT UNIT WILL BE INTERCONNECTED WITH THE OCCUPANCY THERMOSTAT. FOR FURTHER DETAILS, PLEASE REFER TO THE MANUFACTURER'S OPERATING SEQUENCE.
4. ZRT-1 WILL RUN INTERLOCK WITH GUEST ROOM MANAGEMENT SYSTEM (GRMS).

MOTORIZED DAMPER SCHEDULE

TAG	MODEL	MANUFACTURE	SIZE	VOLTAGE (V)	AREA SERVED	NOTE
MD	23 038NO	ALDES	4"	120	GUESTROOM	ALL

NOTE:
1. PLEASE SUPPLY SINGLE-PHASE POWER OF 120 VOLTS AND 60 HZ FOR THE MD UNITS
2. PLEASE SUPPLY THE MD UNITS WITH THE MANUFACTURER'S MOUNTING KIT.
3. THE MD UNIT WILL BE INTERCONNECTED WITH THE OCCUPANCY THERMOSTAT. FOR FURTHER DETAILS, PLEASE REFER TO THE MANUFACTURER'S OPERATING SEQUENCE.
4. MD WILL RUN INTERLOCK WITH GUEST ROOM MANAGEMENT SYSTEM (GRMS).

GRILLE AND REGISTER SCHEDULE

MARK	TYPE	MANUFACTURE	MODEL	DESCRIPTION	OPPOSE BLADE DAMPER (OBD)	MATERIAL	MOUNTING	FINISH	REMARKS
A	SUPPLY AIR DIFFUSER	TITUS	TDC	LOUVERED FACE, 12"x 12" MODULE	YES	STEEL	CEILING	OFF-WHITE	12"x12", PAINT TO MATCH ADJACENT SURFACE.
B	SUPPLY AIR DIFFUSER	TITUS	TDC	LOUVERED FACE, 24"x 24" MODULE	YES	STEEL	CEILING	OFF-WHITE	24"x24", PAINT TO MATCH ADJACENT SURFACE.
C	RETURN AIR GRILLE	TITUS	PAR	PERFORATED, 24"x 24" MODULE	NO	STEEL	CEILING	OFF-WHITE	24"x24", PAINT TO MATCH ADJACENT SURFACE.
D	SUPPLY AIR DIFFUSER	TITUS	300RL	SIDE THROW	YES	STEEL	SIDE	OFF-WHITE	24"x8" . PAINT TO MATCH ADJACENT SURFACE.
E	SUPPLY AIR DIFFUSER	TITUS	300RL	SIDE THROW	YES	STEEL	SIDE	OFF-WHITE	12"x6" . PAINT TO MATCH ADJACENT SURFACE.
F	EXHAUST AIR GRILLE	TITUS	50F	LOUVERED FACE, 12"x 12" MODULE	YES	STEEL	CEILING	OFF-WHITE	12"x12", PAINT TO MATCH ADJACENT SURFACE.
G	SLOT SUPPLY AIR DIFFUSER	TITUS	TBD-80	4' LONG, 2 SLOT, 1-1/2" SLOT WIDTH	YES	STEEL	CEILING	OFF-WHITE	WITH CABLE OPERATED DAMPER

ELECTRIC UNIT HEATER (EUH)

MARK	MANUFACTURER	MODEL NO.	AREA SERVED	AIR FLOW CFM	HEATING CAPACITY			VOLTAGE	REMARKS
					BTU/HR	WATTS	AMPS		
EUH	QMARK	MUH0581	STAIRWELL	350	17,060	5,000	24	208/1/60	NOTES #1, 2, 3.

NOTES: 1. TEMPERATURE RISE 45 DEGREES F.
2. HOUSING MATERIAL 20 ga. STEEL, FINISH POLYESTER POWER COAT.
3. EUH SHALL BE CONTROLLED BY WALL MOUNTED THERMOSTAT.

COMBUSTION AIR ANALYSIS

AREA SERVED	TOTAL GAS INPUT	REQUIRED SIZE OF OPENING STANDARD (SECTION 304 - FMC 2023)	MINIMUM SIZE OF OPENING	PROPOSED LOUVERS
COMM. LAUNDRY	495,000 BTUH	1 SQ. IN. PER 4000 BTUH	124 SQ. IN.	1 NOS OF 24x24

FLEXIBLE DUCT SIZE SCHEDULE

SUPPLY AIR (CFM)	DIFFUSER NECK AND FLEXIBLE DUCT SIZE
0-100	6"ø
101-200	8"ø
201-300	10"ø
301-400	12"ø
401-500	14"ø

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JAN. 15, 2026

DUNG D VU LICENSE No. 83005 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project #: 2502
Issue Date: 01-15-2026
Principal Architect: Sid Parekh
Sr Project Architecture Tech: Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:
No. Description Date

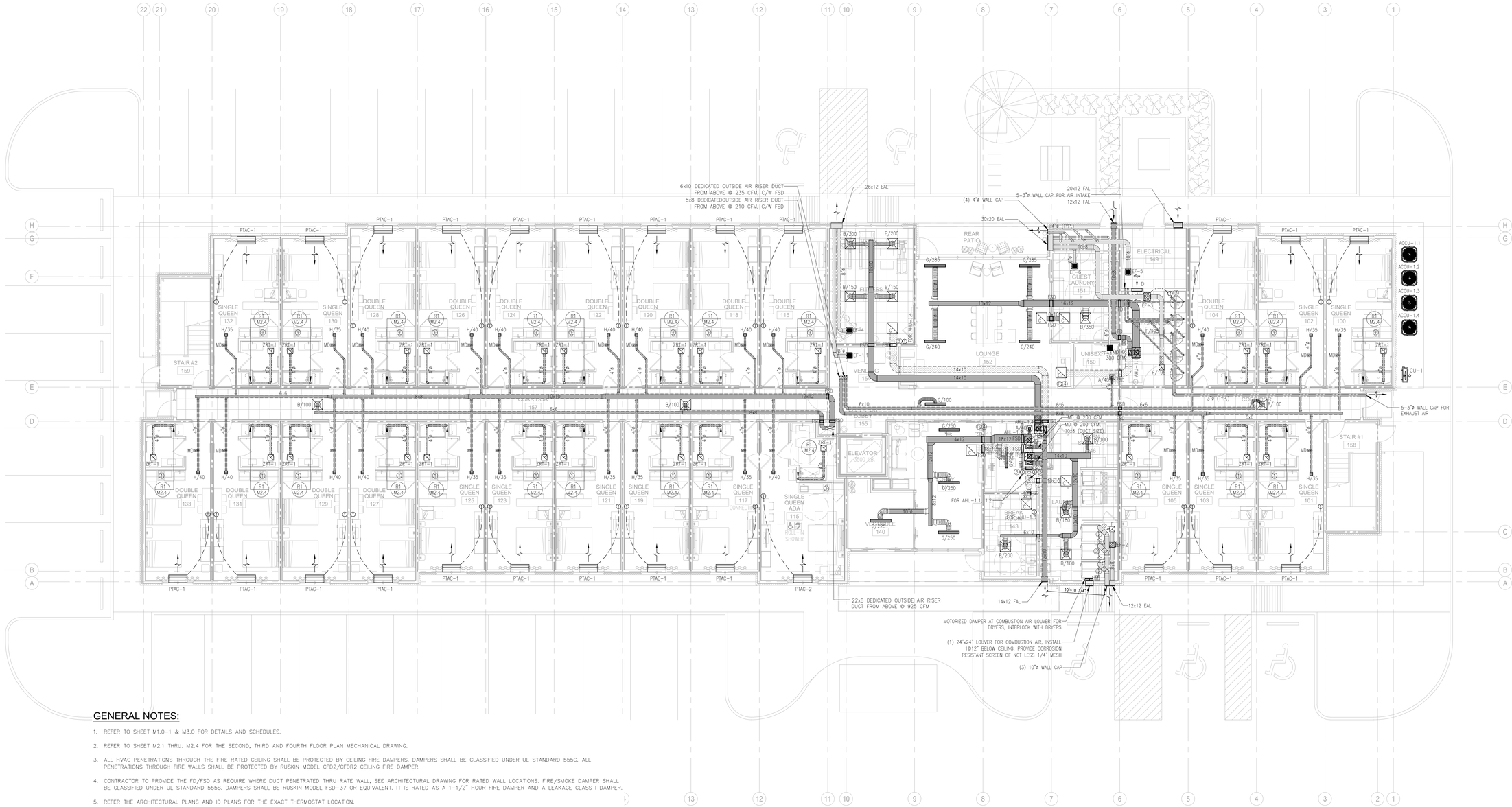
Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
MECHANICAL TECHNICAL SCHEDULES

SHEET NUMBER:
M1.1



GENERAL NOTES:

1. REFER TO SHEET M1.0-1 & M3.0 FOR DETAILS AND SCHEDULES.
2. REFER TO SHEET M2.1 THRU. M2.4 FOR THE SECOND, THIRD AND FOURTH FLOOR PLAN MECHANICAL DRAWING.
3. ALL HVAC PENETRATIONS THROUGH THE FIRE RATED CEILING SHALL BE PROTECTED BY CEILING FIRE DAMPERS. DAMPERS SHALL BE CLASSIFIED UNDER UL STANDARD 555C. ALL PENETRATIONS THROUGH FIRE WALLS SHALL BE PROTECTED BY RUSKIN MODEL CFD2/CFDR2 CEILING FIRE DAMPER.
4. CONTRACTOR TO PROVIDE THE FD/FSD AS REQUIRE WHERE DUCT PENETRATED THRU RATE WALL, SEE ARCHITECTURAL DRAWING FOR RATED WALL LOCATIONS. FIRE/SMOKE DAMPER SHALL BE CLASSIFIED UNDER UL STANDARD 555S. DAMPERS SHALL BE RUSKIN MODEL FSD-37 OR EQUIVALENT. IT IS RATED AS A 1-1/2" HOUR FIRE DAMPER AND A LEAKAGE CLASS I DAMPER.
5. REFER THE ARCHITECTURAL PLANS AND ID PLANS FOR THE EXACT THERMOSTAT LOCATION.
6. CONNECT FULL LINE SIZE CONDENSATE DRAIN FROM EACH PACKAGED AIR CONDENSING UNIT TO THE CONDENSATE RISER. RUN CONDENSATE DRAIN LINES FROM AIR HANDLING UNITS TO THE NEAREST UTILITY SINK OR MOP SINK, OR HUB DRAIN. PROVIDE A P-TRAP AT EACH DRAIN CONNECTION.
7. COMBUSTION AIR SHALL NOT BE OBTAINED FROM A HAZARDOUS LOCATION OR FROM ANY AREA IN WHICH OBJECTIONABLE QUANTITIES OF FLAMMABLE VAPOR, LINT OR DUST ARE RELEASED. COMBUSTION AIR SHALL NOT BE TAKEN FROM A REFRIGERATION MACHINERY ROOM.
8. PROVIDE UV PROTECTIVE COATING/COVERING ON ALL ELASTOMERIC PIPE INSULATION WHERE EXPOSED TO SUNLIGHT.
9. PROVIDE CEILING ACCESS PANELS FOR ALL CEILING-MOUNTED EQUIPMENT. SEE ARCHITECTURAL DRAWINGS FOR ACCESS PANEL REQUIREMENTS IN PUBLIC AREAS.
10. PROVIDE FIRE CAULKING WHEN THE METAL DUCT PENETRATE THE RATED ASSEMBLY.
11. PROVIDE THE SECONDARY DRAIN PANS FOR ALL AHUs THAT ARE HUNG ABOVE THE CEILING.
12. PROVIDE ALDES ZONE REGISTER TERMINAL (ZRT) AT GUESTROOM EXHAUST INLETS AND ALDES MOTORIZED DAMPER AT GUESTROOM MAKE-UP AIR OUTLETS. WITHIN 20 MINUTES WHEN THE GUEST LEAVES THE ROOM, THE ALDES MOTORIZED DAMPER AT THE MAKE-UP AIR AND ZRT AT THE EXHAUST AIR WILL AUTOMATICALLY SHUT OFF.
13. PROVIDE REFRIGERANT PIPES FROM/TO CORRESPONDING CONDENSING UNIT. REFER TO MANUFACTURER FOR INSTRUCTION INSULATION. PROVIDE 1-1/2" AF ARMAFLEX INSULATION AS REQUIRED.
14. PROVIDE THE FSD FOR PENETRATED DUCT WORK THRU RATED FLOOR AND SHAFTS AS REQUIRED. FIRE/SMOKE DAMPER SHALL BE CLASSIFIED UNDER UL STANDARD 555S. DAMPERS SHALL BE RUSKIN MODEL FSD-37 OR EQUAL. IT IS RATED AS A 1-1/2" HOUR FIRE DAMPER AND A LEAKAGE CLASS I DAMPER.
15. PROVIDE CEILING RADIATION DAMPER WHERE THE REGISTER IS INSTALLED ON FIRE RATED CEILING. TYP
16. ALL SUPPLY AND EXHAUST DUCTWORK (26 GA MINIMUM) ON GUEST ROOM LEVELS SHALL BE HARD PIPED. NO FLEXIBLE DUCTWORK ALLOWED FOR FIRE DAMPER EXCEPTION IN FBC 717.5.2 EXCEPTION #3 (FIRE BARRIERS) AND FBC 717.5.4 EXCEPTION #4 (FIRE PARTITIONS).
17. NO FIRE DAMPERS NEEDED AT FIRE PARTITION PENETRATIONS IF COMPLY WITH FBC 717.5.4 EXCEPTION #1 AT CORRIDOR WALLS AND EXCEPTION #4 AT NON-CORRIDOR WALLS.
18. NO FIRE DAMPERS NEEDED AT FIRE BARRIER PENETRATION IF COMPLY WITH FBC 717.5.2 EXCEPTION #3
19. PROVIDE FSD FOR THE SUPPLY/RETURN/EXHAUST AT 2 HOUR RATED PENETRATION FLOOR/CEILING/ROOF/ASSEMBLY AS REQUIRE. REFER TO ARCHITECTURAL PLANS FOR DETAIL.

KEY NOTES:

1. KITCHEN VENTLESS HOOD. REFER TO MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION AND INSULATION REQUIREMENTS. VERIFY SIZE, FEATURES, AND COORDINATION WITH ARCHITECTURAL PLANS, OWNER, AND FRANCHISE REQUIREMENTS PRIOR TO INSTALLATION.
2. MECHANICAL CONTRACTOR TO PROVIDE BOOSTER FAN AND LINT TRAP FOR ALL THE DRYER PER MANUFACTURER INSTRUCTION INSTALLATION. COORDINATE WITH ELECTRICAL CONTRACTOR FOR POWER AND CONTROL WIRING AS REQUIRED. PROVIDE A MEANS OF CLEANOUT FOR EACH DRYER VERTICAL RISER.
3. THERMOSTAT LOCATIONS TO VERIFY WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
4. PROVIDE WALL MOUNTED T-STAT SENSOR AND WIRING BACK TO THE CORRESPONDING T-STAT CONTROLLER IN OFFICE MANAGER. THERMOSTAT LOCATIONS TO VERIFY WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.

AIR BALANCE CALCULATION – FIRST FLOOR

EXHAUST AIR QUANTITIES:

A) TOTAL GUEST ROOM BATH EXHAUST AIR QUANTITIES		19	@ 30 CFM	=	570
B) UNISEX	– EXH. FAN EF-1:	1	@ 50 CFM	=	50
C) ICE MACHINE	– EXH. FAN EF-1,1:	1	@ 100 CFM	=	100
D) FITNESS CENTER	– EXH. FAN EF-4:	1	@ 250 CFM	=	250
F) GUEST LAUNDRY	– EXH. FAN EF-6:	1	@ 100 CFM	=	100
			TOTAL EXHAUST AIR CFM	=	1070

OUTSIDE AIR QUANTITIES AND SOURCE:

A) TOTAL OUTSIDE AIR SERVED FOR GUESTROOMS & GUEST CORRIDORS:	DOAS-1	= 430
	DOAS-2	= 925
B) TOTAL OUTSIDE AIR SERVED FOR 1ST FLOOR SPLIT AHU UNITS:	AHU-1,1	= 300
	AHU-1,2	= 200
	AHU-1,3	= 260
	AHU-1,4	= 200
	TOTAL OUTSIDE AIR CFM	= 2315

DEDICATED OUTSIDE AIR > EXHAUST AIR (10%) => POSITIVE FLOOR PRESSURIZATION

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

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JAN. 15, 2026

DUNG D VU LICENSE No. 83005 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

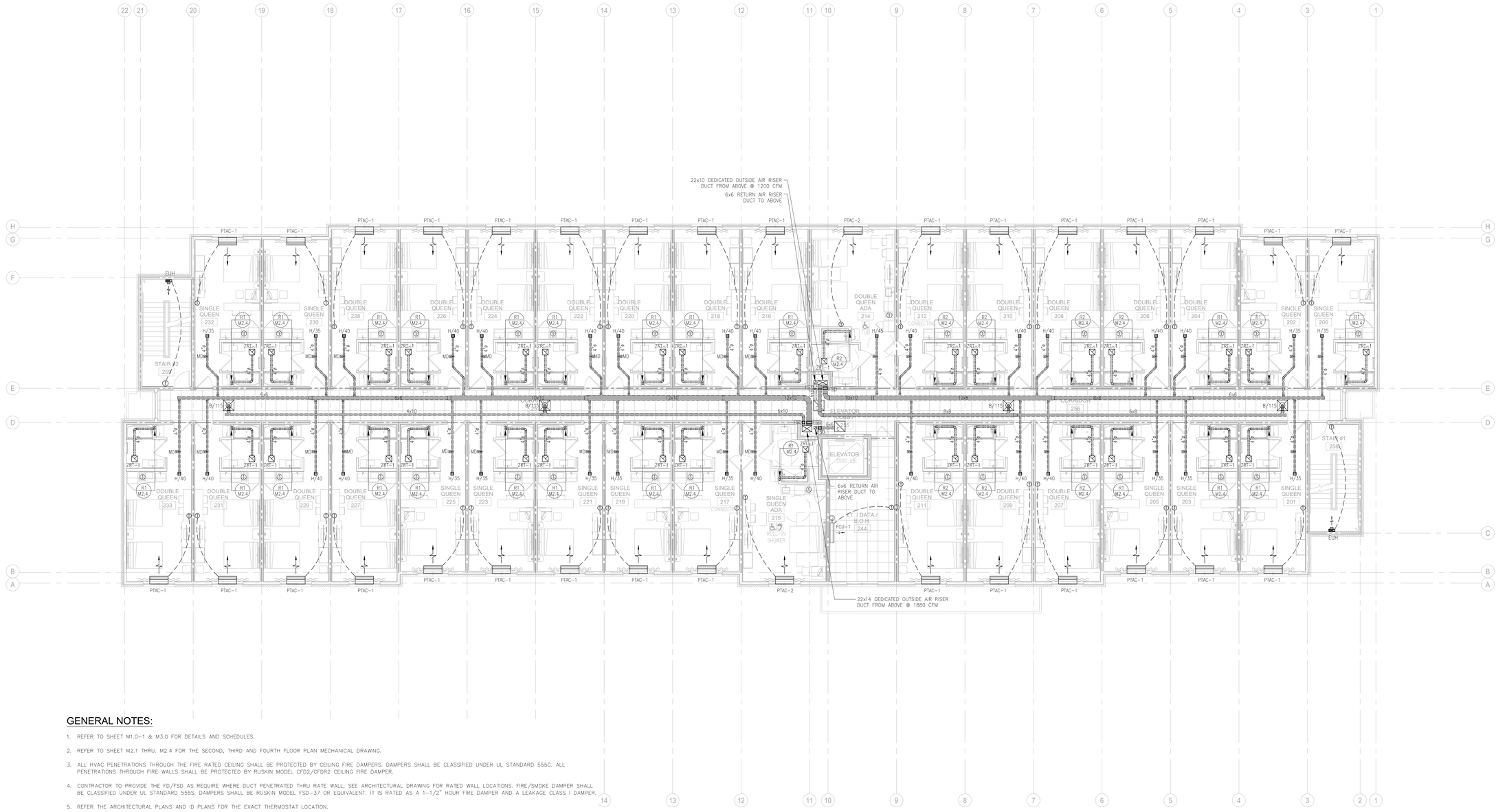
Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
MECHANICAL
FIRST FLOOR PLAN

SHEET NUMBER:
M2.0



GENERAL NOTES:

1. REFER TO SHEET M1.0–1 & M3.0 FOR DETAILS AND SCHEDULES.
2. REFER TO SHEET M2.1 THRU. M2.4 FOR THE SECOND, THIRD AND FOURTH FLOOR PLAN MECHANICAL DRAWING.
3. ALL HVAC PENETRATIONS THROUGH THE FIRE RATED CEILING SHALL BE PROTECTED BY CEILING FIRE DAMPERS. DAMPERS SHALL BE CLASSIFIED UNDER UL STANDARD 555C. ALL PENETRATIONS THROUGH FIRE WALLS SHALL BE PROTECTED BY RUSKIN MODEL CFD2/CFDR2 CEILING FIRE DAMPER.
4. CONTRACTOR TO PROVIDE THE FD/FSD AS REQUIRE WHERE DUCT PENETRATED THRU RATE WALL, SEE ARCHITECTURAL DRAWING FOR RATED WALL LOCATIONS. FIRE/SMOKE DAMPER SHALL BE CLASSIFIED UNDER UL STANDARD 555S. DAMPERS SHALL BE RUSKIN MODEL FSD–37 OR EQUIVALENT. IT IS RATED AS A 1–1/2" HOUR FIRE DAMPER AND A LEAKAGE CLASS I DAMPER.
5. REFER THE ARCHITECTURAL PLANS AND ID PLANS FOR THE EXACT THERMOSTAT LOCATION.
6. CONNECT FULL LINE SIZE CONDENSATE DRAIN FROM EACH PACKAGED AIR CONDENSING UNIT TO THE CONDENSATE RISER. RUN CONDENSATE DRAIN LINES FROM AIR HANDLING UNITS TO THE NEAREST UTILITY SINK OR MOP SINK, OR HUB DRAIN. PROVIDE A P–TRAP AT EACH DRAIN CONNECTION.
7. COMBUSTION AIR SHALL NOT BE OBTAINED FROM A HAZARDOUS LOCATION OR FROM ANY AREA IN WHICH OBJECTIONABLE QUANTITIES OF FLAMMABLE VAPOR, LINT OR DUST ARE RELEASED. COMBUSTION AIR SHALL NOT BE TAKEN FROM A REFRIGERATION MACHINERY ROOM.
8. PROVIDE UV PROTECTIVE COATING/COVERING ON ALL ELASTOMERIC PIPE INSULATION WHERE EXPOSED TO SUNLIGHT.
9. PROVIDE CEILING ACCESS PANELS FOR ALL CEILING–MOUNTED EQUIPMENT. SEE ARCHITECTURAL DRAWINGS FOR ACCESS PANEL REQUIREMENTS IN PUBLIC AREAS.
10. PROVIDE FIRE CAULKING WHEN THE METAL DUCT PENETRATE THE RATED ASSEMBLY.
11. PROVIDE THE SECONDARY DRAIN PANS FOR ALL AHUs THAT ARE HUNG ABOVE THE CEILING.
12. PROVIDE ALDES ZONE REGISTER TERMINAL (ZRT) AT GUESTROOM EXHAUST INLETS AND ALDES MOTORIZED DAMPER AT GUESTROOM MAKE–UP AIR OUTLETS. WITHIN 20 MINUTES WHEN THE GUEST LEAVES THE ROOM, THE ALDES MOTORIZED DAMPER AT THE MAKE–UP AIR AND ZRT AT THE EXHAUST AIR WILL AUTOMATICALLY SHUT OFF.
13. PROVIDE REFRIGERANT PIPES FROM/TO CORRESPONDING CONDENSING UNIT. REFER TO MANUFACTURER FOR INSTRUCTION INSULATION. PROVIDE 1–1/2" AF ARMAFLEX INSULATION AS REQUIRED.
14. PROVIDE THE FSD FOR PENETRATED DUCT WORK THRU RATED FLOOR AND SHAFTS AS REQUIRED. FIRE/SMOKE DAMPER SHALL BE CLASSIFIED UNDER UL STANDARD 555S. DAMPERS SHALL BE RUSKIN MODEL FSD–37 OR EQUAL. IT IS RATED AS A 1–1/2" HOUR FIRE DAMPER AND A LEAKAGE CLASS I DAMPER.
15. PROVIDE CEILING RADIATION DAMPER WHERE THE REGISTER IS INSTALLED ON FIRE RATED CEILING. TYP
16. ALL SUPPLY AND EXHAUST DUCTWORK (26 GA MINIMUM) ON GUEST ROOM LEVELS SHALL BE HARD PIPED. NO FLEXIBLE DUCTWORK ALLOWED FOR FIRE DAMPER EXCEPTION IN FBC 717.5.2 EXCEPTION #3 (FIRE BARRIERS) AND FBC 717.5.4 EXCEPTION #4 (FIRE PARTITIONS).
17. NO FIRE DAMPERS NEEDED AT FIRE PARTITION PENETRATIONS IF COMPLY WITH FBC 717.5.4 EXCEPTION #1 AT CORRIDOR WALLS AND EXCEPTION #4 AT NON–CORRIDOR WALLS.
18. NO FIRE DAMPERS NEEDED AT FIRE BARRIER PENETRATION IF COMPLY WITH FBC 717.5.2 EXCEPTION #3
19. PROVIDE FSD FOR THE SUPPLY/RETURN/EXHAUST AT 2 HOUR RATED PENETRATION FLOOR/CEILING/ROOF/ASSEMBLY AS REQUIRE. REFER TO ARCHITECTURAL PLANS FOR DETAIL.

KEY NOTES:

1. KITCHEN VENTLESS HOOD. REFER TO MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION AND INSULATION REQUIREMENTS. VERIFY SIZE, FEATURES, AND COORDINATION WITH ARCHITECTURAL PLANS, OWNER, AND FRANCHISE REQUIREMENTS PRIOR TO INSTALLATION.
2. PROVIDE FULL SIZE CONDENSATE PIPE TO THE NEAREST APPROVE SANITARY PLUMBING FIXTURE, FLOOR DRAIN, FLOOR SINK, HUB DRAIN OR STORM DRAIN SYSTEM, FOR AHU/FCU FIELD VERIFY AS REQUIRED. CONDENSATE PIPE SHALL BE INSULATED WITH 1" AF ARMAFLEX INSULATION (TYP).
3. THERMOSTAT LOCATIONS TO VERIFY WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.

AIR BALANCE CALCULATION – SECOND FLOOR

EXHAUST AIR QUANTITIES:

A) TOTAL GUEST ROOM BATH EXHAUST AIR QUANTITIES	33 @ 30 CFM =	990
TOTAL EXHAUST AIR CFM =		1070

OUTSIDE AIR QUANTITIES AND SOURCE:

A) TOTAL OUTSIDE AIR SERVED FOR GUESTROOMS & GUEST CORRIDORS:	DOAS–1 =	770
	DOAS–2 =	955
TOTAL OUTSIDE AIR CFM =		1725

DEDICATED OUTSIDE AIR > EXHAUST AIR (10%) => POSITIVE FLOOR PRESSURIZATION

1 MECHANICAL SECOND FLOOR PLAN
SCALE: 1/8"=1'–0"

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JAN. 15, 2026

DUNG D VU LICENSE No. 83005 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project #:	2502
Issue Date:	01–15–2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

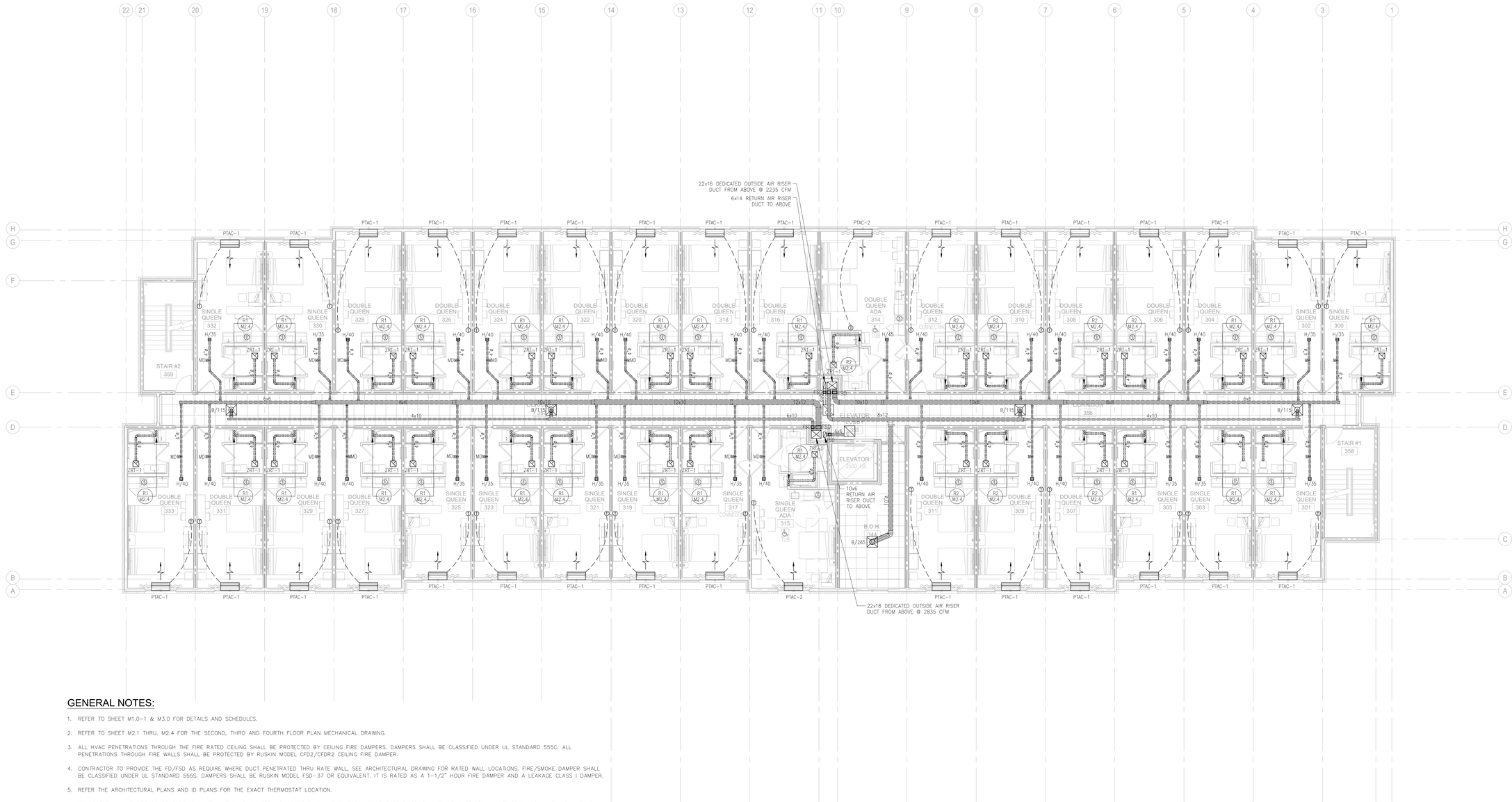
Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
MECHANICAL
SECOND FLOOR PLAN

SHEET NUMBER:
M2.1



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

GENERAL NOTES:

1. REFER TO SHEET M1.0–1 & M3.0 FOR DETAILS AND SCHEDULES.
2. REFER TO SHEET M2.1 THRU. M2.4 FOR THE SECOND, THIRD AND FOURTH FLOOR PLAN MECHANICAL DRAWING.
3. ALL HVAC PENETRATIONS THROUGH THE FIRE RATED CEILING SHALL BE PROTECTED BY CEILING FIRE DAMPERS. DAMPERS SHALL BE CLASSIFIED UNDER UL STANDARD 555C. ALL PENETRATIONS THROUGH FIRE WALLS SHALL BE PROTECTED BY RUSKIN MODEL CFD2/CFDR2 CEILING FIRE DAMPER.
4. CONTRACTOR TO PROVIDE THE FD/FSD AS REQUIRE WHERE DUCT PENETRATED THRU RATE WALL, SEE ARCHITECTURAL DRAWING FOR RATED WALL LOCATIONS. FIRE/SMOKE DAMPER SHALL BE CLASSIFIED UNDER UL STANDARD 555S. DAMPERS SHALL BE RUSKIN MODEL FSD–37 OR EQUIVALENT. IT IS RATED AS A 1–1/2" HOUR FIRE DAMPER AND A LEAKAGE CLASS I DAMPER.
5. REFER THE ARCHITECTURAL PLANS AND ID PLANS FOR THE EXACT THERMOSTAT LOCATION.
6. CONNECT FULL LINE SIZE CONDENSATE DRAIN FROM EACH PACKAGED AIR CONDENSING UNIT TO THE CONDENSATE RISER. RUN CONDENSATE DRAIN LINES FROM AIR HANDLING UNITS TO THE NEAREST UTILITY SINK OR MOP SINK, OR HUB DRAIN. PROVIDE A P–TRAP AT EACH DRAIN CONNECTION.
7. COMBUSTION AIR SHALL NOT BE OBTAINED FROM A HAZARDOUS LOCATION OR FROM ANY AREA IN WHICH OBJECTIONABLE QUANTITIES OF FLAMMABLE VAPOR, LINT OR DUST ARE RELEASED. COMBUSTION AIR SHALL NOT BE TAKEN FROM A REFRIGERATION MACHINERY ROOM.
8. PROVIDE UV PROTECTIVE COATING/COVERING ON ALL ELASTOMERIC PIPE INSULATION WHERE EXPOSED TO SUNLIGHT.
9. PROVIDE CEILING ACCESS PANELS FOR ALL CEILING–MOUNTED EQUIPMENT. SEE ARCHITECTURAL DRAWINGS FOR ACCESS PANEL REQUIREMENTS IN PUBLIC AREAS.
10. PROVIDE FIRE CAULKING WHEN THE METAL DUCT PENETRATE THE RATED ASSEMBLY.
11. PROVIDE THE SECONDARY DRAIN PANS FOR ALL AHUs THAT ARE HUNG ABOVE THE CEILING.
12. PROVIDE ALDES ZONE REGISTER TERMINAL (ZRT) AT GUESTROOM EXHAUST INLETS AND ALDES MOTORIZED DAMPER AT GUESTROOM MAKE–UP AIR OUTLETS. WITHIN 20 MINUTES WHEN THE GUEST LEAVES THE ROOM, THE ALDES MOTORIZED DAMPER AT THE MAKE–UP AIR AND ZRT AT THE EXHAUST AIR WILL AUTOMATICALLY SHUT OFF.
13. PROVIDE REFRIGERANT PIPES FROM/TO CORRESPONDING CONDENSING UNIT. REFER TO MANUFACTURER FOR INSTRUCTION INSULATION. PROVIDE 1–1/2" AF ARMAFLEX INSULATION AS REQUIRED.
14. PROVIDE THE FSD FOR PENETRATED DUCT WORK THRU RATED FLOOR AND SHAFTS AS REQUIRED. FIRE/SMOKE DAMPER SHALL BE CLASSIFIED UNDER UL STANDARD 555S. DAMPERS SHALL BE RUSKIN MODEL FSD–37 OR EQUAL. IT IS RATED AS A 1–1/2" HOUR FIRE DAMPER AND A LEAKAGE CLASS I DAMPER.
15. PROVIDE CEILING RADIATION DAMPER WHERE THE REGISTER IS INSTALLED ON FIRE RATED CEILING. TYP
16. ALL SUPPLY AND EXHAUST DUCTWORK (26 GA MINIMUM) ON GUEST ROOM LEVELS SHALL BE HARD PIPED. NO FLEXIBLE DUCTWORK ALLOWED FOR FIRE DAMPER EXCEPTION IN FBC 717.5.2 EXCEPTION #3 (FIRE BARRIERS) AND FBC 717.5.4 EXCEPTION #4 (FIRE PARTITIONS).
17. NO FIRE DAMPERS NEEDED AT FIRE PARTITION PENETRATIONS IF COMPLY WITH FBC 717.5.4 EXCEPTION #1 AT CORRIDOR WALLS AND EXCEPTION #4 AT NON–CORRIDOR WALLS.
18. NO FIRE DAMPERS NEEDED AT FIRE BARRIER PENETRATION IF COMPLY WITH FBC 717.5.2 EXCEPTION #3
19. PROVIDE FSD FOR THE SUPPLY/RETURN/EXHAUST AT 2 HOUR RATED PENETRATION FLOOR/CEILING/ROOF/ASSEMBLY AS REQUIRE. REFER TO ARCHITECTURAL PLANS FOR DETAIL.

KEY NOTES:

1. KITCHEN VENTLESS HOOD. REFER TO MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION AND INSULATION REQUIREMENTS. VERIFY SIZE, FEATURES, AND COORDINATION WITH ARCHITECTURAL PLANS, OWNER, AND FRANCHISE REQUIREMENTS PRIOR TO INSTALLATION.

AIR BALANCE CALCULATION – THIRD FLOOR

EXHAUST AIR QUANTITIES:

A) TOTAL GUEST ROOM BATH EXHAUST AIR QUANTITIES	33 @ 30 CFM =	990
TOTAL EXHAUST AIR CFM =		1070

OUTSIDE AIR QUANTITIES AND SOURCE:

A) TOTAL OUTSIDE AIR SERVED FOR GUESTROOMS & GUEST CORRIDORS:	DOAS–1 =	770
	DOAS–2 =	955
TOTAL OUTSIDE AIR CFM =		1725

DEDICATED OUTSIDE AIR > EXHAUST AIR (10%) => POSITIVE FLOOR PRESSURIZATION

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JAN. 15, 2026

DUNG D VU LICENSE No. 83005 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project #:	2502
Issue Date:	01–15–2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

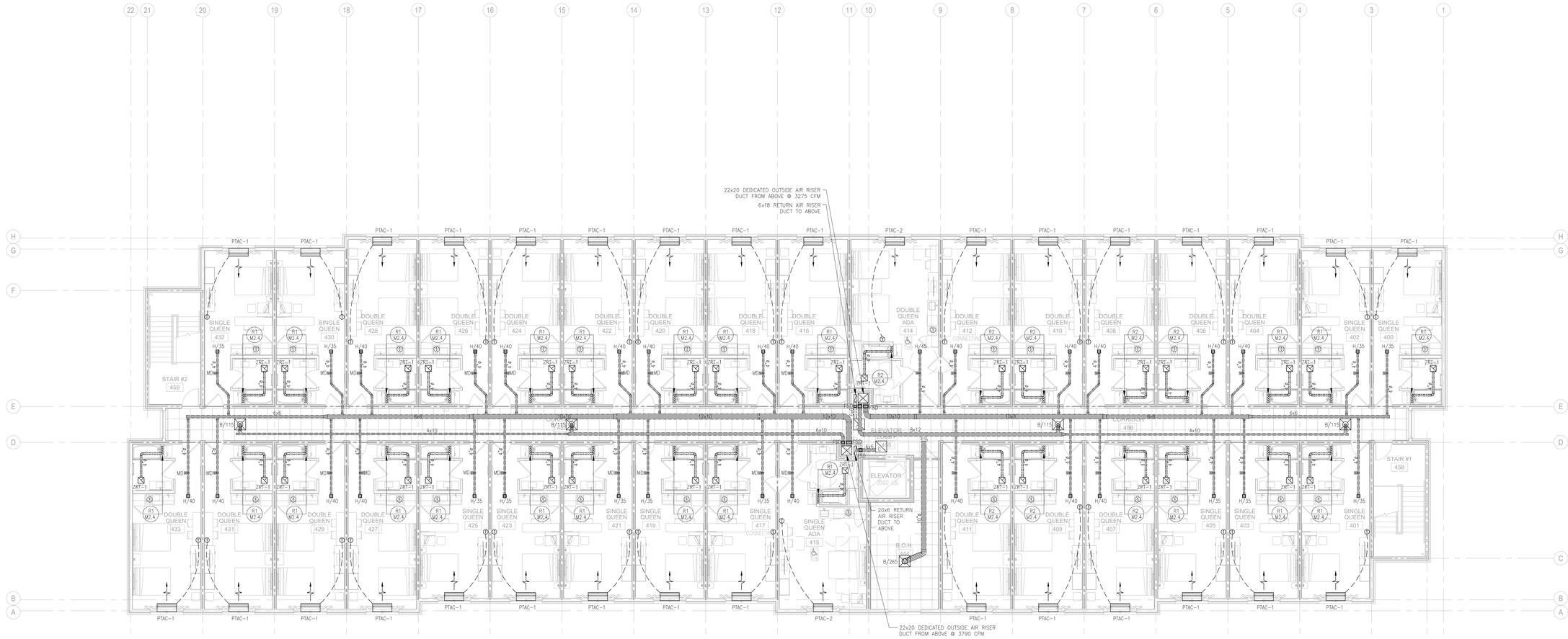
Panama City Beach, FL

??? S Thomas Dr. Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
MECHANICAL
THIRD FLOOR PLAN

SHEET NUMBER:
M2.2



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

GENERAL NOTES:

1. REFER TO SHEET M1.0-1 & M3.0 FOR DETAILS AND SCHEDULES.
2. REFER TO SHEET M2.1 THRU. M2.4 FOR THE SECOND, THIRD AND FOURTH FLOOR PLAN MECHANICAL DRAWING.
3. ALL HVAC PENETRATIONS THROUGH THE FIRE RATED CEILING SHALL BE PROTECTED BY CEILING FIRE DAMPERS. DAMPERS SHALL BE CLASSIFIED UNDER UL STANDARD 555C. ALL PENETRATIONS THROUGH FIRE WALLS SHALL BE PROTECTED BY RUSKIN MODEL CFD2/CFDR2 CEILING FIRE DAMPER.
4. CONTRACTOR TO PROVIDE THE FD/FSD AS REQUIRE WHERE DUCT PENETRATED THRU RATE WALL, SEE ARCHITECTURAL DRAWING FOR RATED WALL LOCATIONS. FIRE/SMOKE DAMPER SHALL BE CLASSIFIED UNDER UL STANDARD 555S. DAMPERS SHALL BE RUSKIN MODEL FSD-37 OR EQUIVALENT. IT IS RATED AS A 1-1/2" HOUR FIRE DAMPER AND A LEAKAGE CLASS I DAMPER.
5. REFER THE ARCHITECTURAL PLANS AND ID PLANS FOR THE EXACT THERMOSTAT LOCATION.
6. CONNECT FULL LINE SIZE CONDENSATE DRAIN FROM EACH PACKAGED AIR CONDENSING UNIT TO THE CONDENSATE RISER. RUN CONDENSATE DRAIN LINES FROM AIR HANDLING UNITS TO THE NEAREST UTILITY SINK OR MOP SINK, OR HUB DRAIN. PROVIDE A P-TRAP AT EACH DRAIN CONNECTION.
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9. PROVIDE CEILING ACCESS PANELS FOR ALL CEILING-MOUNTED EQUIPMENT. SEE ARCHITECTURAL DRAWINGS FOR ACCESS PANEL REQUIREMENTS IN PUBLIC AREAS.
10. PROVIDE FIRE CAULKING WHEN THE METAL DUCT PENETRATE THE RATED ASSEMBLY.
11. PROVIDE THE SECONDARY DRAIN PANS FOR ALL AHUs THAT ARE HUNG ABOVE THE CEILING.
12. PROVIDE ALDES ZONE REGISTER TERMINAL (ZRT) AT GUESTROOM EXHAUST INLETS AND ALDES MOTORIZED DAMPER AT GUESTROOM MAKE-UP AIR OUTLETS. WITHIN 20 MINUTES WHEN THE GUEST LEAVES THE ROOM, THE ALDES MOTORIZED DAMPER AT THE MAKE-UP AIR AND ZRT AT THE EXHAUST AIR WILL AUTOMATICALLY SHUT OFF.
13. PROVIDE REFRIGERANT PIPES FROM/TO CORRESPONDING CONDENSING UNIT. REFER TO MANUFACTURER FOR INSTRUCTION INSULATION. PROVIDE 1-1/2" AF ARMAFLEX INSULATION AS REQUIRED.
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17. NO FIRE DAMPERS NEEDED AT FIRE PARTITION PENETRATIONS IF COMPLY WITH FBC 717.5.4 EXCEPTION #1 AT CORRIDOR WALLS AND EXCEPTION #4 AT NON-CORRIDOR WALLS.
18. NO FIRE DAMPERS NEEDED AT FIRE BARRIER PENETRATION IF COMPLY WITH FBC 717.5.2 EXCEPTION #3
19. PROVIDE FSD FOR THE SUPPLY/RETURN/EXHAUST AT 2 HOUR RATED PENETRATION FLOOR/CEILING/ROOF/ASSEMBLY AS REQUIRE. REFER TO ARCHITECTURAL PLANS FOR DETAIL.

KEY NOTES:

1. KITCHEN VENTLESS HOOD. REFER TO MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION AND INSULATION REQUIREMENTS. VERIFY SIZE, FEATURES, AND COORDINATION WITH ARCHITECTURAL PLANS, OWNER, AND FRANCHISE REQUIREMENTS PRIOR TO INSTALLATION.

AIR BALANCE CALCULATION – FOURTH FLOOR

EXHAUST AIR QUANTITIES:

A) TOTAL GUEST ROOM BATH EXHAUST AIR QUANTITIES	33 @ 30 CFM =	990
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OUTSIDE AIR QUANTITIES AND SOURCE:

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JAN. 15, 2026

DUNG D VU LICENSE No. 83005 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

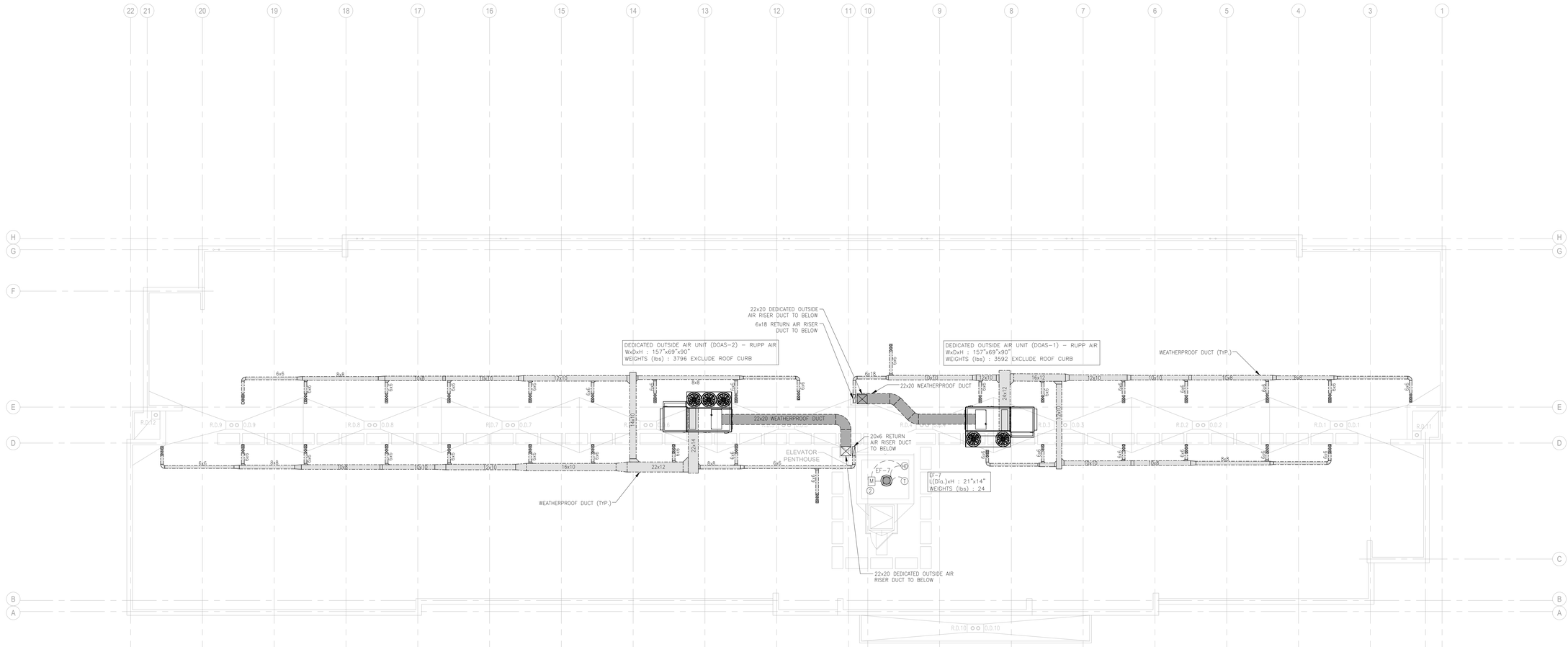
Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

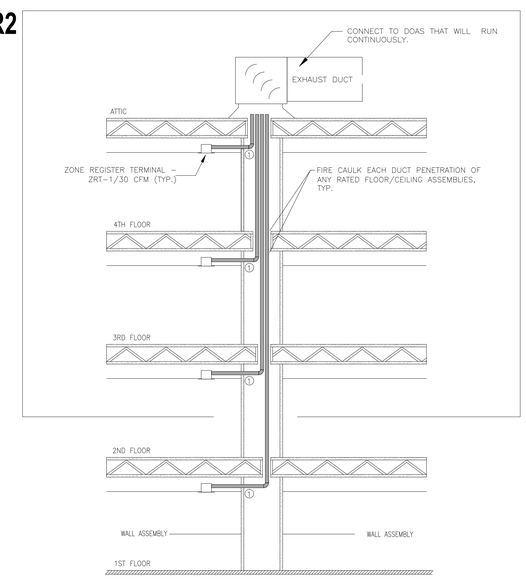
SHEET TITLE:
MECHANICAL
FOURTH FLOOR PLAN

SHEET NUMBER:
M2.3



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

R2



R1 EXHAUST RISER
SCALE: N.T.S

GENERAL NOTES

1. ALL ROOF MOUNTED HVAC EQUIPMENT, INCLUDING BUT NOT LIMITED TO EXHAUST FANS, CONDENSING UNITS, AND ROOF-TOP UNITS, SHALL BE A MINIMUM OF 10' FROM THE ROOF'S EDGE, OR PARAPET, UNLESS OTHERWISE NOTED ON PLANS. IN SUCH CASE, CONTRACTOR SHALL COORDINATE WITH ARCHITECT TO PROVIDE SAFETY HANDRAILS AROUND ROOF MOUNTED HVAC EQUIPMENT THAT IS LOCATED LESS THAN 10' FROM ROOF'S EDGE, OR PARAPET.
2. ALL EXPOSED DUCT WORK ON ROOF SHALL BE INSULATED WITH MINIMUM R-8 INSULATION. PROVIDE WEATHER HOOD/ ALUMINUM HOUSE JACKETING AS REQUIRED.
3. PROVIDE TRANSITION AS REQUIRED TO CONNECT THE EXHAUST DUCT TO DOAS ON THE ROOF. FIELD VERIFY EXACT LOCATION AT SITE.
4. PROVIDE THE FSD AT THE RATED ROOF/CEILING ASSEMBLY FROM DOAS AS REQUIRED. FIELD VERIFY AT FIELD.

NOTES (TOILET EXHAUST RISER):

1. FBC SECTION 717.6.1 THROUGH PENETRATIONS: IN OCCUPANCIES OTHER THAN GROUPS I-2 AND I-3, A DUCT CONSTRUCTED OF APPROVED MATERIALS IN ACCORDANCE WITH SECTION 603 THAT PENETRATES A FIRE-RESISTANCE-RATED FLOOR/CEILING ASSEMBLY THAT CONNECTS NOT MORE THAN TWO STORIES IS PERMITTED WITHOUT SHAFT ENCLOSURE PROTECTION PROVIDED THAT A LISTED FIRE DAMPER IS INSTALLED AT THE FLOOR LINE OR THE DUCT IS PROTECTED IN ACCORDANCE WITH SECTION 714.4 OF THE IBC. EXCEPTIONS TO THIS CODE ARE AS FOLLOWS:
DUCT IS PERMITTED TO PENETRATE THREE FLOORS OR LESS WITHOUT A FIRE DAMPER AT EACH FLOOR PROVIDE IT MEETS ALL OF THE FOLLOWING REQUIREMENTS:
   A) THE DUCT SHALL BE CONTAINED AND LOCATED WITHIN THE CAVITY OF A WALL AND SHALL BE CONSTRUCTED OF STEEL NOT LESS THAN 0.019 INCH (26 GAGE) IN THICKNESS.
   B) THE DUCT SHALL OPEN INTO ONLY ONE DWELLING UNIT OR SLEEPING UNIT AND THE DUCT SYSTEM SHALL BE CONTINUOUS FROM THE UNIT TO THE EXTERIOR OF THE BUILDING.
   C) THE DUCT SHALL NOT EXCEED 4-INCH NOMINAL DIAMETER AND THE TOTAL AREA OF SUCH DUCTS SHALL NOT EXCEED 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF THE FLOOR AREA.
   D) THE ANNULAR SPACE AROUND THE DUCT IS PROTECTED WITH MATERIALS THAT PREVENT THE PASSAGE OF FLAME AND HOT GASES SUFFICIENT TO IGNITE COTTON WASTE WHERE SUBJECTED TO ASTME 119 TIME- TEMPERATURE CONDITIONS UNDER A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER AT THE LOCATION OF THE PENETRATION FOR THE TIME PERIOD EQUIVALENT TO THE FIRE-RESISTANCE RATING OF THE CONSTRUCTION PENETRATED. WCS
   E) GRILLE OPENINGS LOCATED IN A CEILING OF A FIRE-REISISTENCE-RATED FLOOR/CEILING OR ROOF/CEILING ASSEMBLY SHALL BE PROTECTED WITH A LISTED CEILING RADIATION DAMPER INSTALLED IN ACCORDANCE WITH SECTION 717.6.2. IF CEILING IS NOT RATED, CRD WILL NOT BE REQUIRED.
2. SMOKE DAMPERS ARE NOT REQUIRED TO BE INSTALLED IN THIS APPLICATION.
3. SEE FLOOR PLANS FOR ROUTING. COORDINATE EXACT LOCATIONS OF DUCTWORK IN WALLS WITH PLUMBING PIPING AND STRUCTURE.
4. PROVIDE TRANSITION AS NECESSARY TO CONNECT DUCT WORK TO EXHAUST FAN ON ROOF. FIELD VERIFY EXACT LOCATION AT SITE.

KEY NOTES:

1. THE CONTRACTOR MUST PROTECT THE ANNULAR SPACE ROUND THE DUCT WITH MATERIALS THAT PREVENT THE PASSAGE OF FLAME AND HOT GASES SUFFICIENT TO IGNITE COTTON WASTE WHEN SUBJECTED TO ASTM E 119 OR UL 263 TIME-TEMPERATURE CONDITIONS UNDER A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER AT THE LOCATION OF THE PENETRATION FOR THE TIME PERIOD EQUIVALENT TO THE FIRE-RESISTANCE RATING OF THE CONSTRUCTION PENETRATED.
2. INTERLOCKED HEAT DETECTOR AND ELEVATOR LOBBY SMOKE DETECTORS WITH MOTORIZED DAMPER TO CLOSE, AND SHUT OFF THE FAN UPON ACTIVATION OF ANY OF THESE DEVICES.

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JAN. 15, 2026

DUNG D VU LICENSE No. 83005 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project #	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

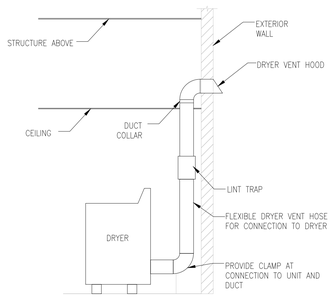
Panama City Beach, FL

777 S Thomas Dr, Panama City Beach, FL 32408, USA

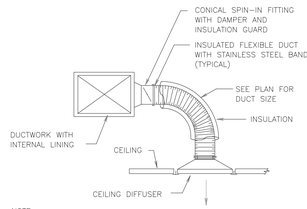
STUDIO**RES**

SHEET TITLE:
MECHANICAL ROOF PLAN

SHEET NUMBER:
M2.4

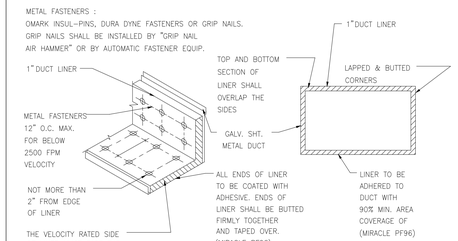


17 DRYER VENT DETAIL
SCALE: NTS

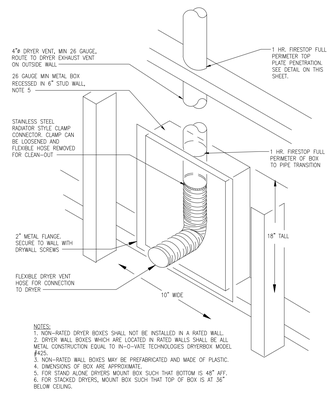


NOTE:
FLEXIBLE DUCT INSULATION SHALL BE TAPED TO MAIN DUCT AND TO BACK OF CEILING DIFFUSER. INSULATION SHALL COVER SPIN-IN FITTING AND FLUSH WITH THE BACK OF DIFFUSER.

16 FLEXIBLE DUCT CONNECTION DETAIL
SCALE: NTS

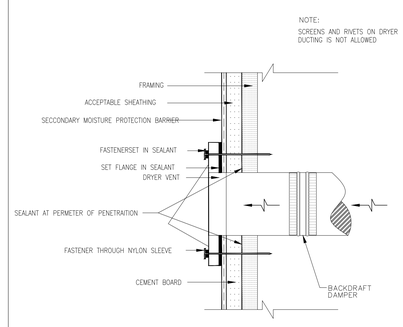


15 DUCT LINER DETAIL
SCALE: NTS

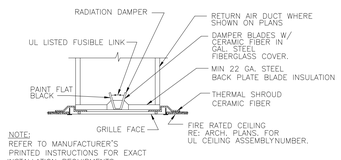


NOTES:
1. NON-RATED DRYER BOXES SHALL NOT BE INSTALLED IN A RATED WALL.
2. DRYER WALL BOXES WHICH ARE LOCATED IN RATED WALLS SHALL BE ALL METAL CONSTRUCTION EQUAL TO IN-O-VATE TECHNOLOGIES DRYERBOX MODEL #435.
3. NON-RATED WALL BOXES MAY BE PREFABRICATED AND MADE OF PLASTIC.
4. DIMENSIONS OF BOX ARE APPROXIMATE.
5. FOR STAND ALONE DRYERS MOUNT BOX SUCH THAT BOTTOM IS 48" AFF.
6. FOR STACKED DRYERS, MOUNT BOX SUCH THAT TOP OF BOX IS AT 36" BELOW CEILING.

14 DRYER WALL BOX DETAIL
SCALE: NTS

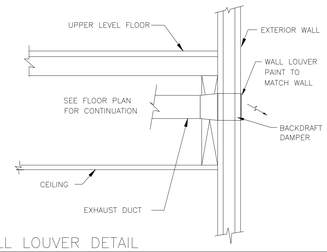


13 DRYER WALL CAP DETAIL
SCALE: NTS

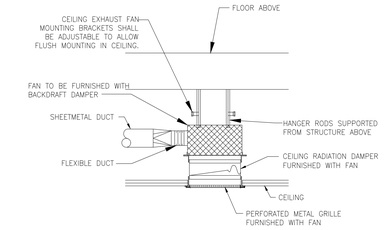


NOTE:
REFER TO MANUFACTURER'S PRINTED INSTRUCTIONS FOR EXACT INSTALLATION REQUIRMENTS

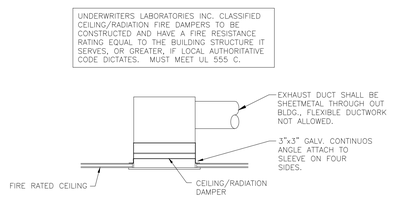
12 FIRE RATED R/A GRILLE DETAIL
SCALE: NTS



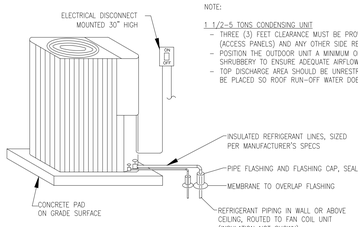
11 WALL LOUVER DETAIL
SCALE: NTS



10 CEILING EXHAUST FAN DETAIL
SCALE: NTS

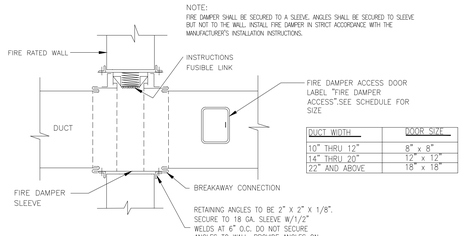


9 CEILING/RADIATION FIRE DAMPER DETAIL
SCALE: NTS



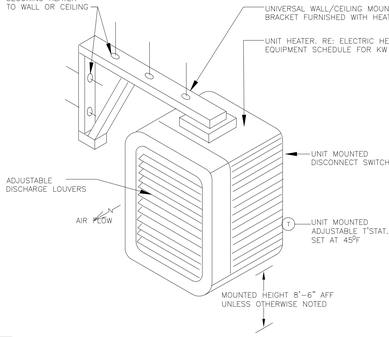
NOTE:
1 1/2-5 TONS CONDENSING UNIT
- THREE (3) FEET CLEARANCE MUST BE PROVIDED IN FRONT OF THE CONTROL BOX (ACCESS PANELS) AND ANY OTHER SIDE REQUIRING SERVICE.
- POSITION THE OUTDOOR UNIT A MINIMUM OF 12" FROM ANY WALL OR SURROUNDING SHRUBBERY TO ENSURE ADEQUATE AIRFLOW.
- TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR 100" MINIMUM. UNIT SHOULD BE PLACED SO ROOF RUN-OFF WATER DOES NOT POUR DIRECTLY ON UNIT

8 CONDENSER UNIT SLAB @ GRADE DETAIL
SCALE: NTS

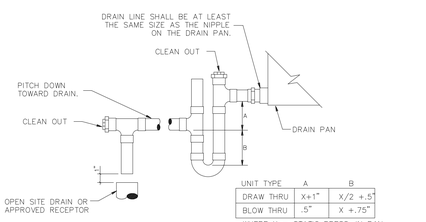


DUCT WIDTH	DOOR SIZE
10" THRU 12"	8" x 8"
14" THRU 20"	12" x 12"
22" AND ABOVE	18" x 18"

7 FIRE DAMPER AT WALL DETAIL
SCALE: NTS



6 ELECTRIC UNIT HEATER DETAIL
SCALE: NTS

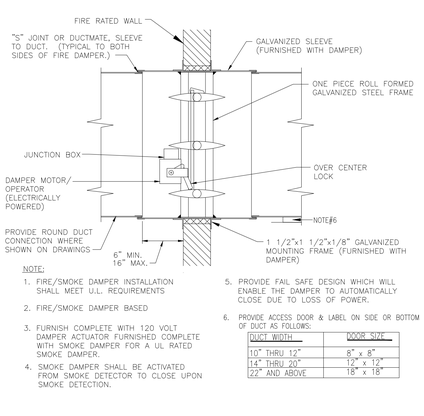


UNIT TYPE	A	B
DRAW THRU	X+1"	X/2 +.5"
BLOW THRU	.5"	X +.75"

WHERE X = STATIC PRESS. IN PAN

NOTES:
1. COIL MUST BE MOUNTED HIGH ENOUGH TO PERMIT TRAP TO BE INSTALLED.
2. PROVIDE SHIMS OR STRUCTURAL PLATFORMS REQUIRED TO ELEVATE FACTORY PACKAGED AIR HANDLING UNITS TO OBTAIN REQUIRED TRAP HEIGHT.

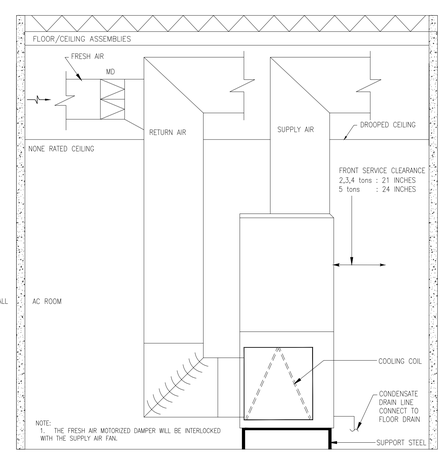
5 AIR HANDLING UNIT DRAIN TRAP DETAIL
SCALE: NTS



NOTE:
1. FIRE/SMOKE DAMPER INSTALLATION SHALL MEET U.L. REQUIREMENTS
2. FIRE/SMOKE DAMPER BASED
3. FURNISH COMPLETE WITH 120 VOLT DAMPER ACTUATOR FURNISHED COMPLETE WITH SMOKE DAMPER FOR A UL RATED SMOKE DAMPER.
4. SMOKE DAMPER SHALL BE ACTIVATED FROM SMOKE DETECTOR TO CLOSE UPON SMOKE DETECTION.
5. PROVIDE FAIL SAFE DESIGN WHICH WILL ENABLE THE DAMPER TO AUTOMATICALLY CLOSE DUE TO LOSS OF POWER.
6. PROVIDE ACCESS DOOR & LABEL ON SIDE OR BOTTOM OF DUCT AS FOLLOWS:

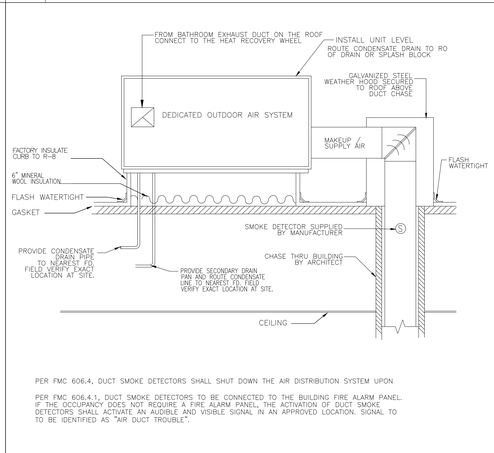
DUCT WIDTH	DOOR SIZE
10" THRU 12"	8" x 8"
14" THRU 20"	12" x 12"
22" AND ABOVE	18" x 18"

4 FIRE/SMOKE DAMPER DETAIL
SCALE: NTS



NOTE:
1. THE FRESH AIR MOTORIZED DAMPER WILL BE INTERLOCKED WITH THE SUPPLY AIR FAN.

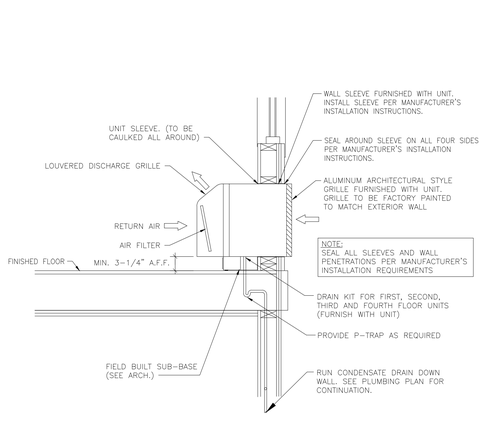
3 AHUs VERTICAL MOUNTING DETAIL
SCALE: NTS



PER FMC 606.4, DUCT SMOKE DETECTORS SHALL SHUT DOWN THE AIR DISTRIBUTION SYSTEM UPON

PER FMC 606.4.1, DUCT SMOKE DETECTORS TO BE CONNECTED TO THE BUILDING FIRE ALARM PANEL. IF THE OCCUPANCY DOES NOT REQUIRE A FIRE ALARM PANEL, THE ACTIVATION OF DUCT SMOKE DETECTORS SHALL ACTIVATE AN AUDIBLE AND VISIBLE SIGNAL IN AN APPROVED LOCATION. SIGNAL TO TO BE IDENTIFIED AS "AIR DUCT TROUBLE".

2 DEDICATED OUTDOOR AIR SYSTEM
SCALE: NTS



NOTE:
SEAL ALL SLEEVES AND WALL PENETRATIONS PER MANUFACTURER'S INSTALLATION REQUIREMENTS

1 PACKAGED TERMINAL A/C UNIT DETAIL
SCALE: NTS

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JAN. 15, 2026

DUNG D. VU LICENSE No. 83005 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

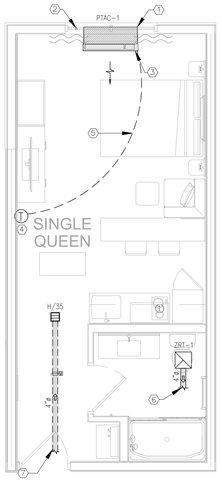
Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

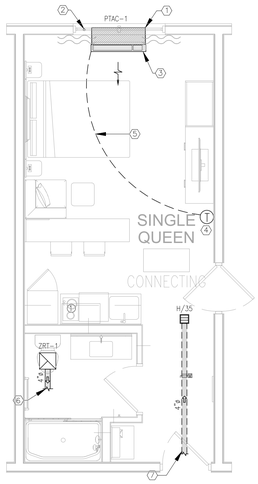
STUDIO**RES**

SHEET TITLE:
MECHANICAL INSTALLATION DETAILS

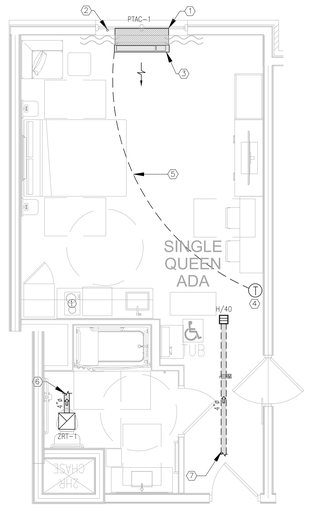
SHEET NUMBER:
M3.0



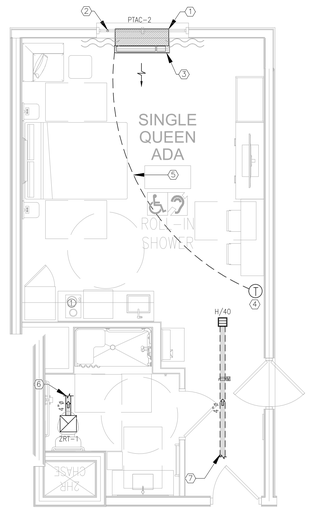
1 SINGLE QUEEN
SCALE: 1/4"=1'-0"



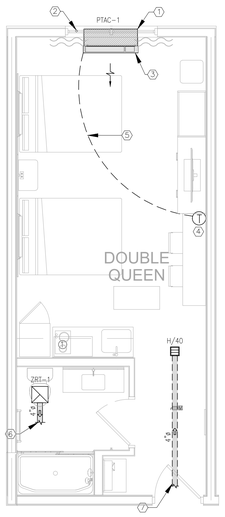
2 SINGLE QUEEN CONNECTING
SCALE: 1/4"=1'-0"



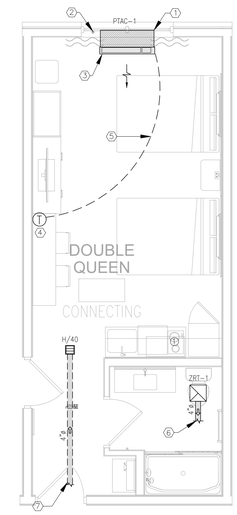
3 SINGLE QUEEN ADA (TUB)
SCALE: 1/4"=1'-0"



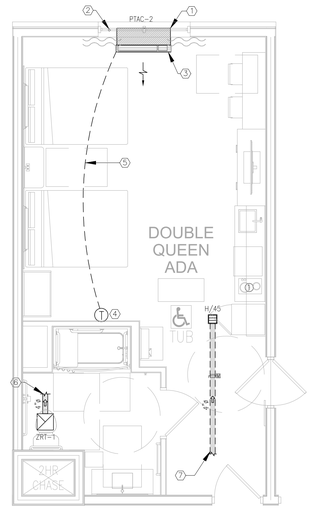
4 SINGLE QUEEN ADA (ROLL-IN SHOWER)
SCALE: 1/4"=1'-0"



5 DOUBLE QUEEN
SCALE: 1/4"=1'-0"



6 DOUBLE QUEEN CONNECTING
SCALE: 1/4"=1'-0"



7 DOUBLE QUEEN ADA
SCALE: 1/4"=1'-0"

KEY NOTES:

1. ARCHITECTURAL WALL GRILLE FURNISHED WITH UNIT. GRILLE PAINTED TO MATCH EXTERIOR WALL (TYPICAL FOR ALL PTAC UNITS).
2. SEE PLUMBING DRAWINGS FOR CONDENSATE DRAIN PIPING (TYPICAL FOR ALL PTAC UNITS).
3. PACKAGED TERMINAL A/C UNIT (PTAC). SEE DETAIL ON M3.0 FOR INSTALLATION DETAIL.
4. THE THERMOSTAT SHALL BE MOUNTED AT 48" AFF IN ALL ADA/ACCESSIBLE GUESTROOM AND 54" AFF IN ALL NON-ACCESSIBLE GUESTROOM. REFER THE ARCHITECTURAL PLANS AND ID PLANS FOR THE EXACT THERMOSTAT LOCATION.
5. THERMOSTAT CONTROL CONDUIT AND CONTROL WIRING.
6. METAL EXHAUST DUCT ABOVE CEILING. SEE MECHANICAL FLOOR PLAN FOR CONTINUATION.
7. METAL MAKE UP AIR DUCT ABOVE CEILING. SEE MECHANICAL FLOOR PLAN FOR CONTINUATION.

KEY NOTES:

1. KITCHEN VENTLESS HOOD. REFER TO MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION AND INSULATION REQUIREMENTS. VERIFY SIZE, FEATURES, AND COORDINATION WITH ARCHITECTURAL PLANS, OWNER, AND FRANCHISE REQUIREMENTS PRIOR TO INSTALLATION.

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JAN. 15, 2026

DUNG D. VU LICENSE No. 83005 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
MECHANICAL
TYPICAL GUESTROOM PLAN

SHEET NUMBER:
M4.0

COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information

Energy Code:	2021 IECC
Project Title:	StudioRes Marriott - Panama City Beach
Location:	Panama City, Florida
Climate Zone:	2a
Project Type:	New Construction

Construction Site:
Panama, Florida

Owner/Agent:

Designer/Contractor:
Dung Vu, P.E, LEED AP
MEP Green Designs & Build, PLLC
915 Gemini ST
Suite 211
Houston 77058
281-786-1195

Additional Efficiency Package(s)

Credits: 10.0 Required 18.0 Proposed
5% cooling efficiency improvement, 2.0 credit
Efficient fossil fuel water heater, 6.0 credit
Reduced lighting power, 10.0 credit

Mechanical Systems List

Quantity	System Type & Description
2	AHU-1.3, 1.4 (Single Zone): Split System Heat Pump Heating Mode: Capacity = 24 kBtu/h, Proposed Efficiency = 8.10 HSPF2, Required Efficiency = 7.50 HSPF2 Cooling Mode: Capacity = 23 kBtu/h, Proposed Efficiency = 17.50 SEER2, Required Efficiency = 14.30 SEER2 Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
1	AHU-1.2 (Single Zone): Split System Heat Pump Heating Mode: Capacity = 37 kBtu/h, Proposed Efficiency = 8.10 HSPF2, Required Efficiency = 7.50 HSPF2 Cooling Mode: Capacity = 34 kBtu/h, Proposed Efficiency = 15.20 SEER2, Required Efficiency = 14.30 SEER2 Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
1	AHU-1.1 (Single Zone): Split System Heat Pump Heating Mode: Capacity = 48 kBtu/h, Proposed Efficiency = 8.10 HSPF2, Required Efficiency = 7.50 HSPF2 Cooling Mode: Capacity = 48 kBtu/h, Proposed Efficiency = 17.00 SEER2, Required Efficiency = 14.30 SEER2 Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
117	PTAC-1 (Single Zone): Packaged Terminal Heat Pump Heating Mode: Capacity = 8 kBtu/h, Proposed Efficiency = 4.00 COP, Required Efficiency = 3.23 COP Cooling Mode: Capacity = 9 kBtu/h, Proposed Efficiency = 12.70 EER, Required Efficiency = 11.30 EER Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
1	FCU-1 (Single Zone): Cooling: 1 each - Single Package DX Unit, Capacity = 22 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 22.00 SEER2, Required Efficiency = 13.40 SEER2 Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00

Quantity	System Type & Description
7	PTAC-2 (Single Zone): Packaged Terminal Heat Pump Heating Mode: Capacity = 10 kBtu/h, Proposed Efficiency = 3.80 COP, Required Efficiency = 3.13 COP Cooling Mode: Capacity = 11 kBtu/h, Proposed Efficiency = 12.00 EER, Required Efficiency = 10.70 EER Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
1	DOAS-1 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 184 kBtu/h Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 1 each - DX DOAS w/ Heat Recovery (Dehumidification), Capacity = 204 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 5.20 ISMRE, Required Efficiency = 5.20 ISMRE Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
1	DOAS-2 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 213 kBtu/h Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE Cooling: 1 each - DX DOAS w/ Heat Recovery (Dehumidification), Capacity = 256 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 5.20 ISMRE, Required Efficiency = 5.20 ISMRE Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00
5	WH-1,2,3,4,5: Gas Storage Water Heater, Capacity: 119 gallons, Input Rating: 199 kBtu/h w/ Circulation Pump Proposed Efficiency: 97.00 % Et, Required Efficiency: 80.00 % Et

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2021 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

DUNG VU, Ph.D, P.E, LEED AP		01/15/2026
Name - Title	Signature	Date

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JAN. 15, 2026

DUNG D VU LICENSE No. 83005 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIORES

SHEET TITLE:
MECHANICAL
COMCHECK REPORT

SHEET NUMBER:
M5.0

System Checksums

By Trane

AHU-1

Fan Coil

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 7 / 18
Outside Air: OADB/WB/HR: 88 / 75 / 113

	Space Sens.	Space + Lat.	Plenum Sens.	Plenum + Lat	Net Total	Net Total	Percent Of Total
	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	(%)	
Envelope Loads							
Skylite Solar	0	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0	0
Roof Cond	0	0	0	0	0	0	0
Glass Solar	17,500	0	17,500	37	17,762	60	60
Glass/Door Cond	1,208	0	1,208	3	1,123	4	4
Wall Cond	949	243	1,191	3	991	3	3
Partition/Door	0	0	0	0	0	0	0
Floor	0	0	0	0	0	0	0
Adjacent Floor	0	0	0	0	0	0	0
Infiltration	0	0	0	0	0	0	0
Sub Total ==>	19,664	243	19,907	42	19,876	67	67
Internal Loads							
Lights	2,040	0	2,040	4	2,390	8	8
People	5,679	0	5,679	12	3,564	12	12
Misc	3,710	0	3,710	8	3,710	13	13
Sub Total ==>	11,430	0	11,430	24	9,664	33	33
Ceiling Load	44	-44	0	0	46	0	0
Ventilation Load	0	0	15,937	34	0	-13,377	78.47
Adj Air Trans Heat			0	0	0	0	0
Dehumid. Ov Sizing			0	0		0	0.00
OvUndr Sizing	0		0	0	0	0	0.00
Exhaust Heat		0	0	0		0	0.00
Sup. Fan Heat		0	0	0		0	0.00
Ret. Fan Heat		0	0	0		0	0.00
Duct Heat Pkup		0	0	0		0	0.00
Underfir Sup Ht Pkup			0	0		0	0.00
Supply Air Leakage		0	0	0		0	0.00
Grand Total ==>	31,138	199	47,273	100.00	29,586	100.00	***Grand Total ==>***

CLG SPACE PEAK

Mo/Hr: Sum of
OADB: Peaks

	Space Sensible	Percent Of Total
	Btu/h	(%)
Envelope Loads		
Skylite Solar	0	0.00
Skylite Cond	0	0.00
Roof Cond	0	0.00
Glass Solar	18,824	53
Glass/Door Cond	984	3
Wall Cond	228	1
Partition/Door	0	0
Floor	0	0
Adjacent Floor	0	0
Infiltration	0	0
Sub Total ==>	19,736	55
Internal Loads		
Lights	2,092	6
People	3,386	9
Misc	2,092	6
Sub Total ==>	7,570	21
Ceiling Load	16	0
Ventilation Load	0	8,879
Adj Air Trans Heat	0	0
Dehumid. Ov Sizing		0
OvUndr Sizing	0	0
Exhaust Heat		0
Sup. Fan Heat		0
RA Preheat Diff.		0
Additional Reheat		0
Underfir Sup Ht Pkup		0
Supply Air Leakage		0
Grand Total ==>	27,342	109

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 33

	Space Peak Space Sens	Coil Peak Space Sens	Percent Tot Sens Of Total	Percent Of Total
	Btu/h	Btu/h	(%)	
Envelope Loads				
Skylite Solar	0	0	0	0.00
Skylite Cond	0	0	0	0.00
Roof Cond	0	0	0	0.00
Glass Solar	18,824	0	0	0.00
Glass/Door Cond	984	0	0	0.00
Wall Cond	228	126	353	1
Partition/Door	0	0	0	0.00
Floor	0	0	0	0.00
Adjacent Floor	0	0	0	0.00
Infiltration	0	0	0	0.00
Sub Total ==>	19,736	126	19,881	55
Internal Loads				
Lights	2,092	0	2,092	6
People	3,386	0	3,386	9
Misc	2,092	0	2,092	6
Sub Total ==>	7,570	0	7,570	21
Ceiling Load	16	-16	0	0
Ventilation Load	0	0	8,879	24
Adj Air Trans Heat		0	0	0
Dehumid. Ov Sizing			0	0
OvUndr Sizing		0	0	0
Exhaust Heat			0	0
Sup. Fan Heat			0	0
Ret. Fan Heat			0	0
Duct Heat Pkup			0	0
Underfir Sup Ht Pkup			0	0
Supply Air Leakage			0	0
Grand Total ==>	27,328	100.00	27,228	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	75.4
Ra Plenum	73.2	72.9
Return	73.2	72.9
Rel/OA	76.1	64.8
Fn Mn/TD	0.0	0.0
Fn Bd/TD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	1,474	1,474
Terminal	1,474	1,474
Main Fan	1,474	1,474
Sec Fan	0	0
Nom Vent	300	300
AHU Vent	300	300
Infil	0	0
MinStop/Rh	0	0
Return	1,174	1,174
Exhaust	0	0
Rm Exh	300	300
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	20.4	20.4
cfm/ft²	1.67	1.67
cfm/ton	374.19	
ft²/ton	223.89	
Btu/hr-ft²	53.60	-19.83
No. People	19	

COOLING COIL SELECTION

	Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Adj Air Trans Heat
	ton	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	
Main Clg	3.9	47.3	33.8	1,474	76.1	64.3	55.0	53.6	69.3	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	
Total	3.9	47.3								

AREAS

	Gross Total	Glass	
	ft²	ft²	(%)
Floor	882		
Part	0		
Int Door	0		
ExFlr	0		
Roof	0	0	0
Wall	540	160	30
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	-17.5	1,474	64.8	75.4
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-17.5			

AHU-2

Fan Coil

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 7 / 11
Outside Air: OADB/WB/HR: 85 / 73 / 104

	Space Sens.	Space + Lat.	Plenum Sens.	Plenum + Lat	Net Total	Net Total	Percent Of Total
	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	(%)	
Envelope Loads							
Skylite Solar	0	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0	0
Roof Cond	0	0	0	0	0	0	0
Glass Solar	18,824	0	18,824	53	19,100	73	73
Glass/Door Cond	984	0	984	3	820	3	3
Wall Cond	228	126	353	1	161	1	1
Partition/Door	0	0	0	0	0	0	0
Floor	0	0	0	0	0	0	0
Adjacent Floor	0	0	0	0	0	0	0
Infiltration	0	0	0	0	0	0	0
Sub Total ==>	19,736	126	19,881	55	20,083	74	74
Internal Loads							
Lights	2,092	0	2,092	6	2,048	8	8
People	3,386	0	3,386	9	2,995	11	11
Misc	2,092	0	2,092	6	2,092	8	8
Sub Total ==>	7,570	0	7,570	21	7,135	26	26
Ceiling Load	16	-16	0	0	10	0	0
Ventilation Load	0	0	8,879	24	0	-8,918	69.60
Adj Air Trans Heat		0	0	0	0	0	0
Dehumid. Ov Sizing			0	0		0	0.00
OvUndr Sizing	0		0	0	0	0	0.00
Exhaust Heat		0	0	0		0	0.00
Sup. Fan Heat		0	0	0		0	0.00
Ret. Fan Heat		0	0	0		0	0.00
Duct Heat Pkup		0	0	0		0	0.00
Underfir Sup Ht Pkup			0	0		0	0.00
Supply Air Leakage		0	0	0		0	0.00
Grand Total ==>	27,342	109	36,330	100.00	27,228	100.00	***Grand Total ==>***

CLG SPACE PEAK

Mo/Hr: Sum of
OADB: Peaks

	Space Sensible	Percent Of Total
	Btu/h	(%)
Envelope Loads		
Skylite Solar	0	0.00
Skylite Cond	0	0.00
Roof Cond	0	0.00
Glass Solar	18,824	53
Glass/Door Cond	984	3
Wall Cond	228	1
Partition/Door	0	0
Floor	0	0
Adjacent Floor	0	0
Infiltration	0	0.00
Sub Total ==>	20,036	57
Internal Loads		
Lights	2,092	6
People	3,386	9
Misc	2,092	6
Sub Total ==>	7,570	21
Ceiling Load	16	0
Ventilation Load	0	8,879
Adj Air Trans Heat	0	0
Dehumid. Ov Sizing		0
OvUndr Sizing	0	0
Exhaust Heat		0
Sup. Fan Heat		0
RA Preheat Diff.		0
Additional Reheat		0
Underfir Sup Ht Pkup		0
Supply Air Leakage		0
Grand Total ==>	27,228	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 33

	Space Peak Space Sens	Coil Peak Space Sens	Percent Tot Sens Of Total	Percent Of Total
	Btu/h	Btu/h	(%)	
Envelope Loads				
Skylite Solar	0	0	0	0.00
Skylite Cond	0	0	0	0.00
Roof Cond	0	0	0	0.00
Glass Solar	0	0	0	0.00
Glass/Door Cond	-3,646	-3,646	29.45	29.45
Wall Cond	-160	-249	1.94	1.94
Partition/Door	0	0	0.00	0.00
Floor	0	0	0.00	0.00
Adjacent Floor	0	0	0.00	0.00
Infiltration	0	0	0.00	0.00
Sub Total ==>	-3,806	-3,895	30.40	31.39
Internal Loads				
Lights	0	0	0.00	0.00
People	0	0	0.00	0.00
Misc	0	0	0.00	0.00
Sub Total ==>	0	0	0.00	0.00
Ceiling Load	-12	0	0.00	0.00
Ventilation Load	0	-8,918	69.60	71.87
Adj Air Trans Heat	0	0	0.00	0.00
Dehumid. Ov Sizing		0	0.00	0.00
OvUndr Sizing	0	0	0.00	0.00
Exhaust Heat		0	0.00	0.00
Sup. Fan Heat		0	0.00	0.00
Ret. Fan Heat		0	0.00	0.00
Duct Heat Pkup		0	0.00	0.00
Underfir Sup Ht Pkup		0	0.00	0.00
Supply Air Leakage		0	0.00	0.00
Grand Total ==>	-3,818	-12,813	100.00	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	75.5
Ra Plenum	73.1	72.9
Return	73.1	72.9
Rel/OA	74.9	67.1
Fn Mn/TD	0.0	0.0
Fn Bd/TD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	1,359	1,359
Terminal	1,359	1,359
Main Fan	1,359	1,359
Sec Fan	0	0
Nom Vent	200	200
AHU Vent	200	200
Infil	0	0
MinStop/Rh	0	0
Return	1,159	1,159
Exhaust	0	0
Rm Exh	200	200
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	14.7	14.7
cfm/ft²	2.22	2.22
cfm/ton	448.89	
ft²/ton	202.47	
Btu/hr-ft²	59.27	-20.90
No. People	18	

COOLING COIL SELECTION

	Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Adj Air Trans Heat
	ton	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	
Main Clg	3.0	36.3	29.1	1,359	74.9	62.2	55.0	53.0	66.8	
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	
Total	3.0	36.3								

AREAS

	Gross Total	Glass	
	ft²	ft²	(%)
Floor	613		
Part	0		
Int Door	0		
ExFlr	0		
Roof	0	0	0
Wall	294	176	60
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	-12.8	1,359	67.1	75.5
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-12.8			

AHU-1-3

Fan Coil

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 7 / 18
Outside Air: OADB/WB/HR: 88 / 75 / 113

	Space Sens.	Space + Lat.	Plenum Sens.	Plenum + Lat	Net Total	Net Total	Percent Of Total
	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	(%)	
Envelope Loads							
Skylite Solar	0	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0	0
Roof Cond	0	0	0	0	0	0	0
Glass Solar	17,500	0	17,500	37	17,762	60	60
Glass/Door Cond	1,208	0	1,208	3	1,123	4	4
Wall Cond	814	142	956	4	820	6	6
Partition/Door	1,124	0	1,124	4	1,071	8	8
Floor	0	0	0	0	0	0	0
Adjacent Floor	0	0	0	0	0	0	0
Infiltration	0	0	0	0	0	0	0
Sub Total ==>	2,817	142	2,959	12	2,706	19	19
Internal Loads							
Lights	1,605	203	1,808	7	2,189	16	16
People	2,989	0	2,989	12	2,092	15	15
Misc	6,932	0	6,932	27	6,932	49	49
Sub Total ==>	11,526	203	11,729	46	11,213	80	80
Ceiling Load	83	-83	0	0	100	1	0
Ventilation Load	0	0	10,624	42	0	0	0
Adj Air Trans Heat		0	0	0	0	0	0
Dehumid. Ov Sizing			0	0		0	0.00
OvUndr Sizing	0		0	0	0	0	0.00
Exhaust Heat		0	0	0		0	0.00
Sup. Fan Heat		0	0	0		0	0.00
Ret. Fan Heat		0	0	0		0	0.00
Duct Heat Pkup		0	0	0		0	0.00
Underfir Sup Ht Pkup			0	0		0	0.00
Supply Air Leakage		0	0	0		0	0.00
Grand Total ==>	14,426	262	25,312	100.00	14,019	100.00	***Grand Total ==>***

CLG SPACE PEAK

Mo/Hr: Sum of
OADB: Peaks

	Space Sensible	Percent Of Total
	Btu/h	(%)
Envelope Loads		
Skylite Solar	0	0.00
Skylite Cond	0	0.00
Roof Cond	0	0.00
Glass Solar	0	0.00
Glass/Door Cond	0	0.00
Wall Cond	0	0.00
Partition/Door	0	0.00
Floor	0	0.00
Adjacent Floor	0	0.00
Infiltration	0	0.00
Sub Total ==>	0	0.00
Internal Loads		
Lights	1,605	7
People	2,989	12
Misc	6,932	27
Sub Total ==>	11,729	46
Ceiling Load	0	0
Ventilation Load	0	10,624
Adj Air Trans Heat	0	0
Dehumid. Ov Sizing		0
OvUndr Sizing	0	0
Exhaust Heat		0
Sup. Fan Heat		0
RA Preheat Diff.		0
Additional Reheat		0
Underfir Sup Ht Pkup		0
Supply Air Leakage		0
Grand Total ==>	25,312	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 33

	Space Peak Space Sens	Coil Peak Space Sens	Percent Tot Sens Of Total	Percent Of Total
	Btu/h	Btu/h	(%)	
Envelope Loads				
Skylite Solar	0	0	0	0.00
Skylite Cond	0	0	0	0.00
Roof Cond	0	0	0	0.00
Glass Solar	0	-1,960	6.00	6.00
Glass/Door Cond	-1,349	-1,349	4.13	4.13
Wall Cond	-678	-797	6.25	6.25
Partition/Door	-2,793	-2,793	22.05	22.05
Floor	0	0	0.00	0.00
Adjacent Floor	0	0	0.00	0.00
Infiltration	0	0	0.00	0.00
Sub Total ==>	-3,633	-3,751	29.61	29.61
Internal Loads				
Lights	0	0	0.00	0.00
People	0	0	0.00	0.00
Misc	0	0	0.00	0.00
Sub Total ==>	0	0	0.00	0.00
Ceiling Load	-29	0	0.00	0.00
Ventilation Load	0	-8,918	70.39	70.39
Adj Air Trans Heat	0	0	0	0
Dehumid. Ov Sizing		0	0.00	0.00
OvUndr Sizing	0	0	0.00	0.00
Exhaust Heat		0	0.00	0.00
Sup. Fan Heat		0	0.00	0.00
RA Preheat Diff.		0	0.00	0.00
Additional Reheat		0	0.00	0.00
Underfir Sup Ht Pkup		0	0.00	0.00
Supply Air Leakage		0	0.00	0.00
Grand Total ==>	-3,661	-12,669	100.00	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	76.5
Ra Plenum	74.2	71.8
Return	74.2	71.8
Rel/OA	89.6	33.0
Fn Mn/TD	0.0	0.0
Fn Bd/TD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	270	270
Terminal	270	270
Main Fan	270	270
Sec Fan	0	0
Nom Vent	270	270
AHU Vent	270	270
Infil	0	0
MinStop/Rh	0	0
Return	270	270
Exhaust	270	270
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	29.6	29.6
cfm/ft²	1.28	1.28
cfm/ton	320.11	
ft²/ton	250.32	
Btu/hr-ft²	47.94	-24.00
No. People	10	

COOLING COIL SELECTION

	Total Capacity	Sens Cap.	Coil Airflow	Enter DB/WB/HR			Leave DB/WB/HR			Adj Air Trans Heat
	ton	MBh	cfm	°F	°F	gr/lb	°F	°F	gr/lb	
Main Clg	2.1	25.3	18.7	675	77.7	65.3	73.6	54.4	52.9	57.3
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	2.1	25.3								

AREAS

	Gross Total	Glass	
	ft²	ft²	(%)
Floor	528		
Part	180		
Int Door	0		
ExFlr	0		
Roof	0	0	0
Wall	396	18	5
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity	Coil Airflow	Ent	Lvg
	MBh	cfm	°F	°F
Main Htg	-12.7	675	61.0	77.9
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-12.7			

AHU-1-4

Fan Coil

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 7 / 18
Outside Air: OADB/WB/HR: 88 / 75 / 113

	Space Sens.	Space + Lat.	Plenum Sens.	Plenum + Lat	Net Total	Net Total	Percent Of Total
	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	(%)	
Envelope Loads							
Skylite Solar	0	0	0	0	0	0	0
Skylite Cond	0	0	0	0	0	0	0
Roof Cond	0	0	0	0	0	0	0
Glass Solar	4,375	0	4,375	29	4,003	43	43
Glass/Door Cond	341	0	341	2	313	4	4
Wall Cond	387	107	494	2	428	4	4
Partition/Door	0	0	0	0	0	0	0
Floor	0	0	0	0	0	0	0
Adjacent Floor	0	0	0	0	0	0	0
Infiltration	0	0	0	0	0	0	0
Sub Total ==>	5,101	107	5,207	24	4,792	51	51
Internal Loads							
Lights	1,051	263	1,314	6	1,290	13	13
People	1,364	0	1,364	6	986	10	10
Misc	2,389	0	2,389	11	2,389	25	25
Sub Total ==>	4,804	263	5,067	24	4,665	49	49
Ceiling Load	103	-103	0	0	123	1	1
Ventilation Load	0	0	11,133	52	0	-8,695	87.82
Adj Air Trans Heat			0	0	0	0	0
Dehumid. Ov Sizing			0	0		0	0.00
OvUndr Sizing	0		0	0	0	0	0.00
Exhaust Heat		-183	0	-183		0	0.00
Sup. Fan Heat		0	0	0		0	0.00
Ret. Fan Heat		0	0	0		0	0.00
Duct Heat Pkup		0	0	0		0	0.00
Underfir Sup Ht Pkup			0	0		0	0.00
Supply Air Leakage		0	0	0		0	0.00
Grand Total ==>	2,291	0	17,654	100.00	5,574	100.00	***Grand Total ==>***

CLG SPACE PEAK

Mo/Hr: Sum of
OADB: Peaks

	Space Sensible	Percent Of Total
	Btu/h	(%)
Envelope Loads		
Skylite Solar	0	0.00
Skylite Cond	0	0.00
Roof Cond	0	0.00
Glass Solar	4,375	29
Glass/Door Cond	341	2
Wall Cond	387	2
Partition/Door	0	0
Floor	0	0
Adjacent Floor	0	0
Infiltration	0	0.00
Sub Total ==>	5,103	34
Internal Loads		
Lights	1,314	6
People	1,364	6
Misc	2,389	11
Sub Total ==>	5,067	24
Ceiling Load	0	0
Ventilation Load	0	11,133
Adj Air Trans Heat	0	0
Dehumid. Ov Sizing		0
OvUndr Sizing	0	0
Exhaust Heat		0
Sup. Fan Heat		0
RA Preheat Diff.		0
Additional Reheat		0
Underfir Sup Ht Pkup		0
Supply Air Leakage		0
Grand Total ==>	17,654	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 33

	Space Peak Space Sens	Coil Peak Space Sens	Percent Tot Sens Of Total	Percent Of Total
	Btu/h	Btu/h	(%)	
Envelope Loads				
Skylite Solar	0	0	0	0.00
Skylite Cond	0	0	0	0.00
Roof Cond	0	0	0	0.00
Glass Solar	4,375	0	0	0.00
Glass/Door Cond	341	0	0	0.00
Wall Cond	387	107	494	2
Partition/Door	0	0	0	0.00
Floor	0	0	0	0.00
Adjacent Floor	0	0	0	0.00
Infiltration	0	0	0	0.00
Sub Total ==>	5,103	107	5,207	24
Internal Loads				
Lights	1,051	263	1,314	6
People	1,364	0	1,364	6
Misc	2,389	0	2,389	11
Sub Total ==>	4,804	263	5,067	24
Ceiling Load	103	-103	0	0
Ventilation Load	0	0	11,133	52
Adj Air Trans Heat		0	0	0
Dehumid. Ov Sizing			0	0.00
OvUndr Sizing	0		0	0.00
Exhaust Heat		-183	0	0.00
**

System Checksums
By Trane

DBL Q — **Fan Coil**

COOLING COIL PEAK — Peaked at Time: Outside Air: 1PM / 95 — MoHr: 8 / 18 — OADB/WB/HR: 87 / 75 / 113

	Space Sens.	+ Lat.	Plenum Sens.	+ Lat	Net Total	Percent Of Total
	Btu/h		Btu/h		Btu/h	(%)
Envelope Loads						
Skylite Solar	0		0		0	0
Skylite Cond	0		0		0	0
Roof Cond	0		560		560	6
Glass Solar	3,997		0		3,997	46
Glass/Door Cond	253		0		253	3
Wall Cond	171		62		233	3
Partition/Door	0				0	0
Floor	0				0	0
Adjacent Floor	0		0		0	0
Infiltration	0				0	0
Sub Total ==>	4,420		622		5,042	58
Internal Loads						
Lights	1,742		435		2,177	25
People	810		0		810	9
Misc	728		0		728	8
Sub Total ==>	3,280		435		3,716	42
Ceiling Load	187		-187		0	0
Ventilation Load	0		0		0	0
Adj Air Trans Heat	0				0	0
Dehumid. Ov Sizing					0	0
Ov/Undr Sizing	0				0	0
Exhaust Heat			0		0	
Sup. Fan Heat			0		0	
Duct Heat Pkup			0		0	
Underflr Sup Ht Pkup			0		0	
Supply Air Leakage			0		0	
Grand Total ==>	7,887		870		8,757	100.00

	Space Sens.	Percent Of Total
	Btu/h	(%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	0	0
Glass/Door Cond	168	2
Wall Cond	161	2
Partition/Door	0	0
Floor	0	0
Adjacent Floor	0	0
Infiltration	0	0
Sub Total ==>	329	4
Internal Loads		
Lights	1,742	23
People	450	6
Misc	728	10
Sub Total ==>	2,920	39
Ceiling Load	187	2
Ventilation Load	0	0
Adj Air Trans Heat	0	0
Dehumid. Ov Sizing		0
Ov/Undr Sizing	0	0
Exhaust Heat		0
OA Preheat Diff.		0
RA Preheat Diff.		0
Additional Reheat		0
Underflr Sup Ht Pkup		0
Supply Air Leakage		0
Grand Total ==>	7,527	100.00

HEATING COIL PEAK — MoHr: Heating Design — OADB: 33

	Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total
	Btu/h	Btu/h	(%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	0	-533	38.07
Glass Solar	0	0	0.00
Glass/Door Cond	-727	-727	51.93
Wall Cond	-102	-139	9.94
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0	0	0.00
Infiltration	0	0	0.00
Sub Total ==>	-829	-1,399	100.00
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	-101	0	0.00
Ventilation Load	0	0	0.00
Adj Air Trans Heat	0	0	0.00
Dehumid. Ov Sizing		0	0.00
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		0	0.00
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-930	-1,399	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.1	73.7
Ra Plenum	74.6	71.1
Return	74.6	71.1
Ret/OA	74.6	71.1
Fn Mn/TD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Fr/ct	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	486	486
Terminal	486	486
Main Fan	486	486
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	0	0
Min/Stop/Rh	0	0
Return	486	486
Exhaust	0	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.32	1.32
cfm/ton	666.28	
ft²/ton	504.26	
Btu/hr·ft²	23.80	-3.80
No. People	3	

COOLING COIL SELECTION

	Total Capacity ton	MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	0.7	8.8	8.4	486	74.6	61.5	60.6	59.1	55.4	59.4
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.7	8.8								

AREAS

	Gross Total ft²	Glass ft²	(%)
Floor	368		
Part	0		
Int Door	0		
ExFlr	0		
Roof	368	0	0
Wall	104	36	35
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-1.4	486	71.1	73.7
Aux Htg	0.0		0.0	0.0
Preheat	0.0		0.0	0.0
Humidif	0.0		0.0	0.0
Opt Vent	0.0		0.0	0.0
Total	-1.4			

Project Name: StudioRes Marriott
Dataset Name: TYP.TRC

TRACE® 700 v6.2.5 calculated at 04:52 PM on 12/10/2025
Alternative - 1 System Checksums Report Page 1 of 6

System Checksums
By Trane

DBL Q - CORNER — **Fan Coil**

COOLING COIL PEAK — Peaked at Time: Outside Air: 1PM / 95 — MoHr: 9 / 18 — OADB/WB/HR: 87 / 73 / 101

	Space Sens.	+ Lat.	Plenum Sens.	+ Lat	Net Total	Percent Of Total
	Btu/h		Btu/h		Btu/h	(%)
Envelope Loads						
Skylite Solar	0		0		0	0
Skylite Cond	0		0		0	0
Roof Cond	0		467		467	5
Glass Solar	3,603		0		3,603	40
Glass/Door Cond	266		0		266	3
Wall Cond	299		193		991	11
Partition/Door	0				0	0
Floor	0				0	0
Adjacent Floor	0		0		0	0
Infiltration	0				0	0
Sub Total ==>	4,667		660		5,326	59
Internal Loads						
Lights	1,758		440		2,198	24
People	810		0		810	9
Misc	691		0		691	8
Sub Total ==>	3,259		440		3,699	41
Ceiling Load	189		-189		0	0
Ventilation Load	0		0		0	0
Adj Air Trans Heat	0				0	0
Dehumid. Ov Sizing					0	0
Ov/Undr Sizing	0				0	0
Exhaust Heat			0		0	
Sup. Fan Heat			0		0	
Duct Heat Pkup			0		0	
Underflr Sup Ht Pkup			0		0	
Supply Air Leakage			0		0	
Grand Total ==>	8,115		910		9,025	100.00

	Space Sens.	Percent Of Total
	Btu/h	(%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	0	0
Glass/Door Cond	266	3
Wall Cond	299	3
Partition/Door	0	0
Floor	0	0
Adjacent Floor	0	0
Infiltration	0	0
Sub Total ==>	565	6
Internal Loads		
Lights	1,758	23
People	450	6
Misc	691	9
Sub Total ==>	2,899	37
Ceiling Load	189	2
Ventilation Load	0	0
Adj Air Trans Heat	0	0
Dehumid. Ov Sizing		0
Ov/Undr Sizing	0	0
Exhaust Heat		0
OA Preheat Diff.		0
RA Preheat Diff.		0
Additional Reheat		0
Underflr Sup Ht Pkup		0
Supply Air Leakage		0
Grand Total ==>	7,755	100.00

HEATING COIL PEAK — MoHr: Heating Design — OADB: 33

	Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total
	Btu/h	Btu/h	(%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	0	-531	28.12
Glass Solar	0	0	0.00
Glass/Door Cond	-727	-727	38.50
Wall Cond	-508	-631	33.39
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0	0	0
Infiltration	0	0	0.00
Sub Total ==>	-1,235	-1,889	100.00
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	-113	0	0.00
Ventilation Load	0	0	0.00
Adj Air Trans Heat	0	0	0
Dehumid. Ov Sizing		0	0.00
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		0	0.00
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-1,348	-1,889	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.2	74.4
Ra Plenum	74.6	71.0
Return	74.6	71.0
Ret/OA	74.6	71.0
Fn Mn/TD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Fr/ct	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	503	503
Terminal	503	503
Main Fan	503	503
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	0	0
Min/Stop/Rh	0	0
Return	503	503
Exhaust	0	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.37	1.37
cfm/ton	668.57	
ft²/ton	489.31	
Btu/hr·ft²	24.52	-5.13
No. People	3	

COOLING COIL SELECTION

	Total Capacity ton	MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	0.8	9.0	8.7	503	74.6	61.5	60.7	58.2	55.4	59.6
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.8	9.0								

AREAS

	Gross Total ft²	Glass ft²	(%)
Floor	368		
Part	0		
Int Door	0		
ExFlr	0		
Roof	368	0	0
Wall	344	36	10
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-1.9	503	71.0	74.4
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-1.9			

Project Name: StudioRes Marriott
Dataset Name: TYP.TRC

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System Checksums
By Trane

DBQ ADA — **Fan Coil**

COOLING COIL PEAK — Peaked at Time: Outside Air: 1PM / 95 — MoHr: 7 / 18 — OADB/WB/HR: 88 / 75 / 113

	Space Sens.	+ Lat.	Plenum Sens.	+ Lat	Net Total	Percent Of Total
	Btu/h		Btu/h		Btu/h	(%)
Envelope Loads						
Skylite Solar	0		0		0	0
Skylite Cond	0		0		0	0
Roof Cond	0		748		748	7
Glass Solar	3,940		0		3,940	37
Glass/Door Cond	253		0		253	2
Wall Cond	171		62		233	2
Partition/Door	0				0	0
Floor	0				0	0
Adjacent Floor	0		0		0	0
Infiltration	0				0	0
Sub Total ==>	4,381		810		5,191	49
Internal Loads						
Lights	2,177		544		2,721	26
People	810		0		810	8
Misc	1,821		0		1,821	17
Sub Total ==>	4,808		544		5,352	51
Ceiling Load	242		-242		0	0
Ventilation Load	0		0		0	0
Adj Air Trans Heat	0				0	0
Dehumid. Ov Sizing					0	0
Ov/Undr Sizing	0				0	0
Exhaust Heat			0		0	
Sup. Fan Heat			0		0	
Duct Heat Pkup			0		0	
Underflr Sup Ht Pkup			0		0	
Supply Air Leakage			0		0	
Grand Total ==>	9,431		1,113		10,543	100.00

	Space Sens.	Percent Of Total
	Btu/h	(%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	3,940	44
Glass/Door Cond	253	3
Wall Cond	171	2
Partition/Door	0	0
Floor	0	0
Adjacent Floor	0	0
Infiltration	0	0
Sub Total ==>	4,365	49
Internal Loads		
Lights	2,177	24
People	450	5
Misc	1,821	20
Sub Total ==>	4,448	49
Ceiling Load	233	3
Ventilation Load	0	0
Adj Air Trans Heat	0	0
Dehumid. Ov Sizing		0
Ov/Undr Sizing	0	0
Exhaust Heat		0
OA Preheat Diff.		0
RA Preheat Diff.		0
Additional Reheat		0
Underflr Sup Ht Pkup		0
Supply Air Leakage		0
Grand Total ==>	9,101	100.00

HEATING COIL PEAK — MoHr: Heating Design — OADB: 33

	Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total
	Btu/h	Btu/h	(%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	0	-966	43.40
Glass Solar	0	0	0.00
Glass/Door Cond	-727	-727	32.66
Wall Cond	-102	-139	6.26
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0	0	0
Infiltration	0	0	0.00
Sub Total ==>	-829	-1,832	100.00
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	-125	0	0.00
Ventilation Load	0	0	0.00
Adj Air Trans Heat	0	0	0
Dehumid. Ov Sizing		0	0.00
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		0	0.00
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-954	-1,832	100.00

TEMPERATURES

	Cooling	Heating
SADB	59.5	73.4
Ra Plenum	74.7	71.1
Return	74.7	71.1
Ret/OA	74.7	71.1
Fn Mn/TD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Fr/ct	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	602	602
Terminal	602	602
Main Fan	602	602
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	0	0
Min/Stop/Rh	0	0
Return	602	602
Exhaust	0	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.41	1.41
cfm/ton	686.62	
ft²/ton	495.00	
Btu/hr·ft²	24.24	-5.32
No. People	3	

COOLING COIL SELECTION

	Total Capacity ton	MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	0.9	10.5	10.2	602	74.7	61.5	60.6	59.5	55.6	59.8
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.9	10.5								

AREAS

	Gross Total ft²	Glass ft²	(%)
Floor	460		
Part	0		
Int Door	0		
ExFlr	0		
Roof	460	0	0
Wall	104	36	35
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-1.5	602	71.1	73.4
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-1.5			

Project Name: StudioRes Marriott
Dataset Name: TYP.TRC

TRACE® 700 v6.2.5 calculated at 04:52 PM on 12/10/2025
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System Checksums
By Trane

SINGLE QUEEN ADA — **Fan Coil**

COOLING COIL PEAK — Peaked at Time: Outside Air: 1PM / 95 — MoHr: 7 / 10 — OADB/WB/HR: 83 / 72 / 99

	Space Sens.	+ Lat.	Plenum Sens.	+ Lat	Net Total	Percent Of Total
	Btu/h		Btu/h		Btu/h	(%)
Envelope Loads						
Skylite Solar	0		0		0	0
Skylite Cond	0		0		0	0
Roof Cond	0		277		277	3
Glass Solar	3,907		0		3,907	40
Glass/Door Cond	168		0		168	2
Wall Cond	161		50		210	2
Partition/Door	0				0	0
Floor	0				0	0
Adjacent Floor	0		0		0	0
Infiltration	0				0	0
Sub Total ==>	4,236		326		4,562	47
Internal Loads						
Lights	2,326		582		2,908	30
People	610		0		610	6
Misc	1,687		0		1,687	17
Sub Total ==>	4,623		582		5,204	53
Ceiling Load	151		-151		0	0
Ventilation Load	0		0		0	0
Adj Air Trans Heat	0				0	0
Dehumid. Ov Sizing					0	0
Ov/Undr Sizing	0				0	0
Exhaust Heat			0		0	
Sup. Fan Heat			0		0	
Duct Heat Pkup			0		0	
Underflr Sup Ht Pkup			0		0	
Supply Air Leakage			0		0	
Grand Total ==>	9,009		757		9,766	100.00

	Space Sens.	Percent Of Total
	Btu/h	(%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	3,907	45
Glass/Door Cond	168	2
Wall Cond	161	2
Partition/Door	0	0
Floor	0	0
Adjacent Floor	0	0
Infiltration	0	0
Sub Total ==>	4,236	48
Internal Loads		
Lights	2,326	27
People	370	4
Misc	1,687	19
Sub Total ==>	4,383	50
Ceiling Load	151	2
Ventilation Load	0	0
Adj Air Trans Heat	0	0
Dehumid. Ov Sizing		0
Ov/Undr Sizing	0	0
Exhaust Heat		0
OA Preheat Diff.		0
RA Preheat Diff.		0
Additional Reheat		0
Underflr Sup Ht Pkup		0
Supply Air Leakage		0
Grand Total ==>	8,769	100.00

HEATING COIL PEAK — MoHr: Heating Design — OADB: 33

	Space Peak Space Sens	Coil Peak Tot Sens	Percent Of Total
	Btu/h	Btu/h	(%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	0	-417	39.85
Glass Solar	0	0	0.00
Glass/Door Cond	-727	-727	46.94
Wall Cond	-156	-205	13.24
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0	0	0.00
Infiltration	0	0	0.00
Sub Total ==>	-883	-1,549	100.00
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	-111	0	0.00
Ventilation Load	0	0	0.00
Adj Air Trans Heat	0	0	0.00
Dehumid. Ov Sizing		0	0.00
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		0	0.00
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-994	-1,549	100.00

TEMPERATURES

	Cooling	Heating
SADB	60.1	73.5
Ra Plenum	74.1	71.2
Return	74.1	71.2
Ret/OA	74.1	71.2
Fn Mn/TD	0.0	0.0
Fn BldTD	0.0	0.0
Fn Fr/ct	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	608	608
Terminal	608	608
Main Fan	608	608
Sec Fan	0	0
Nom Vent	0	0
AHU Vent	0	0
Infil	0	0
Min/Stop/Rh	0	0
Return	608	608
Exhaust	0	0
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	0.0
cfm/ft²	1.43	1.43
cfm/ton	746.73	
ft²/ton	523.43	
Btu/hr·ft²	22.93	-3.64
No. People	2	

COOLING COIL SELECTION

	Total Capacity ton	MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB/WB/HR °F	°F	gr/lb	Leave DB/WB/HR °F	°F	gr/lb
Main Clg	0.8	9.8	9.5	608	74.1	61.3	60.7	60.1	55.9	60.1
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.8	9.8								

AREAS

	Gross Total ft²	Glass ft²	(%)
Floor	426		
Part	0		
Int Door	0		
ExFlr	0		
Roof	426	0	0
Wall	136	36	26
Ext Door	0	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-1.6	608	71.2	73.5
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-1.6			

Project Name: StudioRes Marriott
Dataset Name: TYP.TRC

TRACE® 700 v6.2.5 calculated at 04:52 PM on 12/10/2025
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System Checksums
By Trane

SINGLE QUEEN CORNER — **Fan Coil**

COOLING COIL PEAK — Peaked at Time: Outside Air: 1PM / 95 — MoHr: 7 / 19 — OADB/WB/HR: 86 / 74 / 111

	Space Sens.	+ Lat.	Plenum Sens.	+ Lat	Net Total	Percent Of Total
	Btu/h		Btu/h		Btu/h	(%)
Envelope Loads						
Skylite Solar	0		0		0	0
Skylite Cond	0		0		0	0
Roof Cond	0		603		603	7
Glass Solar	3,641		0		3,641	43
Glass/Door Cond	254		0		254	3
Wall Cond	503		120		623	7
Partition/Door	0				0	0
Floor	0				0	0
Adjacent Floor	0		0		0	0
Infiltration	0				0	0
Sub Total ==>	4,397		723		5,120	61
Internal Loads						
Lights	1,606		402		2,008	24
People	540		0		540	6
Misc	720		0		720	9
Sub Total ==>	2,866		402		3,268	39
Ceiling Load	188		-188		0	0
Ventilation Load

PLUMBING GENERAL NOTES:

PART 1 – GENERAL AND RELATED DOCUMENTS

DRAWING AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND OTHER DIVISION-1 SPECIFICATION SECTIONS, APPLY TO WORK OF THIS SECTION.

WORK INCLUDED: THE PLUMBING SYSTEM FOR THIS WORK INCLUDES ALL NATURAL GAS, COLD WATER DISTRIBUTION, DOMESTIC WATER HEATING AND DISTRIBUTION, VENTS AND WASTES, FLOOR DRAIN, EQUIPMENT, PLUMBING FIXTURES AND TRIM, AND ALL OTHER PLUMBING ITEMS INDICATED ON THE DRAWINGS OR DESCRIBED IN THESE SPECIFICATIONS, PLUS ALL OTHER PLUMBING ITEMS NEEDED FOR A COMPLETE AND PROPER INSTALLATION.

CODES AND STANDARDS: IN ADDITION TO COMPLYING WITH ALL PERTINENT CODES AND REGULATIONS, COMPLY WITH THE FOLLOWING:

2023 FLORIDA BUILDING CODE–PLUMBING, 8TH EDITION
2023 FLORIDA BUILDING CODE–FUEL GAS, 8TH EDITION
LOCAL UTILITY COMPANIES REGULATIONS.

SUBMITTALS
PRODUCT DATA: WITHIN 15 CALENDAR DAYS AFTER AWARD OF CONTRACT, SUBMIT COMPLETE MATERIALS LIST OF ALL ITEMS PROPOSED TO BE FURNISHED AND INSTALLED UNDER THIS SECTION, ALONG WITH CATALOG CUTS AND OTHER DATA REQUIRED TO DEMONSTRATE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.

OPERATION AND MAINTENANCE MANUAL: UPON COMPLETION OF THE WORK, AND AS A CONDITION OF ITS ACCEPTANCE, COMPILE AND SUBMIT MANUALS AS REQUIRED.

PRODUCT HANDLING / PROTECTION: USE ALL MEANS NECESSARY TO PROTECT THE MATERIALS OF THIS SECTION BEFORE, DURING, AND AFTER INSTALLATION AND TO PROTECT THE WORK AND MATERIALS OF ALL OTHER TRADES.
REPLACEMENT: IN THE EVENT OF DAMAGE, IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO THE APPROVAL OF THE ARCHITECT AND AT NO ADDITIONAL COST TO THE OWNER.

PART 2 – PRODUCTS

PIPE – SOIL, WASTE, AND VENTS IN BUILDING SHALL BE SCHEDULE 40 P.V.C. WITH SOLVENT WELD CONNECTIONS, UNLESS OTHERWISE NOTED ON THE DRAWING.

DOMESTIC WATER PIPING: ALL HOT AND COLD WATER PIPING, UNLESS OTHERWISE SHOWN ON THE DRAWINGS, SHALL BE CPVC AND PEX. USING CPVC SCHEDULE 40 FOR MAIN DISTRIBUTION PIPE ABOVEGROUND, CPVC SCHEDULE 80 FOR MAIN DISTRIBUTION PIPE UNDERGROUND AND PEX FOR GUEST ROOM WATER DISTRIBUTION.
NO JOINTS OR CONNECTION SHALL BE MADEIN OR BELOW THE SLAB. REFER TO LOCAL CODE FOR ANY OTHER REQUIREMENTS FOR TYPE OF MATERIALS APPROVED AND METHODS OF JOINING.

NATURAL GAS PIPING: ALL GAS PIPING BELOW GRADE SHALL BE BLACK STEEL PIPE, PLASTIC COATED, WITH WELDED FITTINGS AND JOINTS. ALL GAS PIPING ABOVE GRADE, 3" (INCH) AND LARGER SHALL BE BLACK STEEL PIPE WITH WELDED FITTINGS AND JOINTS; 2-1/2" (INCH) AND SMALLER SHALL BE THREADED BLACK STEEL PIPE WITH MALLEABLE IRON FITTINGS.

PIPE WRAPPING: WRAP ALL GAS PIPE BURIED IN THE GROUND, AND OTHER PIPE WHERE SO NOTED ON THE DRAWING, WITH "SCOTCHRAP". WRAP ALL STRAIGHT RUNS WITH 0.020-INCH THICK TAPE, APPLIED IN HALP-LAP LAYERS. PRE-WRAP ALL JOINTS, VALVES AND SIMILAR IRREGULAR SURFACES USING 0.010-INCH THICK TAPE.

VALVES: ALL VALVE DESIGN IS BASED ON THE USE OD "WALWORTH" IN THE MODEL SHOWN BELOW. PROVISO VALVES EQUALING AND EXCEEDING THE QUALITY OF THOSE UPON WHICH DESIGN IS BASED.

TYPE	SIZE RANGE:	PART NUMBER:
GATE	4" AND SMALLER	3
GLOBE	4" AND SMALLER	95
CHECK	4" AND SMALLER	412
GAS COCK	1" AND SMALLER	597
GAS COCK	1 1/4" AND LARGER	655 & 7904
WRENCH-OPERATED FOR USE WITH EACH COCK.		

VALVE BOXES: ALL VALVE BOXES, UNLESS OTHERWISE SHOWN ON THE DRAWING, SHALL EQUAL THE QUALITY OF "TOMI", TRAFFIC TYPE, OF THE REQUIRED DEPTH, AND SHALL HAVE LOCK TYPE CAST IRON COVERS LABELED WATER OR GAS AS REQUIRED.
PIPE SLEEVES AND ESCUTCHEONS: ALL PIPE SLEEVES AND ESCHTCHEONS SHALL EQUAL OR EXCEED THE QUALITY OF "ADJUSTO-CRETE", SHALL HAVE AMPLE CLEARANCE FOR PIPE AND COVERING, AND SHALL HAVE CHROME PLATED WALL AND FLOOR ESCUTCHEONS OVER THE PIPE IN FINISHED AREAS.

HANGERS AND SUPPORTS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS, SHALL EQUAL OR EXCEED THE QUALITY OF THE FOLLOWING:

ITEM:	MANUFACTURER & MODEL NO.
PIPE RING HANGER	GRINNEL 107R
SIDE BEAM CLAMP	GRINNEL 202
TRAPEZE HANGERS	SUPERSTRUT A1220
VERTICAL RISER	GRINNEL 261

HANGER RODS SHALL CONFORM TO THE FOLLOWING:

PIPE SIZE:	ROD DIAMETER:
1/2 " TO 2"	3/8 "
2 1/2 " TO 3 1/2 "	1/2 "
4" TO 5"	5/8 "

AT THE CONTRACTOR'S OPTION, TRAPEZE HANGERS MAY BE USED WHERE PARALLEL RUNS OF PIPE OCCURS. ALL RODS ON TRAPEZE HANGERS SHALL BE 1/2" MINIMUM.

VENT FLASHING: PROVIDE VENT FLASHING AT EACH VENT THROUGH THE ROOF, EQUAL TO OR EXCEEDING THE QUALITY OF "SEMCI" NUMBER 1100-2 FLASHING AND COUNTER FLASHING.

ISOLATE ALL DISSIMILAR METALS WITH ISOLATORS EQUALING OR EXCEEDING THE QUALITY OF "EPCO" DIELECTRIC UNIONS.

PIPING INSULATION

INSULATE ALL METAL DOMESTIC COLD WATER PIPES WITH CLOSED-CELL ELASTOMERIC MATERIAL.

ALL EXPOSED / EXTERIOR PIPING SHALL BE INSULATED WITH 1" THICK (MIN.) INSULATION HAVING A CONDUCTIVITY NO GREATER THAN HAVE 0.28 BTU-IN/(H-FT2-DEGREE F). AND HAVE ALUMINUM JACKETING APPLIED OVER INSULATION.

OTHER MATERIAL: ALL OTHER MATERIALS, NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE AND PROPER INSTALLATION OF THE WORK OF THIS SECTION , SHALL BE NEW, FIRST QUALITY OF THEIR RESPECTIVE KINDS, AND AS SELECTED BY THE ARCHITECT.
INSPECTION: EXAMINE THE AREAS AND CONDITIONS UNDER WHICH WORK OF THIS SECTION WILL BE INSTALLED. CORRECT CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

ALL HOT WATER PIPES AND RETURN HOT WATER PIPES SHALL BE INSULATED TO THE THICKNESS SPECIFIED IN THE TABLE BELOW AND SHALL HAVE A THERMAL CONDUCTIVITY NOT EXCEEDING 0.28 BTU-IN/(H-FT²-°F).

TABLE C403.11.3 – MINIMUM PIPE INSULATION THICKNESS (in inches)a, c

NO.	FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE DIAMETER (in inches)		
		CONDUCTIVITY (IN BTU-IN/H PER FT2 °F)	MEAN RATING TEMPERATURE (°F)	<1	1 TO <1.5	1.5 TO <4
1	105–140	0.21–0.28	100	1	1	1.5
2	40–60	0.21–0.27	75	0.5	0.5	1

PLUMBING SYSTEM LAYOUT: LAYOUT THE PLUMBING SYSTEM IN CAREFUL COORDINATION WITH THE DRAWINGS, DETERMINING PROPER ELEVATIONS FOR ALL COMPONENTS OF THE SYSTEM AND USING ONLY THE MINIMUM NUMBER OF BENDS TO PRODUCE A SATISFACTORY FUNCTIONING SYSTEM. FOLLOW THE GENERAL LAYOUT SHOWN ON THE DRAWINGS IN ALL CASES EXCEPT WHERE OTHER WORK MAY INTERFERE. LAYOUT ALL PIPES TO FALL WITHIN PARTITION, WALLS, OR ROOF CAVITIES, AND TO NOT REQUIRE FURRING OTHER THAN AS SHOWN ON THE DRAWINGS.

TRENCHING AND BACKFILLING: GENERAL– DIG TRENCHES STRAIGHT AND TRUE TO LINE AND GRADE, WITH BOTTOM OF TRENCH FREE FROM ROCK POINTS AND WITH PIPE CUSHION CONSISTING OF EITHER UNDISTURBED NATURAL SOIL OR COMPACTED FINE SAND. PROVIDE A MINIMUM TRENCH OF 16" FOR MAIN SOIL AND DRAINAGE PIPE, AND A MINIMUM OF 24" COVER BELOW FINISHED GRADE WHEREVER CONDITIONS WILL PERMIT. WHERE CONDITIONS REQUIRE VARIANCE FROM THESE MINIMUMS, SECURE ARCHITECT'S APPROVAL BEFORE PROCEEDING WITH THE VARIANCE. PERFORM ALL SUCH VARIANCES AT NO ADDITIONAL COST TO THE OWNER.

BACKFILLING: BACK FILL PROMPTLY UPON RECEIPT OF ALL NECESSARY VARIANCES, USING STOCKPILED MATERIAL EXCAVATED FROM THE TRENCH, OR USING OTHER MATERIAL APPROVED BY THE ARCHITECT. ALL BACKFILL MATERIAL SHALL BE FREE FROM ROCKS, LARGE CLODS, ROOTS, AND OTHER FOREIGN MATTER, AND SHALL BE COMPACTED IN 6" LAYERS TO A MINIMUM OF 95 PERCENT COMPACTION. JETTING OF BACKFILL WILL NOT BE PERMITTED. PROMPTLY REMOVE ALL EXCESS EXCAVATED MATERIAL FROM THE SITE.

INSTALLATION, GENERAL: DO NOT CUT INTO OR REDUCE THE SIZE OF ANY LOAD-CARRYING STRUCTURAL MEMBER WITHOUT THE PRIOR APPROVAL OF THE ARCHITECT. INSTALL ALL PIPES TO CLEAR ALL BEAMS AND OBSTRUCTIONS AND IN ACCORDANCE WITH THE FOLLOWING:

1. INSTALL ALL PIPING PROMPTLY, CAPPING OR PLUGGING ALL OPEN ENDS.
2. INSTALL ALL PIPING GENERALLY LEVEL AND PLUMB, FREE FROM TRAPS, AND IN A MANNER TO CONSERVE SPACE FOR OTHER WORK.
3. CUSHION ALL TRAPS AND BEARING TO MINIMIZE TRANSFER OF SOUND. PROVIDE COMPLETE ISOLATION OF ALL DISSIMILAR METALS. FIRMLY ANCHOR ALL PIPES INTO POSITION.
4. PROVIDE UNIFORM PIPCH OF AT LEAST 1/4 INCH PER FOOT FOR ALL HORIZONTAL WASTE AND SOIL PIPING WITHIN THE BUILDING. PITCH ALL VENTS FOR PROPER DRAINAGE. INSTALL VENT PIPING WITH EACH BEND 45 DEGREES MINIMUM FROM THE HORIZONTAL WHEREVER STRUCTURAL CONDITIONS WILL PERMIT.
5. PROVIDE AIR CHAMBERS OR WATER HAMMER ARRESTORS ON HOT AND COLD WATER AT THE FIXTURES.
6. CONCEAL ALL PIPING UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
7. INSPECT EACH PIECE OF PIPE, COUPLINGS, FITTINGS, AND EQUIPMENT FOR DEFECTS AND OBSTRUCTIONS. PROMPTLY REMOVE ALL DEFECTIVE MATERIAL FROM THE SITE.
8. PLUMBER SHALL CUT ALL HOLES IN CABINETS FOR LAVATORIES, SINKS AND FAUCETS.

JOINTS AND CONNECTIONS: PREPARATION – PROPERLY REAM ALL CUT PIPE. CUT ALL THREADS STRAIGHT AND TRUE. APPLY BEST QUALITY TEFLON TAPE TO MALE PIPE THREADS, BUT NOT TO INSIDE OF FITTINGS. USE GRAPHITE ON ALL CLEANOUT PLUGS.
PACKING: PACK ALL JOINTS IN CAST IRON SOIL AND WASTE PIPE AND FITTINGS, USING OAKUM, AND SECURING WITH ONE INCH DEEP CAULKING OF LEAD. FULLY AND PROPERLY CAULK AND FINISH.

COPPER: MAKE ALL JOINTS IN COPPER TUBING WITH 95-5 TIN-ANITOMY SOLDER, APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS.

PVC: MAKE ALL JOINTS IN PVC PIPING WITH PROPER JOINT CEMENT, APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS.

SUPPORTING: USE A SEPARATE HANGER FOR EACH BRANCH. SUPPORT VERTICAL RISERS AT THE FLOOR WITH THE EXTENSION PIPE CLAMPS APPROVED BY THE ARCHITECT. WHEREVER INSULATED PIPE IS SUPPORTED BY RING HANGERS, THE RINGS SHALL PASS FREELY AROUND THE INSULATION AT POINT OF CONTACT WITH SADDLES APPROVED BY THE ARCHITECT.

SLEEVING, SEALING, ESCUTCHEONS AND FIRE SAFING:
ALL PIPING THROUGH ALL INTERIOR AND EXTERIOR WALLS SHALL BE SLEEVED.
ANNULAR SPACE BETWEEN PIPING AND SLEEVE SHALL BE SEALED WATERTIGHT WITH NON-HARDENING COMPOUND (WHERE WALLS ARE NOT FIRE RATED) OR FIRE SAFING (WHERE WALLS ARE FIRE RATED).
SLEEVE AND FIRE SAFING SHALL MAINTAIN FIRE RATING OF WALL ASSEMBLY.
EACH END OF SLEEVE SHALL BE FITTED WITH TWO PIECE CHROME PLATED ESCUTCHEON PLATE.

WATER HAMMER ABSORBING DEVICES
BUILDING WATER SUPPLY SYSTEMS WHERE QUICK-ACTING VALVES ARE INSTALLED SHALL BE PROVIDED WITH WATER HAMMER ARRESTER(S) TO ABSORB/ HIGH PRESSURES RESULTING FROM THE QUICK CLOSING OF THESE VALVES.
AIR CHAMBERS SHALL BE SIZED AND INSTALLED AS PER 2023 FLORIDA BUILDING CODE–PLUMBING, 8TH EDITION LISTED MECHANICAL DEVICES SHALL BE PDI APPROVED.

WATER HAMMER ARRESTOR, SIZE AS NOTED. PROVIDE PROPERLY SIZED WATER HAMMER ARRESTOR TO EACH GROUP OF FIXTURES WHETHER SHOWN OR NOT ON PLANS. PROVIDE ACCESS PANEL WHERE LOCATED IN ACCESSIBLE WALL/CEILING.

INSTALLATION

HOT WATER PIPING: INSULATE ALL HOT WATER PIPING WITH THE SPECIFIED INSULATION, APPLYING IN STRICT ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS, AND: TIGHTLY BUTT ALL JOINTS TOGETHER. HOLD THE LONGITUDINAL SEAMS WITH COPPER-CLAD INSULATING STAPLES (AT LEAST FOUR STAPLES PER THREE FOOT SECTION).
INSULATE FITTINGS WITH INSULATING CEMENT TO THE THICKNESS ON THE ADJACENT PIPES.
APPLY INSULATION IN TWO LAYERS, ALLOWING FIRST COAT TO DRY BEFORE APPLYING THE SECOND COAT. TROWEL THE FINAL COAT TO A SMOOTH AND EVEN FINISH, THEN COVER THE FITTING WITH AND EIGHT OUNCE CANVAS AND "ARBOL LAGGING ADHESIVE" TO A SMOOTH FINISHED SURFACE. UPON COMPLETION OF INSULATING, FINISH ALL EXPOSED CANVAS JACKETING WITH TWO COATS OF "ARBOL LAGGING ADHESIVE".

STERILIZATION OF PIPES

CHLORINATION: AFTER PRELIMINARY PURGING OF THE SYSTEM, CHLORINATE THE ENTIRE POTABLE WATER SYSTEM IN ACCORDANCE WITH THE CURRENT PROCEDURE OF THE AMERICAN WATERWORKS ASSOCIATION FOR FLUSHING AND DISINFECTING WATER MAINS, AND IN ACCORDANCE WITH ALL OTHER PERTINENT RULES AND REGULATIONS. WHEN STERILIZATION IS COMPLETE, ARRANGE WITH THE PERTINENT AUTHORITIES FOR TEST ON MAINS AND SYSTEM.
CHLORINATE ONLY WHEN BUILDING IS UNOCCUPIED.
CLOSING IN UNINSPECTED WORK: DO NOT COVER UP OR ENCLOSE WORK UNTIL IT HAS BEEN PROPERLY AND COMPLETELY INSPECTED AND APPROVED. SHOULD ANY OF THE WORK BR COVERED UP OR ENCLOSED PRIOR TO ALL REQUIRED INSPECTIONS APPROVALS, UNCOVER THE WORK AS REQUIRED AND, AFTER IT HAS BEEN COMPLETELY INSPECTED AND APPROVED, MAKE ALL REPAIRS AND REPLACEMENTS WITH SUCH MATERIALS AND WORKMANSHIP AS ARE NECESSARY TO THE APPROVAL OF THE ARCHITECT, AND AT NO ADDITIONAL COST TO THE OWNER.

TESTING:
GENERAL: FURNISH ALL TEST PUMPS, GAUGES, EQUIPMENT, AND PERSONNEL REQUIRED, AND TEST AS NECESSARY TO DEMONSTRATE THE INTEGRITY OF THE FINISHED INSTALLATION TO THE APPROVAL OF ALL PERTINENT AUTHORITIES AND THE ARCHITECT.

SOIL & WASTE: UNLESS OTHERWISE DIRECTED, PLUG ALL OPENING AND FILL WITH WATER TO A HEIGHT EQUAL TO THE LOWEST VENT. ALLOW TO STAND ONE HOUR OR LONGER AS REQUIRED. RECAULK LEAKING JOINTS AS DIRECTED AND THEN RE-TEST.

WATER LINES: TEST AND MAKE TIGHT AT 150 PSI WATER GAGE, RETAIN FOR FOUR HOURS; REPAIR ALL LEAKING JOINTS AS DIRECTED AND THEN RE-TEST.

GAS: AIR TEST TO PRESSURE EQUAL TO 100 PSI; RETAIN FOR FOUR HOURS; SOAP TEST IF THE PRESSURE DROPS; REPAIR ALL LEAKS; AND THEN RE-TEST.

VALVES: TEST ALL VALVE BONNETS FOR TIGHTNESS. TEST OPERATE ALL VALVES AT LEAST ONCE FROM CLOSED TO-OPEN-TO CLOSED POSITION WHILE VALVE IS UNDER PRESSURE. TEST ALL AUTOMATIC VALVES FOR PROPER OPERATION AT THE SETTING INDICATED. TEST PRESSURE RELIEF VALVE AT LEAST THREE TIMES.

OTHER: TEST ALL PIPING SPECIALITIES FOR PROPER OPERATION. TEST ALL VENT POINTS TO ENSURE THAT AIR HAS BEEN VENTED.

GENERAL NOTES:

1. THE CONTRACTORS SHALL CONSTRUCT MEP SYSTEM ACCORDING TO MEPC'S PLANS, CALCULATION, DETAILS AND SPECIFICATION. ALL REQUESTS FOR ALTERNATE MATERIAL, EQUIPMENT AND SOLUTIONS MUST BE SUBMITTED THROUGH REQUEST FOR INFORMATION (RFI). FAILURE TO SUBMIT THE RFI SHALL RESULT IN THE DISAPPROVAL OF CHANGE ORDER (IF ANY) FOR THE PROPOSED ALTERNATE MATERIAL, EQUIPMENT, AND SOLUTION.
2. THE CONTRACTORS ARE REQUIRED TO FOLLOW THE SPECIFIED EQUIPMENT'S INSTALLATION MANUAL FROM THE MANUFACTURE
3. THE CONTRACTORS ARE REQUIRED TO FOLLOW THE LOCAL BUILDING CODE OF AUTHORITY HAVING JURISDICTION.
4. THE COMPLETE COLD AND HOT WATER SYSTEMS MUST BE TESTED, BALANCED, AND COMMISSIONED BY QUALIFIED COMMISSIONER AGENT DURING THE CONSTRUCTION PHASE PRIOR TO FULL OPERATION. FAILURE TO PROPERLY CONDUCT TESTING, BALANCING, AND COMMISSIONING THE PLUMBING SYSTEM SHALL RESULT IN SYSTEM DYSFUNCTION, WHICH IS FULLY RESPONSIBLE BY THE CONTRACTOR.
5. DURING THE BIDDING PROCESS, THE CONTRACTOR IS RESPONSIBLE TO BID ANY NECESSARY PLUMBING ACCESSORIES OF THE SPECIFIED PLUMBING FIXTURE.
6. DURING THE BIDDING PROCESS, THE CONTRACTORS ARE REQUIRED TO SUBMIT THE RFI TO RECEIVE OUR SOLUTION IN CASE THE LOCATION OF PLUMBING PIPES AND STRUCTURAL BEAMS AND FOOTING ARE CONFLICT. OTHERWISE, WE ARE NOT RESPONSIBLE FOR ANY ADDITIONAL FEE ARISING FROM CHANGE ORDERS.
7. THE CONTRACTOR MUST SUBMIT THE LIST OF BIDDING PLUMBING FIXTURES TO THE ARCHITECT, OWNER, INTERIOR DESIGNER, OR HOTEL FRANCHISE PRIOR TO ORDERING AND INSTALLATION
8. THE CONTRACTORS ARE REQUIRED TO SUBMIT THEIR VALUED ENGINEERING (IF ANY) TO MEP GREEN DESIGN AND BUILD PLLC FOR ASSESSMENT AND COMMENT/APPROVAL BEFORE EXECUTING THEM ON THE JOB SITE. OTHERWISE, THE CONTRACTORS SHALL HOLD ALL RESPONSIBILITIES REGARDING RESPONDING TO THE INSPECTORS, RESUBMITTING PLANS FOR CITY REAPPROVAL, ETC. DUE TO THE CHANGES MADE ON THE JOB SITE WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD AND OWNER.

SYMBOLS AND LEGEND

SYMBOLS	ABBREV.	DESCRIPTION	MATERIAL
———	WASTE	SOIL OR WASTE	40 P.V.C. WITH SOLVENT WELD CONNECTIONS, UNLESS OTHERWISE NOTED ON THE DRAWING
— GR — GR —	GREASE	GREASE	
——— ——— ———	SD	STORM DRAIN	
——— ——— ———	V	VENT	
—— - —— - —— - ——	CD	CONDENSATE DRAIN	
——— ··· ——— ··· ———	HWR	HOT WATER RETURN	CPVC SCHEDULE 40 FOR MAIN DISTRIBUTION PIPE ABOVEGROUND, CPVC SCHEDULE 80 FOR MAIN DISTRIBUTION PIPE UNDERGROUND PEX FOR GUEST ROOM WATER DISTRIBUTION
——— · ——— · ———	CW	COLD WATER	
—HW 125°F— —HW 125°F—	HW	HOT WATER 125°F	
—HW 140°F— —HW 140°F—	HW	HOT WATER 140°F	
— GAS ——— GAS —	GAS	GAS LINE	BLACK STEEL PIPE, PLASTIC COATED
FD	FD	FLOOR DRAIN	
FS	FS	FLOOR SINK	
FCO	FCO	FLOOR CLEAN OUT	
WCO	WCO	WALL CLEAN OUT	
CO	CO	CLEAN OUT	
G.V.w/B.C.	G.V.w/B.C.	GATE VALVE WITH BALL COCK	BASED ON THE USE OD "WALWORTH" IN THE MODEL SHOWN IN GENERAL NOTES
C.V	C.V	CHECK VALVE	
		GAS SHUT-OFF VALVE	
		AUTOMATIC GAS SHUT-OFF VALVE	
		EMERGENCY GAS SHUT-OFF VALVE	
		PRESSURE REGULATOR VALVE	
		THERMOSTATIC MIXING VALVE	
		AUTOMATIC BALANCING VALVE	REFER TO FLOOR PLAN FOR FLOW RATE
GM		GAS METER	
WM		WATER METER	
BP		BACKFLOW PREVENTOR	
WHA		WATER HAMMER ARRESTOR	
		AIR HANDLING UNIT-HORIZONTAL	
	AHU	AIR HANDLING UNIT-VERTICAL	
	FCU	FAN COIL UNIT-DUCTLESS	
	U/G	UNDERGROUND	
	U/S	UNDER SLAB	
	H/L	HIGH LEVEL	

BACKFLOW PREVENTION TYPES

NO.	THE TYPE OF PROTECTION	ITEMS/ EQUIPMENT (SIZE)
1	REDUCED PRESSURE ZONE ASSEMBLY (RPZA)	COMBINATION DOMESTIC AND FIRE SERVICE (6")
2	DOUBLE CHECK VALVE ASSEMBLY (DCVA)	REFRIGERATOR (½"), HYDRATION STATION (½"), COFFEE MACHINE (½")
3	REDUCED PRESSURE ZONE ASSEMBLY (RPZA)	ICE MACHINE (½")
4	VACUUM BREAKER (VB)	HOSE BIBB (¾"), FROST PROOF HYDRANT (¾")

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JAN. 15, 2026

DUNG D VU LICENSE No. 83005 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
PLUMBING NOTES & LEGEND

SHEET NUMBER:
P1.0

PLUMBING FIXTURE SCHEDULE

(THE PLUMBING FIXTURES SHALL BE VERIFIED BY FRANCHISE/OWNER PRIOR TO PURCHASING OR INSTALLATION)

SYMBOL	DESCRIPTION	PROVIDE THE FOLLOWING SIZE BRANCH CONNECTION TO THE DISTRIBUTION MAIN–UNLESS OTHERWISE SPECIFIED					"P" TRAP SIZE	SPECIFICATION
		CW	HW	SAN.	VENT	REMARKS		
WC–1	WATER CLOSET (GUEST ROOM)	1/2 "	––	4"	2"	MOUNT SUPPLY LINE 9" AFF MIN.	INTEGRAL	WATER CLOSET SIGNATURE HARDWARE MODEL "SHBD200WH" 1.28 GPF. SUPPLY WITH HEAVY DUTY SLOW–CLOSING ELONGATED TOILET SEAT – WHITE SIGNATURE HARDWARE "SHTSHEC2000WH"
WC–2	WATER CLOSET (ADA GUEST ROOM)	1/2 "	––	4"	2"	MOUNT SUPPLY LINE 9" AFF MIN.	INTEGRAL	WATER CLOSET SIGNATURE HARDWARE MODEL "SHBD240WH" 1.28 GPF. BRADENTON TWO–PIECE ELONGATED TOILET WITH 12" ROUGH–IN – 16" BOW HEIGHT. SUPPLY WITH HEAVY DUTY SLOW–CLOSING ELONGATED TOILET SEAT – WHITE SIGNATURE HARDWARE "SHTSHEC2000WH"
WC–3	WATER CLOSET (EMPLOYEE RESTROOM) (ADA PUBLIC RESTROOM)	1 "	––	4"	2"	MOUNT SUPPLY LINE 9" AFF MIN.	INTEGRAL	PROFLO QPF TOILET BOWL ONLY – HAND LEVER ITEM TYPE: TOILET BOWL MODEL: PF1723WH. PROVIDE PROFLO MODEL PFTSCQFC2000WH ELONGATED OPEN FRONT COMMERCIAL TOILET SEAT WITH COVER. PROVIDE SLOAN 8111 EXPOSED SENSOR WATER CLOSET FLUSHOMETER, 1.28 GPF FLUSH VALVE – INFRARED SENSOR WITH COURTESY FLUSH OVERRIDE BUTTON, BATTERY POWERED, 3790071. ADA COMPLIANT COMPONENTS AND MOUNITING
BT–1	BATHTUB (ADA GUEST ROOM)	1/2 "	1/2 "	2"	2"	SET SHOWER SPUD HEIGHT 6'–10" AFF MIN.	2"	TUB & SHOWER UNIT IN WHITE WITH LEFT DRAIN: 60" X 32" X 76" AQUATIC MODEL"#A2603SMTHL". SUPPLY WITH ROUND MULTIFUNCTIONAL SHOWERHEAD SIGNATURE HARDWARE "948951" 1.8GPM @80PSI, SHOWER ARM AND FLANGE SIGNATURE HARDWARE "948961", PROFLO MULTI FUNCTION HAND SHOWER IN CHROME "PFHSK207CGP" 1.8 GPM AT 80 PSI. SUPPLY WITH DIVERTER TUB SPOUT PROFLO "PF1096", NON–DIVERTER TUB SPOUT FERGUSON "PF1092", 1/2 IN. MPT CONNECTION PRESSURE BALANCING VALVE SIGNATURE HARDWARE "#446520", SIGNATURE HARDWARE BERWYN ONE HANDLE BATHTUB & SHOWER FAUCET IN CHROME (TRIMONLY). SUPPLY WITH SIGNATURE HARDWARE BERWYN ONE HANDLE BATHTUB & SHOWER FAUCET IN CHROME (TRIM ONLY) IN–WALL SHOWER DIVERTER TRIM "953652". SUPPLY WITH PFWO100 SERIES BRASS LIFT & TURN DRAIN IN CHROME PROFLO " PFWO100".
SHR–1	SHOWER (GUEST ROOM)	1/2 "	1/2 "	2"	2"	SET SHOWER SPUD HEIGHT 6'–10" AFF MIN.	2"	ONE–PIECE TUB SHOWER: 60" X 32" X 72" AQUATIC MODEL "2603SG" . SUPPLY WITH ROUND MULTIFUNCTIONAL SHOWERHEAD SIGNATURE HARDWARE "948951" 1.8GPM @80PSI, SHOWER ARM AND FLANGE SIGNATURE HARDWARE "948961", PROFLO MULTI FUNCTION HAND SHOWER IN CHROME " PFHSK207CGP" 1.8 GPM AT 80 PSI, SUPPLY ELBOW PROFLO "PFSAWE02CP" , 1/2 IN. MPT CONNECTION PRESSURE BALANCING VALVE SIGNATURE HARDWARE "#446520", SIGNATURE HARDWARE BERWYN ONE HANDLE BATHTUB & SHOWER FAUCET IN CHROME (TRIM ONLY), SHOWER DRAIN FERGUSON "PF101PNC".
SHR–2	SHOWER (GUEST ROOM ADA)	1/2 "	1/2 "	2"	2"	SET SHOWER SPUD HEIGHT 6'–10" AFF MIN.	2"	CENTER DRAIN ONE–PIECE SHOWER (ROLL–IN): 60" X 34" X 75 ⅝" AQUATIC MODEL "1603BFSC–WH". SUPPLY WITH ROUND MULTIFUNCTIONAL SHOWERHEAD SIGNATURE HARDWARE "948951" 1.8GPM @80PSI, SHOWER ARM AND FLANGE SIGNATURE HARDWARE "948961", PROFLO MULTI FUNCTION HAND SHOWER IN CHROME " PFHSK207CGP" 1.8 GPM AT 80 PSI. SUPPLY 63–1/4" X 39–3/8" VIKRELL®ROLL–IN SHOWER WITH RIGHT SEAT AND GRAB BARS CENTER DRAIN STERLING "62060103–0", 1/2 IN. MPT CONNECTION PRESSURE BALANCING VALVE SIGNATURE HARDWARE "#446520", SHOWER DRAIN FERGUSON "PF101PNC". SIGNATURE HARDWARE BERWYN ONE HANDLE BATHTUB & SHOWER FAUCET IN CHROME (TRIMONLY). SUPPLY WITH SIGNATURE HARDWARE BERWYN ONE HANDLE BATHTUB & SHOWER FAUCET IN CHROME (TRIM ONLY) IN–WALL SHOWER DIVERTER TRIM "953652", IN–WALL DIVERTER ROUGH–IN VALVE "953056".
L–1	LAVATORY (GUEST ROOM)	1/2 "	1/2 "	1 1/4"	1 1/2"	SEE NOTE 1 BELOW	1 1/4"	MYERS UNDERMOUNT BATHROOM SINK WHITE: 21–1/16" X 14–9/16" X 8–1/4" / UNDERMOUNT (PORCELAIN) FERGUSON "SHU1812WH". SUPPLY WITH SIGNATURE HARDWARE "SHWSCBW100" BERWYN SINGLE–HOLE BATHROOM FAUCET WITH FINISH CHROME AND METAL. FLOW RATE 1.2 GPM @60PSI. P–TRAP PROFLO "#PFPTB106"
L–2	LAVATORY (GUEST ROOM ADA)	1/2 "	1/2 "	1 1/4"	1 1/2"	SEE NOTE 1 BELOW	1 1/4"	MYERS UNDERMOUNT BATHROOM SINK WHITE: 18" X 12–3/8" X 3–11/16" SIGNATURE HARDWARE "SKU 453257". SUPPLY WITH SIGNATURE HARDWARE "SHWSCBW100" BERWYN SINGLE–HOLE BATHROOM FAUCET WITH FINISH CHROME AND METAL. FLOW RATE 1.2 GPM @60PSI. P–TRAP PROFLO "#PFPTB106"
L–3	LAVATORY (PUBLIC RESTROOM)	1/2 "	1/2 "	2"	1 1/2"	SEE NOTE 1 BELOW	2 "	FERGUSON STYLE/SERIES: 20 X 19 IN. RECTANGULAR WALL MOUNT BATHROOM SINK IN WHITE: LENGTH: 14–3/4"XWIDTH: 10–19/50"XDEPTH: 4–3/4 PROFLO"PF5714WH". SUPPLY WITH LUBEC SENSOR BATHROOM SINK TOUCHLESS FAUCET MODEL: PFXE200CP FAUCET. FLOW RATE .5 GPM @60PSI. P–TRAP PROFLO "#PFPTB106"
SK–1	KITCHEN SINK (GUEST ROOM)	1/2 "	1/2 "	1 1/2 "	2"	––	1 1/2 "	STAINLESS STEEL SINGLE BOWL UNDERMOUNT KITCHEN SINK: 23–1/8 X 18" / UNDERMOUNT . PROFLO " PFUC3111A 23" X 18" 18GA 9" 1B SS SINK". SUPPLY WITH SIGNATURE HARDWARE " SH449003" RAVENEL SINGLE–HOLE BAR FAUCET WITH FINISH CHROME AND BRASS. FLOW RATE 1.75 GPM @60PSI. P–TRAP PROFLO "#PFPTB106". BASKET STRAINERS STAINLESS STEEL FERGUSON "PF1431SS" PROVIDE DISPOSER GENERAL ELECTRIC GFC325F 1/3 HP CONTINUOUS FEED
SK–2	KITCHEN SINK (GUEST ROOM ADA)	1/2 "	1/2 "	1 1/2 "	2"	––	1 1/2 "	ELKAY LUSTERTONE CLASSIC STAINLESS STEEL 16" X 18–1/2" X 5–3/8", SINGLE BOWL UNDERMOUNT ADA SINK" ELUHAD131655". SUPPLY WITH SIGNATURE HARDWARE " SH449003" RAVENEL SINGLE–HOLE BAR FAUCET WITH FINISH CHROME AND BRASS. FLOW RATE 1.75 GPM @60PSI. P–TRAP PROFLO "#PFPTB106". BASKET STRAINERS STAINLESS STEEL FERGUSON "PF1431SS". PROVIDE DISPOSER GENERAL ELECTRIC GFC325F 1/3 HP CONTINUOUS FEED
SK–3	BREAK SINK (EMPLOYEE BREAKROOM)	1/2 "	1/2 "	1 1/2 "	2"	––	1 1/2 "	STAINLESS STEEL SINGLE BOWL UNDERMOUNT KITCHEN SINK: 23"W X 18"L X 9" DEPTH / UNDERMOUNT . PROFLO " PFUC311TA 23" X 18" 18GA 9" 1B SS SINK. SUPPLY WITH PROFLO MODEL PFXC5157CP SINGLE HANDLE PULL OUT KITCHEN FAUCET WITH FINISH CHROME AND BRASS. FLOW RATE 1.5 GPM @60PSI. P–TRAP PROFLO "#PFPTB106". BASKET STRAINERS STAINLESS STEEL FERGUSON "PF1431SS"
SVS–1	LAUNDRY SINK (LAUNDRY ROOM)	1/2 "	1/2 "	2"	2"	––	2 "	MUSTEE 19CF 20" X 24" X 13" LAUNDRY TUB. PROVIDE WITH KOHLER K–15271–4–CP FAUCET 2.2 GPM. PROVIDE K–1814–P WALL BRACKETS, CHROME FINISHED 5" GOOSENECK FAUCET. PROVIDE KOHLER K–9115–CP STRAINER, K–13816–CP KNEE CONTROL FITTING
MS–1	MOP SINK (LAUNDRY ROOM)	3/4 "	3/4 "	3"	2"	––	3"	PROFLO PFMB SERIES 24 X 24 IN. MOP BASIN IN WHITE WITH PVC STRAINER MODEL: PFMB2424. PROVIDE PROFLO NON–POTABLE 9.3 GPM 8 IN. CENTERSET TWO HANDLE WALL MOUNT SERVICE SINK IN POLISHED CHROME FLOW RATE 9.3 GPM @80PSI. PROFLO ETERNA 5/8 X 30 IN. HOSE IN CHROME MODEL: PFSSHE ITEM #1279478 MANUFACTURER PART #149853. LENGTH: 30 IN DIAMETER/ FITTING SIZE: 5/8 IN. 24 IN. STAINLESS STEEL WALL GUARD SET MODEL: PART #PFWG245 ITEM #4203183 MANUFACTURER PART #MSG2424
WCR–1	HYDRATION STATION (PUBLIC ROOM)	1/2 "	––	1 1/4"	1 1/2 "	––	1 1/4"	TOUCH–FREE ELECTRIC SENSOR WATER DISPENSER WITH CARBON BLOCK FILTER WITH LIFECYCLE CONTROL HAWS 2000S
WB	WASHER BOX	3/4 "	3/4 "	2"	2 "	––	2"	SIOUX CHIEF SIOUX CHIEF 696–231MF FLUSH MOUNT METAL FRAME. PROVIDE W/ ¡ TURN LEVER HANDLE BALL VALVES W/SHOCK ARRESTOR.
HB–1	HOSE BIBB	3/4 "	––	––	––	––	––	HOSE BIBB WITH VACUUM BREAKER. WOODFORD B67 WITH WALL BOX AND REMOVEABLE LOOSE TEE KEY HANDLE. FREEZEPROOF ASSEMBLY.
FPH–1	FROST PROOF HYDRANT	3/4 "	––	––	––	––	––	FROST PROOF HYDRANT WOODFORD SRH–MS, FREEZELESS ROOF HYDRANT WITH BACKFLOW PREVENTOR
FD–1	FLOOR DRAIN (PUBLIC AREAS)	––	––	3"	2"	––	3"	SIOUX CHIEF #833–3PNR FINISHLINE DRAIN WITH NICKLE BRONZE TOP. FLASHING COLLAR WITH PVC BASE. ADJUSTABLE BEFORE AND AFTER CONCRETE POUR.
FD–2	FLOOR DRAIN (GUEST ROOM/ MECHANICAL ROOM)	––	––	2"	2"	––	2"	SIOUX CHIEF #833–2PNR FINISHLINE DRAIN WITH NICKLE BRONZE TOP. FLASHING COLLAR WITH PVC BASE. ADJUSTABLE BEFORE AND AFTER CONCRETE POUR.
FS–1	FLOOR SINK (KITCHEN AREA)	––	––	3"	2"	––	3"	SIOUX CHIEF #861 SERIES – 12" CAST IRON FLOOR SINK WITH 6–1/8" DEEP SUMP, ACID RESISTANT, OPEN HALF NICKLE BRONZE GRATE, STAINLESS STEEL DEBRIS SCREEN FLOOR SINK SHALL BE MOLDED WITH IMPACT–MODIFIED PVC WITH SCH 40 HUB CONNECTION. STRAINER SHALL BE HEAL PROOF AND MEET ALL APPLICABLE LOAD REQUIREMENTS FOR INTENDED USE.
FS–2	FLOOR SINK (GENERAL AREAS)	––	––	3"	2"	––	3"	SIOUX CHIEF #861–4PNV SERIES – 12 X 12 ACID RESISTANT FLOOR SINK TO BE INSTALLED WITH NICKLE BRONZE TOP WITH APPLICABLE GRATE CONFIGURATION. ALUMINUM DOME STRAINER TO BE PROVIDED AND INSTALLED
CO	EXTERIOR CLEANOUT	––	––	––	––	––	––	SIOUX CHIEF # 834–4DNRV – ON GRADE CLEANOUT, DUCTILE BODY, 4" NO HUB CONNECTION,ROUND NICKLE BRONZE TOP,VANDLE RESISTANCE SCREWS, FINISHLINE STYLE ADJUSTABLE AFTER CONCRETE POUR.
FCO	FLOOR CLEANOUTS (ON GRADE CLEANOUT HEAVY DUTY)	––	––	––	––	––	––	SIOUX CHIEF # 834–4DNRVH – ON GRADECLEANOUT, DUCTILE BODY, 4" NO HUB CONNECTION,HEAVY DUTY ROUND NICKLE BRONZE TOP,VANDLE RESISTANCE SCREWS, FINISHLINE STYLE ADJUSTABLE AFTER CONCRETE POUR.
	FLOOR CLEANOUTS (ABOVE GRADE CLEANOUT TO BE ORDERD WITH CLAMPING COLLAR KIT 822–CKIT)	––	––	––	––	––	––	SIOUX CHIEF # 822–CF3DNRV/ # 822–CF4DNRV – FLOOR CLEANOUTS, 18GA STAINLESS DECK/ MOUNTING FLANGE,DUCTILE IRON BODY, NO HUB CONNECTION, ROUND NICKLE BRONZE TOP,FINISHLINE ADJUSTABLE AFTER CONCRETE POUR,VANDAL RESISTANT SCREWS WITH CLAMPING COLAR 822–CKIT
EW	EYE WASH	1/2"	1/2"	1 1/2 "	1 1/2 "		1 1/2 "	EYE WASH MODEL 7260BT–7270BT HAWS CORP
TMV	THERMOSTATIC MIXING VALVE (PUBLIC LAVATORY & HAND SINK)	––	––	––	––	––	––	THERMOSTATIC MIXING VALVE FOR RESTROOM LAVATORY: ZURN #ZW1070XL ASSE R LISTED 1070, 10 GAL/MIN @ 45 PSI PRESSURE LOSS, 0.5 GAL/MIN MINIMUM. SET UP HOT WATER DELIVERED FOR PUBLIC LAVATORIES MAXIMUM TEMPERATURE OF 120'F
	THERMOSTATIC MIXING VALVE (ONLY EYE WASH)	––	––	––	––	––	––	THERMOSTATIC MIXING VALVE FOR EYEWASH. SET UP THE HOT WATER TEMPERATURE DELIVERED FOR EYEWASH TO BE BETWEEN 65 AND 90 DEGREES. HAWS MODEL # 9201EW.
ABV	AUTOMATIC BALANCING VALVE	––	––	––	––	––	––	HAYS MODEL 2510 MESURFLO® INLINE AUTOMATIC BALANCING VALVE

NOTE: 1. ALL BATH LAVATORY DRAINS ARE TO ROUGHED IN 16" ABOVE THE FLOOR HEIGHT TO AVOID INTERFERENCE OF THE VANITY BASE SHELF AND P–TRAP.
2. FIXED SHOWER HEAD SHOULD BE ROUGHED IN AT 6'–11" A.F.F.

GAS FIRED WATER HEATER SCHEDULE

ITEM NO.	MANUFACTURER & MODEL	QUANTITY	TYPE	CAPACITY (GAL.)	DELIVERY TEMP	RECOVERY (GAL/HOUR /EACH)	NATURAL GAS INPUT (MBH)	THERMAL EFFIENCY	INTAKE/EXHAUST (PVC)	ELEC.	WEIGHT (LBS)/ EACH	REMARKS
WH–1, 2, 3, 4, 5 (FOR GUESTROOMS, RESTROOMS, OTHER PUBLIC AREAS...)	A.O SMITH BTH–199(A)	5	HIGH EFF. DIRECT VENT	100	105'F	470 @ 50'F. RISE	199.9	97%	3" (0'–50') 4" (51'–120')	––	555	PROVIDE COMPLETE WATER HEATER FOR SEALED VERTICAL DIRECT VENT OPERATION INCLUDING PIPING AND MANUFACTURERS TERMINATION KIT.
ALTERNATE MANUFACTURERS: BRADFORD WHITE, RHEEM/RUUD, STATE, LOCHINVAR												
NOTES: PROVIDE WITH 3 YEARS WARRANTY												

CIRCULATING PUMP SCHEDULE

EQUIPMENT NO.	LOCATED	MANU.	MODEL	GPM	HEAD (FT.)	MOTOR			CONNECTIONS	
						HP	RPM	VOLTAGE	SUCTION	DISCHARGE
CIRCULATE PUMP–1	MECHANICAL ROOM	AMSTRONG	H53	10.25	27	½	1800	115/1ϕ/60	1 ½"	1 ½"
CIRCULATE PUMP–2	MECHANICAL ROOM	AMSTRONG	H32	1.0	15	⅛	1800	115/1ϕ/60	1"	1"
CIRCULATE PUMP–3	CORRIDOR 4TH FLOOR	AMSTRONG	H51	9.0	22	⅛	1800	115/1ϕ/60	1"	1"

WATER FILTRATION SYSTEM SCHEDULE

EQUIPMENT NO.	MODEL	QUANTITY	MAX OPERATING TEMP	MAX FLOW RATES	NOMINAL DIMENSIONS	MICRON	ENDCAPS
WF–1	TRIPLE CLEAR FORCE FIELD	3	160F	45GPM (PER FILTER)	40" LENGTH, 7" DIAMETER	EFFECTIVE MICRON RATE .001	222, 226, DOE
WF–2	POINT OF USE (POU) TC–POU–5–KIT	4	TRIPLE CLEAR TC–POU–5–KIT FORCE FIELD. POINT OF USE WATER FILTRATION WITH CARBON SPECIFICATION				

COLD WATER SUPPLY FIXTURE UNITS (CWSFU)

NO.	FIXTURE	X	CWSFU	=	TOTAL
PRIVATE					
124	WATER CLOSET	X	2.2	=	272.80
124	LAVATORY	X	0.7	=	86.80
124	SHOWER/BATHTUB	X	1.4	=	173.60
124	KITCHEN SINK	X	1.4	=	173.60
124	DISH WASHER	X	1.4	=	173.60
PUBLIC					
1	WATER CLOSET (FLUSH VALVE)	X	10	=	10.00
1	LAVATORY	X	2	=	2.00
1	MOP SINK	X	4	=	4.00
1	UTILITY SINK	X	3	=	3.00
1	BREAK SINK	X	3	=	3.00
2	EYE WASH	X	3	=	6.00
6	GUEST WASHER	X	1.4	=	8.40
2	COMMERCIAL CLOTHES WASHER	X	4	=	8.00
1	HYDRATION STATION	X	0.25	=	0.25
1	COFFEE MACHINE	X	1	=	1.00
1	ICE MACHINE	X	1	=	1.00
1	REFRIGERATOR	X	1	=	1.00
9	HOSE BIBB	X	1	=	9.00
					937.05

TOTAL DEMAND BASED ON 937.05 FIXTURE UNIT FOR FLUSH VALVE = 200 GPM. USE 4" MAIN. LOSS PER 100 FEET: 1.0 PSI

CHOOSE: 4" COMBINATION WATER METER AND FIRE

COLD WATER CALCULATION COMPLY WITH 2023 FLORIDA BUILDING CODE–PLUMBING, 8TH EDITION

HOT WATER SUPPLY FIXTURE UNITS (FOR GUESTROOMS, RESTROOMS, OTHER PUBLIC AREAS...)

NO.	FIXTURE	X	HWSFU	=	TOTAL
PRIVATE					
124	LAVATORY	X	0.5	=	62.00
124	SHOWER/BATHTUB	X	1	=	124.00
124	KITCHEN SINK	X	1	=	124.00
124	DISHWASHER	X	1.4	=	173.60
PUBLIC					
1	LAVATORY	X	1.5	=	1.50
1	MOP SINK	X	3	=	3.00
1	UTILITY SINK	X	2.25	=	2.25
1	BREAK SINK	X	2.25	=	2.25
2	EYE WASH	X	2.25	=	4.50
6	GUEST WASHER	X	1	=	6.00
2	COMMERCIAL CLOTHES WASHER	X	3	=	6.00
					509.10

CALCULATION OF STORAGE WATER HEATER:

POSSIBLE HOT WATER DEMAND BASED ON 509.10 FIXTURE UNIT = 126 GPM.

PROBABLE MAXIMUM DEMAND: 126 GPM x 0.15 = 18.9 GPM

HEATING CAPACITY REQUIRED (TO RISE UP COLD WATER 65'F TO 140'F): 712 001 BTUH

AS PER FRANCHISE REQUIREMENT, USING "N+1" DESIGN APPROACH FOR BACKUP

SELECT 5 NOS. STORAGE WATER HEATER 199 900 BTU/EACH (FOR GUESTROOMS, RESTROOMS, OTHER PUBLIC AREAS...)

HOT WATER CALCULATION COMPLY WITH 2023 FLORIDA BUILDING CODE–PLUMBING, 8TH EDITION

DRAINAGE FIXTURE UNITS (DFU) SUMMARY

NO.	FIXTURE	X	DFU	=	TOTAL
PRIVATE					
124	WATER CLOSET	X	3	=	372.00
124	LAVATORY	X	1	=	124.00
124	BATHTUB/SHOWER	X	2	=	248.00
124	KITCHEN SINK	X	2	=	248.00
124	DISH WASHER	X	2	=	248.00
PUBLIC					
1	WATER CLOSET (FLUSH VALVE)	X	4	=	4.00
1	LAVATORY	X	1	=	1.00
1	MOP SINK	X	3	=	3.00
1	UTILITY SINK	X	2	=	2.00
1	BREAK SINK	X	2	=	2.00
2	EYE WASH	X	2	=	4.00
6	GUEST WASHER	X	2	=	12.00
2	COMMERCIAL CLOTHES WASHER	X	3	=	6.00
1	HYDRATION STATION	X	0.5	=	0.50
3	FLOOR DRAIN 2"	X	4	=	12.00
5	FLOOR DRAIN 3"	X	5	=	25.00
2	FLOOR SINK 3"	X	3	=	6.00
1	FLOOR SINK 4"	X	6	=	6.00
					1317.50

USE 8" MAIN SLOPED @1/8" PER FOOT

SANITARY SEWER CALCULATION COMPLY WITH 2023 FLORIDA BUILDING CODE–PLUMBING, 8TH EDITION

1. REQUIRED WATER SUPPLY SYSTEM PRESSURE

THE DOMESTIC WATER SUPPLY SYSTEM IS DESIGNED TO ENSURE THAT THE MOST REMOTE AND HIGHEST FIXTURE RECEIVES A MINIMUM OUTLET PRESSURE OF 40 PSI (PER MARRIOTT'S REQUIREMENT).

THE REQUIRED SYSTEM PRESSURE COMPONENTS ARE CALCULATED AS FOLLOWS:

(A) STATIC PRESSURE TO LIFT WATER TO THE HIGHEST FLOOR AT AN ELEVATION OF 51 FEET: 51 FT X 0.43 PSI/FT = 21.93 PSI.

(B) FRICTION LOSSES THROUGH FITTINGS, ESTIMATED AT 10% OF THE STATIC PRESSURE: 10% X 21.93 = 2.19 PSI.

(C) PIPE FRICTION LOSSES OVER 500 FEET OF PIPING FROM THE WATER METER TO THE MOST REMOTE FIXTURE:

5.0 PSI (BASED ON 1.0 PSI PER 100 FT, TABLE APPENDIX E, 2023 FLORIDA CODE PLUMBING 8TH EDITION)

(D) REQUIRED OUTLET PRESSURE AT THE MOST REMOTE/HIGHEST FIXTURE: 40 PSI.

THEREFORE, THE TOTAL REQUIRED WATER SYSTEM PRESSURE IS:

(E) TOTAL SYSTEM PRESSURE REQUIRED

= (A) + (B) + (C) + (D) = 21.93 + 2.19 + 5.0 + 40

= 69.12 PSI.

WATER SUPPLY SYSTEM PRESSURE

	COMPONENT	VALUE (PSI)	NOTES
A	STATIC PRESSURE TO REACH HIGHEST FLOOR (51 FT)	21.93	0.43 PSI/FT
B	FRICTION LOSS THROUGH FITTINGS (10% OF STATIC PRESSURE)	2.19	ESTIMATED
C	PIPE FRICTION LOSS (500 FT)	5.00	1.0 PSI PER 100 FT, TABLE APPENDIX E, 2023 FLORIDA CODE PLUMBING, 8TH EDITION
D	REQUIRED FIXTURE OUTLET PRESSURE	40	MINIMUM REQUIRED
E	TOTAL SYSTEM PRESSURE REQUIRED	69.12	(A)+(B)+(C)+(D)

2. AVAILABLE CITY WATER PRESSURE

THE RESIDUAL PRESSURE AT BUILDING INLET IS BASED ON THE FLOW TEST REPORT FOR THE PROJECT SITE.

THE BUILDING INLET PRESSURE: 25.0 PSI, WHICH IS LESS THAN THE REQUIRED SYSTEM PRESSURE OF 69.12 PSI.

CONCLUSION: A BOOSTER PUMP IS REQUIRED TO MEET DESIGN PRESSURES.

3. BOOSTER PUMP PRESSURE CALCULATION

THE FOLLOWING PRESSURE LOSSES OCCUR UPSTREAM OF THE BOOSTER PUMP SUCTION:

(F) RESIDUAL INLET PRESSURE: 55 PSI

(G) FRICTION LOSS IN THE BOOSTER PUMP SUCTION PIPING: 5 PSI

(H) PRESSURE LOSS THROUGH 4" WATER METER: 16.00 PSI @ 1700GPM (PER AWWA STANDARDS)

(I) PRESSURE LOSS THROUGH 6" REDUCED PRESSURE BACKFLOW PREVENTER (RPBP): 14.00 PSI @ 1700GPM (PER WATTS SERIES)

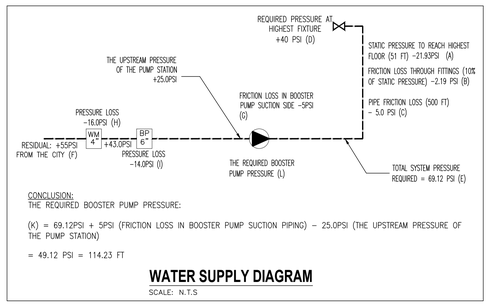
BOOSTER PUMP CALCULATIONS

	COMPONENT	VALUE (PSI)	NOTES
F	RESIDUAL INLET PRESSURE	55	ESTIMATED
G	FRICTION LOSS IN THE BOOSTER PUMP SUCTION PIPING	5.00	ESTIMATED
H	PRESSURE LOSS THROUGH 4 INCH COMPOUND WATER METER	16	16.0 PSI @ 1700GPM (PER AWWA STANDARDS)
I	PRESSURE LOSS THROUGH 6 INCH REDUCED PRESSURE BACKFLOW PREVENTER	14	14.0 PSI @ 1700GPM (WATT SERIES)
J	THE UPSTREAM PRESSURE OF THE PUMP STATION	25.00	(F)–(H)–(I)
K	REQUIRED PUMP SYSTEM BOOST	49.12	(E)+(G)–(J)
		114.23	

CAPACITY SPLIT

SYSTEM TYPE	%	%
DUPLEX	60	60
	P1 – GPM	P2 – GPM
PUMP CAPACITY (TOTAL CAPACITY x % SPLIT)	120	120

SELECT BOOSTER SYSTEM: ARMSTRONG DUPLEX BOOSTER MODEL 6800G SERIES VMS–3202–2, Q=120 GPM, H=114.23 FEET (7.5HP–EACH PUMP, 208V/3ϕ/60HZ)
SEE BOOSTER PUMP SCHEDULE ON THIS SHEET



CONCLUSION:
THE REQUIRED BOOSTER PUMP PRESSURE:

(K) = 69.12PSI + 5PSI (FRICTION LOSS IN BOOSTER PUMP SUCTION PIPING) – 25.0PSI (THE UPSTREAM PRESSURE OF THE PUMP STATION)

= 49.12 PSI = 114.23 FT

WATER SUPPLY DIAGRAM

SCALE: N.T.S

BOOSTER PUMP SCHEDULE

MARK	LOCATION	MANUFACTURER	MODEL	TYPE	GPM	HEAD (FT.)	MOTOR			CONNECTIONS		REMARKS
							HP	RPM	VOLTAGE	SUCTION	DISCHARGE	
BP	BOOSTER PUMP ROOM	ARMSTRONG	6800G	DUPLEX BOOSTER	120 (EA. PUMP)	114.23	7.5 (EA. PUMP)	3500	208/3ϕ/60	4"	4"	DUPLEX PACKAGED BOOSTER SYSTEM BASED ON ARMSTRONG NO. 6800G WITH (2) 7.5 HP VMS–3202–2 VARIABLE SPEED PUMPS. PROVIDE WITH INTEGRAL DISCONNECT.

SUMP PUMP SCHEDULE

MARK	LOCATION	MANUFACTURER	MODEL	TYPE	GPM	HEAD (FT.)	MOTOR			CONNECTIONS	
							HP	RPM	VOLTAGE	SUCTION	DISCHARGE
SP–1	ELEVATOR SUMP PIT	ZOELLER	M98	SUBMERSIBLE	50	13	1/2	1725	120/1ϕ/60	N/A	1 1/2"
NOTE: SUMP PIT WILL BE DESIGNED BY OTHER CONSULTANTS.											

GAS SCHEMATIC DIAGRAM (2 PSI)

SCALE: N.T.S

BASIS OF DESIGN

MAXIMUM DEMAND = 2,167,400 BTUH (2371.4 MBH)

TOTAL DEVELOPED LENGTH FROM THE GAS METER TO THE MOST REMOTE OUTLET = 200 FT.

INLET PRESSURE: 2 PSI

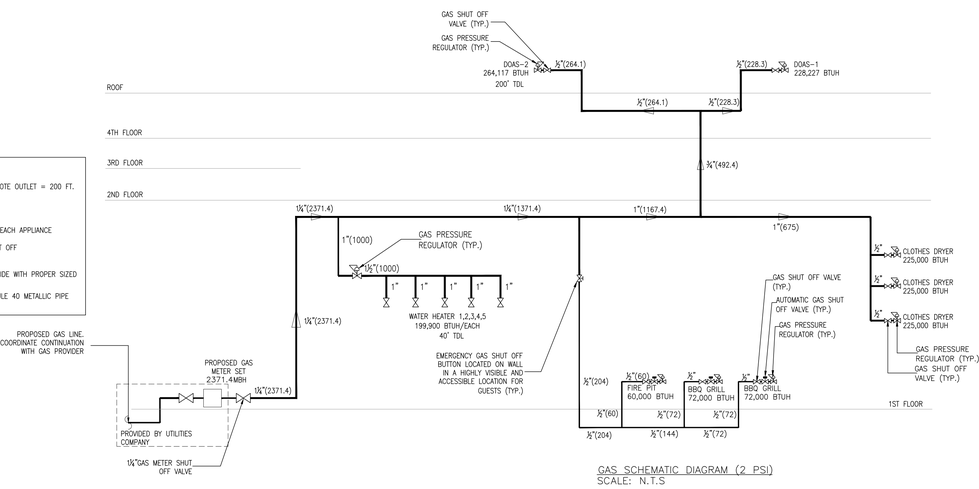
PRESSURE DROP: 1 PSI

INSTALL GAS SHUT OFF VALVE AND GAS PRESSURE REGULATOR FOR EACH APPLIANCE

INSTALL AUTOMATIC GAS SHUT OFF VALVE AND EMERGENCY GAS SHUT OFF VALE FOR ONLY FIRE PIT & BBQ GRILL

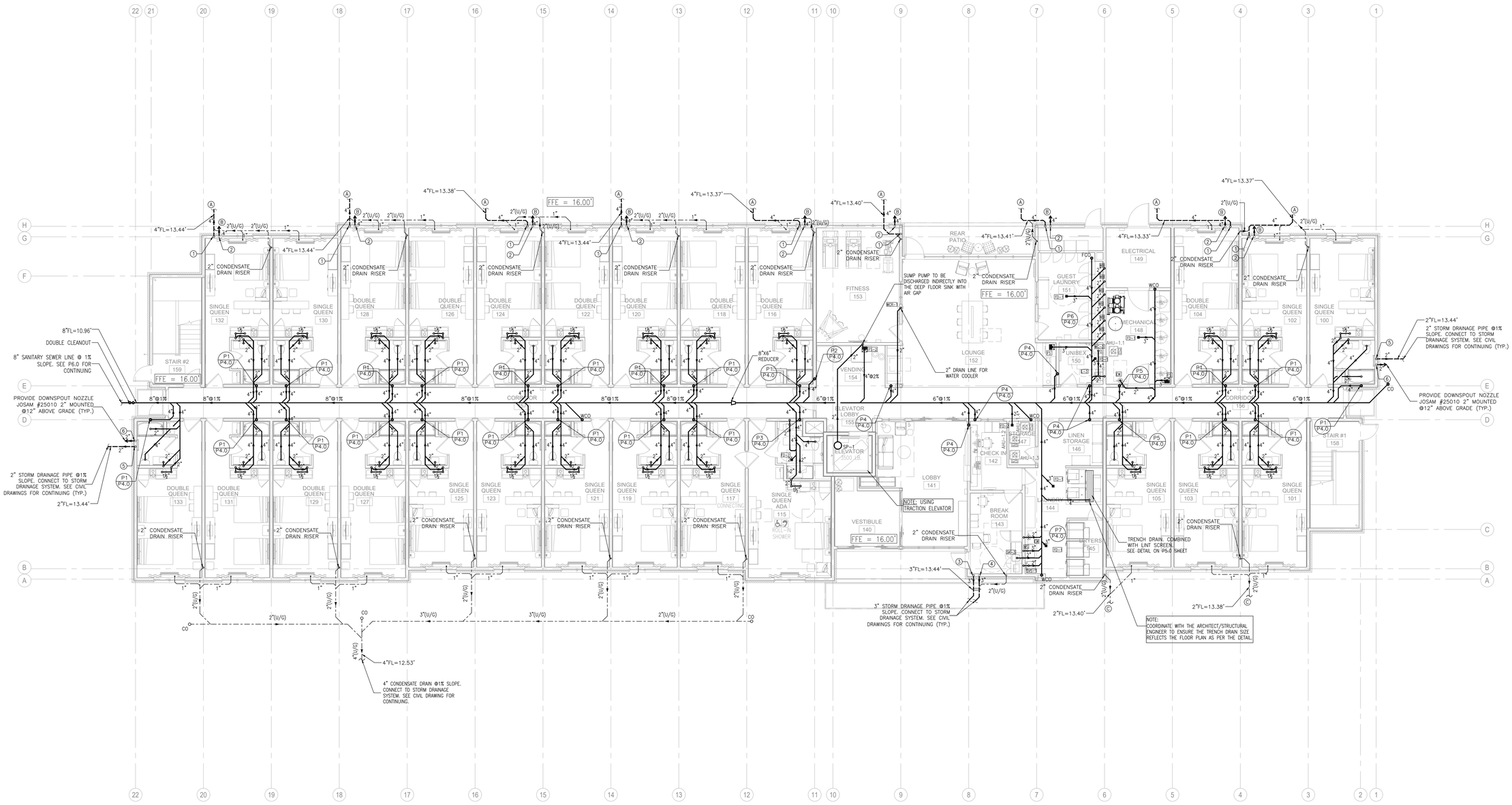
EVERY REGULATOR INSTALLED INSIDE BUILDING WILL BE VENTED OUTSIDE WITH PROPER SIZED PIPE

GAS CALCULATION COMPLY WITH TABLE 402.4(2) & 402.4(5) SCHEDULE 40 METALLIC PIPE 2023 FLORIDA BUILDING CODE–FUEL GAS, 8TH EDITION



GAS SCHEMATIC DIAGRAM (2 PSI)
SCALE: N.T.S

MEP GREEN DESIGN & BUILD P



1 SANITARY SEWER FIRST FLOOR PLAN

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

KEYED NOTES:

1. 4" ROOF DRAIN RISER
2. 4" OVERFLOW DRAIN RISER
3. 3" ROOF DRAIN RISER
4. 3" OVERFLOW DRAIN RISER
5. 2" ROOF DRAIN RISER
6. 2" OVERFLOW DRAIN RISER
- (A) 4" STORM DRAINAGE PIPE @1% SLOPE. CONNECT TO STORM DRAINAGE SYSTEM. SEE CIVIL DRAWINGS FOR CONTINUING (TYP.)
- (B) PROVIDE DOWNSPOUT NOZZLE JOSAM #25010 4" MOUNTED @12" ABOVE GRADE (TYP.)
- (C) 2" CONDENSATE DRAIN @1% SLOPE. CONNECT TO STORM DRAINAGE SYSTEM. SEE CIVIL DRAWING FOR CONTINUING.

NOTES:

1. FOR GENERAL NOTES, PLUMBING FIXTURES AND SPECIFICATIONS, SEE PLUMBING DRAWING P1.0, P1.1.
2. FOR DRAWING CLARITY, SEE THE VENT PIPING WITH SIZING ON RISER DIAGRAM P4.0, P4.1.
3. ALL PENETRATIONS THROUGH FIRE WALL MUST BE SEALED TO MEET THE CRITERIA.
4. FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1.
5. FOR GAS SCHEMATIC DIAGRAM SEE PLUMBING DRAWING P1.1.
6. ALL FLOOR DRAINS/ FLOOR SINKS TO BE INSTALLED W/TRAP PRIMERS.
7. CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE FOR WATER HEATER SYSTEM
8. VACUUM RELIEF VALVE INSTALLED IN THE COLD WATER SUPPLY LINE ABOVE THE TOP OF THE HEATER OR TANK, SHALL BE PROVIDED TO PREVENT SIPHONING OF ANY STORAGE WATER HEATER OR TANK.
9. DRAIN SIZES FROM PLUMBING FIXTURES SHALL BE AS FOLLOWS:
   WATER CLOSETS – 4"ø
   BATHTUB/SHOWER – 2"ø
   LAVATORY – 2"ø
   FLOOR DRAIN IN GUESTROOMS – 2"ø
   FLOOR DRAIN IN PUBLIC AREAS – 2"ø/3"ø
   FLOOR SINK – 3"ø

1. THE PLUMBING CONTRACTOR MUST PREPARE SHOP DRAWING TO COORDINATE WITH STRUCTURAL ENGINEER BEFORE INSTALLING AND GUARANTEE THE WATER, SEWER AND STORM LINE DO NOT RUNNING ALONG WITH THE GRADE BEAMS.

2. THE CONTRACTOR MUST PERFORM THE COLD/HOT WATER BALANCING TO ENSURE SUFFICIENT HOT WATER THAT DELIVERS TO EVERY GUESTROOM UNIT BEFORE CEILING TILE IS INSTALLED

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JAN. 15, 2026

BUNG D. VU LICENSE No. 83005 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

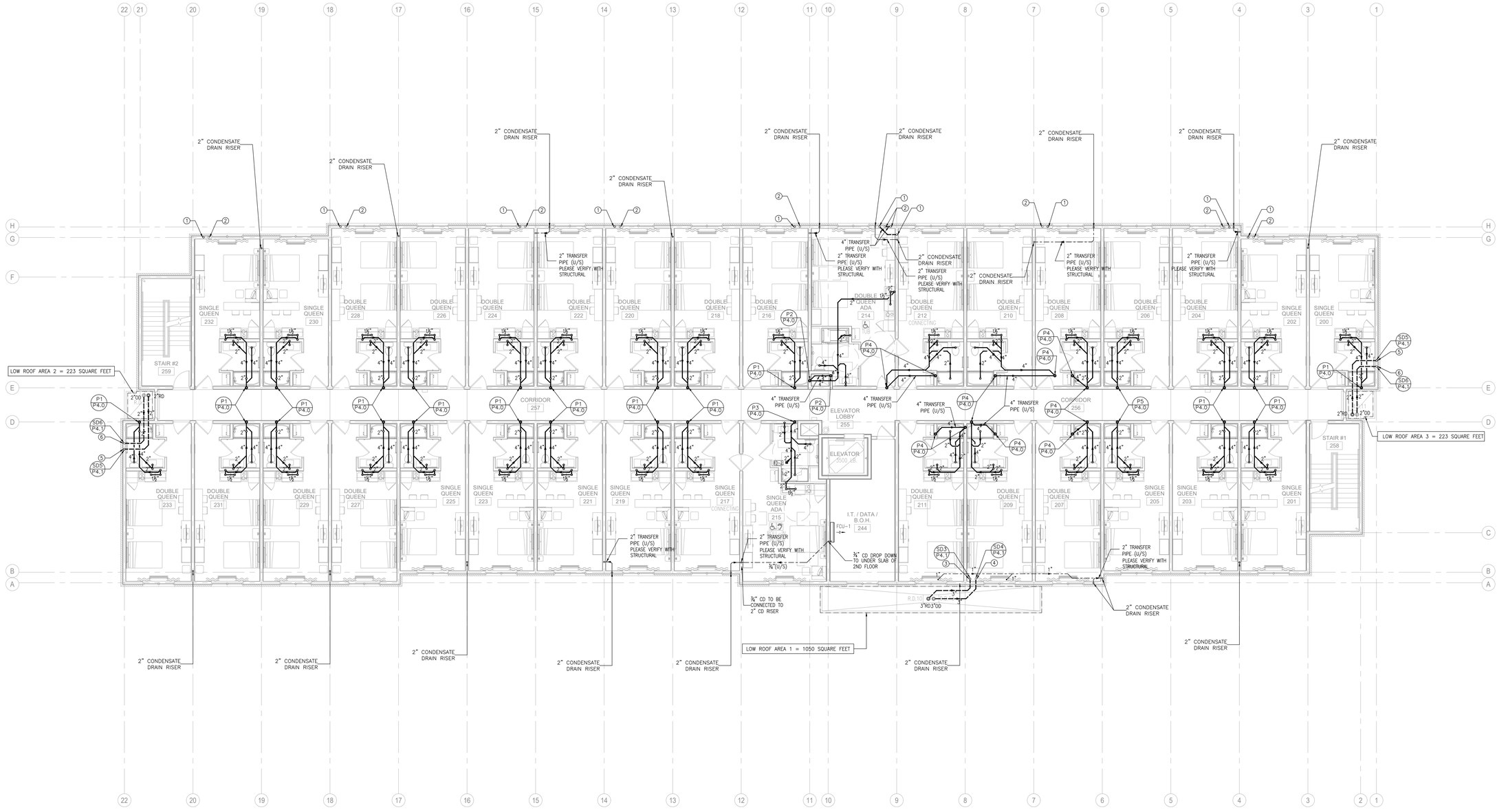
Panama City Beach, FL

???? S Thomas Dr, Panama City Beach, FL 32408, USA.

STUDIO**RES**

SHEET TITLE:
SANITARY SEWER FIRST FLOOR PLAN

SHEET NUMBER:
P2.0



NOTES:

1. FOR GENERAL NOTES, PLUMBING FIXTURES AND SPECIFICATIONS, SEE PLUMBING DRAWING P1.0, P1.1.
2. FOR DRAWING CLARITY, SEE THE VENT PIPING WITH SIZING ON RISER DIAGRAM P4.0, P4.1.
3. ALL PENETRATIONS THROUGH FIRE WALL MUST BE SEALED TO MEET THE CRITERIA.
4. FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1.
5. FOR GAS SCHEMATIC DIAGRAM SEE PLUMBING DRAWING P1.1.
6. ALL FLOOR DRAINS/ FLOOR SINKS TO BE INSTALLED W/TRAP PRIMERS.
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   LAVATORY – 2"ø
   FLOOR DRAIN IN GUESTROOMS – 2"ø
   FLOOR DRAIN IN PUBLIC AREAS – 2"ø/3"ø
   FLOOR SINK – 3"ø

1. THE PLUMBING CONTRACTOR MUST PREPARE SHOP DRAWING TO COORDINATE WITH STRUCTURAL ENGINEER BEFORE INSTALLING AND GUARANTEE THE WATER, SEWER AND STORM LINE DO NOT RUNNING ALONG WITH THE GRADE BEAMS.

2. THE CONTRACTOR MUST PERFORM THE COLD/HOT WATER BALANCING TO ENSURE SUFFICIENT HOT WATER THAT DELIVERS TO EVERY GUESTROOM UNIT BEFORE CEILING TILE IS INSTALLED

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ROOF DRAIN CALCULATION: (LOW ROOF)

	PROJECTED ROOF AREA	ONE HALF OF VERTICAL ROOF AREA	TOTAL ROOF AREA (SQUARE FEET)	CAPACITY OF ROOF DRAIN (GPM)	NO. OF RD	SERVED CAPACITY OF EACH ROOF DRAIN (GPM)
LOW ROOF AREA 1	210	840	1050	54.6	1	54.6

BASED ON 2023 FLORIDA BUILDING CODE–PLUMBING, 8TH EDITION (APPENDIX B) AND TABLE 1106.2:

– RAIN FALL IN INCHES PER HOUR: 5.0" (APPENDIX B)

– 3" ROOF DRAIN IS SERVED FOR 55 GPM WITH SLOPE 1% (TABLE 1106.2)

=> THE LARGEST CAPACITY FOR ONE ROOF DRAIN IS 55 GPM WITH SLOPE 1%.

OVERFLOW DRAIN SHALL BE THE SAME SIZE AS R.D. AND SET 2" ABOVE R.D

– CHOOSE 1 NO. ROOF DRAIN 3"(D) FOR LOW ROOF AREA 1

ROOF DRAIN CALCULATION: (LOW ROOF)

	PROJECTED ROOF AREA	ONE HALF OF VERTICAL ROOF AREA	TOTAL ROOF AREA (SQUARE FEET)	CAPACITY OF ROOF DRAIN (GPM)	NO. OF RD	SERVED CAPACITY OF EACH ROOF DRAIN (GPM)
LOW ROOF AREA 2	23	200	223	11.6	1	11.6
LOW ROOF AREA 3	23	200	223	11.6	1	11.6

BASED ON 2023 FLORIDA BUILDING CODE–PLUMBING, 8TH EDITION (APPENDIX B) AND TABLE 1106.2:

– RAIN FALL IN INCHES PER HOUR: 5.0" (APPENDIX B)

– 2" ROOF DRAIN IS SERVED FOR 22 GPM WITH SLOPE 1% (TABLE 1106.2)

=> THE LARGEST CAPACITY FOR ONE ROOF DRAIN IS 22 GPM WITH SLOPE 1%.

OVERFLOW DRAIN SHALL BE THE SAME SIZE AS R.D. AND SET 2" ABOVE R.D

1 SANITARY SEWER SECOND FLOOR PLAN

SCALE: 1/8"=1'–0"

KEYED NOTES:
1. 4" ROOF DRAIN RISER
2. 4" OVERFLOW DRAIN RISER
3. 3" ROOF DRAIN RISER
4. 3" OVERFLOW DRAIN RISER
5. 2" ROOF DRAIN RISER
6. 2" OVERFLOW DRAIN RISER

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JAN. 15, 2026

BUNG D VU LICENSE No. 83005 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project #:	2502
Issue Date:	01–15–2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

Panama City Beach, FL

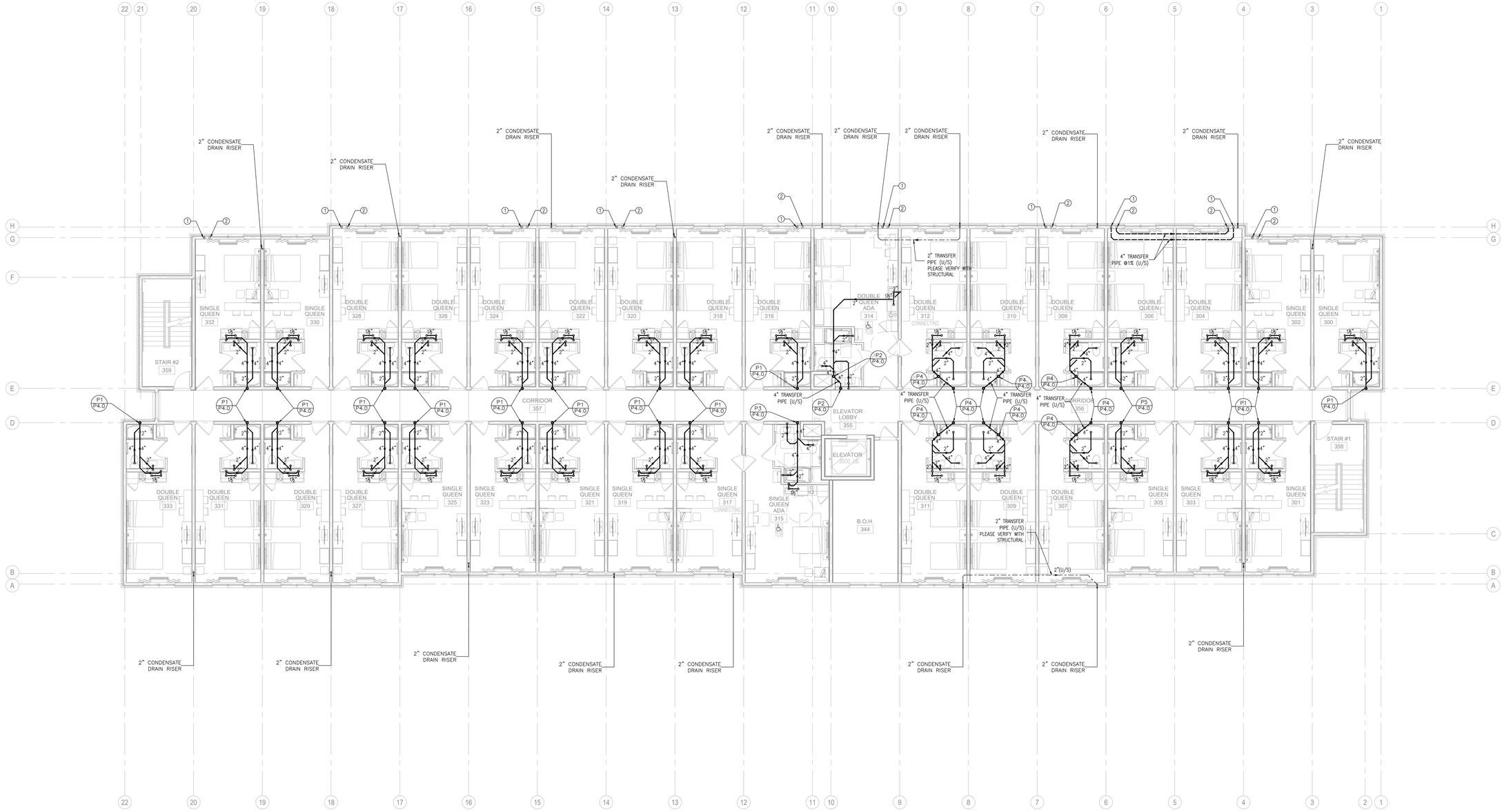
??? S Thomas Dr. Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
SANITARY SEWER SECOND FLOOR PLAN

SHEET NUMBER:

P2.1



1 SANITARY SEWER THIRD FLOOR PLAN

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

KEYED NOTES:
1. 4" ROOF DRAIN RISER
2. 4" OVERFLOW DRAIN RISER

NOTES:

1. FOR GENERAL NOTES, PLUMBING FIXTURES AND SPECIFICATIONS, SEE PLUMBING DRAWING P1.0, P1.1.
2. FOR DRAWING CLARITY, SEE THE VENT PIPING WITH SIZING ON RISER DIAGRAM P4.0, P4.1.
3. ALL PENETRATIONS THROUGH FIRE WALL MUST BE SEALED TO MEET THE CRITERIA.
4. FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1.
5. FOR GAS SCHEMATIC DIAGRAM SEE PLUMBING DRAWING P1.1.
6. ALL FLOOR DRAINS/ FLOOR SINKS TO BE INSTALLED W/TRAP PRIMERS.
7. CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE FOR WATER HEATER SYSTEM
8. VACUUM RELIEF VALVE INSTALLED IN THE COLD WATER SUPPLY LINE ABOVE THE TOP OF THE HEATER OR TANK, SHALL BE PROVIDED TO PREVENT SIPHONING OF ANY STORAGE WATER HEATER OR TANK.
9. DRAIN SIZES FROM PLUMBING FIXTURES SHALL BE AS FOLLOWS:
   WATER CLOSETS – 4"ø
   BATHTUB/SHOWER – 2"ø
   LAVATORY – 2"ø
   FLOOR DRAIN IN GUESTROOMS – 2"ø
   FLOOR DRAIN IN PUBLIC AREAS – 2"ø/3"ø
   FLOOR SINK – 3"ø

1. THE PLUMBING CONTRACTOR MUST PREPARE SHOP DRAWING TO COORDINATE WITH STRUCTURAL ENGINEER BEFORE INSTALLING AND GUARANTEE THE WATER, SEWER AND STORM LINE DO NOT RUNNING ALONG WITH THE GRADE BEAMS.
2. THE CONTRACTOR MUST PERFORM THE COLD/HOT WATER BALANCING TO ENSURE SUFFICIENT HOT WATER THAT DELIVERS TO EVERY GUESTROOM UNIT BEFORE CEILING TILE IS INSTALLED

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JAN. 15, 2026

DUNG D VU LICENSE No. 83005 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

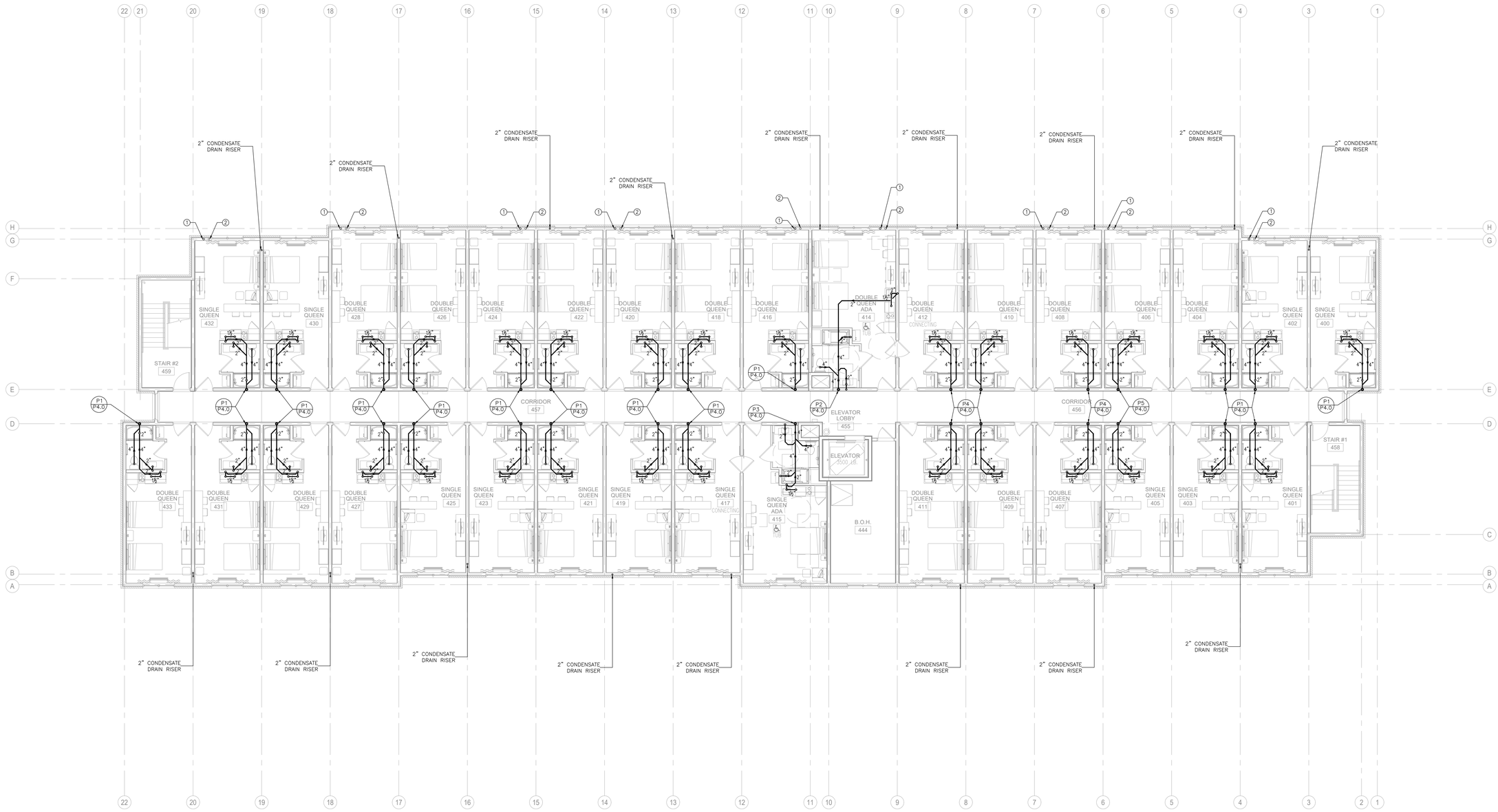
Panama City Beach, FL

???? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
SANITARY SEWER
THIRD FLOOR PLAN

SHEET NUMBER:
P2.2



1 SANITARY SEWER FOURTH FLOOR PLAN

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

NOTES:

1. FOR GENERAL NOTES, PLUMBING FIXTURES AND SPECIFICATIONS, SEE PLUMBING DRAWING P1.0, P1.1.
2. FOR DRAWING CLARITY, SEE THE VENT PIPING WITH SIZING ON RISER DIAGRAM P4.0, P4.1.
3. ALL PENETRATIONS THROUGH FIRE WALL MUST BE SEALED TO MEET THE CRITERIA.
4. FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1.
5. FOR GAS SCHEMATIC DIAGRAM SEE PLUMBING DRAWING P1.1.
6. ALL FLOOR DRAINS/ FLOOR SINKS TO BE INSTALLED W/TRAP PRIMERS.
7. CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE FOR WATER HEATER SYSTEM
8. VACUUM RELIEF VALVE INSTALLED IN THE COLD WATER SUPPLY LINE ABOVE THE TOP OF THE HEATER OR TANK, SHALL BE PROVIDED TO PREVENT SIPHONING OF ANY STORAGE WATER HEATER OR TANK.
9. DRAIN SIZES FROM PLUMBING FIXTURES SHALL BE AS FOLLOWS:
   WATER CLOSETS – 4"ø
   BATHTUB/SHOWER – 2"ø
   LAVATORY – 2"ø
   FLOOR DRAIN IN GUESTROOMS – 2"ø
   FLOOR DRAIN IN PUBLIC AREAS – 2"ø/3"ø
   FLOOR SINK – 3"ø

1. THE PLUMBING CONTRACTOR MUST PREPARE SHOP DRAWING TO COORDINATE WITH STRUCTURAL ENGINEER BEFORE INSTALLING AND GUARANTEE THE WATER, SEWER AND STORM LINE DO NOT RUNNING ALONG WITH THE GRADE BEAMS.

2. THE CONTRACTOR MUST PERFORM THE COLD/HOT WATER BALANCING TO ENSURE SUFFICIENT HOT WATER THAT DELIVERS TO EVERY GUESTROOM UNIT BEFORE CEILING TILE IS INSTALLED

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JAN. 15, 2026

DUNG D VU LICENSE No. 83005 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

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Panama City Beach, FL

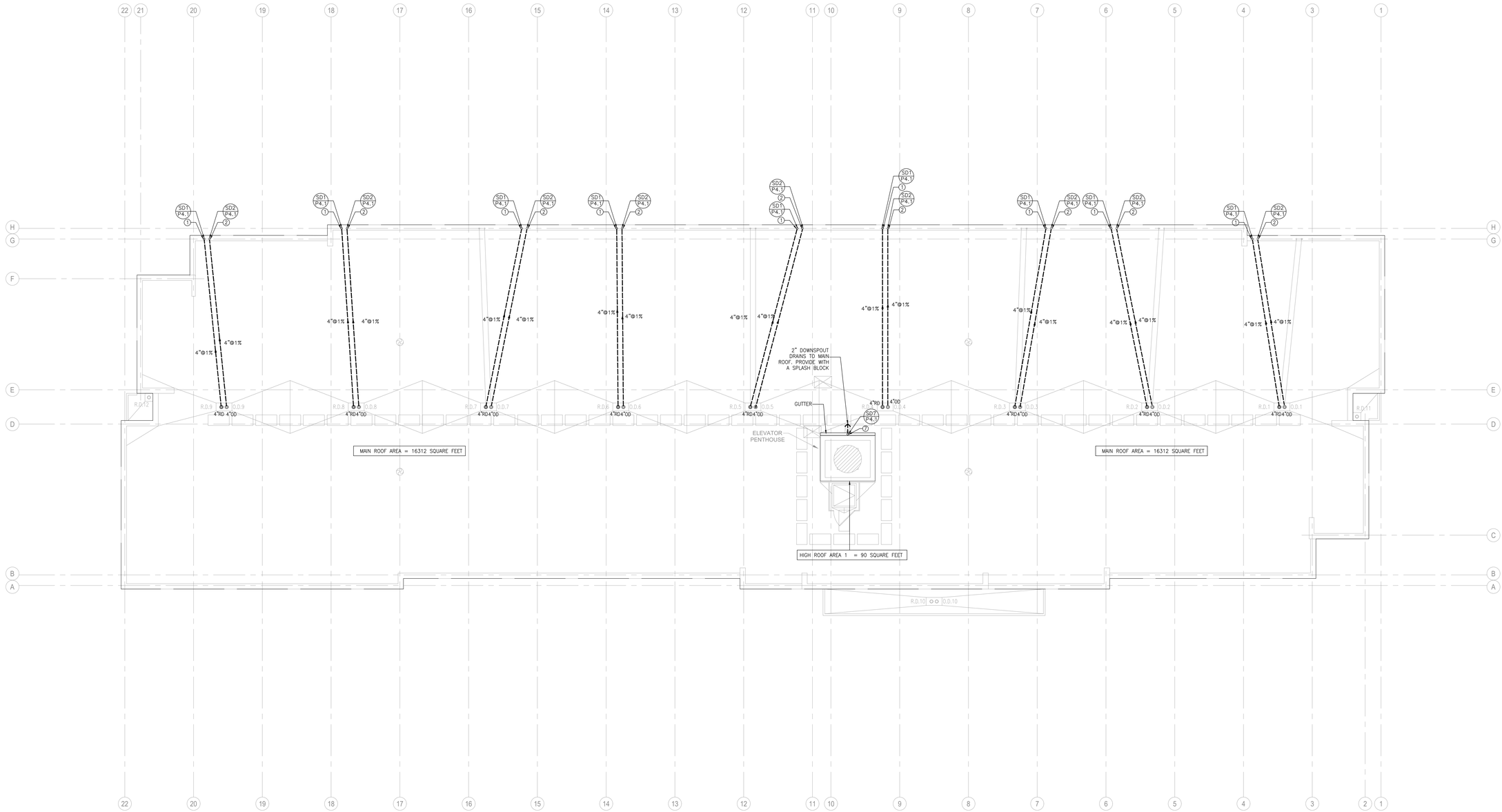
???? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
SANITARY SEWER
FOURTH FLOOR PLAN

SHEET NUMBER:

P2.3



NOTES:

1. FOR GENERAL NOTES, PLUMBING FIXTURES AND SPECIFICATIONS, SEE PLUMBING DRAWING P1.0, P1.1.
2. FOR DRAWING CLARITY, SEE THE VENT PIPING WITH SIZING ON RISER DIAGRAM P4.0, P4.1.
3. ALL PENETRATIONS THROUGH FIRE WALL MUST BE SEALED TO MEET THE CRITERIA.
4. FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1.
5. FOR GAS SCHEMATIC DIAGRAM SEE PLUMBING DRAWING P1.1.
6. ALL FLOOR DRAINS/ FLOOR SINKS TO BE INSTALLED W/TRAP PRIMERS.
7. CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE FOR WATER HEATER SYSTEM
8. VACUUM RELIEF VALVE INSTALLED IN THE COLD WATER SUPPLY LINE ABOVE THE TOP OF THE HEATER OR TANK, SHALL BE PROVIDED TO PREVENT SIPHONING OF ANY STORAGE WATER HEATER OR TANK.
9. DRAIN SIZES FROM PLUMBING FIXTURES SHALL BE AS FOLLOWS:
   - WATER CLOSETS – 4"ø
   - BATHTUB/SHOWER – 2"ø
   - LAVATORY – 2"ø
   - FLOOR DRAIN IN GUESTROOMS – 2"ø
   - FLOOR DRAIN IN PUBLIC AREAS – 2"ø/3"ø
   - FLOOR SINK – 3"ø

1. THE PLUMBING CONTRACTOR MUST PREPARE SHOP DRAWING TO COORDINATE WITH STRUCTURAL ENGINEER BEFORE INSTALLING AND GUARANTEE THE WATER, SEWER AND STORM LINE DO NOT RUNNING ALONG WITH THE GRADE BEAMS.

2. THE CONTRACTOR MUST PERFORM THE COLD/HOT WATER BALANCING TO ENSURE SUFFICIENT HOT WATER THAT DELIVERS TO EVERY GUESTROOM UNIT BEFORE CEILING TILE IS INSTALLED

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ROOF DRAIN CALCULATION: (MAIN ROOF)

	ROOF AREA (SQUARE FEET)	ONE HALF OF VERTICAL ROOF AREA	TOTAL ROOF AREA (SQUARE FEET)	CAPACITY OF ROOF DRAIN (GPM)	NO. OF RD	SERVED CAPACITY OF EACH ROOF DRAIN
MAIN ROOF AREA	15700	612	16312	847.5	9	94.2

BASED ON 2023 FLORIDA BUILDING CODE–PLUMBING, 8TH EDITION (APPENDIX B) AND TABLE 1106.2:

– RAIN FALL IN INCHES PER HOUR: 5.0" (APPENDIX B)

– 4" ROOF DRAIN IS SERVED FOR 115 GPM WITH SLOPE 1% (TABLE 1106.2)

=> THE LARGEST CAPACITY FOR ONE 4" ROOF DRAIN IS 115 GPM WITH SLOPE 1%.
OVERFLOW DRAIN SHALL BE THE SAME SIZE AS R.D. AND SET 2" ABOVE R.D

– CHOOSE 8 NOS. ROOF DRAIN 4"(D) FOR MAIN ROOF AREA

DOWNSPOUT CALCULATION: (HIGH ROOF)

	ROOF AREA (SQUARE FEET)	CAPACITY OF DOWNSPOUT (GPM)	NO. OF D.S.	SERVED CAPACITY OF EACH DOWNSPOUT (GPM)
HIGH ROOF AREA 1	90	4.7	1	4.7

BASED ON 2023 FLORIDA BUILDING CODE–PLUMBING, 8TH EDITION (APPENDIX B) AND TABLE 1106.2:

– RAIN FALL IN INCHES PER HOUR: 5.0" (APPENDIX B)

– DOWNSPOUT 2"(D) IS SERVED FOR 34 GPM.

– CHOOSE 1 NO. DOWNSPOUT 2"(D) FOR EACH HIGH ROOF AREA

1 STORM DRAINAGE ROOF PLAN

SCALE: 1/8"=1'–0"

KEYED NOTES:
1. 4" ROOF DRAIN RISER
2. 4" OVERFLOW DRAIN RISER
7. 2" DOWNSPOUT

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JAN. 15, 2026



Project #:	2502
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Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

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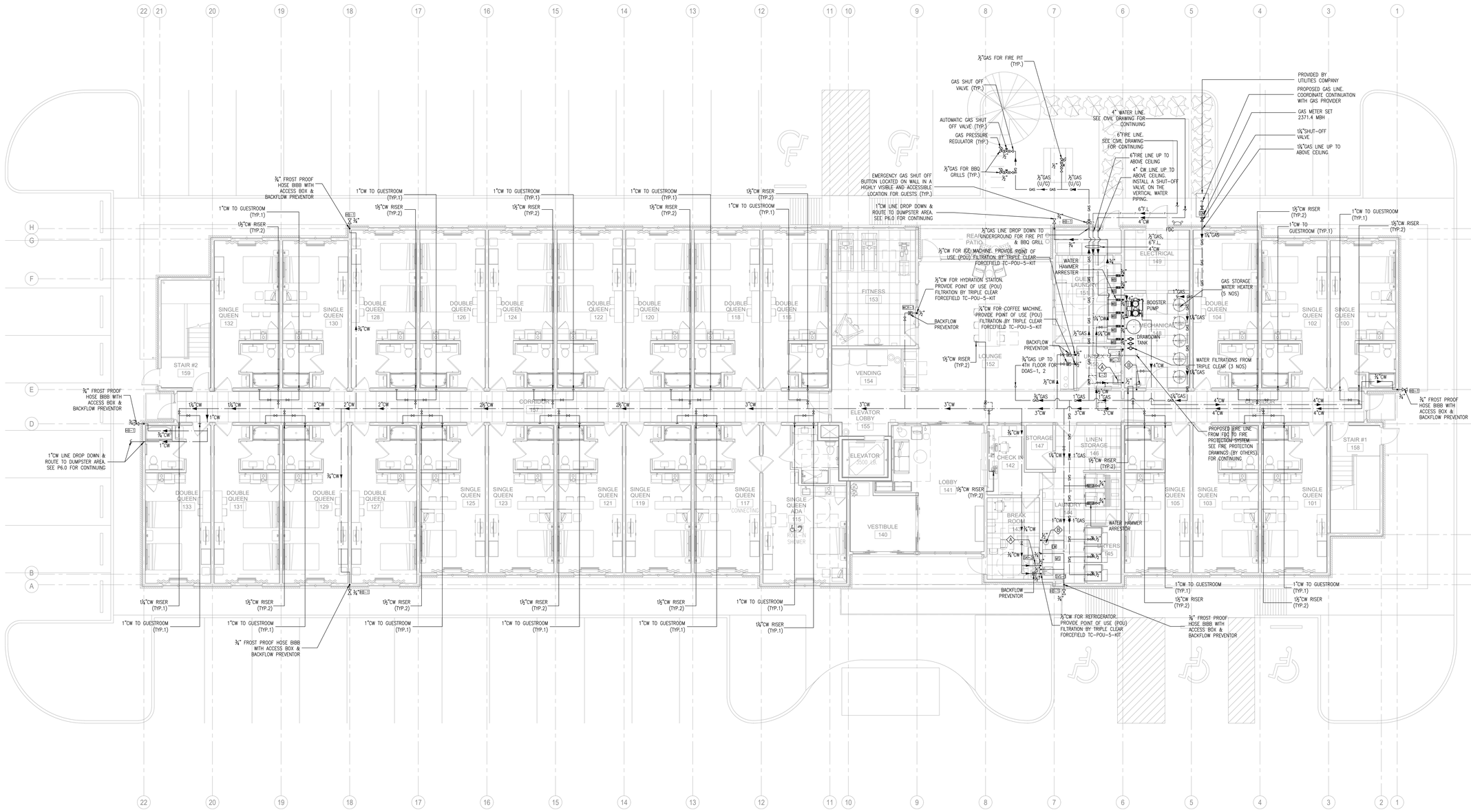
??? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
STORM DRAINAGE ROOF PLAN

SHEET NUMBER:

P2.4



1 DOMESTIC COLD WATER & GAS SERVICE FIRST FLOOR PLAN

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

NOTES:

1. FOR GENERAL NOTES, PLUMBING FIXTURES AND SPECIFICATIONS, SEE PLUMBING DRAWING P1.0, P1.1.
2. FOR DRAWING CLARITY, SEE THE VENT PIPING WITH SIZING ON RISER DIAGRAM P4.0, P4.1.
3. ALL PENETRATIONS THROUGH FIRE WALL MUST BE SEALED TO MEET THE CRITERIA.
4. FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1.
5. FOR GAS SCHEMATIC DIAGRAM SEE PLUMBING DRAWING P1.1.
6. ALL FLOOR DRAINS/ FLOOR SINKS TO BE INSTALLED W/TRAP PRIMERS.
7. CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE FOR WATER HEATER SYSTEM
8. VACUUM RELIEF VALVE INSTALLED IN THE COLD WATER SUPPLY LINE ABOVE THE TOP OF THE HEATER OR TANK, SHALL BE PROVIDED TO PREVENT SIPHONING OF ANY STORAGE WATER HEATER OR TANK.
9. DRAIN SIZES FROM PLUMBING FIXTURES SHALL BE AS FOLLOWS:
   WATER CLOSETS – 4"ø
   BATHTUB/SHOWER – 2"ø
   LAVATORY – 2"ø
   FLOOR DRAIN IN GUESTROOMS – 2"ø
   FLOOR DRAIN IN PUBLIC AREAS – 2"ø/3"ø
   FLOOR SINK – 3"ø

1. THE PLUMBING CONTRACTOR MUST PREPARE SHOP DRAWING TO COORDINATE WITH STRUCTURAL ENGINEER BEFORE INSTALLING AND GUARANTEE THE WATER, SEWER AND STORM LINE DO NOT RUNNING ALONG WITH THE GRADE BEAMS.

2. THE CONTRACTOR MUST PERFORM THE COLD/HOT WATER BALANCING TO ENSURE SUFFICIENT HOT WATER THAT DELIVERS TO EVERY GUESTROOM UNIT BEFORE CEILING TILE IS INSTALLED

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KEYED NOTES:

Ⓐ INSTALL A THERMOSTATIC MIXING VALVE AT LAVATORY/HAND SINK. SET UP THE HOT WATER TEMPERATURE DELIVERED FOR PUBLIC LAVATORIES NOT TO EXCEED 110°F. THERMOSTATIC MIXING VALVE FOR RESTROOM LAVATORY/ HAND SINK: ZURN #ZW1070XL ASSE Ⓔ LISTED 1070, 10 GAL/MIN @ 45 PSI PRESSURE LOSS, 0.5 GAL/MIN MINIMUM.

Ⓑ INSTALL A THERMOSTATIC MIXING VALVE AT EYEWASH. SET UP THE HOT WATER TEMPERATURE DELIVERED FOR EYEWASH TO BE BETWEEN 65 AND 90 DEGREES.

NOTE:

- SHUT OFF VALVE ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE CEILING PANEL SHALL BE 12"X12" J.R.T PAINTED TO MATCH CEILING.
- EVERY REGULATOR INSTALLED INSIDE BUILDING WILL BE VENTED OUTSIDE WITH PROPER SIZED PIPE.
- WHERE STATIC WATER PRESSURE IN THE WATER SUPPLY PIPING IS EXCEEDING 80 PSI (552 KPA), AN APPROVED-TYPE PRESSUREREGULATOR PRECEDED BY AN ADEQUATE STRAINER SHALL BE INSTALLED AND THE STATIC PRESSURE REDUCED TO 80 PSI (552 KPA) OR LESS.

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JAN. 15, 2026

SIDDHARTH D. PAREKH LICENSE No. 83005 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

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Panama City Beach, FL

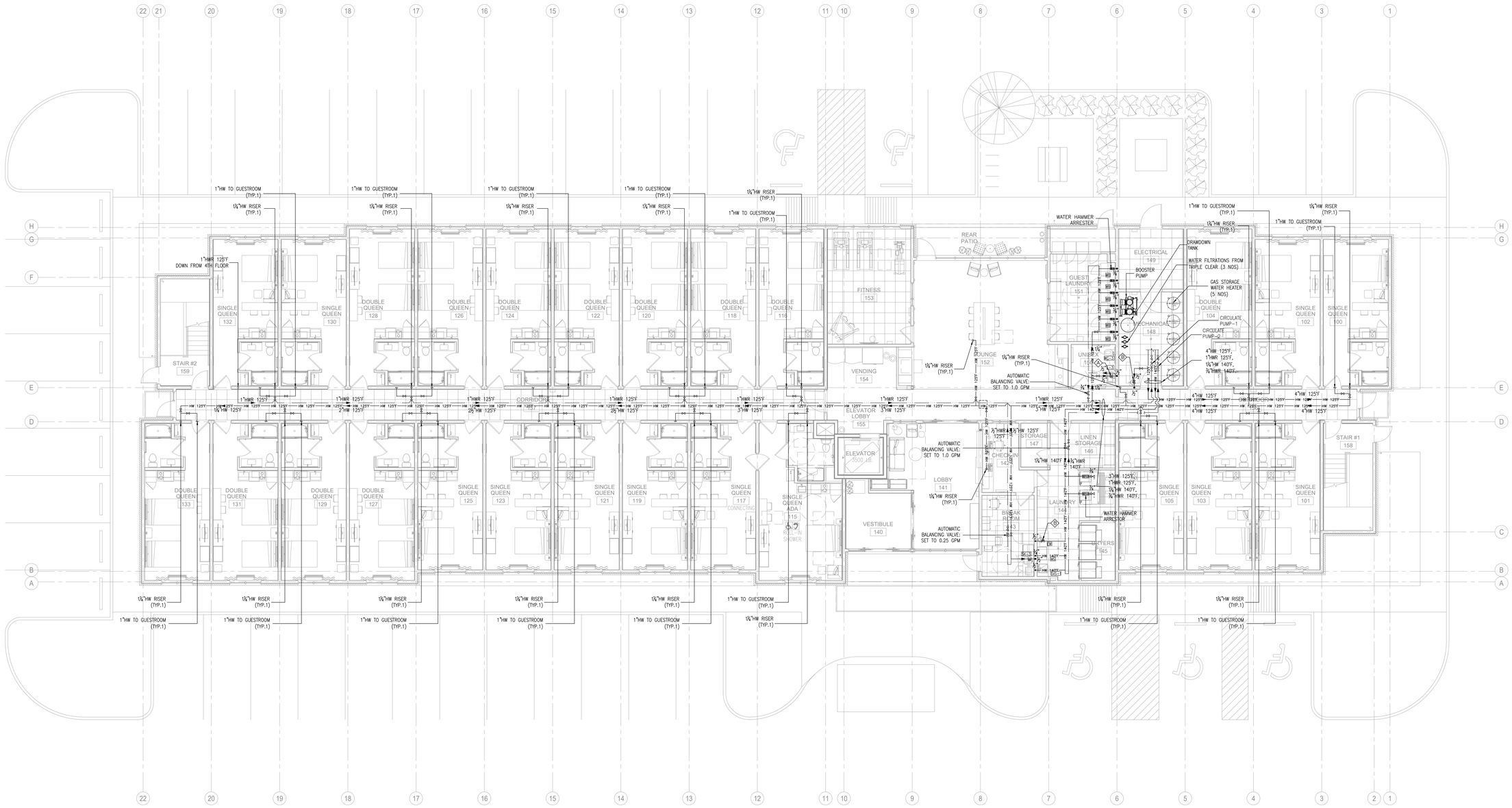
??? S Thomas Dr, Panama City Beach, FL 32408, USA.

STUDIO**RES**

SHEET TITLE:
DOMESTIC COLD WATER & GAS SERVICE FIRST FLOOR PLAN

SHEET NUMBER:

P3.0A



1 DOMESTIC HOT WATER FIRST FLOOR PLAN

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

KEYED NOTES:

Ⓐ INSTALL A THERMOSTATIC MIXING VALVE AT LAVATORY/HAND SINK. SET UP THE HOT WATER TEMPERATURE DELIVERED FOR PUBLIC LAVATORIES NOT TO EXCEED 110°F. THERMOSTATIC MIXING VALVE FOR RESTROOM LAVATORY/ HAND SINK: ZURN #ZW1070XL ASSE R LISTED 1070, 10 GAL/MIN @ 45 PSI PRESSURE LOSS, 0.5 GAL/MIN MINIMUM.

Ⓑ INSTALL A THERMOSTATIC MIXING VALVE AT EYEWASH. SET UP THE HOT WATER TEMPERATURE DELIVERED FOR EYEWASH TO BE BETWEEN 65 AND 90 DEGREES.

NOTE:

- SHUT OFF VALVE ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE CEILING PANEL SHALL BE 12"X12" J.R.T PAINTED TO MATCH CEILING.
- CIRCULATING PUMP ABOVE CORRIDOR CEILING. PROVIDE AN ACOUSTIC BOX FOR ANY CIRCULATING PUMP WHERE LOCATED IN THE CORRIDOR CEILING. PROVIDE MARKINGS ALONG THE CEILING ON LOCATIONS OF ALL CIRCULATING PUMPS.
- WHERE STATIC WATER PRESSURE IN THE WATER SUPPLY PIPING IS EXCEEDING 80 PSI (552 KPA), AN APPROVED-TYPE PRESSUREREGULATOR PRECEDED BY AN ADEQUATE STRAINER SHALL BE INSTALLED AND THE STATIC PRESSURE REDUCED TO 80 PSI (552 KPA) OR LESS.

NOTES:

1. FOR GENERAL NOTES, PLUMBING FIXTURES AND SPECIFICATIONS, SEE PLUMBING DRAWING P1.0, P1.1.
2. FOR DRAWING CLARITY, SEE THE VENT PIPING WITH SIZING ON RISER DIAGRAM P4.0, P4.1.
3. ALL PENETRATIONS THROUGH FIRE WALL MUST BE SEALED TO MEET THE CRITERIA.
4. FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1.
5. FOR GAS SCHEMATIC DIAGRAM SEE PLUMBING DRAWING P1.1.
6. ALL FLOOR DRAINS/ FLOOR SINKS TO BE INSTALLED W/TRAP PRIMERS.
7. CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE FOR WATER HEATER SYSTEM
8. VACUUM RELIEF VALVE INSTALLED IN THE COLD WATER SUPPLY LINE ABOVE THE TOP OF THE HEATER OR TANK, SHALL BE PROVIDED TO PREVENT SIPHONING OF ANY STORAGE WATER HEATER OR TANK.
9. DRAIN SIZES FROM PLUMBING FIXTURES SHALL BE AS FOLLOWS:
   WATER CLOSETS – 4"ø
   BATHTUB/SHOWER – 2"ø
   LAVATORY – 2"ø
   FLOOR DRAIN IN GUESTROOMS – 2"ø
   FLOOR DRAIN IN PUBLIC AREAS – 2"ø/3"ø
   FLOOR SINK – 3"ø

1. THE PLUMBING CONTRACTOR MUST PREPARE SHOP DRAWING TO COORDINATE WITH STRUCTURAL ENGINEER BEFORE INSTALLING AND GUARANTEE THE WATER, SEWER AND STORM LINE DO NOT RUNNING ALONG WITH THE GRADE BEAMS.
2. THE CONTRACTOR MUST PERFORM THE COLD/HOT WATER BALANCING TO ENSURE SUFFICIENT HOT WATER THAT DELIVERS TO EVERY GUESTROOM UNIT BEFORE CEILING TILE IS INSTALLED

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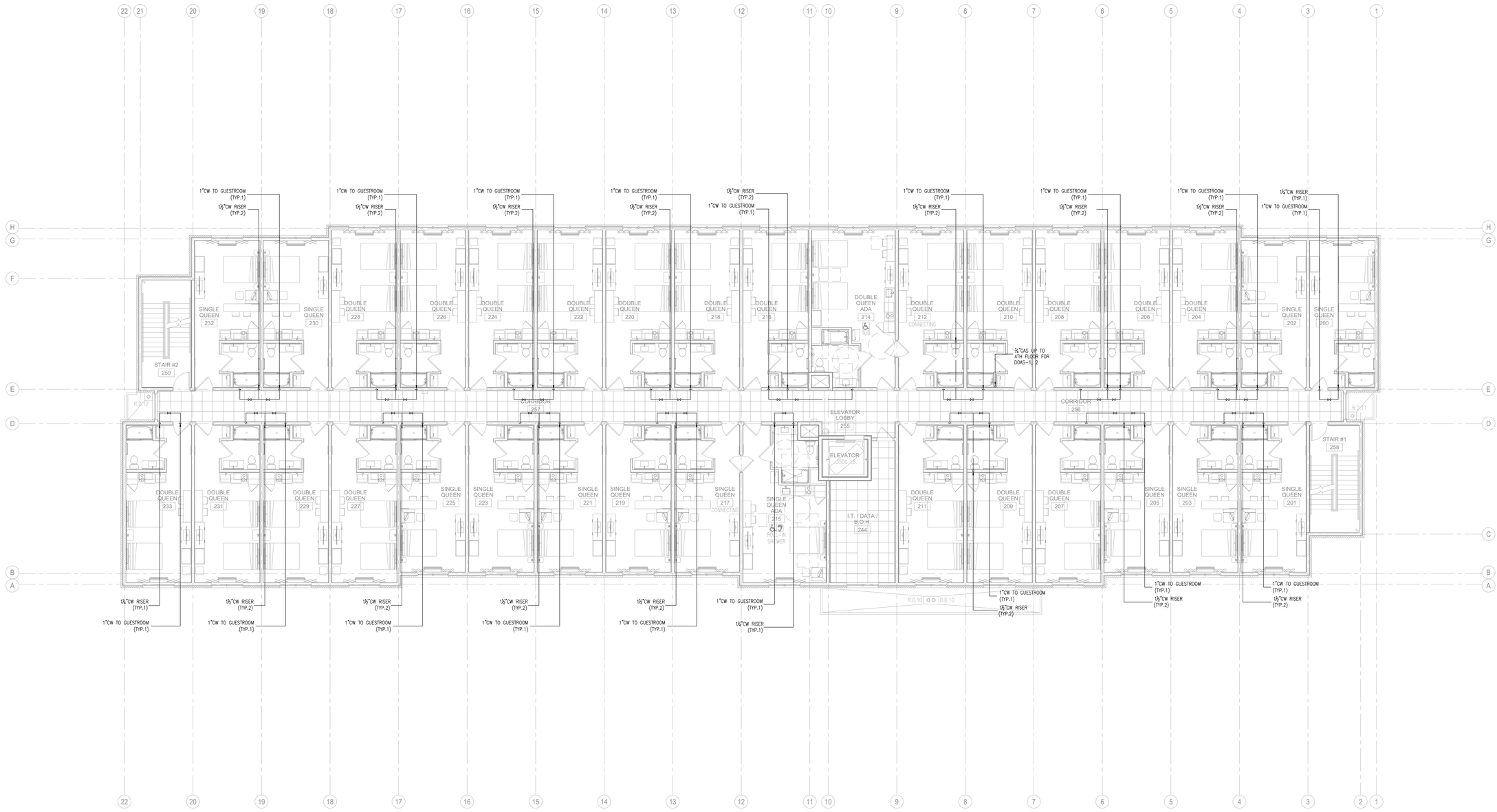
Panama City Beach, FL

??? S Thomas Dr., Panama City Beach, FL 32408, USA.

STUDIO**RES**

SHEET TITLE:
DOMESTIC HOT WATER FIRST FLOOR PLAN

SHEET NUMBER:
P3.0B



1 DOMESTIC COLD WATER & GAS SERVICE SECOND FLOOR PLAN

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

NOTE:

- SHUT OFF VALVE ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE CEILING PANEL SHALL BE 12"X12" J.R.T PAINTED TO MATCH CEILING.

NOTES:

1. FOR GENERAL NOTES, PLUMBING FIXTURES AND SPECIFICATIONS, SEE PLUMBING DRAWING P1.0, P1.1.
2. FOR DRAWING CLARITY, SEE THE VENT PIPING WITH SIZING ON RISER DIAGRAM P4.0, P4.1.
3. ALL PENETRATIONS THROUGH FIRE WALL MUST BE SEALED TO MEET THE CRITERIA.
4. FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1.
5. FOR GAS SCHEMATIC DIAGRAM SEE PLUMBING DRAWING P1.1.
6. ALL FLOOR DRAINS/ FLOOR SINKS TO BE INSTALLED W/TRAP PRIMERS.
7. CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE FOR WATER HEATER SYSTEM
8. VACUUM RELIEF VALVE INSTALLED IN THE COLD WATER SUPPLY LINE ABOVE THE TOP OF THE HEATER OR TANK, SHALL BE PROVIDED TO PREVENT SIPHONING OF ANY STORAGE WATER HEATER OR TANK.
9. DRAIN SIZES FROM PLUMBING FIXTURES SHALL BE AS FOLLOWS:
   WATER CLOSETS – 4"ø
   BATHTUB/SHOWER – 2"ø
   LAVATORY – 2"ø
   FLOOR DRAIN IN GUESTROOMS – 2"ø
   FLOOR DRAIN IN PUBLIC AREAS – 2"ø/3"ø
   FLOOR SINK – 3"ø

1. THE PLUMBING CONTRACTOR MUST PREPARE SHOP DRAWING TO COORDINATE WITH STRUCTURAL ENGINEER BEFORE INSTALLING AND GUARANTEE THE WATER, SEWER AND STORM LINE DO NOT RUNNING ALONG WITH THE GRADE BEAMS.

2. THE CONTRACTOR MUST PERFORM THE COLD/HOT WATER BALANCING TO ENSURE SUFFICIENT HOT WATER THAT DELIVERS TO EVERY GUESTROOM UNIT BEFORE CEILING TILE IS INSTALLED

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JAN. 15, 2026

DUNG D VU LICENSE No. 83005 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

Panama City Beach, FL

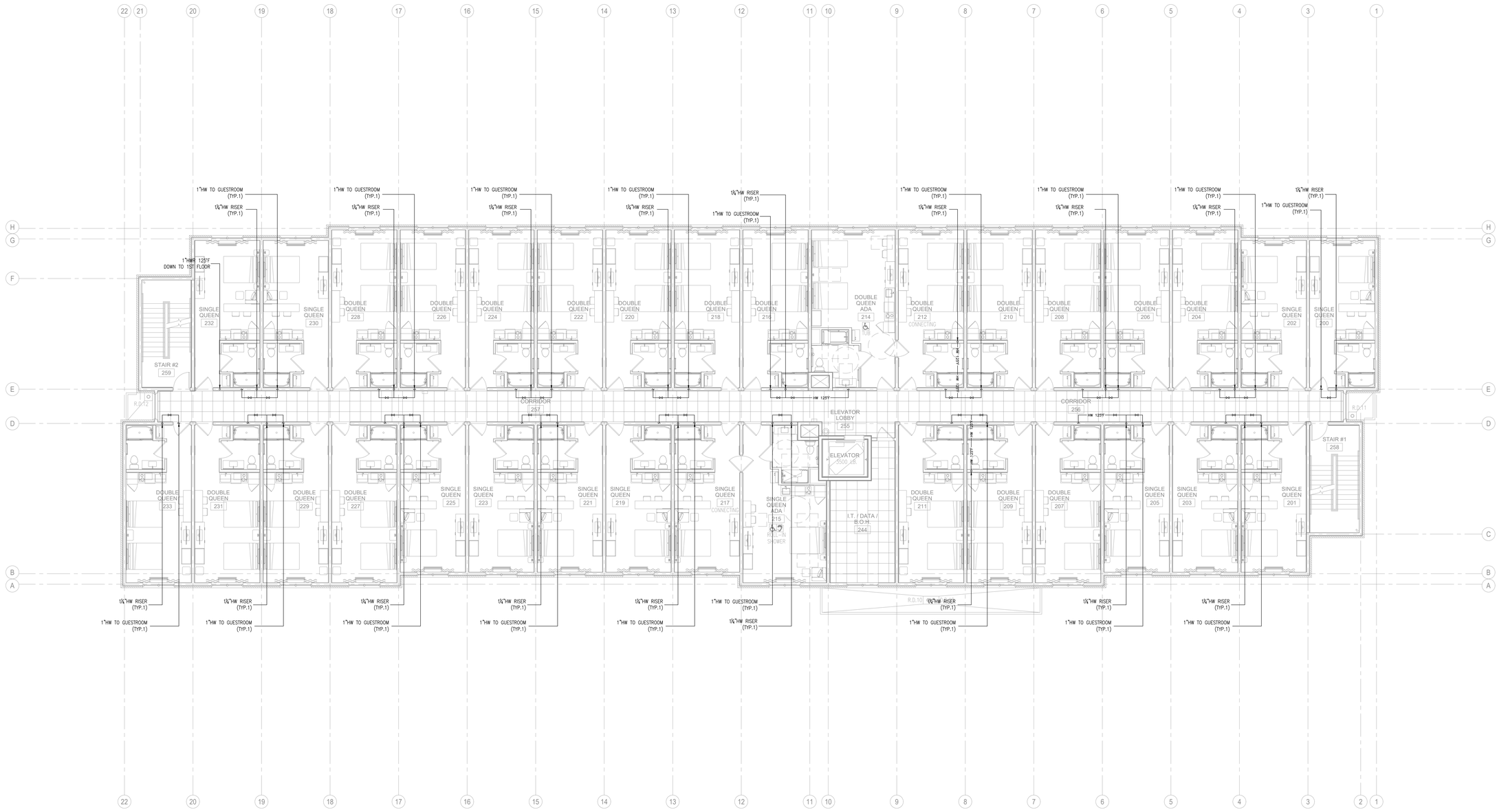
??? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
DOMESTIC COLD WATER & GAS SERVICE SECOND FLOOR PLAN

SHEET NUMBER:

P3.1A



1 DOMESTIC HOT WATER SECOND FLOOR PLAN

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

NOTE:

- SHUT OFF VALVE ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE CEILING PANEL SHALL BE 12"X12" J.R.T PAINTED TO MATCH CEILING.

NOTES:

1. FOR GENERAL NOTES, PLUMBING FIXTURES AND SPECIFICATIONS, SEE PLUMBING DRAWING P1.0, P1.1.
2. FOR DRAWING CLARITY, SEE THE VENT PIPING WITH SIZING ON RISER DIAGRAM P4.0, P4.1.
3. ALL PENETRATIONS THROUGH FIRE WALL MUST BE SEALED TO MEET THE CRITERIA.
4. FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1.
5. FOR GAS SCHEMATIC DIAGRAM SEE PLUMBING DRAWING P1.1.
6. ALL FLOOR DRAINS/ FLOOR SINKS TO BE INSTALLED W/TRAP PRIMERS.
7. CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE FOR WATER HEATER SYSTEM
8. VACUUM RELIEF VALVE INSTALLED IN THE COLD WATER SUPPLY LINE ABOVE THE TOP OF THE HEATER OR TANK, SHALL BE PROVIDED TO PREVENT SIPHONING OF ANY STORAGE WATER HEATER OR TANK.
9. DRAIN SIZES FROM PLUMBING FIXTURES SHALL BE AS FOLLOWS:
   WATER CLOSETS – 4"ø
   BATHTUB/SHOWER – 2"ø
   LAVATORY – 2"ø
   FLOOR DRAIN IN GUESTROOMS – 2"ø
   FLOOR DRAIN IN PUBLIC AREAS – 2"ø/3"ø
   FLOOR SINK – 3"ø

1. THE PLUMBING CONTRACTOR MUST PREPARE SHOP DRAWING TO COORDINATE WITH STRUCTURAL ENGINEER BEFORE INSTALLING AND GUARANTEE THE WATER, SEWER AND STORM LINE DO NOT RUNNING ALONG WITH THE GRADE BEAMS.
2. THE CONTRACTOR MUST PERFORM THE COLD/HOT WATER BALANCING TO ENSURE SUFFICIENT HOT WATER THAT DELIVERS TO EVERY GUESTROOM UNIT BEFORE CEILING TILE IS INSTALLED

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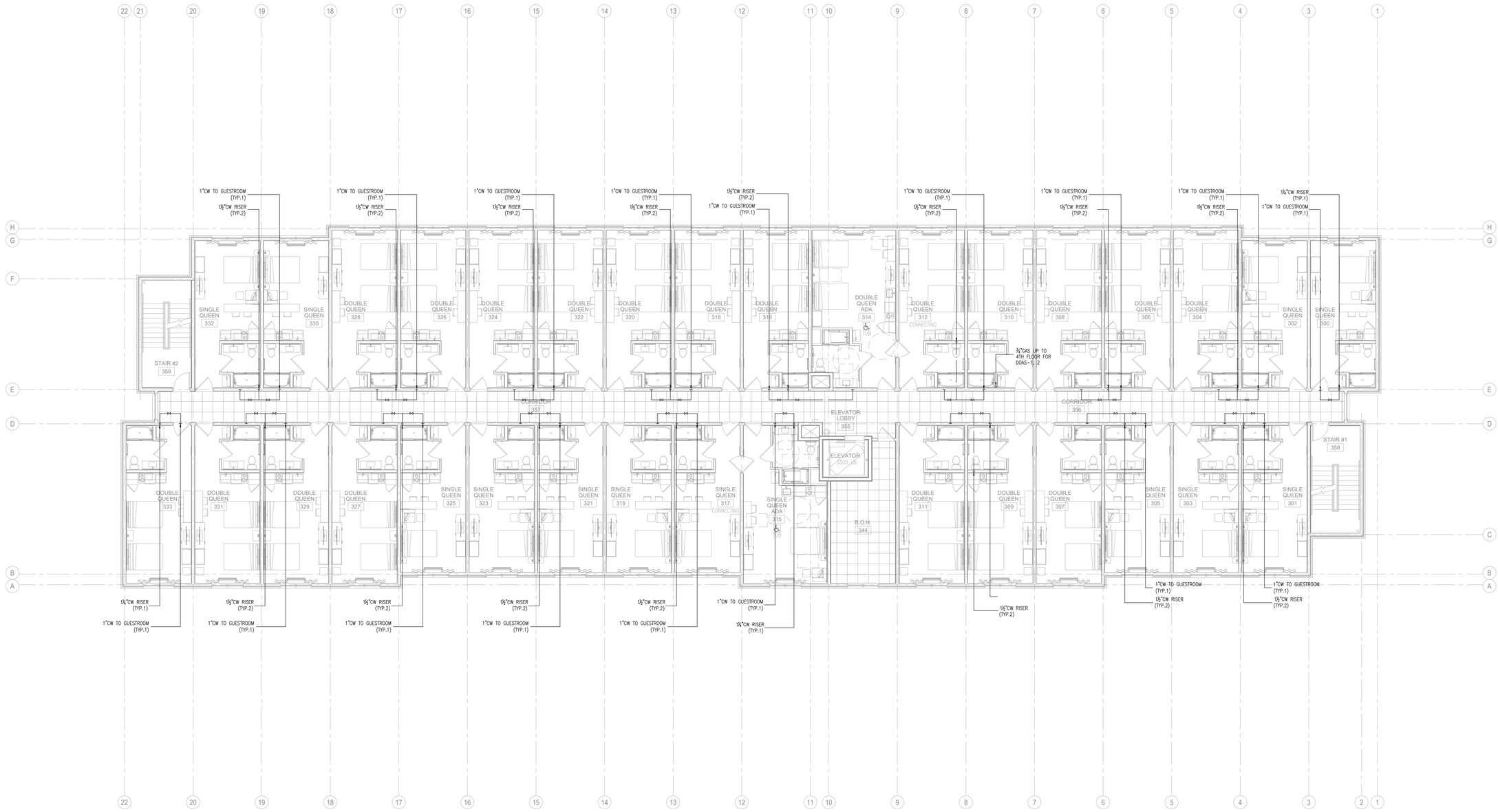
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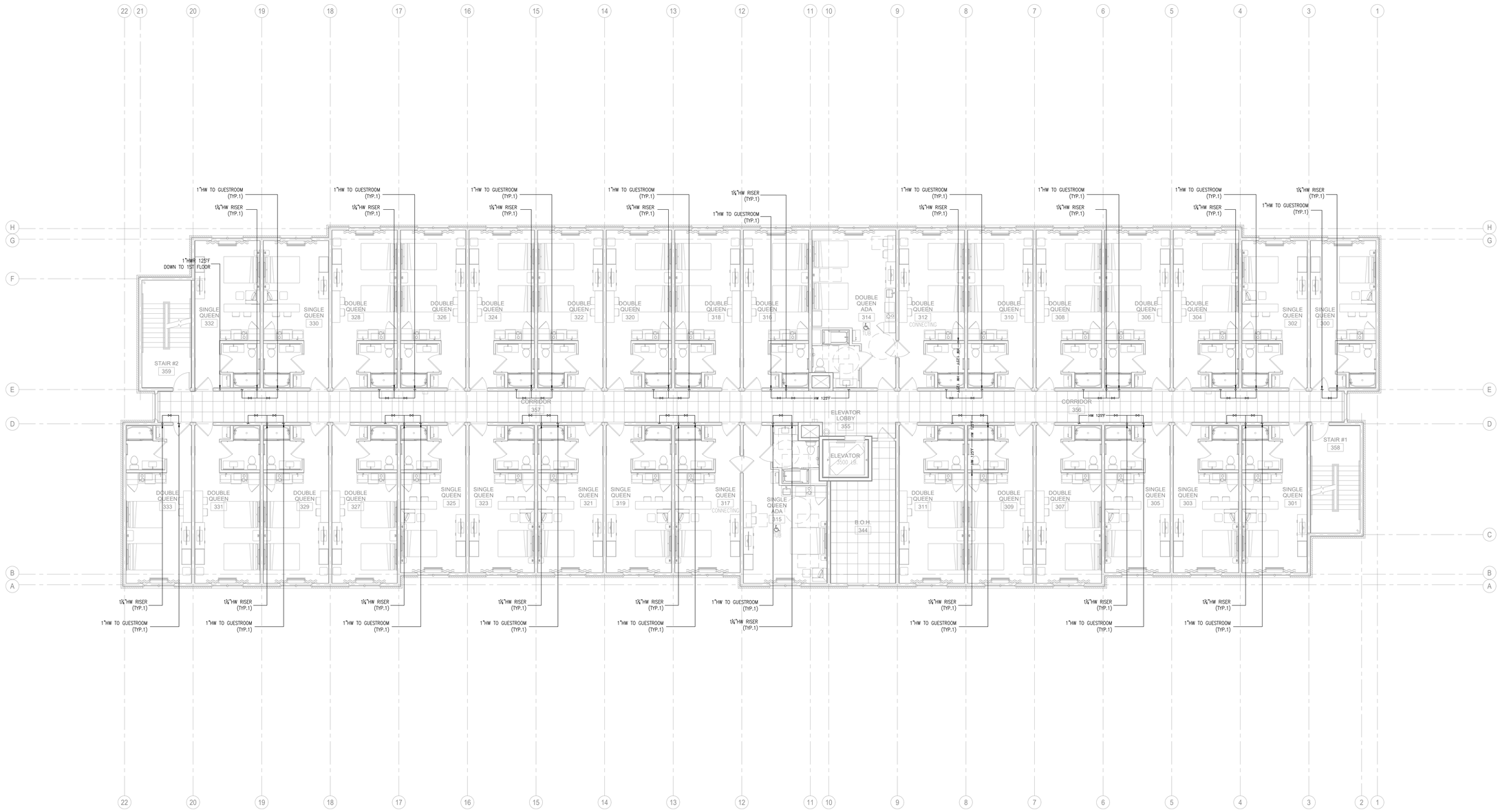
STUDIO**RES**

SHEET TITLE:
DOMESTIC HOT WATER SECOND FLOOR PLAN

SHEET NUMBER:

P3.1B


1"CW TO GUESTROOM (TYP.1)
1½"CW RISER (TYP.2)
1¼"CW RISER (TYP.1)
SINGLE QUEEN 332
SINGLE QUEEN 330
DOUBLE QUEEN 328
DOUBLE QUEEN 326
DOUBLE QUEEN 324
DOUBLE QUEEN 322
DOUBLE QUEEN 320
DOUBLE QUEEN 318
DOUBLE QUEEN 316
DOUBLE QUEEN ADA 314
DOUBLE QUEEN 312
CONNECTING
DOUBLE QUEEN 310
DOUBLE QUEEN 308
DOUBLE QUEEN 306
DOUBLE QUEEN 304
SINGLE QUEEN 302
SINGLE QUEEN 300
STAIR #2 359
¾"GAS UP TO 4TH FLOOR FOR DOAS-1,2
CORRIDOR 357
CORRIDOR 356
ELEVATOR LOBBY 355
ELEVATOR 3500 LB.
STAIR #1 358
DOUBLE QUEEN 333
DOUBLE QUEEN 331
DOUBLE QUEEN 329
DOUBLE QUEEN 327
SINGLE QUEEN 325
SINGLE QUEEN 323
SINGLE QUEEN 321
SINGLE QUEEN 319
SINGLE QUEEN 317
CONNECTING
SINGLE QUEEN ADA 315
B.O.H. 344
DOUBLE QUEEN 311
DOUBLE QUEEN 309
DOUBLE QUEEN 307
SINGLE QUEEN 305
SINGLE QUEEN 303
SINGLE QUEEN 301
1"CW TO GUESTROOM (TYP.1)
1½"CW RISER (TYP.2)
1¼"CW RISER (TYP.1)
1"CW TO GUESTROOM (TYP.1)
1½"CW RISER (TYP.2



1 DOMESTIC HOT WATER THIRD FLOOR PLAN

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

NOTE:

- SHUT OFF VALVE ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE CEILING PANEL SHALL BE 12"X12" J.R.T PAINTED TO MATCH CEILING.

NOTES:

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3. ALL PENETRATIONS THROUGH FIRE WALL MUST BE SEALED TO MEET THE CRITERIA.
4. FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1.
5. FOR GAS SCHEMATIC DIAGRAM SEE PLUMBING DRAWING P1.1.
6. ALL FLOOR DRAINS/ FLOOR SINKS TO BE INSTALLED W/TRAP PRIMERS.
7. CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE FOR WATER HEATER SYSTEM
8. VACUUM RELIEF VALVE INSTALLED IN THE COLD WATER SUPPLY LINE ABOVE THE TOP OF THE HEATER OR TANK, SHALL BE PROVIDED TO PREVENT SIPHONING OF ANY STORAGE WATER HEATER OR TANK.
9. DRAIN SIZES FROM PLUMBING FIXTURES SHALL BE AS FOLLOWS:
   WATER CLOSETS – 4"ø
   BATHTUB/SHOWER – 2"ø
   LAVATORY – 2"ø
   FLOOR DRAIN IN GUESTROOMS – 2"ø
   FLOOR DRAIN IN PUBLIC AREAS – 2"ø/3"ø
   FLOOR SINK – 3"ø

1. THE PLUMBING CONTRACTOR MUST PREPARE SHOP DRAWING TO COORDINATE WITH STRUCTURAL ENGINEER BEFORE INSTALLING AND GUARANTEE THE WATER, SEWER AND STORM LINE DO NOT RUNNING ALONG WITH THE GRADE BEAMS.

2. THE CONTRACTOR MUST PERFORM THE COLD/HOT WATER BALANCING TO ENSURE SUFFICIENT HOT WATER THAT DELIVERS TO EVERY GUESTROOM UNIT BEFORE CEILING TILE IS INSTALLED

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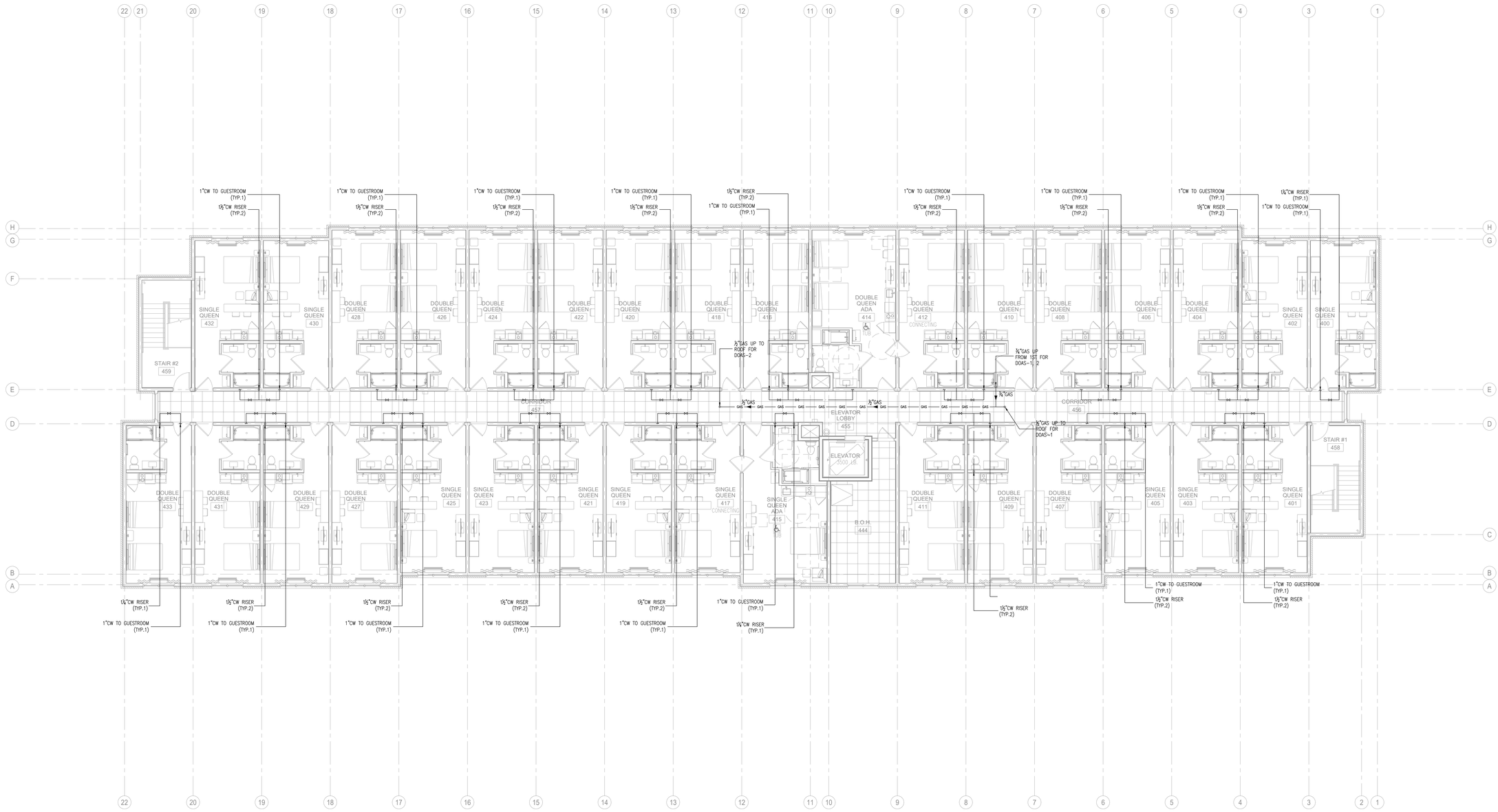
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STUDIO**RES**

SHEET TITLE:
DOMESTIC HOT WATER THIRD FLOOR PLAN

SHEET NUMBER:

P3.2B



1 DOMESTIC COLD WATER & GAS SERVICE FOURTH FLOOR PLAN

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

NOTE:

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4. FOR SCHEMATIC DIAGRAMS SEE PLUMBING DRAWING P4.0, P4.1.
5. FOR GAS SCHEMATIC DIAGRAM SEE PLUMBING DRAWING P1.1.
6. ALL FLOOR DRAINS/ FLOOR SINKS TO BE INSTALLED W/TRAP PRIMERS.
7. CONTRACTOR TO SUPPLY THE TEMPERED WATER LIMITING DEVICE FOR WATER HEATER SYSTEM
8. VACUUM RELIEF VALVE INSTALLED IN THE COLD WATER SUPPLY LINE ABOVE THE TOP OF THE HEATER OR TANK, SHALL BE PROVIDED TO PREVENT SIPHONING OF ANY STORAGE WATER HEATER OR TANK.
9. DRAIN SIZES FROM PLUMBING FIXTURES SHALL BE AS FOLLOWS:
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   BATHTUB/SHOWER – 2"ø
   LAVATORY – 2"ø
   FLOOR DRAIN IN GUESTROOMS – 2"ø
   FLOOR DRAIN IN PUBLIC AREAS – 2"ø/3"ø
   FLOOR SINK – 3"ø

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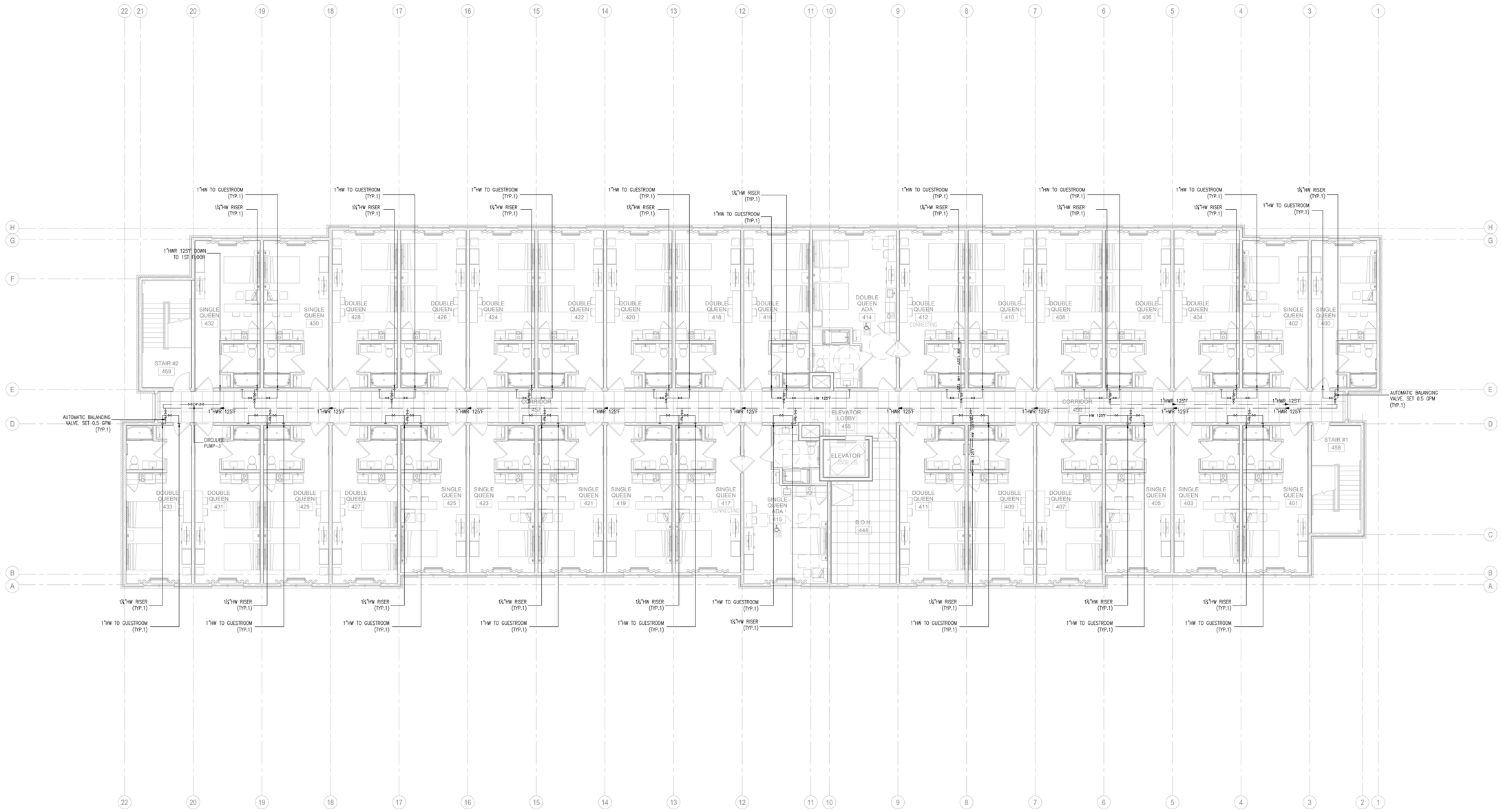
Panama City Beach, FL

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STUDIO**RES**

SHEET TITLE:
DOMESTIC COLD WATER & GAS SERVICE FOURTH FLOOR PLAN

SHEET NUMBER:
P3.3A



1 DOMESTIC HOT WATER FOURTH FLOOR PLAN
SCALE: 1/8"=1'-0"

NOTE:

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- CIRCULATING PUMP ABOVE CORRIDOR CEILING. PROVIDE AN ACOUSTIC BOX FOR ANY CIRCULATING PUMP WHERE LOCATED IN THE CORRIDOR CEILING. PROVIDE MARKINGS ALONG THE CEILING ON LOCATIONS OF ALL CIRCULATING PUMPS.

NOTES:

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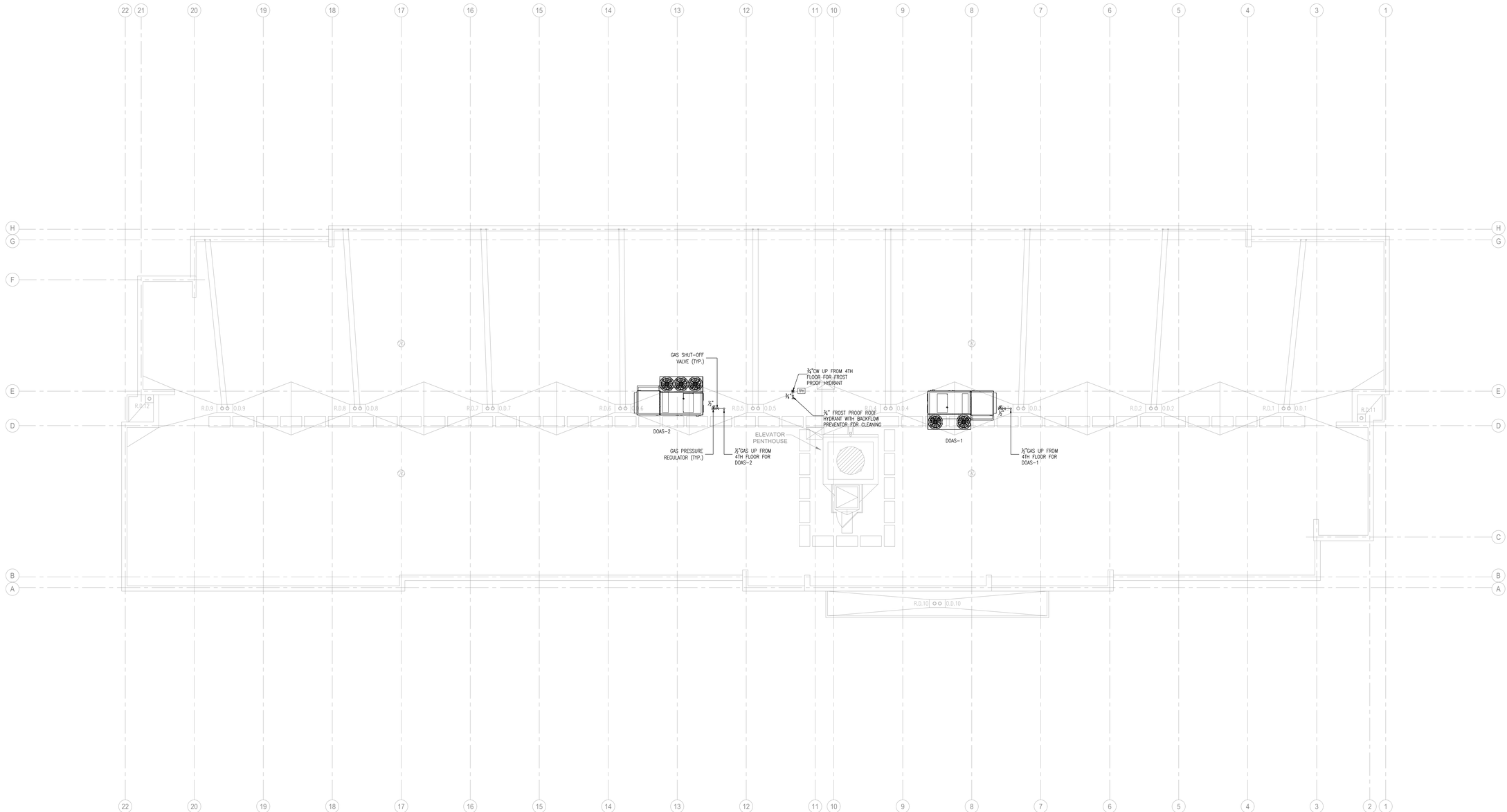
Panama City Beach, FL

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STUDIO**RES**

SHEET TITLE:
DOMESTIC HOT WATER FOURTH FLOOR PLAN

SHEET NUMBER:
P3.3B



1 *DOMESTIC COLD WATER & GAS SERVICE ROOF PLAN*
SCALE: 1/8"=1'-0"

NOTES:

1. FOR GENERAL NOTES, PLUMBING FIXTURES AND SPECIFICATIONS, SEE PLUMBING DRAWING P1.0, P1.1.
2. FOR DRAWING CLARITY, SEE THE VENT PIPING WITH SIZING ON RISER DIAGRAM P4.0, P4.1.
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   FLOOR SINK – 3"ø

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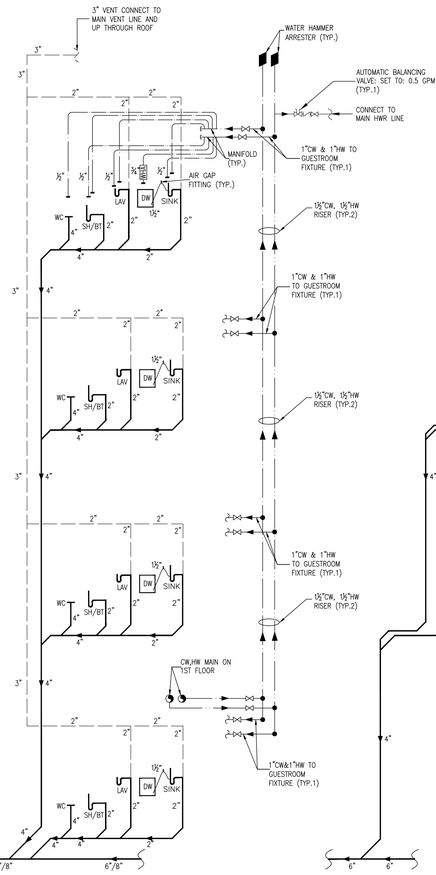
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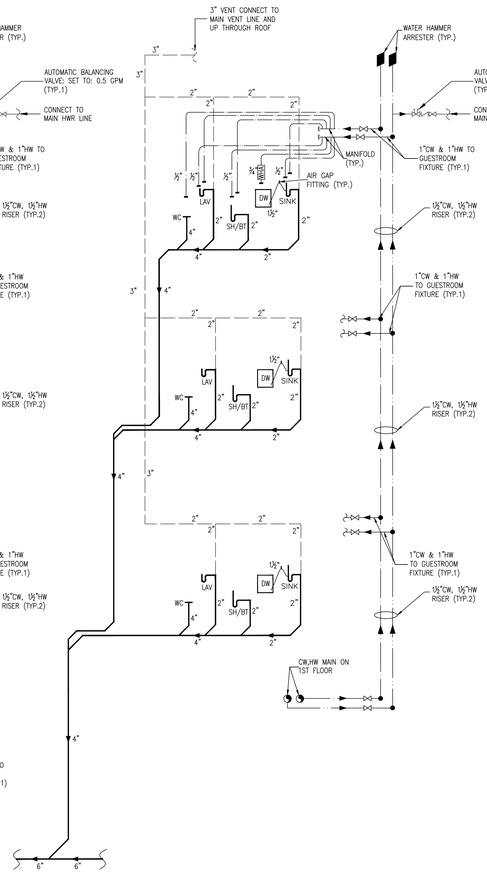
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SHEET TITLE:
DOMESTIC COLD WATER & GAS SERVICE ROOF PLAN

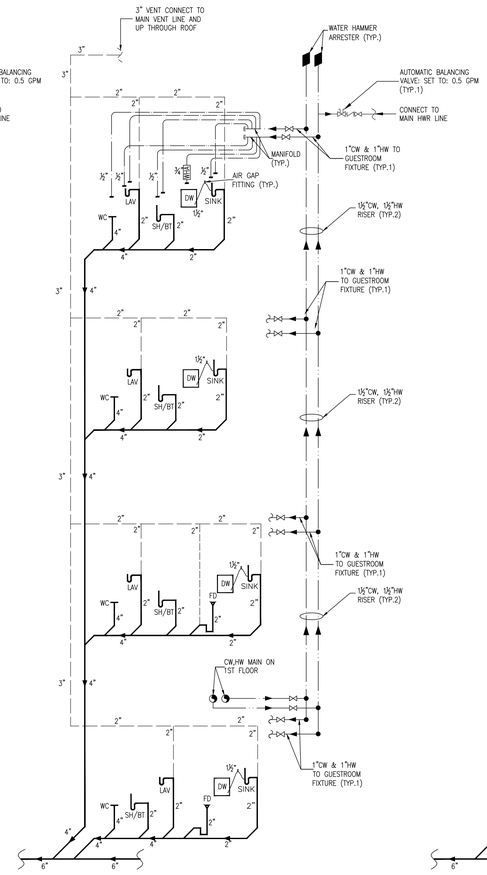
SHEET NUMBER:
P3.4



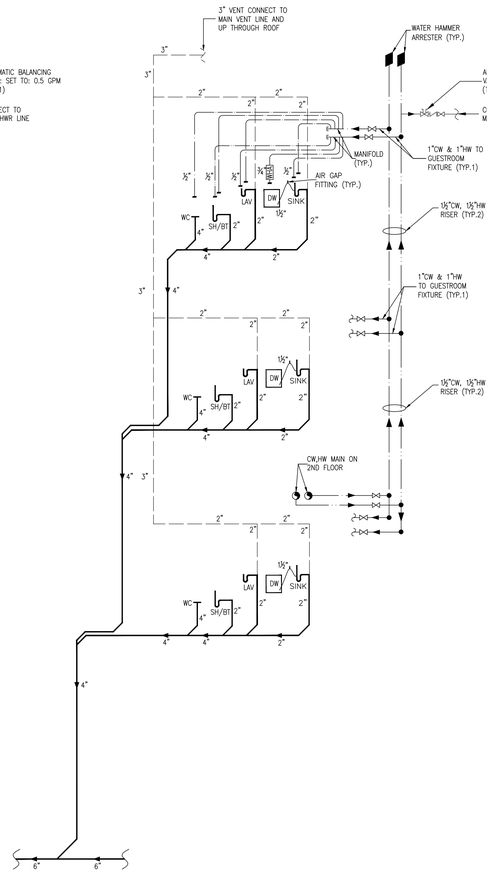
P1 SANITARY WASTE FLOW SCHEMATIC DIAGRAM
SCALE: N.T.S



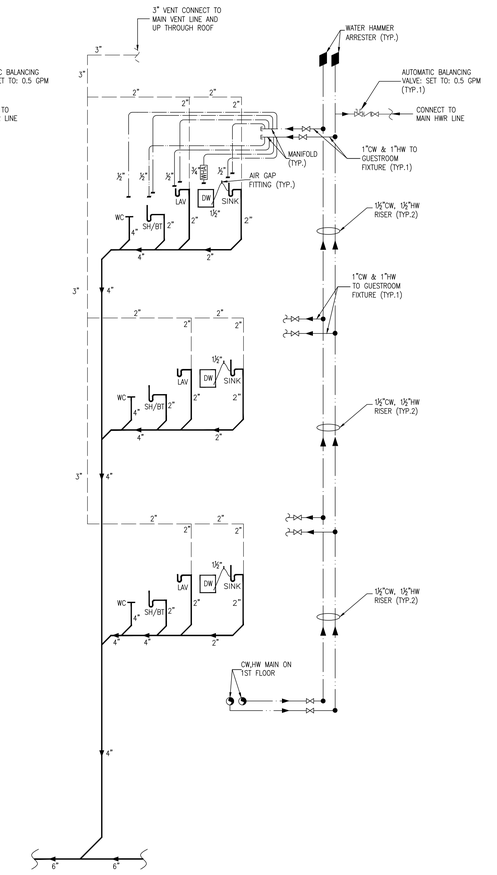
P2 SANITARY WASTE FLOW SCHEMATIC DIAGRAM
SCALE: N.T.S



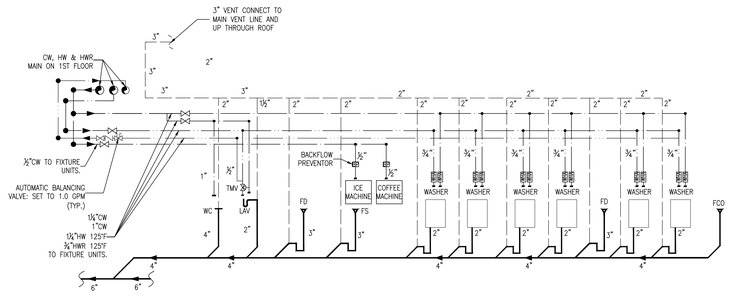
P3 SANITARY WASTE FLOW SCHEMATIC DIAGRAM
SCALE: N.T.S



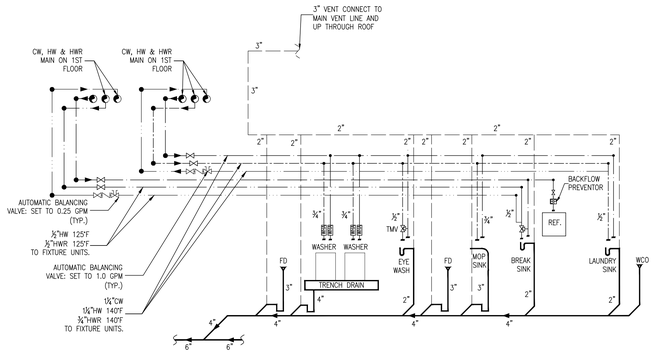
P4 SANITARY WASTE FLOW SCHEMATIC DIAGRAM
SCALE: N.T.S



P5 SANITARY WASTE FLOW SCHEMATIC DIAGRAM
SCALE: N.T.S



P6 SANITARY WASTE FLOW SCHEMATIC DIAGRAM
SCALE: N.T.S



P7 SANITARY WASTE FLOW SCHEMATIC DIAGRAM
SCALE: N.T.S

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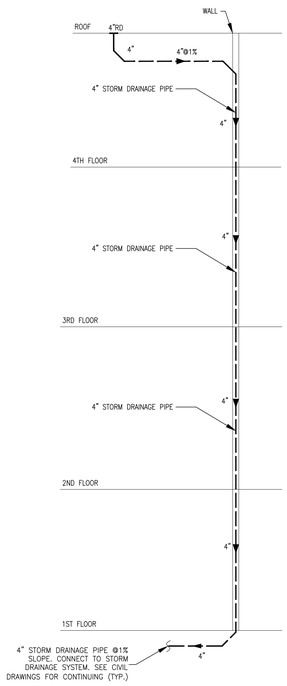
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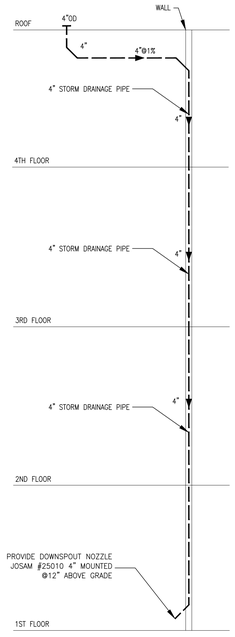
STUDIO**RES**

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PLUMBING
RISERS

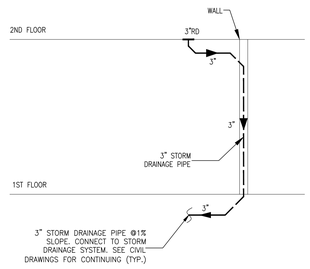
SHEET NUMBER:
P4.0



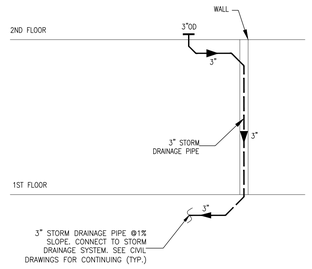
SD1 STORM DRAINAGE SCHEMATIC DIAGRAM
SCALE: N.T.S



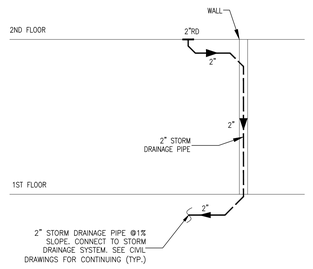
SD2 STORM DRAINAGE SCHEMATIC DIAGRAM
SCALE: N.T.S



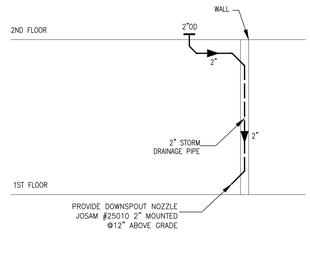
SD3 STORM DRAINAGE SCHEMATIC DIAGRAM
SCALE: N.T.S



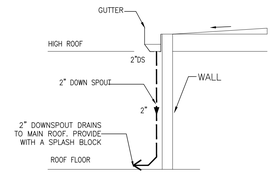
SD4 STORM DRAINAGE SCHEMATIC DIAGRAM
SCALE: N.T.S



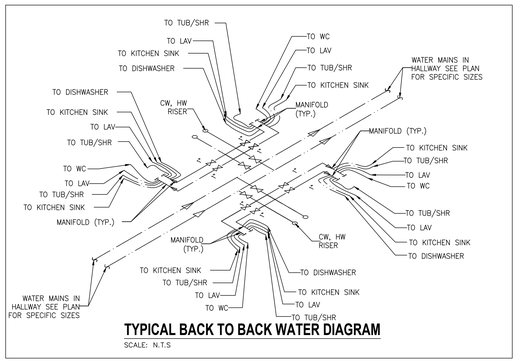
SD5 STORM DRAINAGE SCHEMATIC DIAGRAM
SCALE: N.T.S



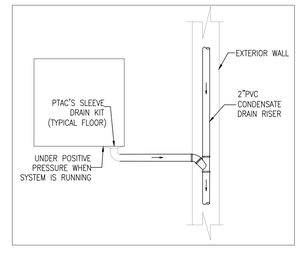
SD6 STORM DRAINAGE SCHEMATIC DIAGRAM
SCALE: N.T.S



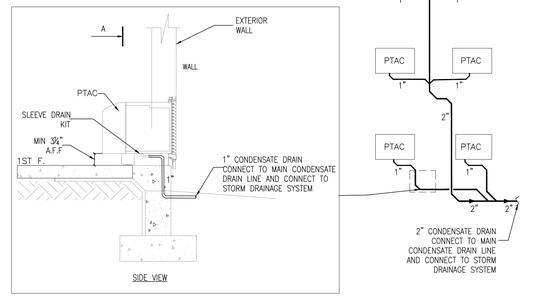
SD7 STORM DRAINAGE SCHEMATIC DIAGRAM
SCALE: N.T.S



TYPICAL BACK TO BACK WATER DIAGRAM
SCALE: N.T.S



CONDENSATE DRAIN POSITIVE CONNECTION DETAIL
SCALE: NTS



CONDENSATE DRAIN SCHEMATIC DIAGRAM 2
SCALE: NTS

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JAN. 15, 2026

SIDNEY D. PAREKH
LICENSE
No. 83005
STATE OF FLORIDA
REGISTERED
PROFESSIONAL ENGINEER

Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

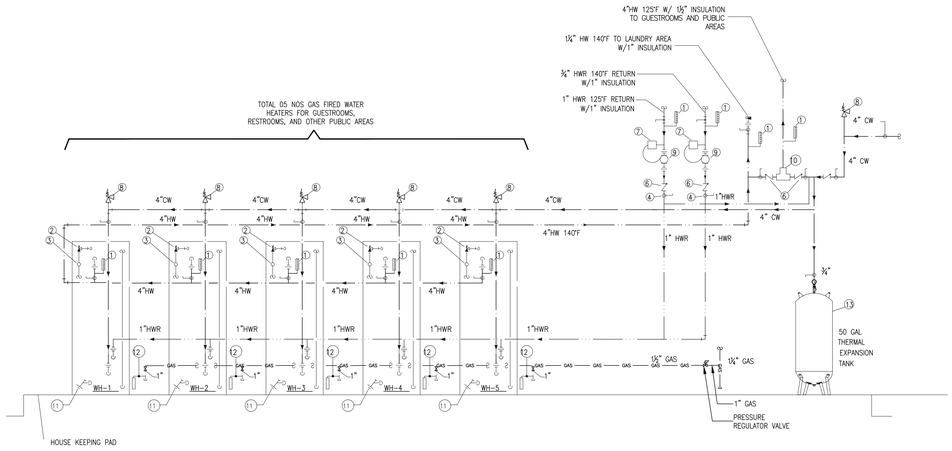
Panama City Beach, FL

??? S Thomas Dr. Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
PLUMBING
RISERS

SHEET NUMBER:
P4.1

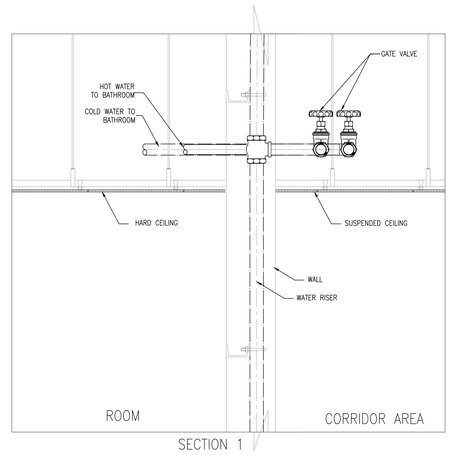


BILL OF MATERIALS (WATER HEATER)

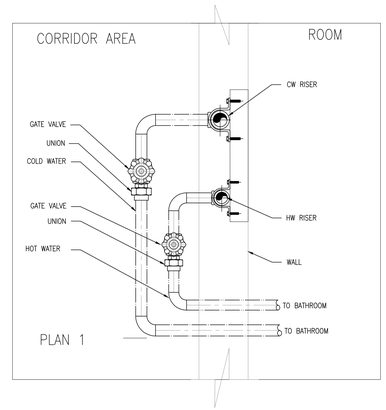
1. WEISS #GVS12 VARI-ANGLE THERMOMETER 30°-240°F (TYPICAL)
2. ASME RATED TEMPERATURE AND PRESSURE RELIEF VALVE
3. T&P VALVE DRAIN SHALL BE ROUTED TO FLOOR DRAIN
4. PLUG COCK (TYPICAL)
5. DIELECTRIC UNION (TYPICAL)
6. CHECK VALVE (TYPICAL)
7. IMMERSION TYPE CLOSE DIFFERENTIAL AQUATINT WITH TIMER
8. VACUUM RELIEF VALVE WATTS #N36 INSTALLED IN THE COLD WATER SUPPLY LINE ABOVE THE TOP OF THE HEATER OR TANK, SHALL BE PROVIDED TO PREVENT SIPHONING OF ANY STORAGE WATER HEATER OR TANK
9. 125°F CIRCULATING PUMP (CP-1)
   140°F CIRCULATING PUMP (CP-2)
10. HOT WATER MIXING VALVE MODEL DRV-50R DIGITAL MIXING VALVES BY ARMSTRONG INTERNATIONAL (THE BRAIN) TO GENERATE 120°F HOT WATER
11. DRAIN VALVE
12. GAS COCK(TYPICAL)
13. THERMAL EXPANSION TANK 50 GAL

1 GAS STORAGE WATER HEATER PIPING DIAGRAM (FOR GUESTROOMS, RESTROOMS, OTHER PUBLIC AREAS...)

SCALE: NTS



SECTION 1



2 SHUT OFF VALVE INSTALLATION DETAIL

SCALE: NTS

SPECIFICATIONS

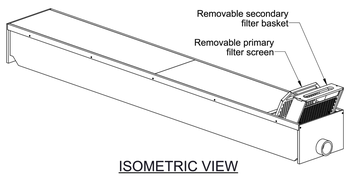
1. 4" Plain End outlet shown.
2. Liquid Capacity: *See unit options.*
3. Cover weight limit: 450 lbs.
4. Maximum operating temperature 165°F intermittent.

NOTES

1. All inlet connections are field installed.

ENGINEER SPECIFICATION GUIDE

Striem Tuff Trough shall be lifetime guaranteed and made in the USA of 3/4" polyethylene. Trough shall be certified to IAPMO/ANSI/CAN Z1167 and carry a UPC listing. Trough shall have removable, corrosion-resistant primary filter screen and secondary filter basket. Trough shall be furnished with a nested cover, internally sloped floor, and suitable for above- or below-grade installation. Trough shall be equipped with a plain end outlet. Inlet connections are field installed. Cover shall have a maximum 450 lbs. load capacity. Maximum operating temperature 165°F intermittent.



ISOMETRIC VIEW

OPTIONS

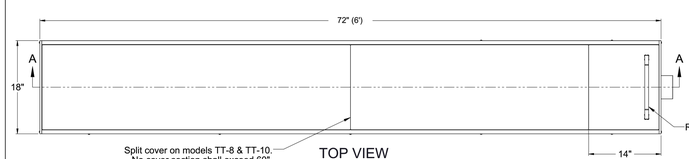
Select Unit

- ☐ **TT-3**: 3' x 18" x 12" 21 gal.
- ☐ **TT-4**: 4' x 18" x 12" 28 gal.
- ☐ **TT-5**: 5' x 18" x 12" 34 gal.
- ☑ **TT-6**: 6' x 18" x 12" 41 gal.
- ☐ **TT-8**: 8' x 18" x 12" 55 gal.
- ☐ **TT-10**: 10' x 18" x 12" 68 gal.

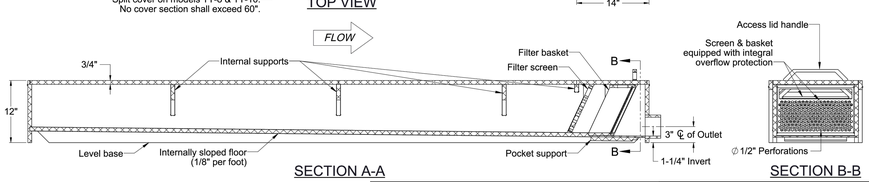
Additional Options

- ☐ **IBK-3**: 3" Plain End Inlet Bulkhead Kit Qty:_____

NOTE:
COORDINATE WITH THE ARCHITECT/STRUCTURAL ENGINEER TO ENSURE THE TRENCH DRAIN SIZE REFLECTS THE FLOOR PLAN AS PER THE DETAIL.



TOP VIEW



SECTION A-A

SECTION B-B

PO IS NON-CANCELABLE
ORDER IS NON-RETURNABLE

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF **STRIEM, LLC**. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF **STRIEM, LLC** IS PROHIBITED.

DESCRIPTION:

TUFF TROUGH
POLYETHYLENE DRAIN TROUGH

SPECIFICATION SHEET

Striem
Kansas City, KS
Tel: 913-222-1500
orders@striemco.com
www.striemco.com

Made in the U.S.A

STRIEM

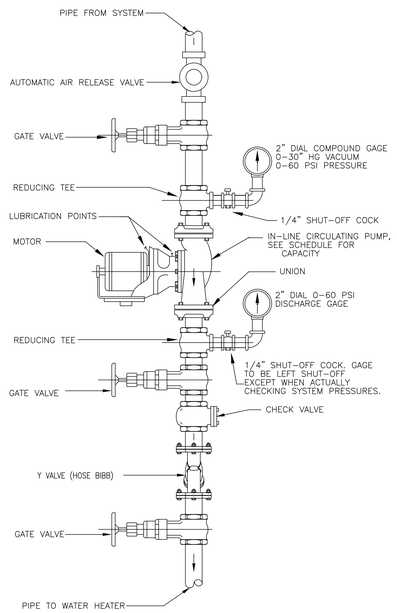
DWG BY:	ENG	DATE:	8/20/2024	REV:	2

3 DETAIL OF TRENCH DRAIN - LAUNDRY ROOM

SCALE: NTS

NOTE FOR CIRCULATING PUMP:

1. THE AUTOMATIC TIME SWITCHES INSTALLED TO AUTOMATICALLY SWITCH OFF THE RECIRCULATING HOT-WATER SYSTEM OR HEAT TRACE
2. PROVIDE A TEMPERATURE CONTROL THAT CAN BE SET TO SWITCH OFF THE USAGE TEMPERATURE MAINTENANCE SYSTEM DURING EXTENDED PERIODS WHEN HOT WATER IS NOT REQUIRED.
   - THE CONTROLS SHALL START THE PUMP UPON RECEIVING A SIGNAL FROM THE ACTION OF A USER OF THE FIXTURE, SENSING THE PRESENCE OF A USER OR SENSING THE FLOW OF HOT OR TEMPERED WATER TO THE FIXTURE OR APPLIANCE.
4. AUTOMATIC AIR RELEASE VALVE SHALL BE INSTALLED ON THE RECIRCULATION LOOP PIING INLET SIDE OF THE RECIRCULATION PUMP AND NO MORE THAN 4 FT FROM THE PUMP.
5. CHECK VALVE OR SIMILAR DEVICE SHALL BE LOCATED BETWEEN THE RECIRCULATION PUMP AND THE WATER HEATING EQUIPMENT.
6. HOSE BIBB SHALL BE INSTALLED BETWEEN THE PUMP AND WATER HEATING EQUIPMENT. AN ISOLATION VALVE SHALL BE INSTALLED BETWEEN THE HOSE BIBB AND WATER HEATING EQUIPMENT.
7. ISOLATION VALVES SHALL BE INSTALLED ON BOTH SIDES OF THE PUMP



4 HOT WATER CIRCULATION PUMP DETAIL

SCALE: NTS

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JAN. 15, 2026

DUNG D VU LICENSE No. 83005 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

Panama City Beach, FL

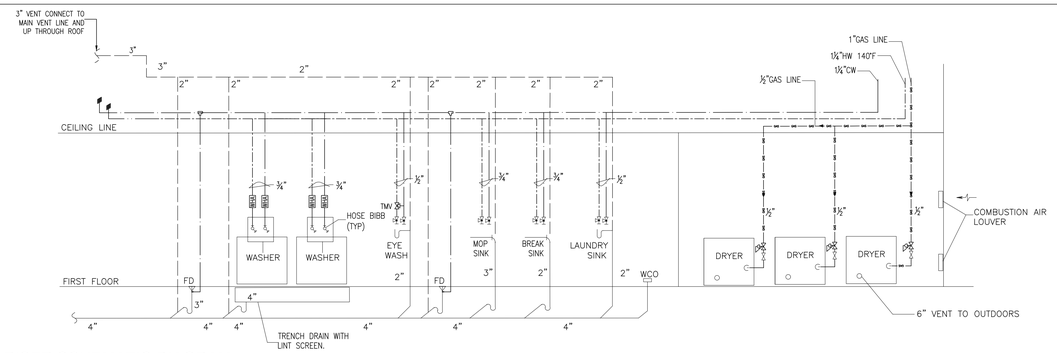
??? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
PLUMBING DETAILS

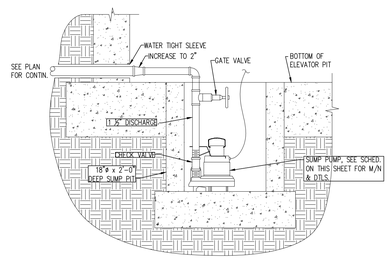
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P5.0



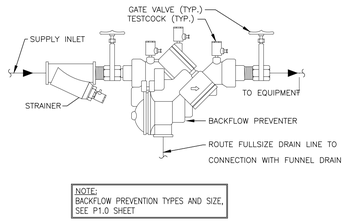
1 LAUNDARY RISER SCHEMATIC DIAGRAM

SCALE: NTS



2 SUMP PUMP DETAIL

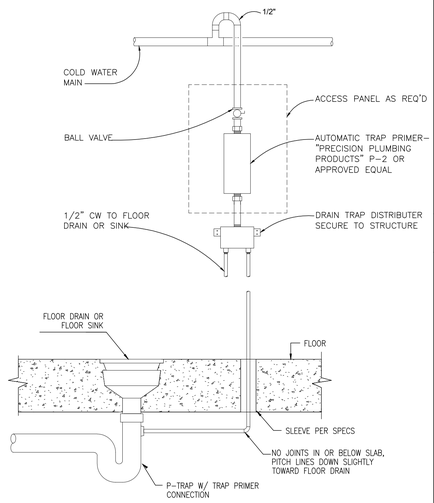
SCALE: NTS



NOTE:
BACKFLOW PREVENTION TYPES AND SIZE, SEE P1.0 SHEET

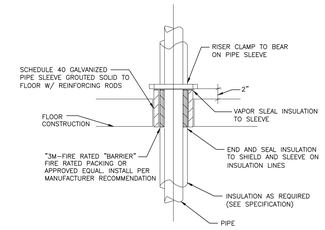
3 BACKFLOW PREVENTOR DETAIL

SCALE: NTS



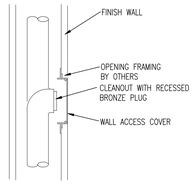
4 DETAIL OF AUTOMATIC TRAP PRIMER

SCALE: NTS



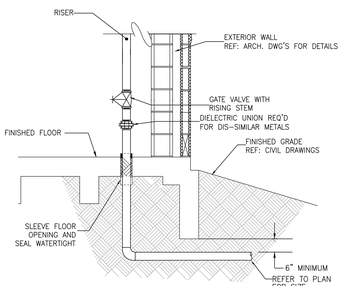
5 PIPE THRU ROOF DETAIL

SCALE: NTS



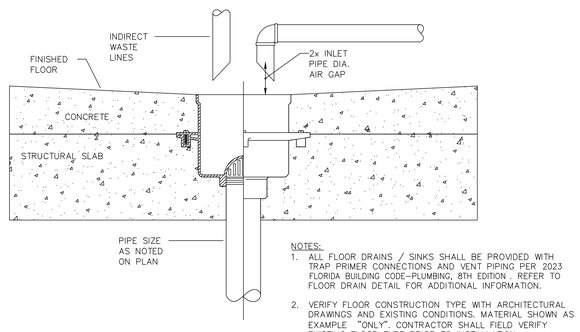
6 CLEANOUT TO FINISH WALL

SCALE: NTS



7 DOMESTIC WATER SERVICE ENTRY DETAIL

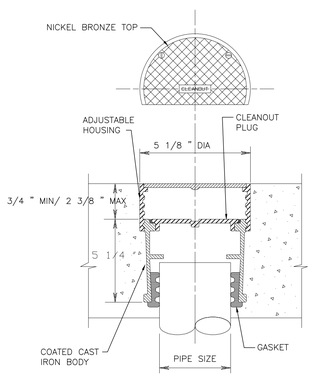
SCALE: NTS



NOTES:
1. ALL FLOOR DRAINS / SINKS SHALL BE PROVIDED WITH TRAP PRIMER CONNECTIONS AND VENT PIPING PER 2023 FLORIDA BUILDING CODE-PLUMBING, 8TH EDITION . REFER TO FLOOR DRAIN DETAIL FOR ADDITIONAL INFORMATION.
2. VERIFY FLOOR CONSTRUCTION TYPE WITH ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS. MATERIAL SHOWN AS EXAMPLE "ONLY". CONTRACTOR SHALL FIELD VERIFY EXISTING FLOOR TYPE PRIOR TO INSTALLATION.

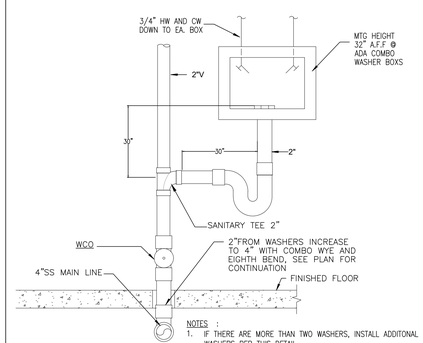
8 TYPICAL INDIRECT WASTE PIPING TO FLOOR DRAIN/SINK DETAIL

SCALE: NTS



9 FLOOR CLEAN OUT DETAIL

SCALE: NTS

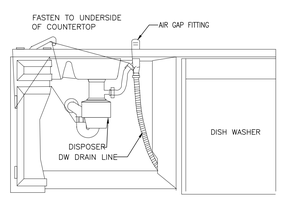


NOTES :
1. IF THERE ARE MORE THAN TWO WASHERS, INSTALL ADDITONAL WASHERS PER THIS DETAIL.
2. TOP MOUNT VALVES SHOWN, IF GUEST LAUNDRY IS ON UPPER FLOOR, PROVIDE BOTTOM MOUNT VALVES.
3. PROVIDE SIOUX CHIEF "LAUNDRY MINI" WATER HAMMER ARRESTORS ON EACH OUTLET.

10 WASHER BOX DETAIL

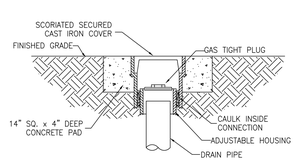
SCALE: NTS

DRAIN LINE INSTALLATION
- CONNECT DRAIN LINE TO AIR GAP, DISPOSER
- AIR GAP WITH DISPOSER



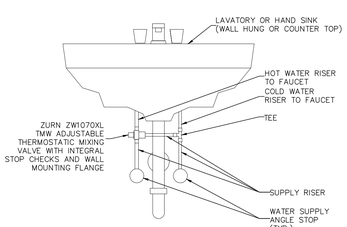
11 DISH WASHER - DISPOSER INSTALLATION DETAIL

SCALE: NTS



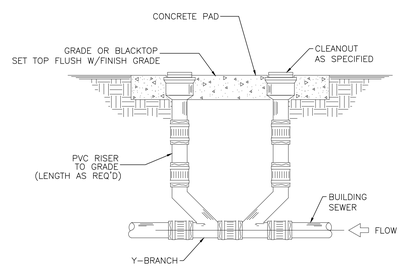
12 DETAIL OF OUTSIDE CLEANOUT TO FINISHED GRADE

SCALE: NTS



13 MIXING VALVE DETAIL

SCALE: NTS



14 DOUBLE CLEAN OUT DETAIL

SCALE: NTS

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JAN. 15, 2026



Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

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Panama City Beach, FL

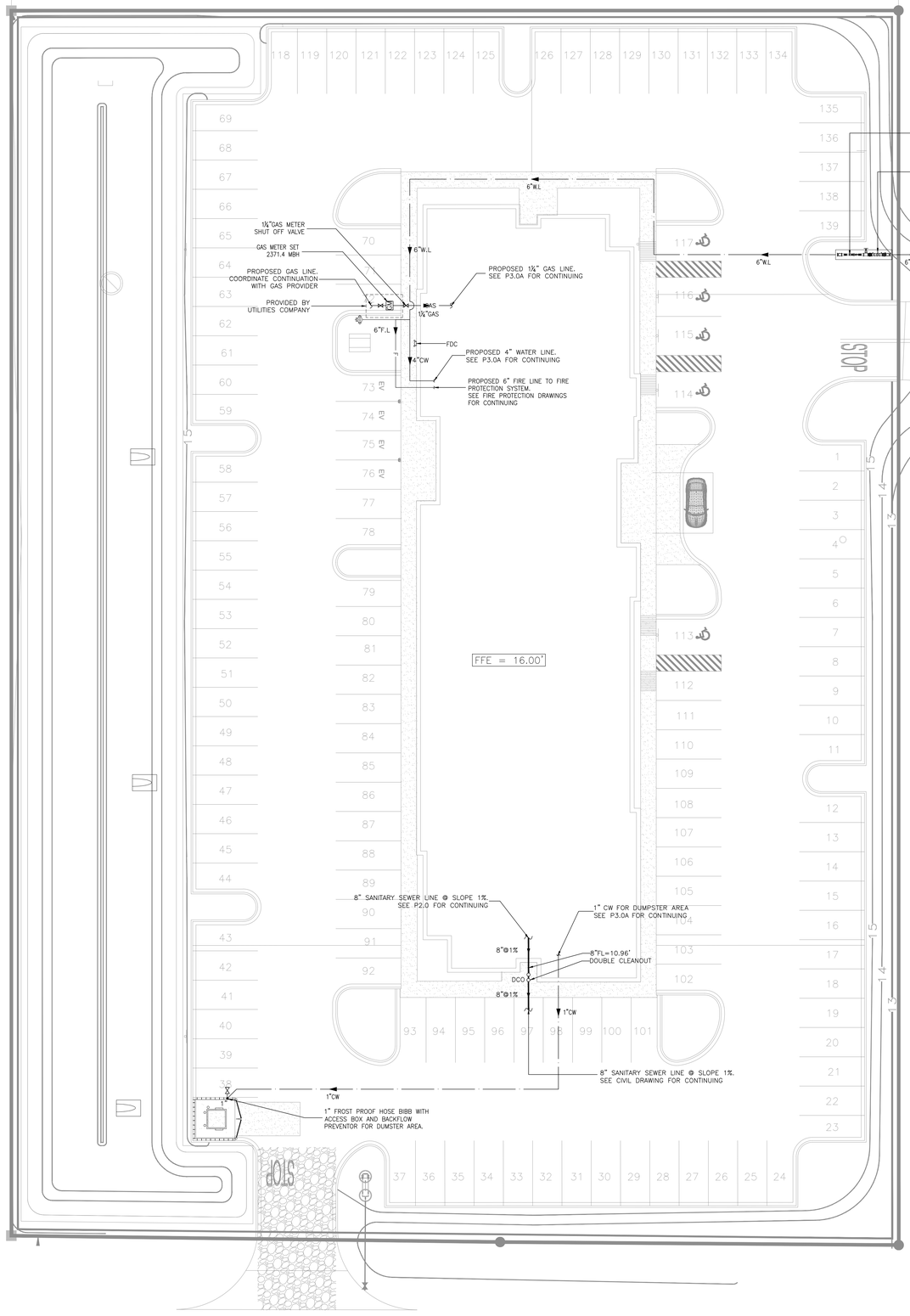
???? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

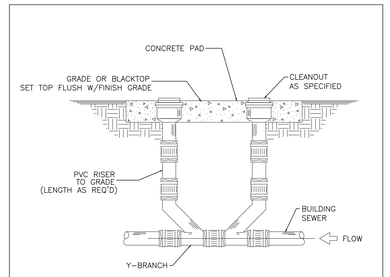
SHEET TITLE:
PLUMBING DETAILS

SHEET NUMBER:

P5.1



1 PLUMBING SITE PLAN
SCALE: 1/16"=1'-0"



2 DOUBLE CLEAN OUT DETAIL
SCALE: NTS

NOTE:

- REFER TO CIVIL DRAWING FOR THE BACKFLOW PREVENTER FOR EXACT LOCATION.
- WHERE STATIC WATER PRESSURE IN THE WATER SUPPLY PIPING IS EXCEEDING 80 PSI (552 KPA), AN APPROVED-TYPE PRESSURE REGULATOR PRECEDED BY AN ADEQUATE STRAINER SHALL BE INSTALLED AND THE STATIC PRESSURE REDUCED TO 80 PSI (552 KPA) OR LESS.
- OUTDOOR PLUMBING EQUIPMENT/DEVICES/VALVES SHALL BE PROTECTED BY ENCLOSURE TO PROVIDE PROTECTION AGAINTS FREEZE AND VANDALISM.

LEGEND

- PROPOSED SANITARY SEWER
- PROPOSED WATER LINE
- GAS GAS PROPOSED GAS LINE
- F F PROPOSED FIRE LINE

PIPING MATERIALS SCHEDULE

PLUMBING SYSTEM	PLUMBING MATERIAL DESCRIPTION
SANITARY DRAIN PIPING	SCHEDULE 40 PVC PIPE AND FITTINGS SOLVENT WELD ASTM D-2665,1120
DOMESTIC WATER PIPING	AWWA C900 DR18
FIRE PROTECTION SYSTEM	AWWA C900 DR18
GAS PIPING	BLACK STEEL PIPE, PLASTIC COATED

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JAN. 15, 2026

DUNG D VU LICENSE No. 83005 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project #: 2502
Issue Date: 01-15-2026
Principal Architect: Sid Parekh
Sr Project Architecture Tech: Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:
No. Description Date

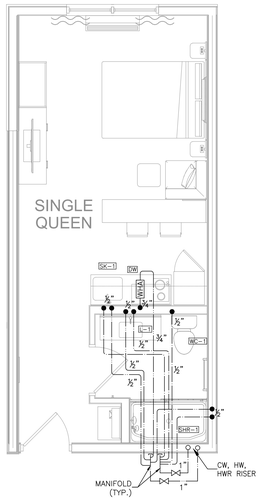
Panama City Beach, FL

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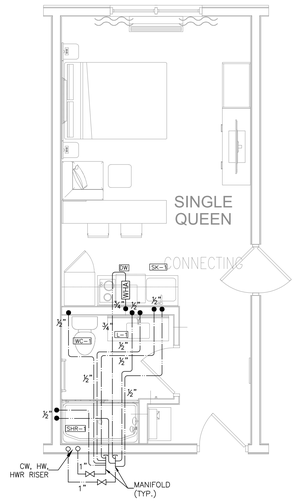
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SHEET TITLE:
PLUMBING SITE PLAN

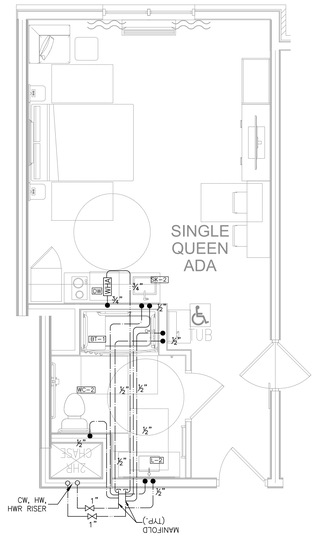
SHEET NUMBER:
P6.0



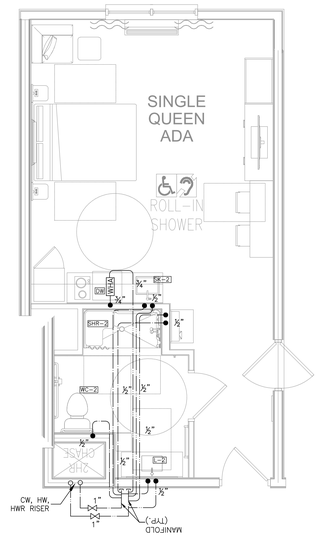
1 SINGLE QUEEN
SCALE: 1/4"=1'-0"



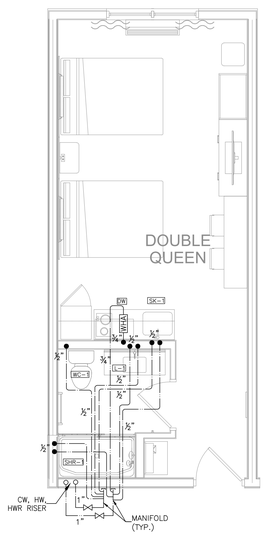
2 SINGLE QUEEN CONNECTING
SCALE: 1/4"=1'-0"



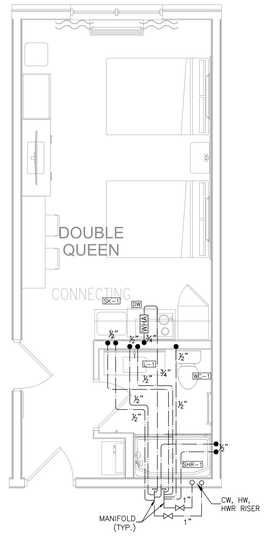
3 SINGLE QUEEN ADA (TUB)
SCALE: 1/4"=1'-0"



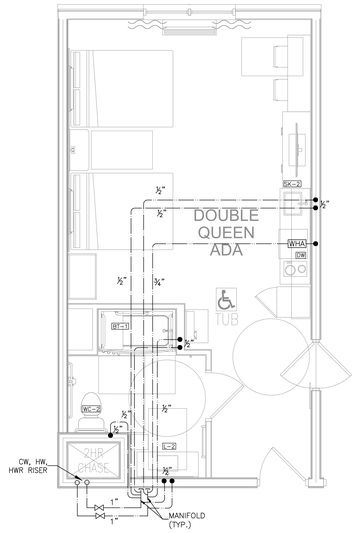
4 SINGLE QUEEN ADA (ROLL-IN SHOWER)
SCALE: 1/4"=1'-0"



5 DOUBLE QUEEN
SCALE: 1/4"=1'-0"



6 DOUBLE QUEEN CONNECTING
SCALE: 1/4"=1'-0"



7 DOUBLE QUEEN ADA
SCALE: 1/4"=1'-0"

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JAN. 15, 2026

BING D YU
LICENSED
No. 83005
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

Panama City Beach, FL

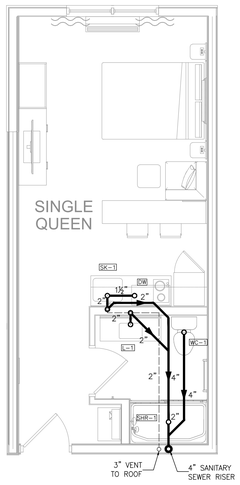
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STUDIO**RES**

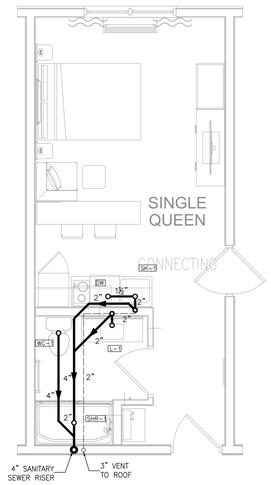
SHEET TITLE:
DOMESTIC WATER
TYPICAL GUESTROOM
PLAN

SHEET NUMBER:

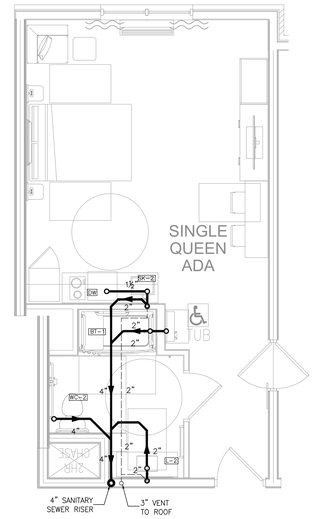
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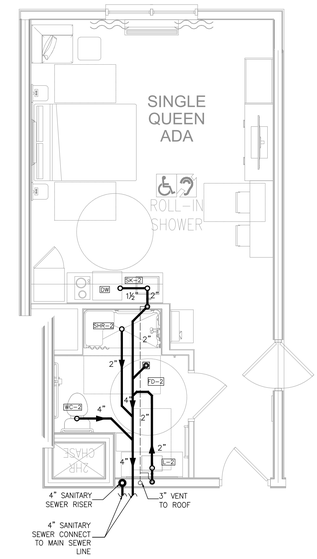
1 SINGLE QUEEN
SCALE: 1/4"=1'-0"



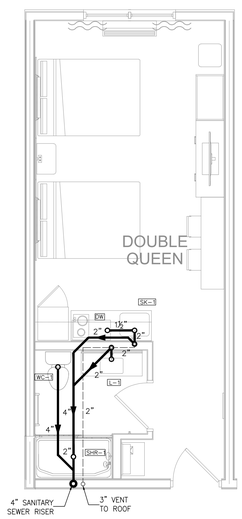
2 SINGLE QUEEN CONNECTING
SCALE: 1/4"=1'-0"



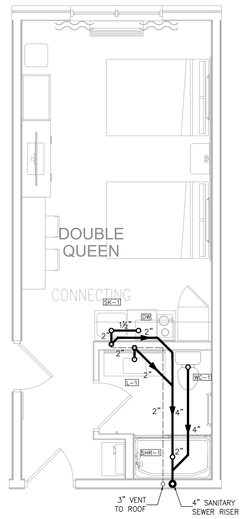
3 SINGLE QUEEN ADA (TUB)
SCALE: 1/4"=1'-0"



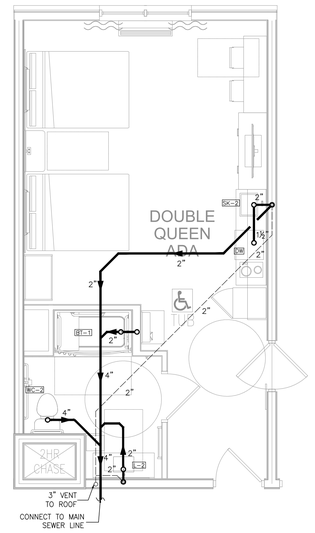
4 SINGLE QUEEN ADA (ROLL-IN SHOWER)
SCALE: 1/4"=1'-0"



5 DOUBLE QUEEN
SCALE: 1/4"=1'-0"



6 DOUBLE QUEEN CONNECTING
SCALE: 1/4"=1'-0"



7 DOUBLE QUEEN ADA
SCALE: 1/4"=1'-0"

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JAN. 15, 2026



Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

Panama City Beach, FL

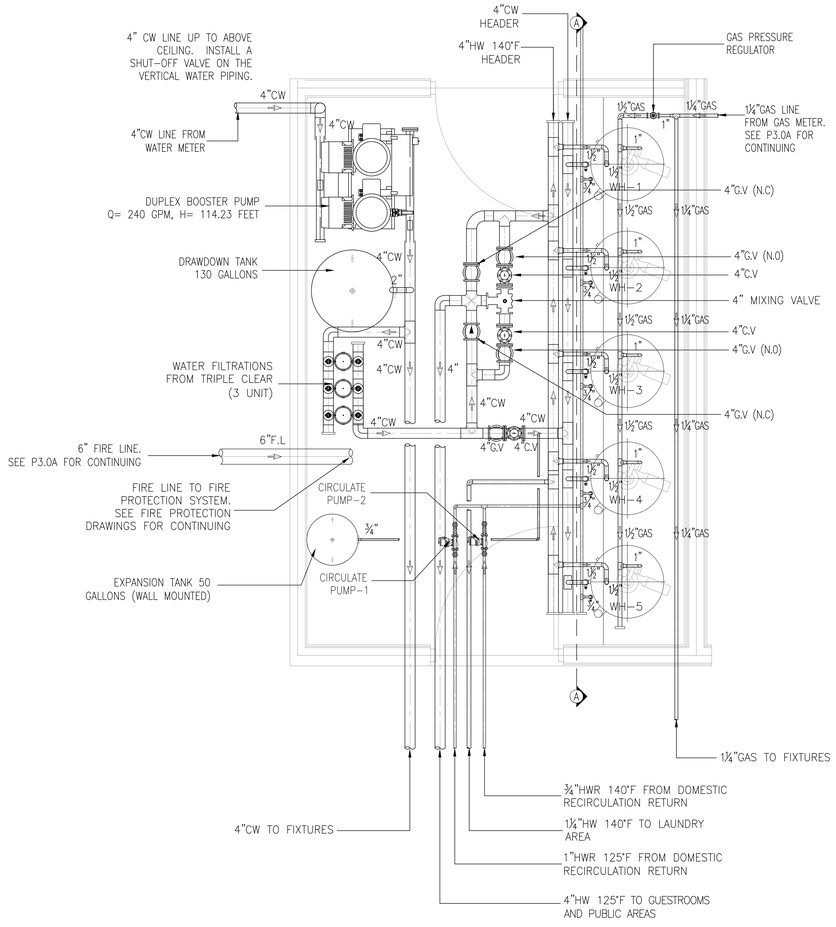
???? S Thomas Dr, Panama City Beach, FL 32408, USA

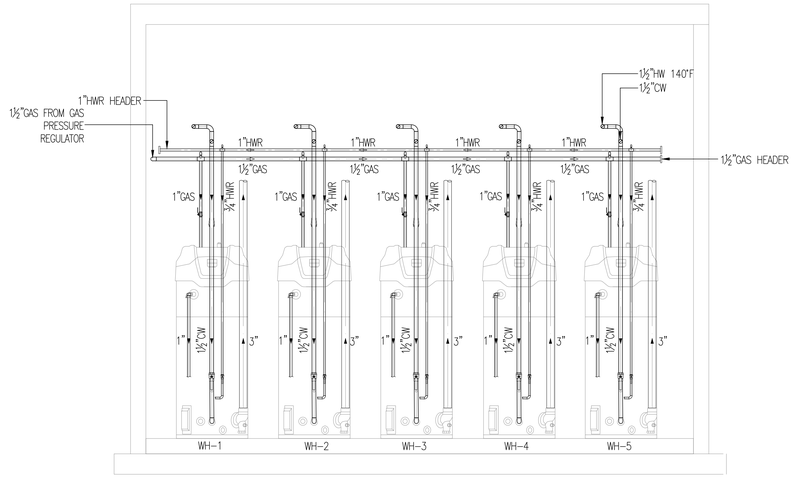
STUDIO**RES**

SHEET TITLE:
SANITARY SEWER
TYPICAL GUESTROOM
PLAN

SHEET NUMBER:

P7.1





VIEW A

1 ENLARGED MECHANICAL ROOM

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

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JAN. 15, 2026

DUNG D VU LICENSE No. 83005 STATE OF FLORIDA PROFESSIONAL ENGINEER

Project #:	2502
Issue Date:	11-24-2025
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

Panama City Beach, FL

???? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
ENLARGED MECHANICAL ROOM

SHEET NUMBER:
P7.2

TYPICAL KITCHENETTE GUEST ROOMS LOAD ANALYSIS (NEC 2020)

No.	Rm Type	Area	General Lighting Load (Area x 3VA/SF)-120V (NEC 220.12)	Small Appliances (1,500VA x 2 Circuits)-120V (NEC 220.52)	Cooktop (120V) (per Prototype)	Microwave (120V)	Range Hood (120V)	Dishwasher (120V)	Refrigerator (120V)	PTAC (208V)	Total (VA) (PANEL)	PANEL	# Rms	SUB-LOAD (#Rms x VA Panel)
1	SINGLE QUEEN	370	1110	3,000	2,600	1,000		1,800	192	2,800	12,502	PANEL A (80A)	46	575,092.0
2	SINGLE QUEEN CONNECTING	370	1110	3,000	2,600	1,000		1,800	192	2,800	12,502	PANEL A (80A)	2	25,004.0
3	SINGLE QUEEN ADA (TUB)	476	1428	3,000	2,600	700	240	1,800	192	2,800	12,760	PANEL A (80A)	2	25,520.0
4	SINGLE QUEEN ADA (R.I.S)	476	1428	3,000	2,600	700	240	1,800	192	2,800	12,760	PANEL A (80A)	2	25,520.0
5	DOUBLE QUEEN	396	1188	3,000	2,600	1,000		1,800	192	2,800	12,580	PANEL A (80A)	66	830,280.0
6	DOUBLE QUEEN CONNECTING	396	1188	3,000	2,600	1,000		1,800	192	2,800	12,580	PANEL A (80A)	3	37,740.0
7	DOUBLE QUEEN ADA (TUB)	503	1509	3,000	2,600	700	240	1,800	192	2,800	12,841	PANEL A (80A)	3	38,523.0
												TOTAL RMS:	124	
												TOTAL CONNECTED GUEST RM LOAD:		1,557,679
												DEMAND FACTOR (TABLE 220.84 FOR 124 GUEST RM UNITS:		0.23
												DEMAND LOAD (VA):		358,266

TYPICAL GUESTROOM W/ KITCHENETTE LOAD ANALYSIS

SCALE: NTS

ELECTRICAL LOAD ANALYSIS MDP (NEC 2020 ARTICLE 220)

		LOAD	KVA	AMPS @ 208/120V, 3P, 4W			
				PHASE "A"	PHASE "B"	PHASE "C"	NEUTRAL
A.		**LIGHTING LOAD:**					
	1.	EXTERIOR LIGHTS: 12.69 KVA (SIGN, SITE LIGHTS, PORTE COCHERE,..)					
	2.	INTERIOR LIGHTS: 8.1 KVA (LOBBY, LOUNGE, BREAKFAST AREA, CORRIDOR,...)					
	3.	TOTAL LIGHTING LOAD: 20.79 KVA @ 125%	25.99	72	72	72	72
B.		**KITCHENETTE GUESTROOM LOADS 124 (REFER TO KITCHENETTE GUESTROOMS LOAD ANALYSIS SHEET)**					
	1.	TOTAL 1557.7KVA @ 23% DF (NEC 220.84)	358.3	994	994	994	994
C.		**HOUSE LOADS:**					
	1.	DRYER 3@1.5 KVA & 8@5 KVA	44.5	124	124	124	
	2.	WASHER 2@6 KW(7.05KVA) & 6@1.8 KW(2.12KVA)	26.8	74	74	74	74
	3.	ICE MACHINES: 1@1.5 KVA	1.5	4	4	4	4
	4.	GENERAL RCPTS 92@180 VA FIRST 10,000 VA @ 100%	10.0	28	28	28	28
		REMAINING 6,560 VA @ 50%	3.3	9	9	9	9
	5.	MISCELLANEOUS (FIRE ALARM, TEL BOARD, ETC.)	15.0	42	42	42	42
	6.	SERVICES EQUIPMENT 25.48 KVA @ 65%	16.6	46	46	46	46
	7.	EV CHARGER: 4@7.2 KVA @ 125%	36.0	100	100	100	
	8.	FUTURE EV CHARGER : 16@7.2 KVA @ 125%	144.0	400	400	400	
D.		**MECHANICAL LOADS:**					
	1.	MECHANICAL FANS	1.0	3	3	3	3
	2.	AHU, ACCU, EUH @ 100%	91.3	253	253	253	
	3.	ELEVATORS: 1@30HP (26.47KVA) @ 100%	26.5	73	73	73	
	4.	PUMPS	10.7	30	30	30	30
	5.	LARGEST MOTOR (DOAS-2): 42.19KVA @125%	52.7	146	146	146	
E.		**SUB TOTAL DEMAND LOAD (E=A+B+C+D):**	864.06	2,398	2,398	2,398	1,302
F.		**PANEL "MDP" (AMPS):**		2,500	2,500	2,500	2,500
G.		**CONDUCTORS SELECTION: (TABLE 310.15(B)(16)) @ 75°C (167° F) RATING:**		8-600KCMIL, AL, THWN (2,720 Amps)	8-600KCMIL, AL, THWN (2,720 Amps)	8-600KCMIL, AL, THWN (2,720 Amps)	8-600KCMIL, AL, THWN (2,720 Amps)
H.		**SERVICE TRANSFORMER CAPACITY (KVA)**		**WILL BE PROVIDED BY UTILITY**			

ELECTRICAL LOAD ANALYSIS

SCALE: NTS

FEEDER SCHEDULE

KEY	SETS	TYPE	RATING @ 75°C (167°F)	SIZE	GROUND (CU) (TABLE 250.122(B))	CONDUIT
⟨1⟩	1	COPPER, THWN	130A	4 #1 AWG	# 6G	1-1/2"C
⟨2⟩	1	ALUMINUM, THWN	135A	4 #2/0 AWG	# 6G	2"C
⟨3⟩	1	ALUMINUM, THWN	230A	4 #300 KCMIL	# 4G	3-1/2"C
⟨4⟩	1	ALUMINUM, THWN	270A	4 #400 KCMIL	# 4G	3-1/2"C
⟨5⟩	1	ALUMINUM, THWN	310A	4 #500 KCMIL	# 4G	3-1/2"C
⟨6⟩	2	ALUMINUM, THWN	410A	4 #250 KCMIL	# 3G	3"C
⟨7⟩	8	ALUMINUM, THWN	2720A	4 #600 KCMIL		4"C

NOTES FOR SELECTIVE OVERCURRENT PROTECTIVE DEVICE WILL BE PROVIDED BY THE ELECTRICAL CONTRACTOR

1. THE SELECTION AND INSTALLATION OF OVERCURRENT PROTECTIVE DEVICES AND THEIR RATINGS OR SETTINGS FOR THE FULL RANGE OF AVAILABLE OVERCURRENTS, FROM OVERCURRENT PROTECTIVE DEVICE OPENING TIMES ASSOCIATED WITH THOSE OVERCURRENTS.
2. WHERE MORE THAN ONE DRIVING MACHINE DISCONNECTING MEANS IS SUPPLIED BY A SINGLE FEEDER, THE OVERCURRENT PROTECTIVE DEVICES IN EACH DISCONNECTING MEANS SHALL BE SELECTIVELY COORDINATED WITH ANY OTHER SUPPLY SIDE OVERCURRENT PROTECTIVE DEVICES.
3. PROVIDE A COMPLETE AND ACCURATE SELECTIVE COORDINATION STUDY FOR THE FULL RANGE OF OVERCURRENT PROTECTIVE DEVICE OPENING TIMES ASSOCIATED WITH THOSE OVERCURRENTS, IN ACCORDANCE WITH THE 2020 NEC. ARTICLE 620.62 SELECTIVE COORDINATION. SECLECTIVE COORDINATION SHALL BE SELECT BY MANUFACTURER OR OTHER QUALIFIED PERSON ENGAGED PRIMARILY IN THE DESIGN, INSTALLATION OR MAINTENANCE OF ELECTRICAL SYSTEMS. THE SELECTION SHALL BE DOCUMENTED AND MADE AVAILABLE TO THE AHJ.

NOTES FOR ELEVATOR:

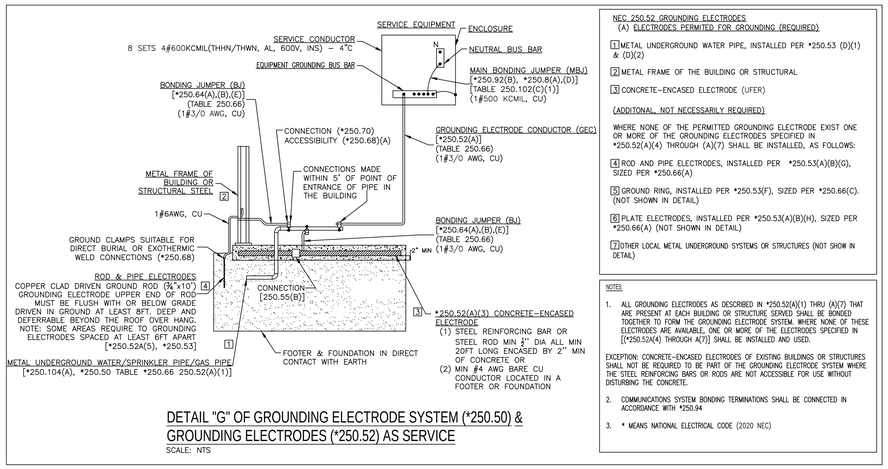
1. CONTRACTOR SHALL VERIFY ALL OF THE ELECTRICAL REQUIREMENTS WITH ELEVATOR SUPPLIER/ MANUFACTURER PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL VERIFY WITH THE ELEVATOR MANUFACTURER FOR THE APPROVED TYPE OF CABLES USING FOR THE ELEVATORS PRIOR TO PLACING ORDERS/ INSTALLATION.
3. THE CONTRACTOR MUST SELECT THE ELEVATORS MODEL WITH THE SHORT CIRCUIT RATING (SSCR) TO MATCH THE SHORT CIRCUIT CALCULATION VALUE SHOWN ON THE ELECTRICAL PLAN.
4. THE CONTRACTOR MUST VERIFY HPs, CABLE SIZES, BREAKER LUGS, DISCONNECT SWITCH, ETC OF THE ELEVATORS WITH THE MANUFACTURER & CODES REQUIREMENTS PRIOR TO INSTALLATION
5. THE ELEVATOR SHALL BE EQUIPPED WITH AN AUTOMATIC EVACUATION DEVICE (AED), ALSO KNOWN AS AUTO EVACUATION. IN THE EVENT OF A POWER FAILURE, THIS SYSTEM WILL GUIDE THE ELEVATOR TO THE NEAREST FLOOR (EITHER UP OR DOWN, DEPENDING ON THE LOAD) TO EVACUATE PASSENGERS.

◇ KEY NOTES:

1. ELEVATOR CONTROL PANEL, WIRING & CONDUITS PER MANUFACTURER & CODES REQUIREMENTS.
2. CONSULT WITH THE UTILITY COMPANY TO DETERMINE THE BEST LOCATION FOR THE UTILITY METER, EITHER AT THE TRANSFORMER OR THE MDP
3. 208/120V, 3-PH, 4W. GENERATOR DOCKING STATION WITH CAM LOCKS, NEMA-3R ENCLOSURE. THE CAPACITY OF THE GENERATOR DOCKING STATION SER WILL BE DETERMINED AFTER THE FIRE PUMP SELECTION IS FINALIZED. PLEASE CONFIRM THE FIRE PUMP HORSEPOWER (HP) WITH THE FIRE PROTECTION ENGINEER PRIOR TO PLACING ANY ORDERS OR PROCEEDING WITH INSTALLATION.

NOTE FOR POWER BACK-UP (FBC 2023):

CONTRACTOR HAS TO VERIFY WITH CITY/INSPECTOR TO PROVIDE BACK-UP FOR ACCESSIBLE MEANS OF EGRESS ELEVATORS, EXHAUST FANS IF FBC REQUIRE.



DETAIL "G" OF GROUNDING ELECTRODE SYSTEM (*250.50) & GROUNDING ELECTRODES (*250.52) AS SERVICE

SCALE: NTS

NEC 250.52 GROUNDING ELECTRODES

(A) ELECTRODES PERMITTED FOR GROUNDING (REQUIRED)

1 METAL UNDERGROUND WATER PIPE, INSTALLED PER *250.53 (D)(1) & (D)(2)

2 METAL FRAME OF THE BUILDING OR STRUCTURAL

3 CONCRETE-ENCASED ELECTRODE (UFER)

(ADDITONAL, NOT NECESSARILY REQUIRED)

WHERE NONE OF THE PERMITTED GROUNDING ELECTRODE EXIST ONE OR MORE OF THE GROUNDING ELECTRODES SPECIFIED IN *250.52(A)(4) THROUGH (A)(7) SHALL BE INSTALLED, AS FOLLOWS:

4 ROD AND PIPE ELECTRODES, INSTALLED PER *250.53(A)(B)(G), SIZED PER *250.66(A)

5 GROUND RING, INSTALLED PER *250.53(F), SIZED PER *250.66(C). (NOT SHOWN IN DETAIL)

6 PLATE ELECTRODES, INSTALLED PER *250.53(A)(B)(H), SIZED PER *250.66(A) (NOT SHOWN IN DETAIL)

7 OTHER LOCAL METAL UNDERGROUND SYSTEMS OR STRUCTURES (NOT SHOW IN DETAIL)

NOTES:

1. ALL GROUNDING ELECTRODES AS DESCRIBED IN *250.52(A)(1) THRU (A)(7) THAT ARE PRESENT AT EACH BUILDING OR STRUCTURE SERVED SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM. WHERE NONE OF THESE ELECTRODES ARE AVAILABLE, ONE OR MORE OF THE ELECTRODES SPECIFIED IN [(*250.52(4) THROUGH A(7)] SHALL BE INSTALLED AND USED.

EXCEPTION: CONCRETE-ENCASED ELECTRODES OF EXISTING BUILDINGS OR STRUCTURES SHALL NOT BE REQUIRED TO BE PART OF THE GROUNDING ELECTRODE SYSTEM WHERE THE STEEL REINFORCING BARS OR RODS ARE NOT ACCESSIBLE FOR USE WITHOUT DISTURBING THE CONCRETE.

2. COMMUNICATIONS SYSTEM BONDING TERMINATIONS SHALL BE CONNECTED IN ACCORDANCE WITH *250.94
3. * MEANS NATIONAL ELECTRICAL CODE (2020 NEC)

NOTES:

1. FOR HOME RUNS 100 FT OR MORE, THE ELECTRICAL CONTRACTOR HAS TO CHECK THE VOLTAGE DROP AND SELECT THE SUITABLE CABLES TO COMPLY WITH THE MAXIMUM ALLOWED VOLTAGE DROP FOR THE FEEDER CONDUCTOR (3%). THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.

NOTES FOR PANEL BOARDS:

PANEL BOARDS SHALL BE SQUARE D OR SIEMENS OR G.E., OR CUTLER-HAMMER, ETC AND BUSSING SHALL BE COPPER ONLY. PRIOR TO ORDERING/ INSTALLATION, THE CONTRACTOR MUST SUBMIT THE GEAR SUBMITTAL TO THE PLAN REVIEWER/ CITY INSPECTOR FOR FINAL APPROVAL REGARDING WHETHER IF THE SERIES RATED IS ACCEPTABLE.

FOR QUOTES CONTACT BEN @ GREENS:
CELL PHONE: 949-293-5006
EMAIL TO: quotes@greens.com

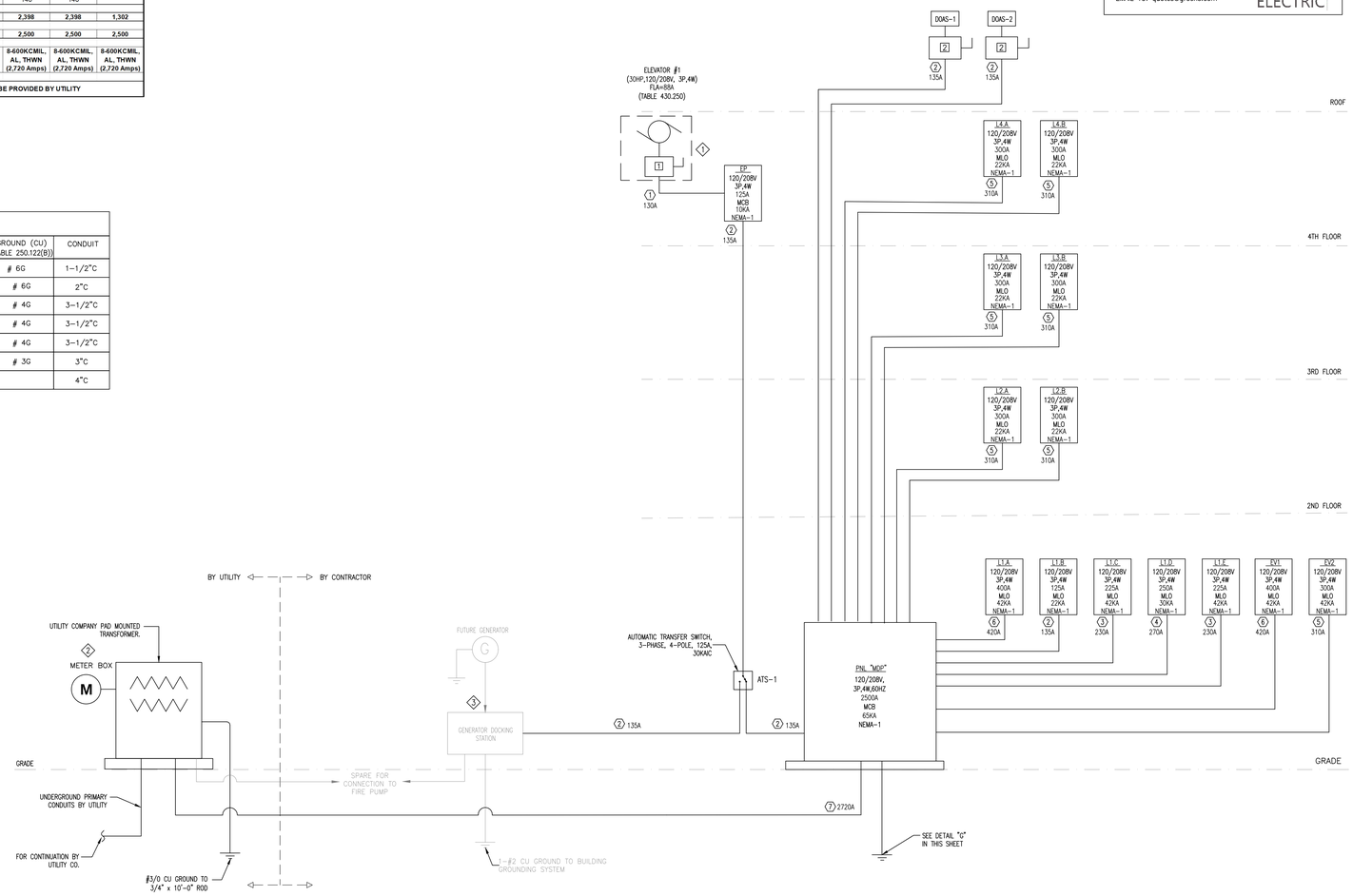
GREENS ELECTRIC

☐ KEY NOTES:

1. 240V, 3P, 200A DISCONNECT SWITCH W/125A CURRENT LIMITING CLASS RK1 FUSES (10K A.I.C) IN NEMA-1 ENCLOSURE.
2. 240V, 3P, 200A DISCONNECT SWITCH W/125A CURRENT LIMITING CLASS RK1 FUSES (10K A.I.C) IN NEMA-3R ENCLOSURE.

NOTES FOR ENERGY USE METERING PER IECC 2021:

PROVIDE SUBMETERS OR OTHER APPROVED MEASUREMENT DEVICES TO COLLECT ENERGY USE DATA FOR EACH END-USE CATEGORY AS REQUIRED BY IECC 2021 SECTION C405.12.2.END-USE CATEGORIES SHALL INCLUDE, BUT ARE NOT LIMITED TO, HVAC SYSTEMS, INTERIOR AND EXTERIOR LIGHTING, RECEPTACLE LOADS, PROCESS LOADS, AND SERVICE WATER HEATING, PER TABLE C405.12.2. WHERE MULTIPLE METERS ARE USED FOR AN END-USE CATEGORY, THE DATA ACQUISITION SYSTEM SHALL TOTAL ALL ENERGY USED BY THAT CATEGORY.



ELECTRICAL ONE LINE DIAGRAM

SCALE: NTS

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JAN. 15, 2026

DUNG VU, No. 83005, STATE OF FLORIDA, REGISTERED, PROFESSIONAL ENGINEER

DUNG VU, Ph.D. P.E. LEED AP

Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Manoo T. Yones

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:

ELECTRICAL
ONE LINE DIAGRAM &
LOAD ANALYSIS

SHEET NUMBER:

E1.0

VOLTAGE DROP CALCULATION SHEET (NEC 2020)

VOLTAGE DROP CALCULATION FORMULA:

Vd	=	(I x R x L x M) / (P x 1000)
Vd	=	Maximum Voltage Drop in Volts
I	=	Current in Amps
R	=	Resistance in ohms per kilo foot **(Chapter 9, Table 8)**
L	=	Length of wire one way in feet
M	=	Multiplier (2 for single phase or 1.732 for three phase)
P	=	Number of parallel runs

E_{LL} = 208 V (Phase to phase voltage rating)

M = 1.732 (Three phase) M = 2 (Single phase)

%Vd = 3 % (Maximum voltage allowed)

= 6.24 V

Panel of Feeder Origin	Current (A)	Wire AWG /Kcmil (feeder)	Material	Sqrt(3) or 2	L (Length of feeder)	R Resistance (Ch. Table 8) (Ohm /kFT)	# of Parallel Conductors	Voltage Drop (Vd)	% Voltage Drop (%Vd)
MDP-L1.A Panel	**305**	**250**	(AL)	1.732	30	0.0847	2	0.67	0.32%
MDP-L1.B Panel	**72**	**2/0**	(AL)	1.732	30	0.1590	1	0.59	0.28%
MDP-L1.C Panel	**176**	**300**	(AL)	1.732	30	0.0707	1	0.64	0.31%
MDP-L1.D Panel	**187**	**400**	(AL)	1.732	60	0.0529	1	1.03	0.49%
MDP-L1.E Panel	**161**	**300**	(AL)	1.732	30	0.0707	1	0.59	0.28%
MDP-EV1 Panel	**300**	**250**	(AL)	1.732	30	0.0847	2	0.66	0.32%
MDP-EV2 Panel	**200**	**500**	(AL)	1.732	30	0.0424	1	0.44	0.21%
MDP-L2.A Panel	**239**	**500**	(AL)	1.732	120	0.0424	1	2.11	1.01%
MDP-L2.B Panel	**218**	**500**	(AL)	1.732	120	0.0424	1	1.92	0.92%
MDP-L3.A Panel	**239**	**500**	(AL)	1.732	135	0.0424	1	2.37	1.14%
MDP-L3.B Panel	**216**	**500**	(AL)	1.732	135	0.0424	1	2.14	1.03%
MDP-L4.A Panel	**239**	**500**	(AL)	1.732	150	0.0424	1	2.63	1.27%
MDP-L4.B Panel	**219**	**500**	(AL)	1.732	150	0.0424	1	2.42	1.16%
MDP-DOAS-1	**93**	**2/0**	(AL)	1.732	130	0.1590	1	3.32	1.59%
MDP-DOAS-2	**117**	**2/0**	(AL)	1.732	160	0.1590	1	5.16	2.48%
MDP-EP Panel	**97**	**2/0**	(AL)	1.732	150	0.1590	1	4.02	1.93%
EP Panel-ELEVATOR #1	**88**	**1**	(CU)	1.732	25	0.1600	1	0.61	0.29%
L1.B Panel-Monument sign	**10**	**10**	(CU)	1.732	150	1.2900	1	3.35	1.61%
L1.B Panel-Farthest lighting pole #10,12	**10**	**10**	(CU)	1.732	230	1.2900	1	5.14	2.47%
L1.B Panel-Farthest lighting pole #14,16	**10**	**10**	(CU)	1.732	360	1.2900	1	8.04	3.87%
GUESTROOM PANEL FED FROM L1.A									
L1.A - Panel "A" - RM 100	**60**	**3**	(CU)	2	75	0.2540	1	2.29	1.1%
L1.A - Panel "A" - RM 101	**60**	**3**	(CU)	2	75	0.2540	1	2.29	1.1%
L1.A - Panel "A" - RM 102	**60**	**3**	(CU)	2	75	0.2540	1	2.29	1.1%
L1.A - Panel "A" - RM 103	**60**	**3**	(CU)	2	50	0.2540	1	1.52	0.73%
L1.A - Panel "A" - RM 104	**60**	**3**	(CU)	2	50	0.2540	1	1.52	0.73%
L1.A - Panel "A" - RM 105	**60**	**3**	(CU)	2	50	0.2540	1	1.52	0.73%
L1.A - Panel "A" - RM 115	**60**	**3**	(CU)	2	110	0.2540	1	3.35	1.61%
L1.A - Panel "A" - RM 116	**60**	**3**	(CU)	2	110	0.2540	1	3.35	1.61%
L1.A - Panel "A" - RM 117	**60**	**3**	(CU)	2	110	0.2540	1	3.35	1.61%
L1.A - Panel "A" - RM 118	**60**	**3**	(CU)	2	110	0.2540	1	3.35	1.61%
L1.A - Panel "A" - RM 119	**60**	**3**	(CU)	2	135	0.2540	1	4.11	1.98%
L1.A - Panel "A" - RM 120	**60**	**3**	(CU)	2	135	0.2540	1	4.11	1.98%
L1.A - Panel "A" - RM 121	**60**	**3**	(CU)	2	135	0.2540	1	4.11	1.98%
L1.A - Panel "A" - RM 122	**60**	**3**	(CU)	2	135	0.2540	1	4.11	1.98%
L1.A - Panel "A" - RM 123	**60**	**3**	(CU)	2	160	0.2540	1	4.88	2.34%
L1.A - Panel "A" - RM 124	**60**	**3**	(CU)	2	160	0.2540	1	4.88	2.34%
L1.A - Panel "A" - RM 125	**60**	**3**	(CU)	2	160	0.2540	1	4.88	2.34%
L1.A - Panel "A" - RM 126	**60**	**3**	(CU)	2	160	0.2540	1	4.88	2.34%
L1.A - Panel "A" - RM 127	**60**	**3**	(CU)	2	185	0.2540	1	5.64	2.71%
L1.A - Panel "A" - RM 128	**60**	**3**	(CU)	2	185	0.2540	1	5.64	2.71%
L1.A - Panel "A" - RM 129	**60**	**3**	(CU)	2	185	0.2540	1	5.64	2.71%
L1.A - Panel "A" - RM 130	**60**	**3**	(CU)	2	185	0.2540	1	5.64	2.71%
L1.A - Panel "A" - RM 131	**60**	**2**	(CU)	2	210	0.2010	1	5.07	2.44%
L1.A - Panel "A" - RM 132	**60**	**2**	(CU)	2	210	0.2010	1	5.07	2.44%
L1.A - Panel "A" - RM 133	**60**	**2**	(CU)	2	210	0.2010	1	5.07	2.44%
GUESTROOM PANEL FED FROM L2.A									
L2.A - Panel "A" - RM 200	**60**	**3**	(CU)	2	120	0.2540	1	3.66	1.76%
L2.A - Panel "A" - RM 201	**60**	**3**	(CU)	2	120	0.2540	1	3.66	1.76%
L2.A - Panel "A" - RM 202	**60**	**3**	(CU)	2	120	0.2540	1	3.66	1.76%
L2.A - Panel "A" - RM 203	**60**	**3**	(CU)	2	95	0.2540	1	2.90	1.39%
L2.A - Panel "A" - RM 204	**60**	**3**	(CU)	2	95	0.2540	1	2.90	1.39%
L2.A - Panel "A" - RM 205	**60**	**3**	(CU)	2	95	0.2540	1	2.90	1.39%
L2.A - Panel "A" - RM 206	**60**	**3**	(CU)	2	95	0.2540	1	2.90	1.39%
L2.A - Panel "A" - RM 207	**60**	**3**	(CU)	2	70	0.2540	1	2.13	1.03%
L2.A - Panel "A" - RM 208	**60**	**3**	(CU)	2	70	0.2540	1	2.13	1.03%
L2.A - Panel "A" - RM 209	**60**	**3**	(CU)	2	70	0.2540	1	2.13	1.03%
L2.A - Panel "A" - RM 210	**60**	**3**	(CU)	2	70	0.2540	1	2.13	1.03%
L2.A - Panel "A" - RM 211	**60**	**3**	(CU)	2	45	0.2540	1	1.37	0.66%
L2.A - Panel "A" - RM 212	**60**	**3**	(CU)	2	45	0.2540	1	1.37	0.66%
L2.A - Panel "A" - RM 214	**60**	**3**	(CU)	2	45	0.2540	1	1.37	0.66%
L2.A - Panel "A" - RM 215	**60**	**3**	(CU)	2	65	0.2540	1	1.98	0.95%
L2.A - Panel "A" - RM 216	**60**	**3**	(CU)	2	65	0.2540	1	1.98	0.95%
L2.A - Panel "A" - RM 217	**60**	**3**	(CU)	2	65	0.2540	1	1.98	0.95%
L2.A - Panel "A" - RM 219	**60**	**3**	(CU)	2	90	0.2540	1	2.74	1.32%
GUESTROOM PANEL FED FROM L2.B									
L2.B - Panel "A" - RM 218	**60**	**3**	(CU)	2	65	0.2540	1	1.98	0.95%
L2.B - Panel "A" - RM 220	**60**	**3**	(CU)	2	90	0.2540	1	2.74	1.32%
L2.B - Panel "A" - RM 221	**60**	**3**	(CU)	2	90	0.2540	1	2.74	1.32%
L2.B - Panel "A" - RM 222	**60**	**3**	(CU)	2	90	0.2540	1	2.74	1.32%
L2.B - Panel "A" - RM 223	**60**	**3**	(CU)	2	115	0.2540	1	3.51	1.69%
L2.B - Panel "A" - RM 224	**60**	**3**	(CU)	2	115	0.2540	1	3.51	1.69%
L2.B - Panel "A" - RM 225	**60**	**3**	(CU)	2	115	0.2540	1	3.51	1.69%
L2.B - Panel "A" - RM 226	**60**	**3**	(CU)	2	115	0.2540	1	3.51	1.69%
L2.B - Panel "A" - RM 227	**60**	**2**	(CU)	2	140	0.2010	1	3.38	1.62%
L2.B - Panel "A" - RM 228	**60**	**2**	(CU)	2	140	0.2010	1	3.38	1.62%
L2.B - Panel "A" - RM 229	**60**	**2**	(CU)	2	140	0.2010	1	3.38	1.62%
L2.B - Panel "A" - RM 230	**60**	**2**	(CU)	2	140	0.2010	1	3.38	1.62%
L2.B - Panel "A" - RM 231	**60**	**2**	(CU)	2	165	0.2010	1	3.98	1.91%
L2.B - Panel "A" - RM 232	**60**	**2**	(CU)	2	165	0.2010	1	3.98	1.91%
L2.B - Panel "A" - RM 233	**60**	**2**	(CU)	2	165	0.2010	1	3.98	1.91%
GUESTROOM PANEL FED FROM L3.A									
L3.A - Panel "A" - RM 300	**60**	**3**	(CU)	2	120	0.2540	1	3.66	1.76%
L3.A - Panel "A" - RM 301	**60**	**3**	(CU)	2	120	0.2540	1	3.66	1.76%
L3.A - Panel "A" - RM 302	**60**	**3**	(CU)	2	120	0.2540	1	3.66	1.76%
L3.A - Panel "A" - RM 303	**60**	**3**	(CU)	2	95	0.2540	1	2.90	1.39%
L3.A - Panel "A" - RM 304	**60**	**3**	(CU)	2	95	0.2540	1	2.90	1.39%
L3.A - Panel "A" - RM 305	**60**	**3**	(CU)	2	95	0.2540	1	2.90	1.39%
L3.A - Panel "A" - RM 306	**60**	**3**	(CU)	2	95	0.2540	1	2.90	1.39%
L3.A - Panel "A" - RM 307	**60**	**3**	(CU)	2	70	0.2540	1	2.13	1.03%
L3.A - Panel "A" - RM 308	**60**	**3**	(CU)	2	70	0.2540	1	2.13	1.03%
L3.A - Panel "A" - RM 309	**60**	**3**	(CU)	2	70	0.2540	1	2.13	1.03%
L3.A - Panel "A" - RM 310	**60**	**3**	(CU)	2	70	0.2540	1	2.13	1.03%
L3.A - Panel "A" - RM 311	**60**	**3**	(CU)	2	45	0.2540	1	1.37	0.66%
L3.A - Panel "A" - RM 312	**60**	**3**	(CU)	2	45	0.2540	1	1.37	0.66%
L3.A - Panel "A" - RM 314	**60**	**3**	(CU)	2	45	0.2540	1	1.37	0.66%
L3.A - Panel "A" - RM 315	**60**	**3**	(CU)	2	65	0.2540	1	1.98	0.95%
L3.A - Panel "A" - RM 316	**60**	**3**	(CU)	2	65	0.2540	1	1.98	0.95%
L3.A - Panel "A" - RM 317	**60**	**3**	(CU)	2	65	0.2540	1	1.98	0.95%
L3A - Panel "A" - RM 319	**60**	**3**	(CU)	2	90	0.2540	1	2.74	1.32%
GUESTROOM PANEL FED FROM L3.B									
L3.B - Panel "A" - RM 318	**60**	**3**	(CU)	2	65	0.2540	1	1.98	0.95%
L3.B - Panel "A" - RM 320	**60**	**3**	(CU)	2	90	0.2540	1	2.74	1.32%
L3.B - Panel "A" - RM 321	**60**	**3**	(CU)	2	90	0.2540	1	2.74	1.32%
L3.B - Panel "A" - RM 322	**60**	**3**	(CU)	2	90	0.2540	1	2.74	1.32%
L3.B - Panel "A" - RM 323	**60**	**3**	(CU)	2	115	0.2540	1	3.51	1.69%
L3.B - Panel "A" - RM 324	**60**	**3**	(CU)	2	115	0.2540	1	3.51	1.69%
L3.B - Panel "A" - RM 325	**60**	**3**	(CU)	2	115	0.2540	1	3.51	1.69%
L3.B - Panel "A" - RM 326	**60**	**3**	(CU)	2	115	0.2540	1	3.51	1.69%
L3.B - Panel "A" - RM 327	**60**	**2**	(CU)	2	140	0.2010	1	3.38	1.62%
L3.B - Panel "A" - RM 328	**60**	**2**	(CU)	2	140	0.2010	1	3.38	1.62%
L3.B - Panel "A" - RM 329	**60**	**2**	(CU)	2	140	0.2010	1	3.38	1.62%
L3.B - Panel "A" - RM 330	**60**	**2**	(CU)	2	140	0.2010	1	3.38	1.62%
L3.B - Panel "A" - RM 331	**60**	**1**	(CU)	2	165	0.1600	1	3.17	1.52%
L3.B - Panel "A" - RM 332	**60**	**1**	(CU)	2	165	0.1600	1	3.17	1.52%
L3.B - Panel "A" - RM 333	**60**	**1**	(CU)	2	165	0.1600	1	3.17	1.52%
GUESTROOM PANEL FED FROM L4.A									
L4.A - Panel "A" - RM 400	**60**	**2**	(CU)	2	120	0.2010	1	2.89	1.39%
L4.A - Panel "A" - RM 401	**60**	**2**	(CU)	2	120	0.2010	1	2.89	1.39%
L4.A - Panel "A" - RM 402	**60**	**2**	(CU)	2	120	0.2010	1	2.89	1.39%
L4.A - Panel "A" - RM 403	**60**	**3**	(CU)	2	95	0.2540	1	2.90	1.39%
L4.A - Panel "A" - RM 404	**60**	**3**	(CU)	2	95	0.2540	1	2.90	1.39%
L4.A - Panel "A" - RM 405	**60**	**3**	(CU)	2	95	0.2540	1	2.90	1.39%
L4.A - Panel "A" - RM 406	**60**	**3**	(CU)	2	95	0.2540	1	2.90	1.39%
L4.A - Panel "A" - RM 407	**60**	**3**	(CU)	2	70	0.2540	1	2.13	1.03%
L4.A - Panel "A" - RM 408	**60**	**3**	(CU)	2	70	0.2540	1	2.13	1.03%
L4.A - Panel "A" - RM 409	**60**	**3**	(CU)	2	70	0.2540	1	2.13	1.03%
L4.A - Panel "A" - RM 410	**60**	**3**	(CU)	2	70	0.2540	1	2.13	1.03%
L4.A - Panel "A" - RM 411	**60**	**3**	(CU)	2	45	0.2540	1	1.37	0.66%
L4.A - Panel "A" - RM 412	**60**	**3**	(CU)	2	45	0.2540	1	1.37	0.66%
L4.A - Panel "A" - RM 414	**60**	**3**	(CU)	2	45	0.2540	1	1.37	0.66%
L4.A - Panel "A" - RM 415	**60**	**3**	(CU)	2	65	0.2540	1	1.98	0.95%
L4.A - Panel "A" - RM 416	**60**	**3**	(CU)	2	65	0.2540	1	1.98	0.95%
L4.A - Panel "A" - RM 417	**60**	**3**	(CU)	2	65	0.2540	1	1.98	0.95%
L4A - Panel "A" - RM 419	**60**	**3**	(CU)	2	90	0.2540	1	2.74	1.32%
GUESTROOM PANEL FED FROM L4.B									
L4.B - Panel "A" - RM 418	**60**	**3**	(CU)	2	65	0.2540	1	1.98	0.95%
L4.B - Panel "A" - RM 420	**60**	**3**	(CU)	2	90	0.2540	1	2.74	1.32%
L4.B - Panel "A" - RM 421	**60**	**3**	(CU)	2	90	0.2540	1	2.74	1.32%
L4.B - Panel "A" - RM 422	**60**	**3**	(CU)	2	90	0.2540	1	2.74	1.32%
L4.B - Panel "A" - RM 423	**60**	**3**	(CU)	2	115	0.2540	1	3.51	1.69%
L4.B - Panel "A" - RM 424	**60**	**3**	(CU)	2	115	0.2540	1	3.51	1.69%
L4.B - Panel "A" - RM 425	**60**	**3**	(CU)	2	115	0.2540	1	3.51	1.69%
L4.B - Panel "A" - RM 426	**60**	**3**	(CU)	2	115	0.2540	1	3.51	1.69%
L4.B - Panel "A" - RM 427	**60**	**2**	(CU)	2	140	0.2010	1	3.38	1.62%
L4.B - Panel "A" - RM 428	**60**	**2**	(CU)	2	140	0.2010	1	3.38	1.62%
L4.B - Panel "A" - RM 429	**60**	**2**	(CU)	2	140	0.2010	1	3.38	1.62%
L4.B - Panel "A" - RM 430	**60**	**2**	(CU)	2	140	0.2010	1	3.38	1.62%
L4.B - Panel "A" - RM 431	**60**	**1**	(CU)	2	165	0.1600	1	3.17	1.52%
L4.B - Panel "A" - RM 432	**60**	**1**	(CU)	2	165	0.1600	1	3.17	1.52%
L4.B - Panel "A" - RM 433	**60**	**1**	(CU)	2	165	0.1600	1	3.17	1.52%

ELECTRICAL VOLTAGE DROP CALCULATION

SCALE: NTS

VOLTAGE DROP CALCULATION FOR TYPICAL FARTHEST LOAD

% VOLTAGE DROP		FEEDER 1	FEEDER 2	TOTAL FOR FEEDERS (MAX ALLOWED 3%)
		L4.A	**PL "A"-RM400**	
% VOLTAGE DROP		1.27%	1.39%	2.66%
		L4.B	**PL "A"-RM423**	
% VOLTAGE DROP		1.16%	1.69%	2.85%
		L3.A	**PL "A"-RM300**	
% VOLTAGE DROP		1.14%	1.76%	2.90%
		L3.B	**PL "A"-RM323**	
% VOLTAGE DROP		1.03%	1.69%	2.72%
		L2.A	**PL "A"-RM200**	
% VOLTAGE DROP		1.01%	1.76%	2.77%
		L2.B	**PL "A"-RM223**	
% VOLTAGE DROP		0.92%	1.69%	2.61%
		L1.A	**PL "A"-RM127**	
% VOLTAGE DROP		0.32%	2.71%	3.03%

ELECTRICAL VOLTAGE DROP CALCULATION FOR TYPICAL FARTHEST LOAD

SCALE: NTS

ELECTRICAL SHORT CIRCUIT (NEC 2020)

SHORT CIRCUIT CALCULATION FORMULA: (POINT TO POINT)

$I_{S.C.\ SYM}$	=	I_{SHORT} X M
I_{SHORT}	=	Available Short-Circuit Current In Amperes At Beginning of Circuit.
M	=	1/(1+F)
F	=	(1.732 x L x I_{SHORT}) / (C x E_{L-L})
L	=	Length of Conductor to the Fault
C	=	Constant from Table 4 (Cooper Bussmann) for Conductors & Busway
E_{LL}	=	Phase to Phase Voltage Rating

Available Isc	KVA	%Z		KVA	1000	Voltage	sqrt(3)	FLA	100	%Z	Zm	Isc util sec
Isc util sec	**1,000**	**3.5%**		1000	1000	208	1.732	**2776**	100	3.5	**28.6**	**79,309**

Total motor power (kW)	Total FLA
113.82	**316**

Panel of Feeder Origin	Ckt Brkr size (A)	Wire AWG /Kcmil (feeder)	Material	Sqrt(3) or 2	L (Length of feeder)	Isc orig from upstream source	# of Parallel Conductors	C (Table 4)	Voltage	F	M = 1/(1+F)	Isc orig x M	Isc motors = (Total FLA x 4) Note (1)	Total Isc = (Isc orig x M) + Isc motors)	A.I.C Rating Selection (KA) (Note 2)
XFMR-MDP	**2,500**	**600**	(AL)	1.732	80	79,309	8	23,451	208	0.282	**0.780**	**61,882**	**1,264**	**63,146**	65
MDP-L1.A Panel	**400**	**250**	(AL)	1.732	30	61,882	2	12,122	208	0.638	**0.611**	**37,788**	**1,264**	**39,051**	42
MDP-L1.B Panel	**125**	**2/0**	(AL)	1.732	30	61,882	1	7,187	208	2.151	**0.317**	**19,639**	**1,264**	**20,903**	22
MDP-L1.C Panel	**225**	**300**	(AL)	1.732	30	61,882	1	13,910	208	1.111	**0.474**	**29,310**	**1,264**	**30,573**	42
MDP-L1.D Panel	**250**	**400**	(AL)	1.732	60	61,882	1	16,671	208	1.855	**0.350**	**21,678**	**1,264**	**22,942**	30
MDP-L1.E Panel	**225**	**300**	(AL)	1.732	30	61,882	1	13,910	208	1.111	**0.474**	**29,310**	**1,264**	**30,573**	42
MDP-EV1 Panel	**400**	**250**	(AL)	1.732	30	61,882	2	12,122	208	0.638	**0.611**	**37,788**	**1,264**	**39,051**	42
MDP-EV2 Panel	**300**	**500**	(AL)	1.732	30	61,882	1	18,756	208	0.824	**0.548**	**33,923**	**1,264**	**35,187**	42
MDP-L2.A Panel	**300**	**500**	(AL)	1.732	120	61,882	1	18,756	208	3.297	**0.233**	**14,402**	**1,264**	**15,666**	22
MDP-L2.B Panel	**300**	**500**	(AL)	1.732	120	61,882	1	18,756	208	3.297	**0.233**	**14,402**	**1,264**	**15,666**	22
MDP-L3.A Panel	**300**	**500**	(AL)	1.732	135	61,882	1	18,756	208	3.709	**0.212**	**13,142**	**1,264**	**14,405**	22
MDP-L3.B Panel	**300**	**500**	(AL)	1.732	135	61,882	1	18,756	208	3.709	**0.212**	**13,142**	**1,264**	**14,405**	22
MDP-L4.A Panel	**300**	**500**	(AL)	1.732	150	61,882	1	18,756	208	4.121	**0.195**	**12,084**	**1,264**	**13,348**	22
MDP-L4.B Panel	**300**	**500**	(AL)	1.732	150	61,882	1	18,756	208	4.121	**0.195**	**12,084**	**1,264**	**13,348**	22
MDP-DOAS-1	**125**	**2/0**	(AL)	1.732	130	61,882	1	7,187	208	9.321	**0.097**	**5,996**	**1,264**	**7,260**	10
MDP-DOAS-2	**125**	**2/0**	(AL)	1.732	160	61,882	1	7,187	208	11.472	**0.080**	**4,962**	**1,264**	**6,226**	10
MDP-EP Panel	**125**	**2/0**	(AL)	1.732	150	61,882	1	7,187	208	10.755	**0.085**	**5,265**	**1,264**	**6,528**	10
EP Panel - ELEVATOR #1	**125**	**1**	(CU)	1.732	25	5,265	1	7,293	208	0.150	**0.869**	**4,577**	**1,264**	**5,841**	10

Notes: - (1): The motor contribution is relatively minor even with the a large number of motors and the x4
- (2): Where conflicts occur between the aic ratings of the electrical panels shown on other parts of the electrical plans and the aic rating selections shown on this sheet, the aic ratings on this sheet shall prevail.

ELECTRICAL SHORT CIRCUIT CALCULATION

SCALE: NTS

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JAN. 15, 2026

DUNG D. VU LICENSED No. 83000 PROFESSIONAL ENGINEER

DUNG VU,
Ph.D. P.E. LEED AP

Project #: 2502
Issue Date: 01-15-2026
Principal Architect: Sid Parekh
Sr Project Architecture Tech: Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:

ELECTRICAL SHORT CIRCUIT & VOLTAGE DROP CALCULATION

SHEET NUMBER:

E1.1

ELECTRICAL SPECIFICATIONS

1. ALL WORK SHALL COMPLY WITH THE 2020 NATIONAL ELECTRICAL CODE, 2023 FLORIDA BUILDING CODE 8th EDITION, 2023 FLORIDA ENERGY CONSERVATION CODE (ADOPTED 2021 INTERNATIONAL ENERGY CONSERVATION CODE) AND ALL APPLICABLE STATE AND LOCAL ORDINANCES.
2. ALL MATERIAL SHALL BE NEW, UNDAMAGED AND UNBLEMISHED EXCEPT AS NOTED.
3. OBTAIN ALL PERMITS REQUIRED TO DO THIS WORK AND PAY ANY FEES REQUIRED FOR SUCH PERMITS.
4. ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM TIME OF OWNER ACCEPTANCE, WORK OR EQUIPMENT FOUND TO BE SUBSTANDARD OR FAULTY SHALL BE CORRECTED DURING THIS PERIOD AT NO COST TO THE OWNER. LAMPS ARE EXCLUDED FROM THIS GUARANTEE.
5. SEAL PERIMETER JOINT OF ALL CONDUITS PASSING THROUGH WALLS WITH UL LISTED, G.E. SILICONE COMPOUND OF COLOR SELECTED BY THE ARCHITECT.
6. ALL WORK SHALL BE GROUNDED TO COMPLY WITHOUT EXCEPTION WITH ALL PROVISIONS OF ARTICLE 250 OF THE 2020 NATIONAL ELECTRICAL CODE.
7. PROVIDE TEMPORARY SERVICE AS REQUIRED FOR CONSTRUCTION POWER AND REMOVE SUCH TEMPORARY SERVICE WHEN WORK IS COMPLETED.
8. MAKE ALL ARRANGEMENTS WITH LOCAL POWER COMPANY AND DO ALL WORK NECESSARY TO PROVIDE PERMANENT SERVICE TO THE BUILDING.
9. SAFETY SWITCHES SHALL BE GENERAL DUTY AS MANUFACTURER AS PANEL BOARDS, ETC.
10. PANEL BOARDS SHALL BE SQUARE D OR SIEMENS OR G.E., OR CUTLER-HAMMER, ETC AND BUSSING SHALL BE COPPER ONLY. PRIOR TO ORDERING/ INSTALLATION, THE CONTRACTOR MUST SUBMIT THE GEAR SUBMITTAL TO THE PLAN REVIEWER/ CITY INSPECTOR FOR FINAL APPROVAL REGARDING WHETHER IF THE SERIES RATED IS ACCEPTABLE.
    FOR QUOTES CONTACT BEN @ GREENS:
    CELL PHONE: 949-293-5006
    EMAIL TO: quotes@greens.com
11. ALL FUSES SHALL BE BUSSMAN "CURRENT LIMITING" TYPE UNLESS O/W INDICATED.
12. CONDUITS RUNNING IN BUILDING SHALL BE CONCEALED IN WALLS OR ABOVE CEILING AND SHALL BE E.M.T (USE GALVANIZED WHERE EXPOSED) OR PVC CONDUITS IS PERMITTED WHERE ALLOWED PER CODES. UNDERGROUND FEEDER RUN 30" BELOW GRADE CAN BE SCHEDULE 80 PVC WITH GROUND WIRE SIZED IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE.
13. ALL WIRE SHALL BE COPPER USING TYPE "THWN/THHN" UNLESS OTHERWISE INDICATED ON THE PLANS. THE ELECTRICAL CONTRACTOR MUST VERIFY THE AMPERE RATING AND THE VOLTAGE DROP OF THE WIRE TO ENSURE IT COMPLIES WITH NEC REQUIREMENT.
14. COORDINATE COLOR AND STYLE OF WIRING DEVICES (HUBBELL) WITH THE ARCHITECT. SPECIFICATIONS SHOULD BE ON DRAWINGS.
15. COORDINATE ALL CONTROL REQUIREMENTS FOR THE HVAC SYSTEMS WITH THE CONTRACTORS. PROVIDE POWER (TO A/C CONTROL PANEL WHEN USED) AND EMT 3/4" CONDUIT FOR CONTROL WIRING.
16. COORDINATE LOCATION OF TELEPHONE OUTLETS WITH THE OWNER. PROVIDE 3/4" CONDUIT (W/PULL-STRING) FOR PHONE WIRING.
17. PROVIDE SPECIFIED LIGHT FIXTURES WITH FINAL LOCATIONS PER THE ARCHITECT.
18. ALL SWITCHES @ +48" AFF & ALL RECEPTACLES @ +18" AFF UNLESS O/W INDICATED.
19. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES TO AVOID ANY CONFLICTS. ANY CORRECTIONS REQUIRED TO SATISFY CODE REQUIREMENTS OR CLIENT NOTED DEFICIENCIES SHALL BE MADE AT NO COST TO THE OWNER.
20. ALL ELECTRICAL EQUIPMENT AND INSTALLATIONS SHALL BE OF ADEQUATE STRENGTH TO WITHSTAND, WITHOUT FAILURE, FORCES ENCOUNTERED IN APPLICABLE SEISMIC CATEGORY.
21. PROVIDE A COMPLETE DEVICE COORDINATION STUDY WITH RECOMMENDED INTERRUPTING RATINGS AND SETTINGS FOR ALL ADJUSTABLE TRIP DEVICES. PROVIDE ARC FLASH LABELING PER NEC REQUIREMENTS
22. ROUTE A MAXIMUM OF 3 PHASE CONDUCTORS, 3 NEUTRALS, AND GROUND IN A SINGLE HOME RUN CONDUIT.
23. ALL WIRING SHALL BE RUN CONCEALED WHERE FEASIBLE. CONTRACTOR TO PROVIDE WIREMOLD SYSTEM TO CONCEAL WIRING IN EXPOSED CEILING AREAS.
24. PROVIDE A GREEN CONTINUOUS INSULATED #6 MIN EQUIPMENT GROUNDING CONDUCTOR TO ALL ELECTRICAL , TELECOMMUNICATIONS, AND SECURITY EQUIPMENT SIZED PER NEC 250.122 AND EIA/TIA.
25. ALL 15 AMPERE AND 20 AMPERE NONLOCKING-TYPE RECEPTACLES IN GUEST ROOMS AND GUEST BATHROOMS, BREAKFAST ROOM, LOBBY, FITNESS ROOM AND OTHER ASSEMBLY AREAS ACCESSIBLE TO THE PUBLIC SHALL BE TAMPER RESISTANT (406.12 NEC).
26. ELECTRICAL EQUIPMENT INSTALLED IN POOL EQUIPMENT ROOMS TO BE RATED FOR USE IN CORROSIVE ENVIRONMENTS.
27. ALL EXTRA LOW VOLTAGE CABLES SHALL BE INSTALLED IN CONDUIT.
28. MAXIMUM BOX SIZE IN A FIRE-RATED WALL SHALL BE 4" X 4" SQUARE. DO NOT INSTALL BOXES BACK TO BACK IN WALLS. IN NONFIRE-RATED AND NONACOUSTIC- RATED WALLS, PROVIDE NOT LESS THAN 6 INCHES (150-MM) HORIZONTAL SEPARATION BETWEEN BOXES INSTALLED IN OPPOSITE SIDES OF WALL. PROVIDE NOT LESS THAN 24 INCHES (610-MM) HORIZONTAL SEPARATION BETWEEN BOXES INSTALLED IN OPPOSITE SIDES OF FIRE-RATED AND ACOUSTIC- RATED WALLS. IN CASE IF THE BACK TO BACK BOXES MUST BE INSTALLED, THE CONTRACTOR SHALL FURNISH AND INSTALL APPROPRIATE FIRE PUTTY PADS.
29. CONTRACTOR HAVE TO VERIFY WITH CITY/ INSPECTOR TO PROVIDE BACK-UP FOR ACCESSIBLE MEANS OF EGRESS ELEVATORS, EXHAUST FANS PER IBC REQUIRED
30. CONTRACTOR SHOULD PROVIDE PROTECTION DEVICE FOR MOTOR LOADS TO COMPLY WITH NEC 430.
31. PROVIDE ARC FAULT BREAKER FOR BRANCH CIRCUITS TO COMPLY WITH ARTICLE 210.12(C).
32. THE COMPLETED ELECTRICAL SYSTEMS MUST BE TESTED, BALANCED, AND COMMISSIONED BY QUALIFIED COMMISSIONER AGENT DURING THE CONSTRUCTION PHASE PRIOR TO FULL OPERATION. FAILURE TO PROPERLY CONDUCT TESTING, BALANCING, AND COMMISSIONING THE ELECTRICAL SYSTEM SHALL RESULT IN SYSTEM DYSFUNCTION, WHICH IS FULLY RESPONSIBLE BY THE CONTRACTOR.
33. THE CONTRACTORS SHALL CONSTRUCT MEP SYSTEM ACCORDING TO MEPG'S PLANS, CALCULATION, DETAILS AND SPECIFICATION. ALL REQUESTS FOR ALTERNATE MATERIAL, EQUIPMENT AND SOLUTIONS MUST BE SUBMITTED THROUGH REQUEST FOR INFORMATION (RFI). FAILURE TO SUBMIT THE RFI SHALL RESULT IN THE DISAPPROVAL OF CHANGE ORDER (IF ANY) FOR THE PROPOSED ALTERNATE MATERIAL, EQUIPMENT, AND SOLUTION.
34. THE CONTRACTORS ARE REQUIRED TO FOLLOW THE SPECIFIED EQUIPMENT'S INSTALLATION MANUAL FROM THE MANUFACTURER
35. THE CONTRACTORS ARE REQUIRED TO FOLLOW THE LOCAL BUILDING CODE OF AUTHORITY HAVING JURISDICTION.
36. CONTRACTOR SHALL VERIFY ALL OF THE ELECTRICAL REQUIREMENTS WITH ELEVATOR SUPPLIER/ MANUFACTURER PRIOR TO INSTALLATION.
37. THE CONTRACTOR SHALL VERIFY ALL REQUIREMENTS FOR WIRING CONTROL, NEUTRAL WIRES FOR ALL ELECTRICAL EQUIPMENT WITH THE SUPPLIER/ MANUFACTURER PRIOR TO INSTALLATION.
38. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND IT IS THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS THAT THE CONTRACTOR SHALL PROVIDE AN ELECTRICAL INSTALLATION THAT IS COMPLETED WITH ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLE INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFICALLY CALLED OUT OR SHOWN. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, LABOR, SUPERVISION AND SERVICE NECESSARY SO AS TO PROVIDE A COMPLETE, FUNCTIONING ELECTRICAL SYSTEM IN SAFE WORKING ORDER.
39. IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO EXAMINE THE CONTRACT DOCUMENTS CAREFULLY BEFORE SUBMITTING THEIR BID, WITH PARTICULAR ATTENTION TO ERRORS, OMISSIONS, CONFLICTS WITH PROVISIONS OF LAWS AND CODES HAVING JURISDICTION, CONFLICTS BETWEEN DRAWINGS OR DRAWINGS AND SPECIFICATIONS, AND AMBIGUOUS DEFINITION OF THE EXTENT OF COVERAGE BETWEEN CONTRACTS. ANY SUCH DISCREPANCY SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ARCHITECT FOR CORRECTION. SHOULD ANY OF THESE ERRORS, OMISSIONS, CONFLICTS, OR AMBIGUITIES EXIST, THE CONTRACTOR SHALL HAVE THEM EXPLAINED AND ADJUSTED IN WRITING BEFORE SIGNING THE CONTRACT OR PROCEEDING WITH THE WORK; OTHERWISE, THE CONTRACTOR SHALL, AT THEIR OWN EXPENSE, SUPPLY THE PROPER MATERIALS AND LABOR TO MAKE GOOD ANY DAMAGE OR DEFECTS IN THEIR WORK OR THE RESULTS OBTAINED THEREFROM, CAUSED BY SUCH DISCREPANCY.
40. WHEREVER CONFLICTS OCCUR BETWEEN DIFFERENT PARTS OF THE CONTRACT DOCUMENTS, THE GREATER QUANTITY, THE BETTER QUALITY, OR LARGER SIZE SHALL PREVAIL UNLESS THE ARCHITECT INFORMS THE CONTRACTOR OTHERWISE IN WRITING.
41. REFERENCE THE MECHANICAL AND PLUMBING DRAWINGS FOR ALL EQUIPMENT NEEDING ELECTRICAL CONNECTIONS. MAKE ALL CONNECTIONS AND PROVIDE APPROPRIATE WIRE, CONDUIT, AND OVER CURRENT PROTECTION FOR ALL EQUIPMENT.
42. VERIFY EXACT LOCATION OF ALL POWER CONNECTIONS AND CONTROL DEVICES WITH OTHER TRADES AND MANUFACTURERS SHOP DRAWINGS BEFORE CONSTRUCTION. COORDINATE ALL REQUIRED ENERGY MANAGEMENT SYSTEM POINTS AND CONTACT CONNECTIONS TO ENSURE THE COMPLETE AND PROPER OPERATION OF ALL SYSTEMS.
43. ALL FUSED SWITCH AND/OR CIRCUIT BREAKERS SERVING EQUIPMENT SHALL HAVE PROVISIONS FOR HANDLE LOCKS.
44. ALL CIRCUIT BREAKERS SERVING MECHANICAL EQUIPMENT SHALL BE AN "HACR" RATING.
45. COORDINATE LOCATION OF ALL DISCONNECTS, CONTROL PANELS AND ELECTRICAL CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT TO MAINTAIN NEC REQUIRED CLEARANCES OF 42" DEEP AND 30" WIDE IN FRONT OF EQUIPMENT.
46. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO F/S DAMPERS, VAV BOXES, FCU'S, ETC WITH MECHANICAL DRAWINGS.
47. ELECTRICAL CONTRACTORS MUST VERIFY ALL ELECTRICAL REQUIREMENTS WITH THE HVAC AND PLUMBING SYSTEMS TO PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE CONTROL WIRING FOR THE MOTORS.
48. PROVIDE HANDLE TIES FOR CIRCUIT BREAKERS TO DISCONNECT ALL UNGROUNDED CONDUCTORS SIMULTANEOUSLY ON MULTI-WIRE BRANCH CIRCUITS.
49. CONTRACTOR SHALL VERIFY AND FURNISH EXIT SIGNS TO COMPLY WITH SECTION 1013 IBC REQUIREMENT.
50. THE CONTRACTOR SHALL VERIFY WITH THE OWNER/FRANCHISE FOR THE QUANTITIES AND LOCATIONS OF THE LOW VOLTAGE SYSTEM DEVICES (CAMERA, CARD READER, WIRELESS ACCESS POINT, INTERCOM, ETC.) AND PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE WIRING, POWER SUPPLY FOR THE DEVICES AS PER THE MANUFACTURER SPECIFICATIONS/ INSTALLATION GUIDELINES.
51. PRODUCTS INSTALLED BY THE ELECTRICAL CONTRACTOR AND PROVIDED BY OTHERS MUST BE SUBMITTED FOR REVIEW PRIOR TO PURCHASING. PRODUCTS SHALL NOT BE SELECTED BASED ON PERMIT DRAWINGS WITHOUT EXPRESS PERMISSION. PRODUCTS SHALL BE SELECTED BASED ON CONSTRUCTION DRAWINGS.
52. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED CONDUIT, WIRING, AND SAFETY SWITCHES FOR ALL MOTORS, AND OTHER ELECTRICAL EQUIPMENT, EVEN THOUGH THE MOTORS AND ELECTRICAL EQUIPMENT MAY BE SUPPLIED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL INCLUDE ALL WORK AND CONNECTIONS REQUIRED TO MAKE THE SYSTEM COMPLETE AND OPERATIONAL. PROVIDE MAGNETIC STARTERS FOR EQUIPMENT AS INDICATED ON THE DRAWINGS.
53. TRANSFORMERS SHALL BE INSTALLED ON MINIMUM 3-1/2" CONCRETE PADS, PLUMB AND LEVEL IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE CODES. TERMINATE PRIMARY AND SECONDARY CONDUCTOR WITH COMPRESSION CONNECTORS. GROUNDING TO BE PER NEC. VERIFY INCOMING VOLTAGE TO TRANSFORMER AND SET TAPS AT THE VOLTAGE LEVEL.
54. PROVIDE A NEW LIGHTING SYSTEM COMPLETE AND FULLY OPERATIONAL AND IN CONFORMANCE WITH CODE AND UL LISTING REQUIREMENTS. CLEAN ALL FIXTURES AT TIME OF JOB COMPLETION UTILIZING MANUFACTURES APPROVED OR RECOMMENDED CLEANING SOLUTIONS. ALL FIXTURES AND LAMPS ARE PROVIDED BY THIS CONTRACTOR AS SCHEDULED UNLESS NOTED OTHERWISE. CONTRACTOR SHALL FURNISH ALL BOXES, MOUNTING KITS, TRANSFORMERS, CONTROLLERS, AND OTHER COMPONENTS NECESSARY FOR A COMPLETE AND FULLY FUNCTIONAL INSTALLATION.
55. ALL EQUIPMENT LOCATED OUTDOORS SHALL BE LABELED NEMA-3R.
56. CONTRACTOR SHOULD REFER TO THE EXHAUST FAN SCHEDULES ON SHEET M1.1 FOR THE CONTROL OF FANS.
57. DIRECT BURIED CABLES OR CONDUITS OR OTHER RACEWAYS SHALL BE INSTALLED TO MEET THE MINIMUM COVER REQUIREMENTS OF TABLE 300.5.
58. FOR HOME RUNS (FROM UNITS) 100 FT OR MORE, THE ELECTRICAL CONTRACTOR HAS TO CHECK THE VOLTAGE DROP AND SELECT THE SUITABLE CABLES SIZE TO COMPLY WITH THE MAXIMUM ALLOWED VOLTAGE DROP FOR THE FEED CONDUCTORS (3%). THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTOR TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.
59. CONTRACTOR SHALL FURNISH AND INSTALL ALL RECEPTACLES WITH A SELF-ADHESIVE LABEL STATIN PANELBOARD NAME AND CIRCUIT NUMBER FEEDING DEVICE. APPLY TO COVERPLATE.
60. ALL WIRING SHALL BE IN CONDUIT OR OTHER APPROVED RACEWAYS PER CODES.
61. GFCI TYPE RECEPTACLES SHALL BE SELF-CONTAINED UNITS WITH CLASS "A" SENSITIVITY.
62. WHERE SINGLE POLE BRANCH CIRCUIT CONDUCTORS HAVE BEEN INCREASED ABOVE THE SIZE OF THE CIRCUIT BREAKER TO COMPENSATE FOR VOLTAGE DROP, THE INCREASE SIZE SHALL EXTEND THROUGHOUT THE ENTIRE CIRCUIT, EXCEPT WHERE IT IS NECESSARY TO REDUCE THE SIZE FOR CONNECTION TO SWITCH AND RECEPTACLE TERMINALS, ETC. EQUIPMENT GROUNDING CONDUCTORS SHALL ALSO BE ADJUSTED PROPORTIONATELY PER SECTION 250.122 (B).
63. ELECTRICAL CONTRACTOR SHALL VERIFY SERVICE AND VOLTAGE REQUIREMENTS FOR ALL EQUIPMENT TO BE CONNECTED (BOTH NEW AND EXISTING) PRIOR TO MAKING CONNECTIONS.
64. PROVIDE FIRE AND SMOKE PRODUCT STOP AROUND ALL CONDUIT, EQUIPMENT, ETC. WHICH PENETRATES FLOORS, WALLS, AND CEILINGS.
65. NO PIPING, DUCTS OR REQUIREMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE DEDICATED SPACE ABOVE ELECTRICAL EQUIPMENT.
66. THE CONTRACTORS ARE REQUIRED TO SUBMIT THEIR VALUED ENGINEERING (IF ANY) TO MEP GREEN DESIGN AND BUILD PLLC FOR ASSESSMENT AND COMMENT/APPROVAL BEFORE EXECUTING THEM ON THE JOB SITE. OTHERWISE, THE CONTRACTORS SHALL HOLD ALL RESPONSIBILITIES REGARDING RESPONDING TO THE INSPECTORS, RESUBMITTING PLANS FOR CITY RE-APPROVAL, ETC. DUE TO THE CHANGES MADE ON THE JOB SITE WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD AND OWNER.
67. WHEREVER ANY CONFLICTS OCCUR BETWEEN THE SPECIFIED BREAK SIZE FOR MECHANICAL OR PLUMBING EQUIPMENT OF THE ELECTRICAL PLAN, WITH THE BREAKER SIZE SPECIFIED ON THE MECHANICAL/PLUMBING EQUIPMENT SCHEDULE OF THE PLUMBING/MECHANICAL PLANS, THE VALUES SHOWN ON THE MECHANICAL/PLUMBING SCHEDULE OF THE MECHANICAL/PLUMBING PLANS SHALL BE CONFORMED.
68. PROVIDE GFCI PROTECTION FOR ELECTRICAL EQUIPMENT THE ARE LOCATED NEAR WATER SOURCES AS PER NEC REQUIREMENT.
69. ALL DISCONNECT SWITCHES WILL MATCH THE BREAKER/SWITCH SIZE PROTECTING THE SAME BRANCH CIRCUIT/FEEDER IN PANEL RESPECTIVELY.
70. ELECTRICAL PANELS MUST BE LOCATED PER THE NEC 240.24 REQUIREMENTs. THE ELECTRICAL CONTRACTOR HAS TO VERIFY THE LOCATIONS PRIOR TO INSTALLATION.
71. THE CONTRACTOR SHALL VERIFY THE FLOOD ZONE CLASSIFICATION BEFORE INSTALLING ANY ELECTRICAL EQUIPMENT TO ENSURE COMPLICE WITH APPLICABLE CODES AND STANDARDS.
72. SWITCHED/ CONTROLLED RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC CONTROL DEVICE (LIKE AN OCCUPANCY SENSOR OR TIMER) MUST BE COMPLETED WITH A PERMANENTLY MARKED WITH THE WORD "CONTROLLED" TO DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES PER NEC 406.3(E).
73. THE CONTRACTOR MUST VERIFY THE DIMENSIONS OF ALL ELECTRICAL EQUIPMENT (SUCH AS SWITCHGEAR, PANELS, DISCONNECTS, TRANSFORMERS, ETC.) AND NOTIFY THE OWNER/ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN THE ACTUAL EQUIPMENT DIMENSIONS OR SITE CONDITIONS AND THE DESIGN PLAN PRIOR TO PLACING ORDERS OR PROCEEDING WITH INSTALLATION.

SYMBOL LIST

SYMB.	DESCRIPTION	MOUNTING OR AS INDICATED	SYMB.	DESCRIPTION	MOUNTING OR AS INDICATED
$	SINGLE POLE SWITCH	WALL – 48"AFF	IT	INTERCOM	
$3	THREE-WAY SWITCH	WALL – 48"AFF	CR	CARD READER	
$D	DIMMER SWITCH	WALL – 48"AFF	DR	DOOR RELEASE	
	GUESTROOM ANNUNCIATOR PUSHBUTTON (5)	WALL – 48"AFF	A	DURESS ALARM BUTTON	
	CEILING MOUNTED OCCUPANCY SENSOR (2)	CEILING		SECURITY CAMERA	
	WALL MTD OCCUPANCY SENSOR C/W OVERRIDE SWITCH	WALL – 48"AFF		INDICATES HANDICAP ACCESS SUITE	
	DUPLEX RECEPTACLE – 20A	FLOOR	?	INDICATES HEARING IMPAIRED SUITE	
	GFI DUPLEX RECEPTACLE – 20A	FLOOR	AFF	ABOVE FINISHED FLOOR	
	QUAD-PLEX RECEPTACLE – 20A	FLOOR	AFG	ABOVE FINISHED GRADE	
	DUPLEX RECEPTACLE – 20A	WALL – 18"AFF	A.I.C	AMPERE INTERRUPTING CAPACITY	
	QUAD-PLEX RECEPTACLE – 20A	WALL – 18"AFF	C.P	CIRCULATE PUMP	
USB	DUPLEX RECEPTACLE – 20A C/W TWO USB PORTS	WALL – 18"AFF	CEIL.	CEILING	
USB	QUAD-PLEX RECEPTACLE – 20A C/W TWO USB PORTS	WALL – 18"AFF	E	INDICATES DEVICE ON EMERGENCY CIRCUIT	
	SPLIT DUPLEX REC. W/LOWER OUTLET SWITCHED – 20A	WALL – 18"AFF	FACP	FIRE ALARM CONTROL PANEL	
	SPLIT QUAD REC. W/LOWER OUTLETS SWITCHED – 20A	WALL – 18"AFF	FAAP	FIRE ALARM ANNUNCIATOR PANEL	
	GFI DUPLEX RECEPTACLE – 20A	WALL – 18"AFF	EOL	END-OF-LINE DIODE	
	GFI QUAD-PLEX RECEPTACLE – 20A	WALL	EUH	ELECTRIC UNIT HEATER	
	SPECIAL OUTLET (SEE SCHEDULE)	WALL	GFI	GROUND FAULT INTERRUPTER	
	TELEPHONE OUTLET	FLOOR	HTG	HEATING	
	TELEPHONE OUTLET (3)	WALL – 18"AFF	HOR	HORIZONTAL	
	TELEVISION OUTLET (4)	WALL – 18"AFF	IG	ISOLATED GROUND	
	FLOOR TELEVISION OUTLET	FLOOR	LTG	LIGHTING	
	DATA OUTLET	WALL – 18"AFF	LGR	LARGEST MOTOR	
	JUNCTION BOX		U.G	UNDER GROUND	
	SAFETY SWITCH	AS NOTED	WP	WEATHER PROOF	
	MOTOR		REC	RECEPTACLES	
	DUPLEX VOICE/DATA OUTLET	WALL – 18"AFF	TBD	TO BE DECIDED	
	FLOOR DUPLEX VOICE/DATA OUTLET	FLOOR	USB	USB PORT	
	FIRE ALARM MANUAL PULL STATION	WALL – 48"AFF	PTAC	PACKAGED TERMINAL AIR CONDITIONING	
	ANNUNCIATOR AUDIO/VISUAL (5)	WALL – 6'-8"AFF	VD	VOLTAGE DROP	
	ANNUNCIATOR AUDIO (5)	WALL – 6'-8"AFF	SPD	SURGE PROTECTIVE DEVICE	
	COMBINATION HORN/STROBE LIGHT	WALL – 6'-8"AFF	3P	THREE POLES CIRCUIT BREAKER	
	STROBE LIGHT	WALL – 6'-8"AFF	J.P	JOCKEY PUMP	
	FIRE BELL	WALL	AHU	AIR HANDLING UNIT	
	SMOKE DETECTOR	CEILING	ACCU	AIR COOLED CONDENSING UNIT	
	SMOKE DETECTOR	WALL	EAF	EXHAUST AIR FAN	
	DUCT DETECTOR	IN MECH. DUCT	AB	ABOVE COUNTER	
	HEAT DETECTOR	CEILING			
	MAGNETIC DOOR HOLDER	WALL			
F	FLOW SWITCH (SPRINKLER)				
T	TAMPER SWITCH (SPRINKLER)				
	ELECTRICAL PANELBOARD (SURFACE MTD.)				
	ELECTRICAL PANELBOARD (FLUSH MTD.)				
	CIRCUIT BREAKER				
	DISCONNECT SWITCH (FOR MOTOR LOAD)				
M	METER				
	EXHAUST FAN				
	CARD READER				
	KEY SWITCH				
	'HOME RUN' W/2 CONDUCTORS (6)	WALL OR CEILING			
	CONDUIT RUN W/3 HOTS & 1 NEUTRAL (6)	WALL OR CEILING			
	CONDUIT RUN W/3 HOTS, 1 NEUT., 1 GRD. (6)	FLOOR OR EARTH			
	CONDUIT RUN W/2 HOTS, 1 NEUT., 1 GRD. (6)	FLOOR OR EARTH			
	CONDUIT RUN W/2 HOTS, 1 GRD. (6)	FLOOR OR EARTH			
	CONDUIT RUN W/3 HOTS, 1 GRD. (6)	FLOOR OR EARTH			
	CONDUIT RUN W/1 HOTS, 1 NEUT., 1 GRD. (6)	FLOOR OR EARTH			
	INDICATES HANDICAP ACCESS SUITE				
?	INDICATES HEARING IMPAIRED SUITE				

NOTES

1. CONTRACTOR TO CLARIFY THE MODEL/BRAND NAME OF SWITCHES, RECEPTACLES, DATA/TEL OUTLET, TV OUTLET WITH FRANCHISE/OWNER PRIOR TO PLACING ORDERS/ INSTALLATION.
2. WATTSTOPPER No.CX-105 WITH No.A12OE-P POWER PACK.
3. INSTALL 3/4" CONDUIT WITH PULL STRING FROM OUTLET TO PBX ROOM. COMBINE (2) TELEPHONE OUTLETS PER HOME RUN. TYPICAL FOR COMMON AREAS, SEE PLANS FOR GUESTROOM REQUIREMENTS.
4. INSTALL 3/4" CONDUIT WITH PULL STRING FROM OUTLET TO NETWORK RM. TYP. FOR COMMON AREAS, SEE PLANS FOR GUESTROOM REQUIREMENTS.
5. AUDIO/VISUAL DEVICE, TRANSFORMER AND PUSHBUTTON FOR GUESTROOM ANNUNCIATOR SHALL BE AS MANUFACTURED BY EDWARDS, KIT No.7004 PROVIDE ADDITIONAL AUDIO/VISUAL DEVICE WHERE SHOWN ON DRAWINGS, EDWARDS CATALOG No.6536-F5.
6. CONDUIT SIZE SHALL BE MINIMUM 1/2". CONDUCTOR SIZE SHALL BE MINIMUM No.12 CU AWG. CONDUCTOR SIZES INDICATED AT 'HOME RUN' SHALL BE CARRIED THROUGHOUT ENTIRE CIRCUIT RUN, UNLESS NOTED OTHERWISE ON PLANS. #14 MINIMUM SHALL BE USED FOR CONTROLS.

SPECIAL OUTLET SCHEDULE

SYMB.	DESCRIPTION	OUTLET
HA	PTAC OUTLET: 20A,2P,3W,250V., NEMA 6-20 RECEPTACLE, TO BE INSTALLED WITHIN SUB-BASE. (VERIFY THE MODEL/BRAND NAME WITH FRANCHISE/OWNER)	
HB	DUPLEX GFCI RECEPTACLE: 20A,2P,3W,125V. AND 20A,1P., 120V. SWITCH FOR DISPOSER WITH COVER PLATE. MOUNT IN 2-GANG OUTLET BOX. (VERIFY THE MODEL/BRAND NAME WITH FRANCHISE/OWNER)	
C	FITNESS ROOM FLOOR OUTLET: 30A,2P,3W,125V., NEMA 5-30 DUPLEX RECEPTACLE, MOUNTED IN A FLOOR BOX WITH BLACK COVER PLATE AND BLACK CARPET FLANGE. (VERIFY THE MODEL/BRAND NAME WITH FRANCHISE/OWNER)	
D	GENERAL FLOOR OUTLET: 20A,2P,3W,125V., NEMA 5-20 DUPLEX RECEPTACLE, MOUNTED IN A FLOOR BOX WITH BLACK COVER PLATE AND BLACK CARPET FLANGE. (VERIFY THE MODEL/BRAND NAME WITH FRANCHISE/OWNER)	

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWING ARE SCHEMATIC. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, OR ENGINEER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND, INCLUDE IN HIS BID ALL COST TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY ARCHITECT, OR ENGINEER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTOR'S COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THE BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, OR ENGINEER OR ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

NOTES FOR ELECTRICAL CONNECTIONS:

1. CONTRACTOR SHALL MAKE ELECTRICAL CONNECTIONS IN ACCORDANCE WITH NEC 110.14, AS FOLLOWS:
    - DEVICES SUCH AS PRESSURE TERMINALS OR SPLICING CONNECTORS MUST BE IDENTIFIED FOR THE MATERIAL OF THE CONDUCTOR AND BE PROPERLY INSTALLED AND USED.
    - CONNECTIONS BETWEEN COPPER TO ALUMINUM OR BETWEEN COPPER-CLAD ALUMINUM AND ALUMINUM, MUST ONLY BE MADE IN TERMINATIONS THAT ARE IDENTIFIED FOR THOSE DISSIMILAR METALS.
    - IF A TERMINAL HAS A SPECIFIED TIGHTENING TORQUE INDICATED ON IT OR IN ITS INSTRUCTIONS, THE TERMINAL MUST BE TIGHTENED TO THAT VALUE IN AN APPROVED MANNER.

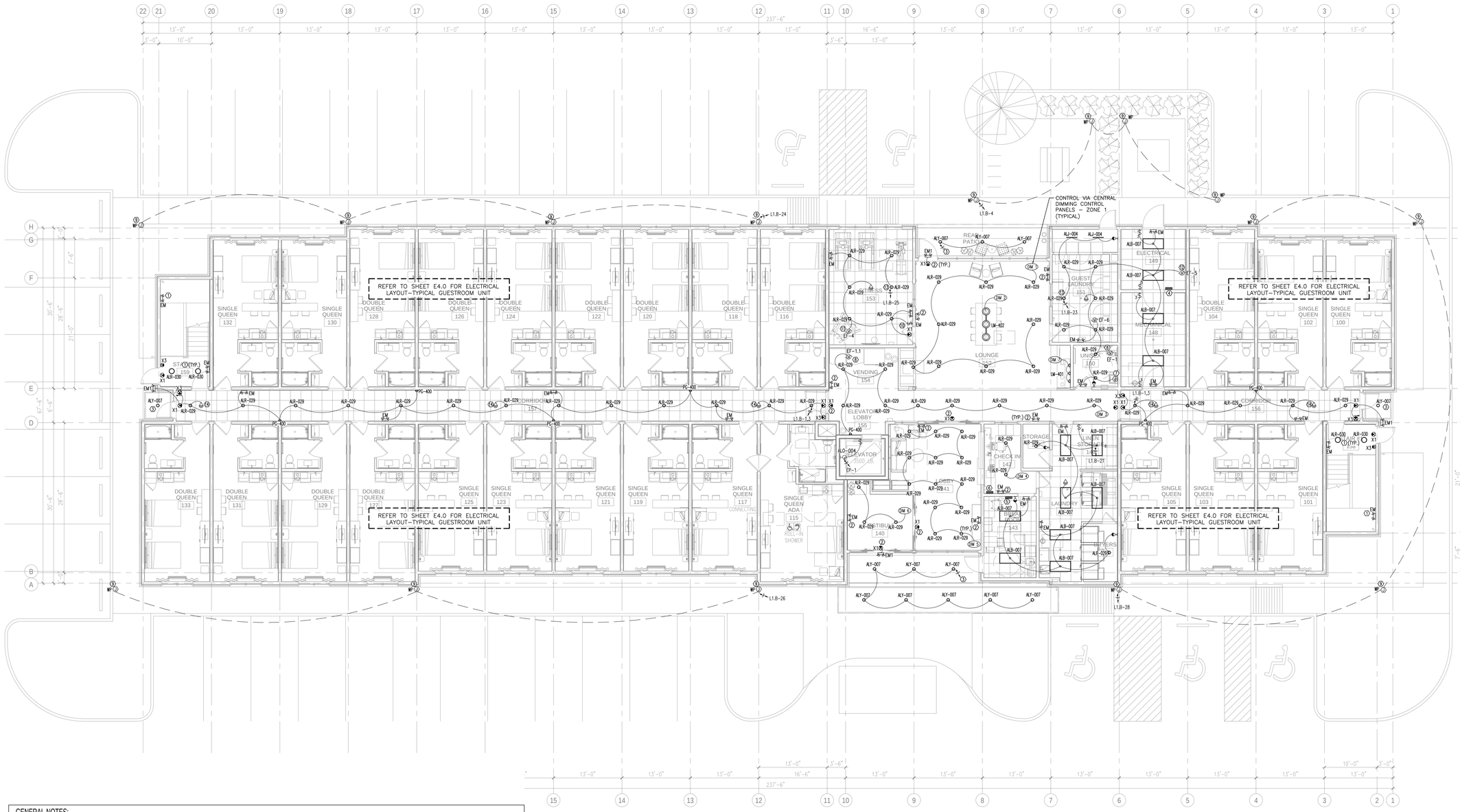
JSA
www.jsassociatesinc.com

LIGHTING FIXTURE SCHEDULE

(THE CONTRACTOR SHALL SUBMIT THE LIGHTING FIXTURE SCHEDULE TO FRANCHISE/ ARCHITECT/ ID/ OWNER FOR REVIEW AND FINAL APPROVAL BEFORE BIDDING, ORDERING, OR INSTALLATION).

FOR QUOTATIONS CONTACT JS & ASSOCIATES AT 951.340.2475 OR EMAIL: QUOTES@JSASSOCIATESINC.COM

TYPE	BY	MFR / VENDOR	JSA CATALOG #	DESCRIPTION	MOUNTING	WATTS	LUMENS	KELVIN	VOLTS	DIM	FINISH	EM	NOTES
EXTERIOR LIGHTING													
SB	EC	JSA	#JPL-1-T5-64L-1-40K	23' PARKING LOT POLE LIGHT	POLE	2-205.0W	25419L	4000K	UNV	-	BRONZE	-	
ALY-001	EC	JSA	JWP-2600-40-UNV-BLK	WALLPACK	WALL	15.0W	2600L	4000K	120-277V	0-10V	BLACK	-	
ALY-007	EC	JSA	JR6-ICDXA-MVOLT-010 / JR6-2000-40-UNV-W	6" NEW CONSTRUCTION HOUSING W/ 0-10V LED INSERT	RECESSED	24.0W MAX	2000L MAX	4000K	120/277V	0-10V	WHITE	-	
GENERAL LIGHTING													
ALB-007	EC	JSA	JT-2X4-7372-35-UNV-010	2'X4' BACK-LITFLAT PANEL	RECESSED	50.0W MAX	5500L MAX	3500K	120-277V	0-10V	WHITE	-	
ALJ-004	EC	JSA	JS-2-2448-35-UNV-010	2' LED UTILITY WRAP	SURFACE	16.7W	2448L	3500K	120-277V	0-10V	WHITE	-	
ALR-029	EC	JSA



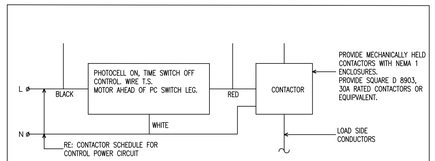
1 LIGHTING FIRST FLOOR PLAN
SCALE: 1/8"=1'–0"

GENERAL NOTES:

1. FOR HOME RUNS (FROM UNITS) 100 FT OR MORE, THE ELECTRICAL CONTRACTOR HAS TO CHECK THE VOLTAGE DROP AND SELECT THE SUITABLE CABLES SIZE TO COMPLY WITH THE MAXIMUM ALLOWED VOLTAGE DROP FOR THE FEEDER CONDUCTORS (3%). THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.
2. THE CONTRACTOR SHALL VERIFY WITH THE OWNER/ FRANCHISE FOR THE QUANTITIES AND LOCATIONS OF THE LOW VOLTAGE SYSTEM DEVICES (CAMERA, CARD READER, WIRELESS ACCESS POINT, ETC.) AND PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE WIRING, POWER SUPPLY FOR THE DEVICES AS PER THE MANUFACTURER SPECIFICATIONS/ INSTALLATION GUIDELINES.
3. LIGHTING FOR ALL EXTERIOR APPLICATIONS SHALL HAVE AUTOMATIC CONTROLS CAPABLE OF TURNING OFF EXTERIOR LIGHT WHEN SUFFICIENT DAYLIGHT IS AVAILABLE OR WHEN THE LIGHT IS NOT REQUIRED DURING NIGHTTIME HOURS. LIGHTING NOT DESIGNATED FOR DUSK TO DAWN OPERATION SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH. LIGHTING DESIGNATED FOR DUSK TO DAWN SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH OR PHOTOSENSOR. ASTRONOMICAL TIME SWITCHES SHALL BE CAPABLE OF RETAINING PROGRAMMING AND THE TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST 10 HOURS.
4. THE OCCUPANCY SENSOR SWITCHES SHALL AUTOMATICALLY TURN LIGHTING ON INSTANTANEOUSLY WHEN THE ROOM /SPACE IS OCCUPIED AND AUTOMATICALLY TURN LIGHTING OFF WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING THAT ROOM/SPACE.
5. THE EMERGENCY AND EXIT LIGHTS THAT CONNECT TO LOCAL AREA NORMAL LIGHTING CIRCUITS WILL BE CONNECTED AHEAD OF ANY LOCAL SWITCHES COMPLY WITH NEC 700.12(I),(2),(3).
6. VERIFY MOUNTING HEIGHT FOR ALL WALL MOUNTED FIXTURE TYPES WITH OWNER/ARCH. PRIOR INSTALLATION. FIXTURE SHALL BE MOUNTED PER ADA REQUIREMENTS.
7. SEE TYPICAL GUESTROOM PLAN FOR DETAILED ROOM LAYOUT ON SHEET E4.0.
8. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOT–CANDLE (11 LUX) AT THE FLOOR LEVEL AND A MINIMUM OF 0.1 FOOT–CANDLE (1.1 LUX) AT ANY POINT.
9. LOW–LEVEL EXIT SIGNS SHALL BE PROVIDED IN ALL AREAS SERVING GUESTROOMS IN GROUP R–1 OCCUPANCIES BY SECTION 1011.1 AND SHALL COMPLY WITH SECTION 1013.5. THE BOTTOM OF THE SIGN SHALL BE NOT LESS THAN 10 INCHES (254MM) NOR MORE THAN 18 INCHES (455MM) ABOVE THE FLOOR LEVEL. THE SIGN SHALL BE FLUSH MOUNTED TO THE DOOR OR WALL. WHERE MOUNTED ON WALL, THE EDGE OF THE SIGN SHALL BE WITHIN 4 INCHES (102MM) OF THE DOOR FRAME ON THE LATCH SIDE.
10. CONTRACTOR TO ENSURE AT LEAST 10 FOOT–CANDLES OF EMERGENCY ILLUMINATION SHALL BE PROVIDED ON THE STAIRS AND 1 FOOT–CANDLE ON THE OTHER WALKING SURFACES PER NFPA 101 (SECTION 7.8.1.3 AND 7.9). ADDITIONAL EMERGENCY LIGHTS MAYBE REQUIRED WHEN NEED TO COMPLY WITH THIS REQUIREMENT.
11. CONTRACTOR SHALL VERIFY AND FURNISH EXIT SIGNS TO COMPLY WITH SECTION 1013 IBC REQUIREMENT.
12. SUFFICIENT EMERGENCY LIGHTING LEVELS WILL BE DETERMINED DURING THE ONSITE INSPECTION. ADDITIONAL EMERGENCY LIGHTING MAY BE REQUIRED BY FIELD INSPECTOR IF DEEMED INSUFFICIENT.
13. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE SPRINKLER CONTRACTOR FOR THE PLACEMENTS OF THE LIGHT FIXTURES AND SPRINKLER HEADS TO COMPLY WITH THE NFPA 13 REQUIREMENTS.
14. EXIT SIGNAGE AND EMERGENCY LIGHTING MUST COMPLY WITH NFPA 101 AND MARRIOTT'S MODULE 14, INCLUDING EXTERIOR ASSEMBLY OCCUPANCIES AND EXIT DISCHARGE PATHS.
15. LUMINAIRES INSTALLED IN WET OR DAMP LOCATIONS SHALL BE INSTALLED SUCH THAT WATER CANNOT ENTER OR ACCUMULATE IN WIRING COMPARTMENTS, LAMP HOLDERS, OR OTHER ELECTRICAL PARTS. ALL LUMINAIRES SHALL BE SELECTED SUITABLE FOR WET LOCATIONS OR DAMP LOCATION.
16. CONTRACTOR SHALL PROVIDE A MINIMUM OF 15 FOOT–CANDLES OF GENERAL ILLUMINATION AT THE DROP OFF AREA. VERIFY WITH OWNER/ FRANCHISE FOR APPROVAL PRIOR TO PLACING ORDERS/ INSTALLATION.
17. CONTRACTOR SHALL PROVIDE A MINIMUM OF 5 FOOT–CANDLES THROUGHOUT THE OUTDOOR PATIO AND SECONDARY ENTRANCES TO THE HOTEL. VERIFY WITH OWNER/ FRANCHISE FOR APPROVAL PRIOR TO PLACING ORDERS/ INSTALLATION.
18. ALL EMERGENCY LIGHTS AT BUILDING EGRESS POINTS MUST FEATURE BATTERY BACK–UP SYSTEMS AND MUST FURNISH AT LEAST FIVE 5 FOOT–CANDLES.
19. LOBBY AND PUBLIC SPACES ARE REQUIRED TO HAVE A MINIMUM 4 SCENE DIMMING SYSTEM FOR THE LIGHTING CONTROL
20. VERIFY WITH MARRIOTT/CITY INSPECTOR FOR THE REQUIREMENT OF DAYLIGHT CONTROL

KEYED NOTES:

1. CONNECT ALL TYPE "ALR–030", "X1", "X3" & "EM" LIGHTS AT STAIRCASE TO L1.B–17 USING 2#10, 1/2"C. CONTRACTOR WILL PROVIDED A LOCK–ON FEATURE FOR THIS CIRCUIT AS REQUIRED BY NEC 700.12(I),(2),(3).
2. CONNECT ALL TYPE "X1", "X2", "X3" & "EM" LIGHTS AT CHECKIN/VESTIBLE/LOBBY/LOUNGE/CORRIDOR TO L1.B–19 USING 2#10, 1/2"C. CONTRACTOR WILL PROVIDED A LOCK–ON FEATURE FOR THIS CIRCUIT AS REQUIRED BY NEC 700.12(I),(2),(3).
3. CONNECT ALL EXTERIOR LIGHTS TYPE "ALY–007" TO L1.B–2, USING 2#10, 1/2"C. THE ELECTRICAL CONTRACTOR MUST CONFIRM THE LOCATION AND QUANTITIES OF LIGHT FIXTURES WITH THE ARCHITECT/INTERIOR DESIGNER AND REFER TO PROTOTYPE DRAWINGS BEFORE PROCEEDING WITH THE INSTALLATION
4. PROPOSED LOCATION FOR LIGHTING SUB–PANEL (MASTER CONTROL DIMMING SYSTEM). VERIFY LOCATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
5. PROPOSED LOCATION FOR TOUCH SCREEN MASTER CONTROL STATION. VERIFY LOCATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
6. PROPOSED LOCATION FOR TOUCH SCREEN MINI CONTROL STATION. VERIFY LOCATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
7. J.BOX FOR MIRROR LIGHT. VERIFY LOCATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
8. FAN WILL RUN CONTINUOUSLY AS THE NOTE ON EXHAUST FAN SCHEDULES (M1.1). VERIFY LOCATION AND POWER REQUIREMENT WITH THE LATEST MECHANICAL PLAN PRIOR TO INSTALLATION.
9. PROVIDE J.BOX FOR OUTDOOR LIGHTING/BUILDING UPLIGHTS. VERIFY WITH OWNER/ FRANCHISE PRIOR TO INSTALLATION.
10. KEYED OVERRIDE LIGHT SWITCH.
11. FAN WILL RUN INTERLOCK WITH AHU–1,3. VERIFY LOCATION AND POWER REQUIREMENTS WITH THE LATEST MECHANICAL PLAN PRIOR TO INSTALLATION.
12. PROVIDE FAN WITH TEMPERATURE SENSOR. FAN SHALL BE ON WHEN THE TEMPERATURE RISE OVER 80 DEGREES F. VERIFY LOCATION AND POWER REQUIREMENTS WITH THE LATEST MECHANICAL PLAN PRIOR TO INSTALLATION.
13. THIS LIGHT SHALL BE REMAINED "ON" AND NOT SWITCHED BY OCCUPANCY SENSOR.
14. VERIFY THE DETECTION RANGE OF THE OCCUPANCY SENSORS, AND THE LOCATION AND QUANTITIES OF THE OCCUPANCY SENSORS WITH THE SUPPLIER /MANUFACTURER SPECIFICATIONS & GUIDELINES PRIOR TO INSTALLATION.



2 CONTACTOR CONTROL DIAGRAM FOR EXTERIOR LIGHTING
SCALE: 1/4"=1'–0"

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JAN. 15, 2026

DUNG D. VU LICENSED No. 83005 STATE OF FLORIDA PROFESSIONAL ENGINEER

DUNG VU, Ph.D, P.E, LEED AP

Project #:	2502
Issue Date:	01–15–2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Tanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

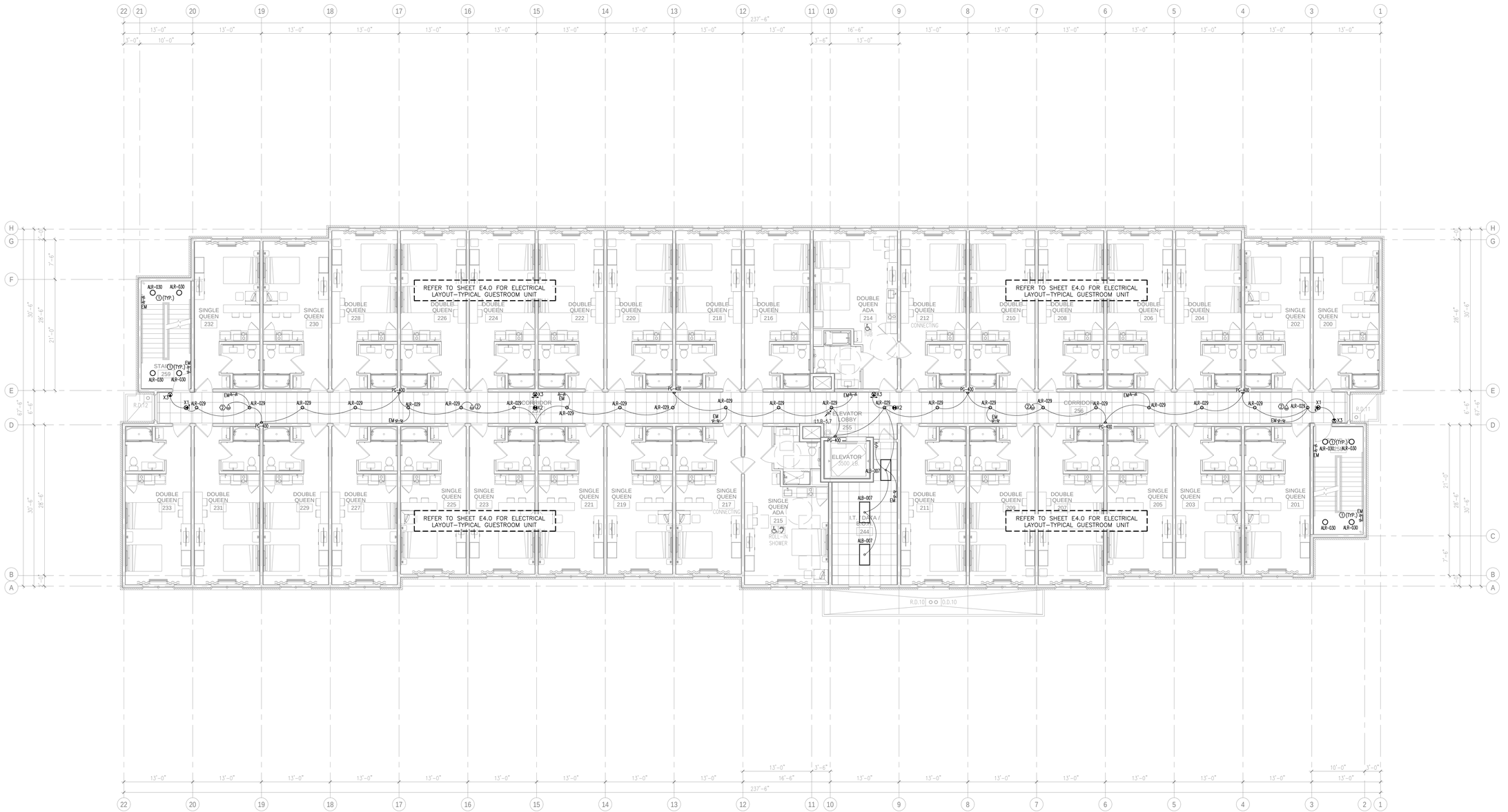
Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
LIGHTING
FIRST FLOOR PLAN

SHEET NUMBER:
E2.0



GENERAL NOTES:

1. FOR HOME RUNS (FROM UNITS) 100 FT OR MORE, THE ELECTRICAL CONTRACTOR HAS TO CHECK THE VOLTAGE DROP AND SELECT THE SUITABLE CABLES SIZE TO COMPLY WITH THE MAXIMUM ALLOWED VOLTAGE DROP FOR THE FEEDER CONDUCTORS (3%). THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.
2. THE CONTRACTOR SHALL VERIFY WITH THE OWNER/ FRANCHISE FOR THE QUANTITIES AND LOCATIONS OF THE LOW VOLTAGE SYSTEM DEVICES (CAMERA, CARD READER, WIRELESS ACCESS POINT, ETC.) AND PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE WIRING, POWER SUPPLY FOR THE DEVICES AS PER THE MANUFACTURER SPECIFICATIONS/ INSTALLATION GUIDELINES.
3. LIGHTING FOR ALL EXTERIOR APPLICATIONS SHALL HAVE AUTOMATIC CONTROLS CAPABLE OF TURNING OFF EXTERIOR LIGHT WHEN SUFFICIENT DAYLIGHT IS AVAILABLE OR WHEN THE LIGHT IS NOT REQUIRED DURING NIGHTTIME HOURS. LIGHTING NOT DESIGNATED FOR DUSK TO DAWN OPERATION SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH. LIGHTING DESIGNATED FOR DUSK TO DAWN SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH OR PHOTOSENSOR. ASTRONOMICAL TIME SWITCHES SHALL BE CAPABLE OF RETAINING PROGRAMMING AND THE TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST 10 HOURS.
4. THE OCCUPANCY SENSOR SWITCHES SHALL AUTOMATICALLY TURN LIGHTING ON INSTANTANEOUSLY WHEN THE ROOM /SPACE IS OCCUPIED AND AUTOMATICALLY TURN LIGHTING OFF WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING THAT ROOM/SPACE.
5. THE EMERGENCY AND EXIT LIGHTS THAT CONNECT TO LOCAL AREA NORMAL LIGHTING CIRCUITS WILL BE CONNECTED AHEAD OF ANY LOCAL SWITCHES COMPLY WITH NEC 700.12(I),(2),(3).
6. VERIFY MOUNTING HEIGHT FOR ALL WALL MOUNTED FIXTURE TYPES WITH OWNER/ARCH. PRIOR INSTALLATION. FIXTURE SHALL BE MOUNTED PER ADA REQUIREMENTS.
7. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOT-CANDLE (11 LUX) AT THE FLOOR LEVEL AND A MINIMUM OF 0.1 FOOT-CANDLE (1.1 LUX) AT ANY POINT.
8. LOW-LEVEL EXIT SIGNS SHALL BE PROVIDED IN ALL AREAS SERVING GUESTROOMS IN GROUP R-1 OCCUPANCIES BY SECTION 1013.1 AND SHALL COMPLY WITH SECTION 1011.5. THE BOTTOM OF THE SIGN SHALL BE NOT LESS THAN 10 INCHES (254MM) NOR MORE THAN 18 INCHES (450MM) ABOVE THE FLOOR LEVEL. THE SIGN SHALL BE FLUSH MOUNTED TO THE DOOR OR WALL WHERE MOUNTED ON WALL, THE EDGE OF THE SIGN SHALL BE WITHIN 4 INCHES (102MM) OF THE DOOR FRAME ON THE LATCH SIDE.
9. CONTRACTOR TO ENSURE AT LEAST 10 FOOT-CANDLES OF EMERGENCY ILLUMINATION SHALL BE PROVIDED ON THE STAIRS AND 1 FOOT-CANDLE ON THE OTHER WALKING SURFACES PER NFPA 101 (SECTION 7.8.1.3 AND 7.9). ADDITIONAL EMERGENCY LIGHTS MAYBE REQUIRED WHEN NEED TO COMPLY WITH THIS REQUIREMENT.
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KEYED NOTES:

1. CONNECT ALL TYPE "ALR-030", "EM" LIGHTS AT STAIRCASE TO L1.B-17 USING 2#10, 1/2"C. CONTRACTOR WILL PROVIDED A LOCK-ON FEATURE FOR THIS CIRCUIT AS REQUIRED BY NEC 700.12(I),(2),(3).
2. VERIFY THE DETECTION RANGE OF THE OCCUPANCY SENSORS, AND THE LOCATION AND QUANTITIES OF THE OCCUPANCY SENSORS WITH THE SUPPLIER /MANUFACTURER SPECIFICATIONS & GUIDELINES PRIOR TO INSTALLATION.

1 LIGHTING SECOND FLOOR PLAN

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

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JAN. 15, 2026

DUNG D. VU LICENSE No. 83005 STATE OF FLORIDA

DUNG VU, Ph.D, P. E, LEED AP

Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Tanes

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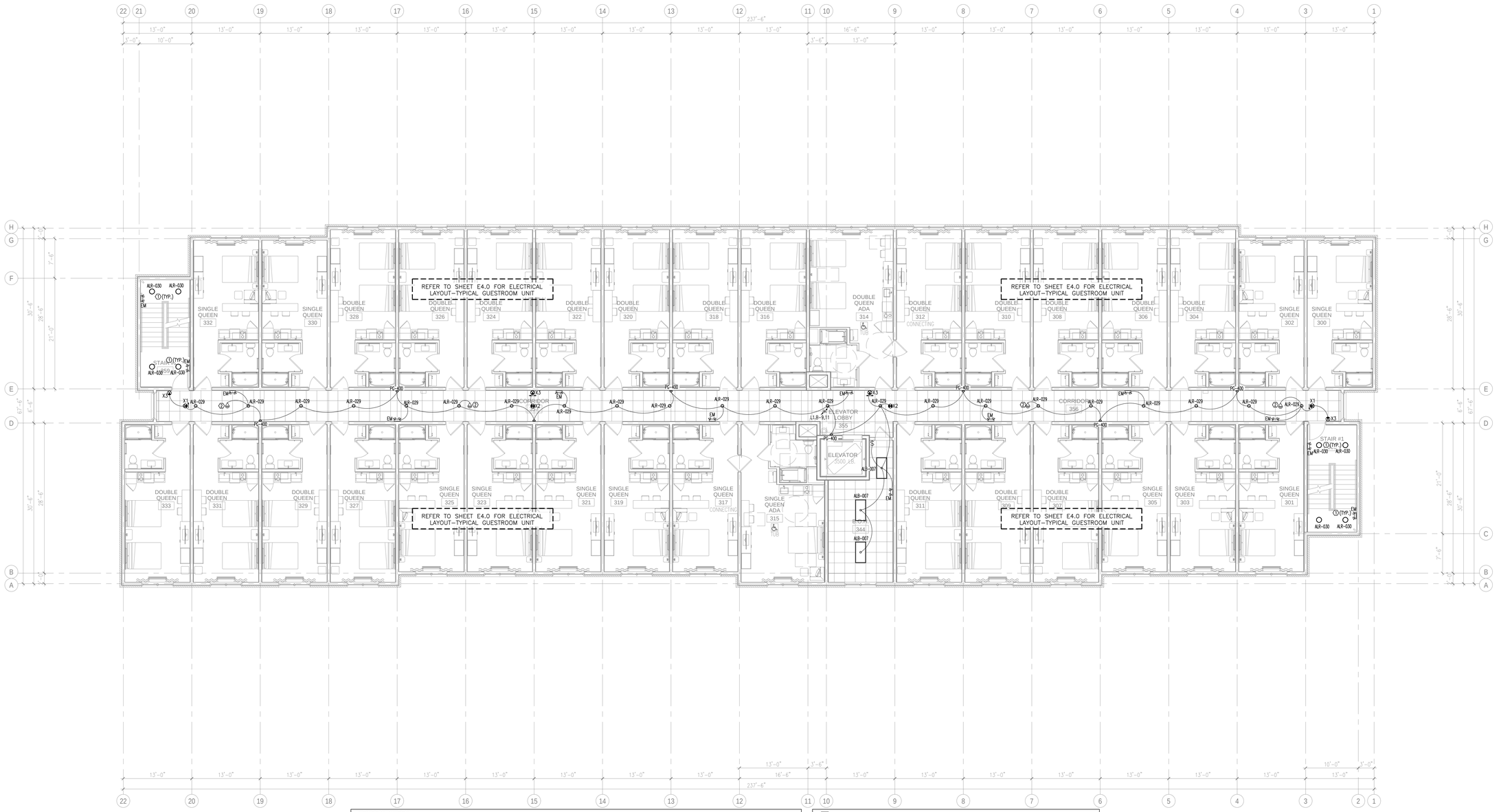
Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
LIGHTING
SECOND FLOOR PLAN

SHEET NUMBER:
E2.1



GENERAL NOTES:

1. FOR HOME RUNS (FROM UNITS) 100 FT OR MORE, THE ELECTRICAL CONTRACTOR HAS TO CHECK THE VOLTAGE DROP AND SELECT THE SUITABLE CABLES SIZE TO COMPLY WITH THE MAXIMUM ALLOWED VOLTAGE DROP FOR THE FEEDER CONDUCTORS (3%). THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.
2. THE CONTRACTOR SHALL VERIFY WITH THE OWNER/ FRANCHISE FOR THE QUANTITIES AND LOCATIONS OF THE LOW VOLTAGE SYSTEM DEVICES (CAMERA, CARD READER, WIRELESS ACCESS POINT, ETC.) AND PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE WIRING, POWER SUPPLY FOR THE DEVICES AS PER THE MANUFACTURER SPECIFICATIONS/ INSTALLATION GUIDELINES.
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6. VERIFY MOUNTING HEIGHT FOR ALL WALL MOUNTED FIXTURE TYPES WITH OWNER/ARCH. PRIOR INSTALLATION. FIXTURE SHALL BE MOUNTED PER ADA REQUIREMENTS.
7. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOT–CANDLE (11 LUX) AT THE FLOOR LEVEL AND A MINIMUM OF 0.1 FOOT–CANDLE (1.1 LUX) AT ANY POINT.
8. LOW–LEVEL EXIT SIGNS SHALL BE PROVIDED IN ALL AREAS SERVING GUESTROOMS IN GROUP R–1 OCCUPANCIES BY SECTION 1013.1 AND SHALL COMPLY WITH SECTION 1011.5. THE BOTTOM OF THE SIGN SHALL BE NOT LESS THAN 10 INCHES (254MM) NOR MORE THAN 18 INCHES (450MM) ABOVE THE FLOOR LEVEL. THE SIGN SHALL BE FLUSH MOUNTED TO THE DOOR OR WALL WHERE MOUNTED ON WALL, THE EDGE OF THE SIGN SHALL BE WITHIN 4 INCHES (102MM) OF THE DOOR FRAME ON THE LATCH SIDE.
9. CONTRACTOR TO ENSURE AT LEAST 10 FOOT–CANDLES OF EMERGENCY ILLUMINATION SHALL BE PROVIDED ON THE STAIRS AND 1 FOOT–CANDLE ON THE OTHER WALKING SURFACES PER NFPA 101 (SECTION 7.8.1.3 AND 7.9). ADDITIONAL EMERGENCY LIGHTS MAYBE REQUIRED WHEN NEED TO COMPLY WITH THIS REQUIREMENT.
10. CONTRACTOR SHALL VERIFY AND FURNISH EXIT SIGNS TO COMPLY WITH SECTION 1013 IBC REQUIREMENT.
11. SUFFICIENT EMERGENCY LIGHTING LEVELS WILL BE DETERMINED DURING THE ONSITE INSPECTION. ADDITIONAL EMERGENCY LIGHTING MAY BE REQUIRED BY FIELD INSPECTOR IF DEEMED INSUFFICIENT.
12. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE SPRINKLER CONTRACTOR FOR THE PLACEMENTS OF THE LIGHT FIXTURES AND SPRINKLER HEADS TO COMPLY WITH THE NFPA 13 REQUIREMENTS.
13. EXIT SIGNAGE AND EMERGENCY LIGHTING MUST COMPLY WITH NFPA 101 AND MARRIOTT'S MODULE 14, INCLUDING EXTERIOR ASSEMBLY OCCUPANCIES AND EXIT DISCHARGE PATHS.
14. LUMINARES INSTALLED IN WET OR DAMP LOCATIONS SHALL BE INSTALLED SUCH THAT WATER CANNOT ENTER OR ACCUMULATE IN WIRING COMPARTMENTS, LAMP HOLDERS, OR OTHER ELECTRICAL PARTS. ALL LUMINARES SHALL BE SELECTED SUITABLE FOR WET LOCATIONS OR DAMP LOCATION.

KEYED NOTES:

1. CONNECT ALL TYPE "ALR–030", "EM" LIGHTS AT STAIRCASE TO L1.B–17 USING 2#10, 1/2"C. CONTRACTOR WILL PROVIDED A LOCK–ON FEATURE FOR THIS CIRCUIT AS REQUIRED BY NEC 700.12(I),(2),(3).
2. VERIFY THE DETECTION RANGE OF THE OCCUPANCY SENSORS, AND THE LOCATION AND QUANTITIES OF THE OCCUPANCY SENSORS WITH THE SUPPLIER /MANUFACTURER SPECIFICATIONS & GUIDELINES PRIOR TO INSTALLATION.

1 LIGHTING THIRD FLOOR PLAN
SCALE: 1/8"=1'–0"

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JAN. 15, 2026

DUNG D. VU LICENSED No. 83005 STATE OF FLORIDA

DUNG VU, Ph.D, P.E, LEED AP

Project #:	2502
Issue Date:	01–15–2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Tones

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

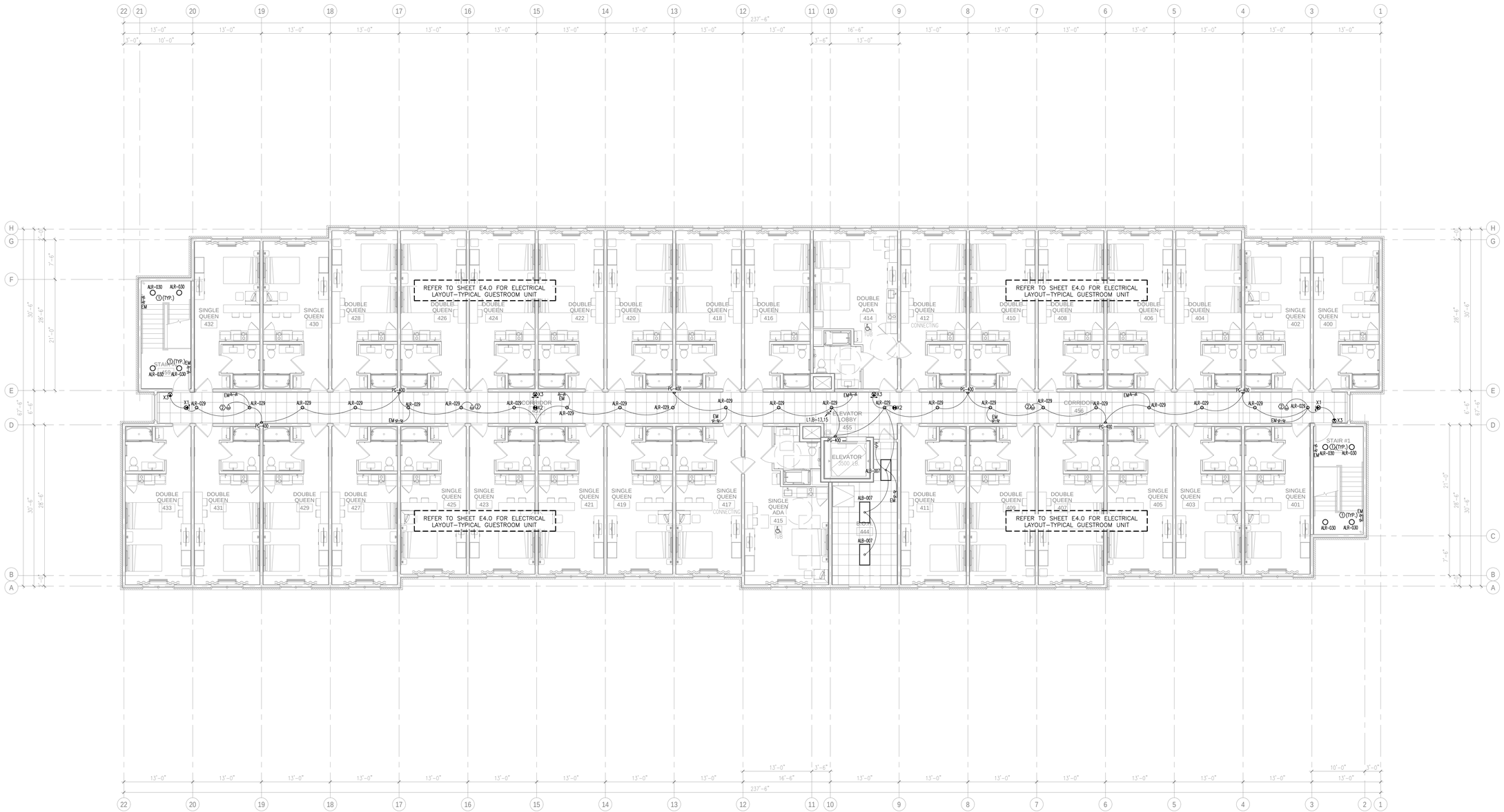
Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
LIGHTING
THIRD FLOOR PLAN

SHEET NUMBER:
E2.2



GENERAL NOTES:

1. FOR HOME RUNS (FROM UNITS) 100 FT OR MORE, THE ELECTRICAL CONTRACTOR HAS TO CHECK THE VOLTAGE DROP AND SELECT THE SUITABLE CABLES SIZE TO COMPLY WITH THE MAXIMUM ALLOWED VOLTAGE DROP FOR THE FEEDER CONDUCTORS (3%). THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.
2. THE CONTRACTOR SHALL VERIFY WITH THE OWNER/ FRANCHISE FOR THE QUANTITIES AND LOCATIONS OF THE LOW VOLTAGE SYSTEM DEVICES (CAMERA, CARD READER, WIRELESS ACCESS POINT, ETC.) AND PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE WIRING, POWER SUPPLY FOR THE DEVICES AS PER THE MANUFACTURER SPECIFICATIONS/ INSTALLATION GUIDELINES.
3. LIGHTING FOR ALL EXTERIOR APPLICATIONS SHALL HAVE AUTOMATIC CONTROLS CAPABLE OF TURNING OFF EXTERIOR LIGHT WHEN SUFFICIENT DAYLIGHT IS AVAILABLE OR WHEN THE LIGHT IS NOT REQUIRED DURING NIGHTTIME HOURS. LIGHTING NOT DESIGNATED FOR DUSK TO DAWN OPERATION SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH. LIGHTING DESIGNATED FOR DUSK TO DAWN SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH OR PHOTOSENSOR. ASTRONOMICAL TIME SWITCHES SHALL BE CAPABLE OF RETAINING PROGRAMMING AND THE TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST 10 HOURS.
4. THE OCCUPANCY SENSOR SWITCHES SHALL AUTOMATICALLY TURN LIGHTING ON INSTANTANEOUSLY WHEN THE ROOM /SPACE IS OCCUPIED AND AUTOMATICALLY TURN LIGHTING OFF WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING THAT ROOM/SPACE.
5. THE EMERGENCY AND EXIT LIGHTS THAT CONNECT TO LOCAL AREA NORMAL LIGHTING CIRCUITS WILL BE CONNECTED AHEAD OF ANY LOCAL SWITCHES COMPLY WITH NEC 700.12(I),(2),(3).
6. VERIFY MOUNTING HEIGHT FOR ALL WALL MOUNTED FIXTURE TYPES WITH OWNER/ARCH. PRIOR INSTALLATION. FIXTURE SHALL BE MOUNTED PER ADA REQUIREMENTS.
7. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOT–CANDLE (11 LUX) AT THE FLOOR LEVEL AND A MINIMUM OF 0.1 FOOT–CANDLE (1.1 LUX) AT ANY POINT.
8. LOW–LEVEL EXIT SIGNS SHALL BE PROVIDED IN ALL AREAS SERVING GUESTROOMS IN GROUP R–1 OCCUPANCIES BY SECTION 1013.1 AND SHALL COMPLY WITH SECTION 1011.5. THE BOTTOM OF THE SIGN SHALL BE NOT LESS THAN 10 INCHES (254MM) NOR MORE THAN 18 INCHES (450MM) ABOVE THE FLOOR LEVEL. THE SIGN SHALL BE FLUSH MOUNTED TO THE DOOR OR WALL WHERE MOUNTED ON WALL, THE EDGE OF THE SIGN SHALL BE WITHIN 4 INCHES (102MM) OF THE DOOR FRAME ON THE LATCH SIDE.
9. CONTRACTOR TO ENSURE AT LEAST 10 FOOT–CANDLES OF EMERGENCY ILLUMINATION SHALL BE PROVIDED ON THE STAIRS AND 1 FOOT–CANDLE ON THE OTHER WALKING SURFACES PER NFPA 101 (SECTION 7.8.1.3 AND 7.9). ADDITIONAL EMERGENCY LIGHTS MAYBE REQUIRED WHEN NEED TO COMPLY WITH THIS REQUIREMENT.
10. CONTRACTOR SHALL VERIFY AND FURNISH EXIT SIGNS TO COMPLY WITH SECTION 1013 IBC REQUIREMENT.
11. SUFFICIENT EMERGENCY LIGHTING LEVELS WILL BE DETERMINED DURING THE ONSITE INSPECTION. ADDITIONAL EMERGENCY LIGHTING MAY BE REQUIRED BY FIELD INSPECTOR IF DEEMED INSUFFICIENT.
12. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE SPRINKLER CONTRACTOR FOR THE PLACEMENTS OF THE LIGHT FIXTURES AND SPRINKLER HEADS TO COMPLY WITH THE NFPA 13 REQUIREMENTS.
13. EXIT SIGNAGE AND EMERGENCY LIGHTING MUST COMPLY WITH NFPA 101 AND MARRIOTT'S MODULE 14, INCLUDING EXTERIOR ASSEMBLY OCCUPANCIES AND EXIT DISCHARGE PATHS.
14. LUMINARES INSTALLED IN WET OR DAMP LOCATIONS SHALL BE INSTALLED SUCH THAT WATER CANNOT ENTER OR ACCUMULATE IN WIRING COMPARTMENTS, LAMP HOLDERS, OR OTHER ELECTRICAL PARTS. ALL LUMINARES SHALL BE SELECTED SUITABLE FOR WET LOCATIONS OR DAMP LOCATION.

KEYED NOTES:

1. CONNECT ALL TYPE "ALR–030", "EM" LIGHTS AT STAIRCASE TO L1.B–17 USING 2#10, 1/2"C. CONTRACTOR WILL PROVIDED A LOCK–ON FEATURE FOR THIS CIRCUIT AS REQUIRED BY NEC 700.12(I),(2),(3).
2. VERIFY THE DETECTION RANGE OF THE OCCUPANCY SENSORS, AND THE LOCATION AND QUANTITIES OF THE OCCUPANCY SENSORS WITH THE SUPPLIER /MANUFACTURER SPECIFICATIONS & GUIDELINES PRIOR TO INSTALLATION.

1 LIGHTING FOURTH FLOOR PLAN

SCALE: 1/8"=1'–0"

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JAN. 15, 2026

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No. 83005
STATE OF FLORIDA

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Project #:	2502
Issue Date:	01–15–2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Tones

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

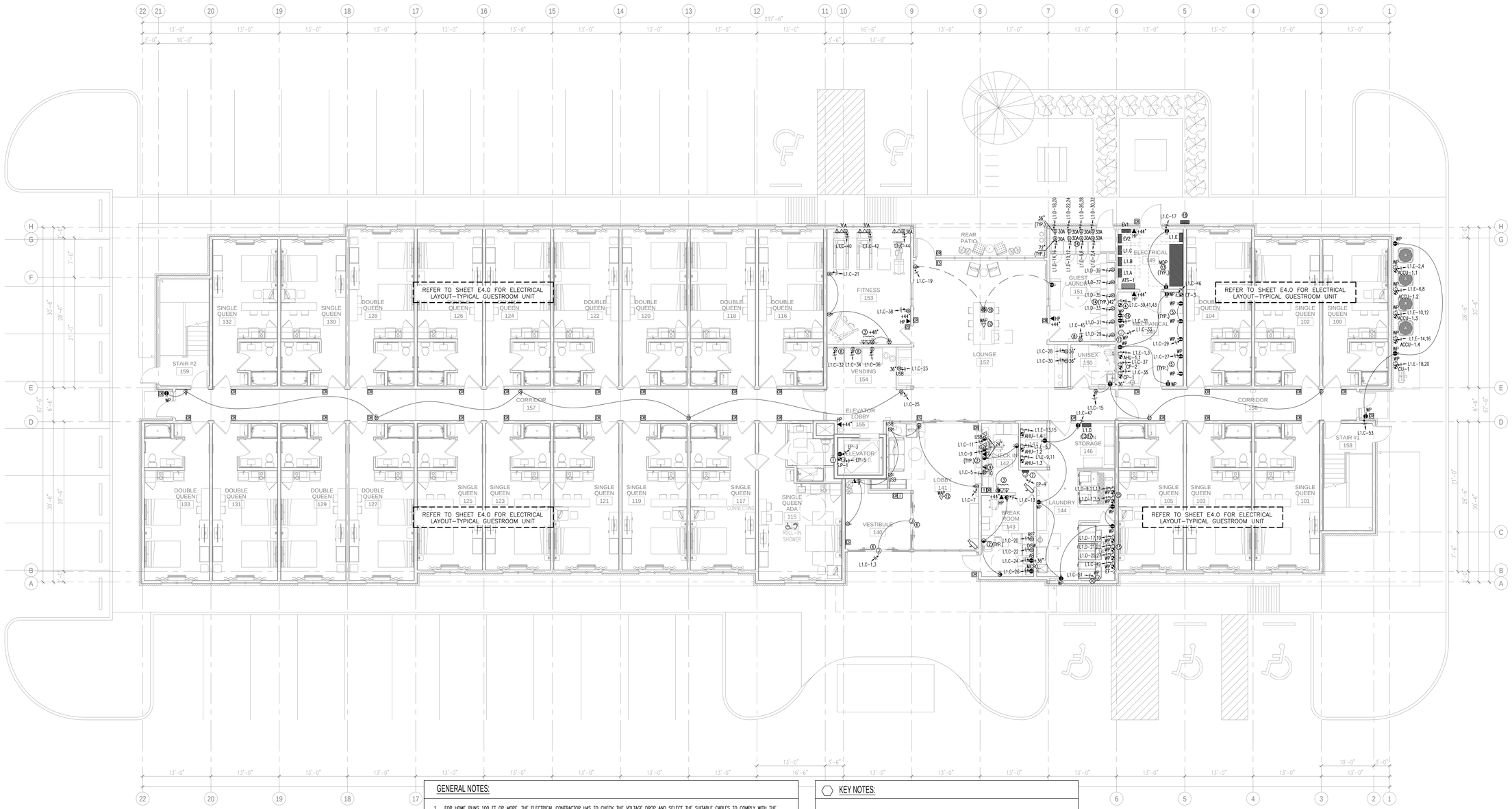
STUDIO**RES**

SHEET TITLE:

LIGHTING
FOURTH FLOOR PLAN

SHEET NUMBER:

E2.3



GENERAL NOTES:

1. FOR HOME RUNS 100 FT OR MORE, THE ELECTRICAL CONTRACTOR HAS TO CHECK THE VOLTAGE DROP AND SELECT THE SUITABLE CABLES TO COMPLY WITH THE MAXIMUM ALLOWED VOLTAGE DROP FOR THE FEEDER CONDUCTOR (3%). THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.
2. THE CONTRACTOR SHALL VERIFY WITH THE OWNER/ FRANCHISE FOR THE QUANITIES AND LOCATIONS OF THE LOW VOLTAGE SYSTEM DEVICES (CAMERA, CARD READER, WIRELESS ACCESS POINT, ETC.) AND PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE WIRING, POWER SUPPLY FOR THE DEVICES AS PER THE MANUFACTURER SPECIFICATIONS/ INSTALLATION GUIDELINES.
3. ELECTRICAL ROOM TO HAVE PANIC HARDWARE INSTALLED AND DOOR SHALL SWING IN THE DIRECTION OF EGRESS. COMPLY WITH THE 2020 NEC, ARTICLE 110.26 (C)(3).
4. ALL GFCI RECEPTACLES SHALL NOT BE HIDDEN OR OBSTRUCTED PER THE 2020 NEC, INCLUDE THE FOOD PREP AREA.
5. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL FLOOR OUTLETS WITH FURNITURE/ ARCH. PRIOR TO INSTALLATION.
6. CONTRACTOR SHOULD VERIFY EXACT LOCATION, BREAKER SIZES, CABLE SIZES, HP, CONTROL WIRING, ETC FOR ALL ELECTRICAL EQUIPMENT WITH KITCHEN SUPPLIER PRIOR TO INSTALLATION.
7. PROVIDE TAMPER RESISTANT RECEPTACLES FOR THE BREAKFAST ROOM, LOBBY, FITNESS ROOM, AND OTHER ASSEMBLY AREAS ACCESSIBLE TO THE PUBLIC (NEC 406.12).
8. ELECTRICAL CONTRACTORS SHOULD VERIFY ALL ELECTRICAL REQUIREMENT WITH ELEVATOR SUPPLIER PRIOR TO INSTALLATION.
9. THE CONTRACTOR SHALL VERIFY ALL REQUIREMENTS FOR CONTROL WIRING, NEUTRAL WIRES FOR ALL ELECTRICAL EQUIPMENT WITH THE SUPPLIER/ MANUFACTURER PRIOR TO INSTALLATION.
10. SPACE ALLOCATIONS FOR MATERIALS, EQUIPMENT AND DEVICES HAVE BEEN MADE ON THE BASIS OF PRESENT AND KNOWN FUTURE REQUIREMENTS AND THE DIMENSIONS OF ITEMS OF EQUIPMENT OR DEVICES OF A PARTICULAR MANUFACTURER. THE CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, EQUIPMENT AND DEVICES PROPOSED FOR USE ON THIS PROJECT ARE WITHIN THE CONSTRAINTS OF THE ALLOCATED SPACE.
11. HOMERUNS SHALL BE COMBINED WHERE POSSIBLE IN ACCORDING TO NFPA.
12. HOMERUN CIRCUITS FOR ISOLATED GROUND RECEPTACLES SHALL BE SEPARATED FROM OTHER CIRCUITS. EACH CIRCUIT SHALL HAVE ITS OWN NEUTRAL CONDUCTOR AND EACH HOMERUN SHALL CONTAIN AN ISOLATED AND EQUIPMENT GROUND CONDUCTOR.
13. COORDINATE THE LOCATION AND INSTALLATION DETAIL OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS (WALL ELEVATIONS, MILLWORK DETAILS, ETC.) AND WITH MILLWORK MANUFACTURER PRIOR TO ELECTRICAL ROUGH-IN.
14. WALL AND FLOOR MOUNTED POWER RECEPTACLES SHOWN NEAR DATA OUTLETS SHALL BE LOCATED WITHIN SIX (6) INCHES OF THE DATA OUTLET. LOCATE AT SAME MOUNTING HEIGHT UNLESS NOTED OTHERWISE.
15. ALL GFCI RECEPTACLES SHALL BE CONNECTED SO THAT ALL DEVICES ON THE SAME CIRCUIT AS THE GFCI RECEPTACLE DO NOT DE-ENERGIZE UPON TRIPPING. ALL GFCI RECEPTACLES SHALL INCLUDE A LOCK-OUT FUNCTION TO PROTECT AGAINST THE USE OF MISWIRED DEVICES OR DEVICES THAT HAVE BEEN DAMAGED DUE TO DISABLING SURGES.
16. ELECTRICAL CONTRACTORS MUST VERIFY ALL ELECTRICAL REQUIREMENTS WITH THE HVAC AND PLUMBING SYSTEMS TO PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE CONTROL WIRING FOR THE MOTORS.
17. CONTRACTOR HAVE TO INSTALL APPROVED MOBILE KEY CERTIFIED RFID LOCK SYSTEM WITH BLUETOOTH LOW ENERGY (BLE) KEY READER ON ALL DOORS INCLUDING, BUT NOT LIMITED TO, GUESTROOM ENTRIES, GUEST ACCESSED FACILITIES, EXTERIOR ENTRANCES, PARKING, MEETING SPACES, AND BACK OF HOUSE DOORS AT THE FRONT DESK/CHECK-IN STATION, AND FRONT OFFICE. VERIFY WITH ELV CONTRACTOR AND DOOR CONTRACTOR TO PROVIDE ELECTRIC STRIKE WHERE REQUIRED.
18. COORDINATE POWER & DATA REQUIREMENTS FOR CARDIO EQUIPMENT WITH EQUIPMENT VENDOR'S LAYOUT PRIOR TO INSTALLATION.
19. COORDINATE WITH THE INTERIOR DESIGN FOR THE FOR PROVISION OF POWER FOR GUEST USE IN PUBLIC SEATING AREAS.

KEY NOTES:

1. LOCATE IN PIT FOR SUMP PUMP.
2. CONTROLED RECEPTACLES SHALL BE CONTROLLED BY OCCUPANCY SENSING (SHARED OCCUPANCY SENSORS WITH ROOM'S LIGHTING, ADDITIONAL OCCUPANCY IS REQUIRED WHEN THE ROOM LIGHTING IS NOT CONTROLLED BY OCCUPANCY SENSOR). THE POWER IS SWITCHED OFF NO LONGER THAN 30 MINUTES AFTER THE ROOM HAS BEEN VACATED. PROVIDE A PERMANENT AND DURABLE MARKING FOR CONTROLLED RECEPTACLES OR CIRCUITS TO DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES OR CIRCUITS. CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT, POWER PACK, CABLE, ETC.. TO COMPLY THIS REQUIREMENT.
3. OUTLETS FOR TELEVISION. VERIFY LOCATION AND ELEVATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
4. DISCONNECT SWITCH IN NEMA-2 ENCLOSURE FOR BOOSTER PUMP CONTROL PANEL. VERIFY THE LOCATION WITH THE LATEST PLUMPING PLAN PRIOR TO INSTALLATION.
5. RECEPTACLES FOR GAS WATER HEATERS. VERIFY LOCATION WITH THE LATEST PLUMBING PRIOR TO INSTALLATION.
6. FIELD LOCATE FOR DOOR MOTOR.
7. FIRE ALARM CONTROL PANEL.
8. RECEPTACLE FOR LAUNDRY DETERGENT DISPENSERS. VERIFY LOCATION AND ELEVATION WITH ARCHITECTURAL PLAN/OWNER PRIOR TO INSTALLATION.
9. RECEPTACLE OUTLETS FOR PHOTOCOPIER.
10. J.BOX FOR MOTORIZED DAMPER.
11. J.BOX FOR WATER SOFTENER. VERIFY LOCATION WITH PLUMBING PRIOR TO INSTALLATION.
12. VERIFY LOCATIONS AND QUANTILES OF WIRELESS ACCESS POINT (WAP) WITH THE OWNER / HOTEL OPERATOR PRIOR TO INSTALLATION.
13. FIELD VERIFICATION OF THE BEST LOCATION OF ELECTRICAL PANELS PRIOR TO INSTALLATION. THE LOCATION OF ELECTRICAL PANELS MUST COMPLY WITH 110.26 AND 240.24 OF THE NEC
14. RECEPTACLES FOR WASHER/ DRYER. VERIFY THE LOCATION AND ELEVATION WITH ARCHITECTURAL PLAN/ID PRIOR TO INSTALLATION.
15. DISCONNECT SWITCH FOR WASHER/ DRYER. VERIFY LOCATION WITH LAUNDRY SUPPLIER PRIOR TO INSTALLATION.
16. RECEPTACLES FOR WATER FILTRATION SYSTEM. VERIFY LOCATION WITH THE LATEST PLUMBING PRIOR TO INSTALLATION.
17. THE PANEL BOARD SHALL BE LOCKABLE AND ONLY ACCESSIBLE TO QUALIFIED PERSONNEL.
18. DOCKING STATION. REFER TO THE ONE LINE DIAGRAM FOR MORE INFORMATION. VERIFY THE BEST LOCATION PRIOR TO INSTALLATION

NOTES FOR FIRE SMOKE DAMPER:

1. CONTRACTOR SHALL PROVIDE J-BOXES FOR FIRE SMOKE DAMPERS AT 1ST FLOOR, CONNECT TO L1.C-40, USING 2#12, 1/2"C."

1 POWER FIRST FLOOR PLAN

SCALE: 1/8"=1'–0"

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JAN. 15, 2026

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ONAL ENGINEER

DUNG VU,
Ph.D, P.E, LEED AP

Project #:	2502
Issue Date:	01–15–2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Tanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

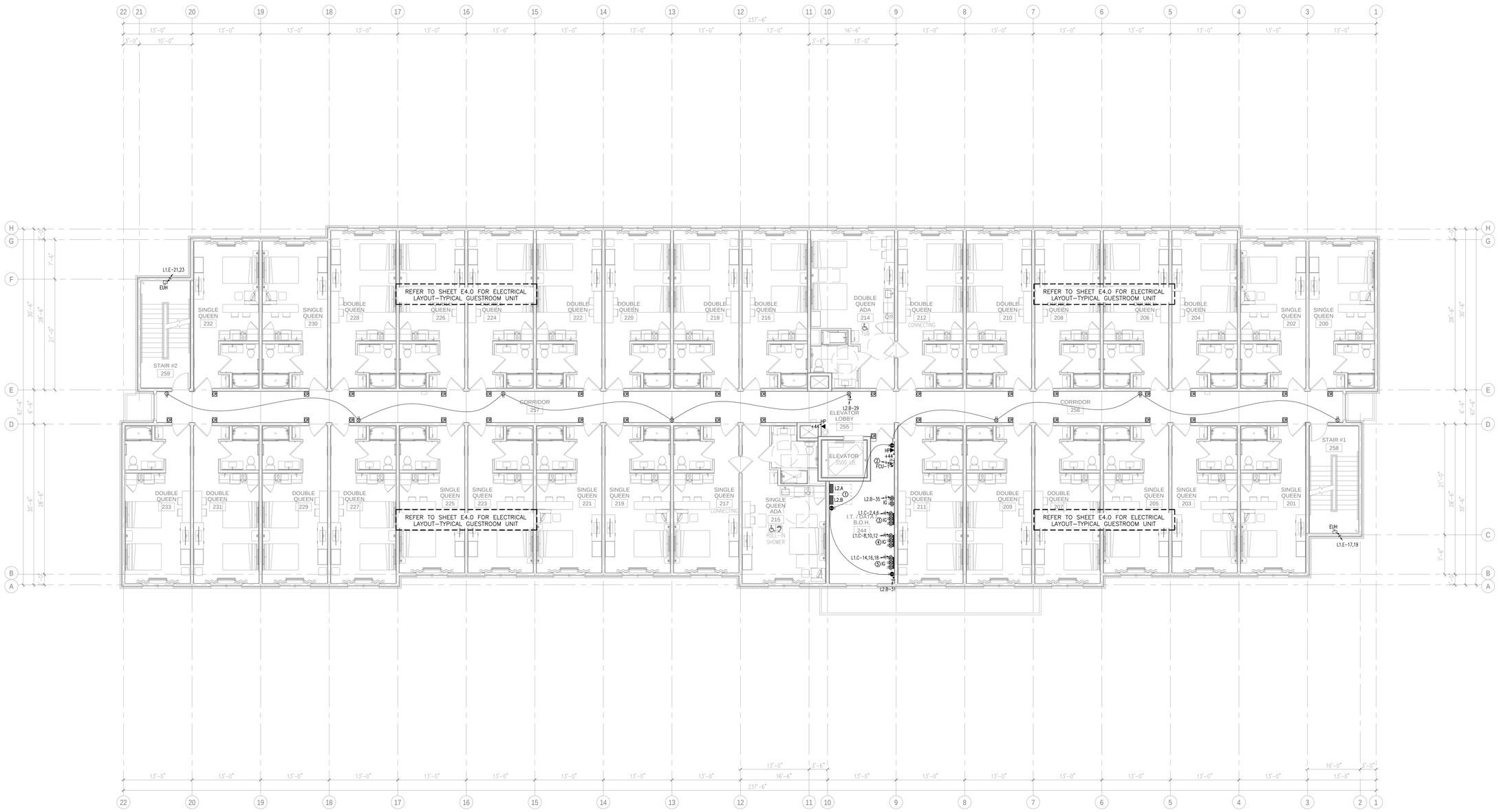
Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
POWER
FIRST FLOOR PLAN

SHEET NUMBER:
E3.0



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

GENERAL NOTES:

1. FOR HOME RUNS 100 FT OR MORE, THE ELECTRICAL CONTRACTOR HAS TO CHECK THE VOLTAGE DROP AND SELECT THE SUITABLE CABLES TO COMPLY WITH THE MAXIMUM ALLOWED VOLTAGE DROP FOR THE FEEDER CONDUCTOR (3%). THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.
2. THE CONTRACTOR SHALL VERIFY WITH THE OWNER/ FRANCHISE FOR THE QUANTITIES AND LOCATIONS OF THE LOW VOLTAGE SYSTEM DEVICES (CAMERA, CARD READER, WIRELESS ACCESS POINT, ETC.) AND PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE WIRING, POWER SUPPLY FOR THE DEVICES AS PER THE MANUFACTURER SPECIFICATIONS/ INSTALLATION GUIDELINES.
3. CONTRACTOR HAVE TO INSTALL APPROVED MOBILE KEY CERTIFIED RFID LOCK SYSTEM WITH BLUETOOTH LOW ENERGY (BLE) KEY READER ON ALL DOORS INCLUDING, BUT NOT LIMITED TO, GUESTROOM ENTRIES, GUEST ACCESSED FACILITIES, EXTERIOR ENTRANCES, PARKING, MEETING SPACES, AND BACK OF HOUSE DOORS AT THE FRONT DESK/CHECK–IN STATION, AND FRONT OFFICE. VERIFY WITH ELV CONTRACTOR AND DOOR CONTRACTOR TO PROVIDE ELECTRIC STRIKE WHERE REQUIRED.

NOTES FOR FIRE SMOKE DAMPER:

1. CONTRACTOR SHALL PROVIDE J–BOXES FOR FIRE SMOKE DAMPERS AT 2ND FLOOR, CONNECT TO L2.B–33, USING 2#12, 1/2"c.".

KEY NOTES:

1. THE PANELBOARD SHALL BE LOCKABLE AND ACCESSIBLE TO QUALIFIED PERSONS ONLY. FIELD VERIFICATION OF THE BEST LOCATION OF ELECTRICAL PANELS PRIOR TO INSTALLATION. THE LOCATION OF ELECTRICAL PANELS MUST COMPLY WITH 110.26 AND 240.24 OF THE NEC.
2. INDOOR UNIT POWERED FROM OUTDOOR UNIT.
3. TELEPHONE BOARD
4. SECURITY BOARD
5. CABLE TV BOARD

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JAN. 15, 2026

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No. 83005
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DUNG VU,
Ph.D, P. E, LEED AP

Project #:	2502
Issue Date:	01–15–2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Tanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

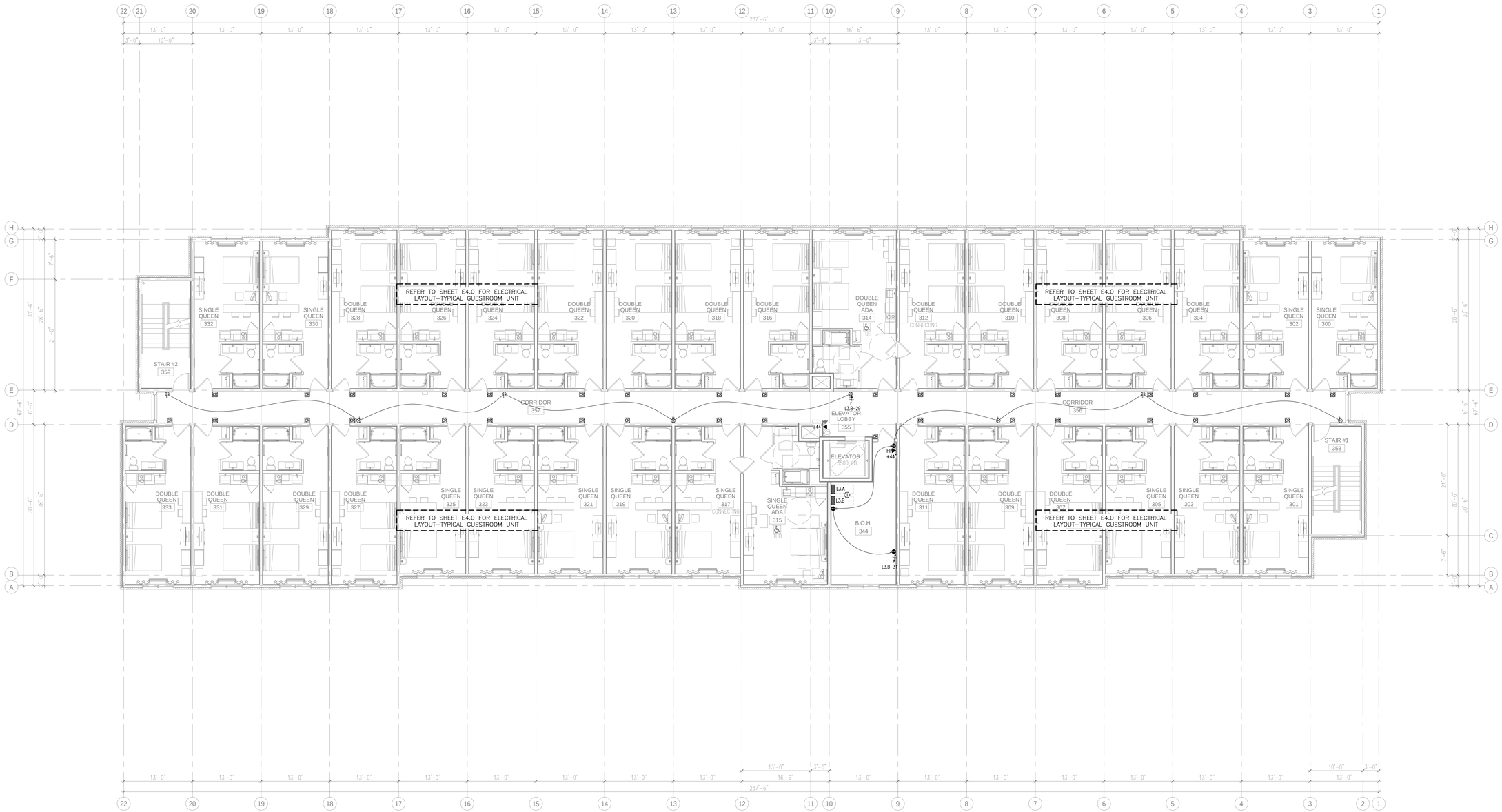
Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
POWER
SECOND FLOOR PLAN

SHEET NUMBER:
E3.1



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

GENERAL NOTES:

1. FOR HOME RUNS 100 FT OR MORE, THE ELECTRICAL CONTRACTOR HAS TO CHECK THE VOLTAGE DROP AND SELECT THE SUITABLE CABLES TO COMPLY WITH THE MAXIMUM ALLOWED VOLTAGE DROP FOR THE FEEDER CONDUCTOR (3%). THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.
2. THE CONTRACTOR SHALL VERIFY WITH THE OWNER/ FRANCHISE FOR THE QUANTITIES AND LOCATIONS OF THE LOW VOLTAGE SYSTEM DEVICES (CAMERA, CARD READER, WIRELESS ACCESS POINT, ETC.) AND PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE WIRING, POWER SUPPLY FOR THE DEVICES AS PER THE MANUFACTURER SPECIFICATIONS/ INSTALATION GUIDELINES.
3. CONTRACTOR HAVE TO INSTALL APPROVED MOBILE KEY CERTIFIED RFID LOCK SYSTEM WITH BLUETOOTH LOW ENERGY (BLE) KEY READER ON ALL DOORS INCLUDING, BUT NOT LIMITED TO, GUESTROOM ENTRIES, GUEST ACCESSED FACILITIES, EXTERIOR ENTRANCES, PARKING, MEETING SPACES, AND BACK OF HOUSE DOORS AT THE FRONT DESK/CHECK-IN STATION, AND FRONT OFFICE. VERIFY WITH ELV CONTRACTOR AND DOOR CONTRACTOR TO PROVIDE ELECTRIC STRIKE WHERE REQUIRED.

NOTES FOR FIRE SMOKE DAMPER:

1. CONTRACTOR SHALL PROVIDE J-BOXES FOR FIRE SMOKE DAMPERS AT 3RD FLOOR, CONNECT TO L3.B-33, USING 2#12, 1/2"C.".

KEY NOTES:

1. THE PANELBOARD SHALL BE LOCKABLE AND ACCESSIBLE TO QUALIFIED PERSONS ONLY. FIELD VERIFICATION OF THE BEST LOCATION OF ELECTRICAL PANELS PRIOR TO INSTALLATION. THE LOCATION OF ELECTRICAL PANELS MUST COMPLY WITH 110.26 AND 240.24 OF THE NEC.

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JAN. 15, 2026

DUNG D. VU
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No. 83005
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DUNG VU,
Ph.D, P. E, LEED AP

Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Tanes

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Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

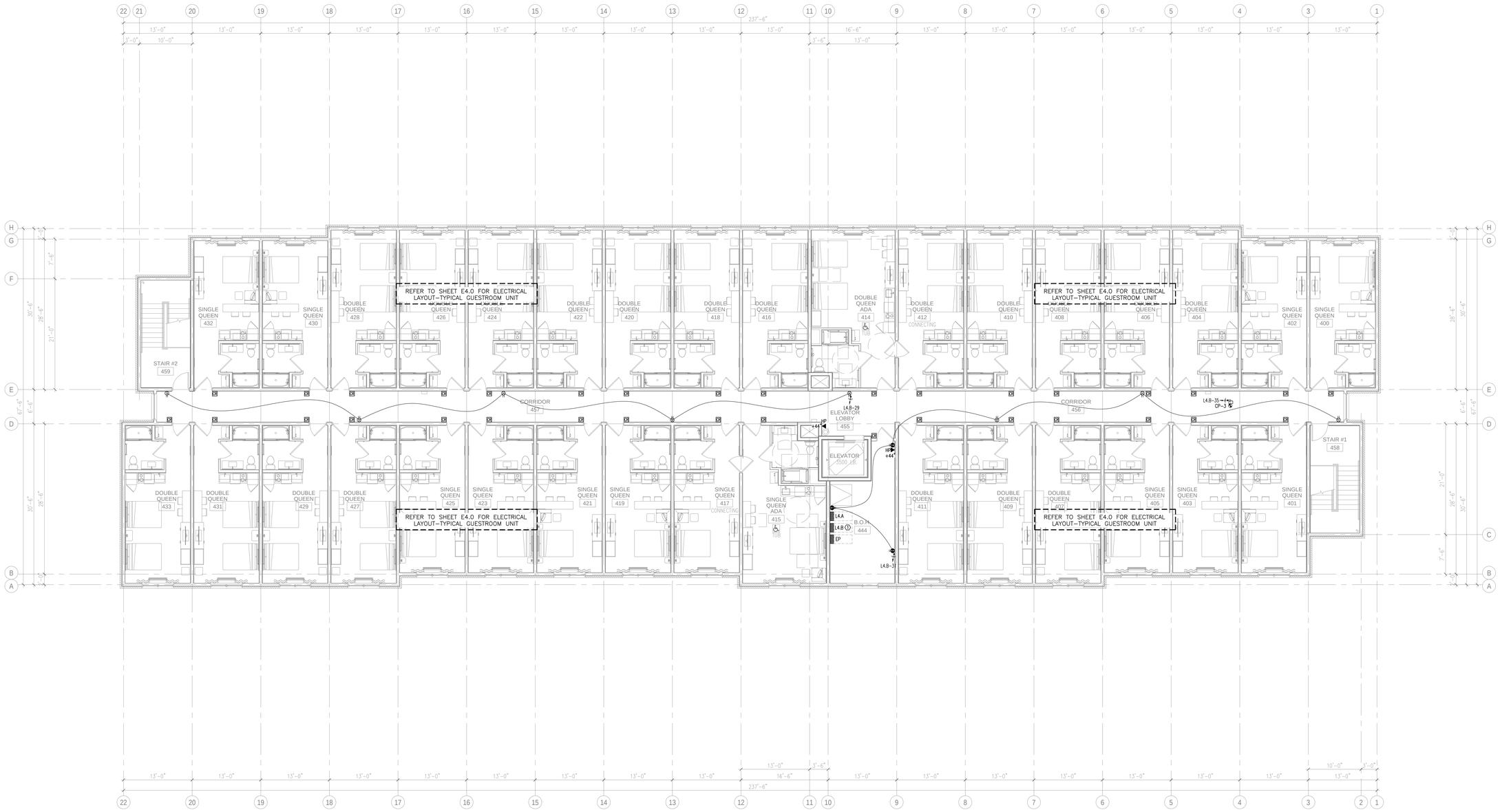
STUDIO**RES**

SHEET TITLE:

POWER
THIRD FLOOR PLAN

SHEET NUMBER:

E3.2



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

GENERAL NOTES:

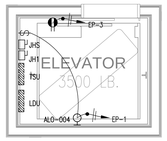
1. FOR HOME RUNS 100 FT OR MORE, THE ELECTRICAL CONTRACTOR HAS TO CHECK THE VOLTAGE DROP AND SELECT THE SUITABLE CABLES TO COMPLY WITH THE MAXIMUM ALLOWED VOLTAGE DROP FOR THE FEEDER CONDUCTOR (3%), THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.
2. THE CONTRACTOR SHALL VERIFY WITH THE OWNER/ FRANCHISE FOR THE QUANTITIES AND LOCATIONS OF THE LOW VOLTAGE SYSTEM DEVICES (CAMERA, CARD READER, WIRELESS ACCESS POINT, ETC.) AND PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE WIRING, POWER SUPPLY FOR THE DEVICES AS PER THE MANUFACTURER SPECIFICATIONS/ INSTALLATION GUIDELINES.
3. CONTRACTOR HAVE TO INSTALL APPROVED MOBILE KEY CERTIFIED RFID LOCK SYSTEM WITH BLUETOOTH LOW ENERGY (BLE) KEY READER ON ALL DOORS INCLUDING, BUT NOT LIMITED TO, GUESTROOM ENTRIES, GUEST ACCESSED FACILITIES, EXTERIOR ENTRANCES, PARKING, MEETING SPACES, AND BACK OF HOUSE DOORS AT THE FRONT DESK/CHECK-IN STATION, AND FRONT OFFICE. VERIFY WITH ELV CONTRACTOR AND DOOR CONTRACTOR TO PROVIDE ELECTRIC STRIKE WHERE REQUIRED.

NOTES FOR FIRE SMOKE DAMPER:

1. CONTRACTOR SHALL PROVIDE J-BOXES FOR FIRE SMOKE DAMPERS AT 4TH FLOOR, CONNECT TO L4.B-33, USING 2#12, 1/2"C.".

KEY NOTES:

1. THE PANELBOARD SHALL BE LOCKABLE AND ACCESSIBLE TO QUALIFIED PERSONS ONLY. FIELD VERIFICATION OF THE BEST LOCATION OF ELECTRICAL PANELS PRIOR TO INSTALLATION. THE LOCATION OF ELECTRICAL PANELS MUST COMPLY WITH 110.26 AND 240.24 OF THE NEC.



NOTES FOR ELEVATOR:

1. DRAWING FOR GUIDELINE ONLY. CONTACT ELEVATOR SUPPLIERS TO VERIFY ALL POWER REQUIREMENTS PRIOR TO INSTALLATION
2. PROVIDE MOTOR CONTROL (TSU) LOCATED AT THE TOP OF THE HOISTWAY
3. PROVIDE INSPECTION & TEST PANEL (LDU) LOCATED WITHIN THE DOOR JAMB AT FLOOR 4TH.
4. CONTRACTORS TO SUPPLY AND INSTALL THE FOLLOWING EQUIPMENT (AND WIRING/CONDUIT) PER ELEVATOR REQUIREMENTS:
   a. FUSIBLE DISCONNECT (JH) WITH AUXILIARY CONTACT & SHUNT TRIP, FOR ELEVATOR SYSTEM.
   b. FUSIBLE DISCONNECT (JH1) WITH AUXILIARY CONTACT, FOR MOTOR CONTROL.
   c. NON-FUSIBLE DISCONNECT (JHS) WITH AUXILIARY CONTACT, FOR INSPECTION & TEST PANEL (LDU).
   d. DISCONNECTING MEANS (JHL) FOR AUXILIARY POWER AND LIGHTING.
   e. OVERCURRENT PROTECTIVE DEVICES WITHIN JH AND JH1.
   f. GROUND FAULT PROTECTION, AS REQUIRED PER NEC 620-61.

2 ENLARGED ELEVATOR CONTROL (LOCATED ON A TOP OF ELEVATOR SHAFT)
SCALE: 1/4"=1'-0"

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JAN. 15, 2026

DUNG D. VU
LICENSED
No. 83005
PROFESSIONAL ENGINEER
STATE OF FLORIDA

DUNG VU,
Ph.D, P. E, LEED AP

Project #: 2502
Issue Date: 01-15-2026
Principal Architect: Sid Parekh
Sr Project Architecture Tech: Marco T. Tanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

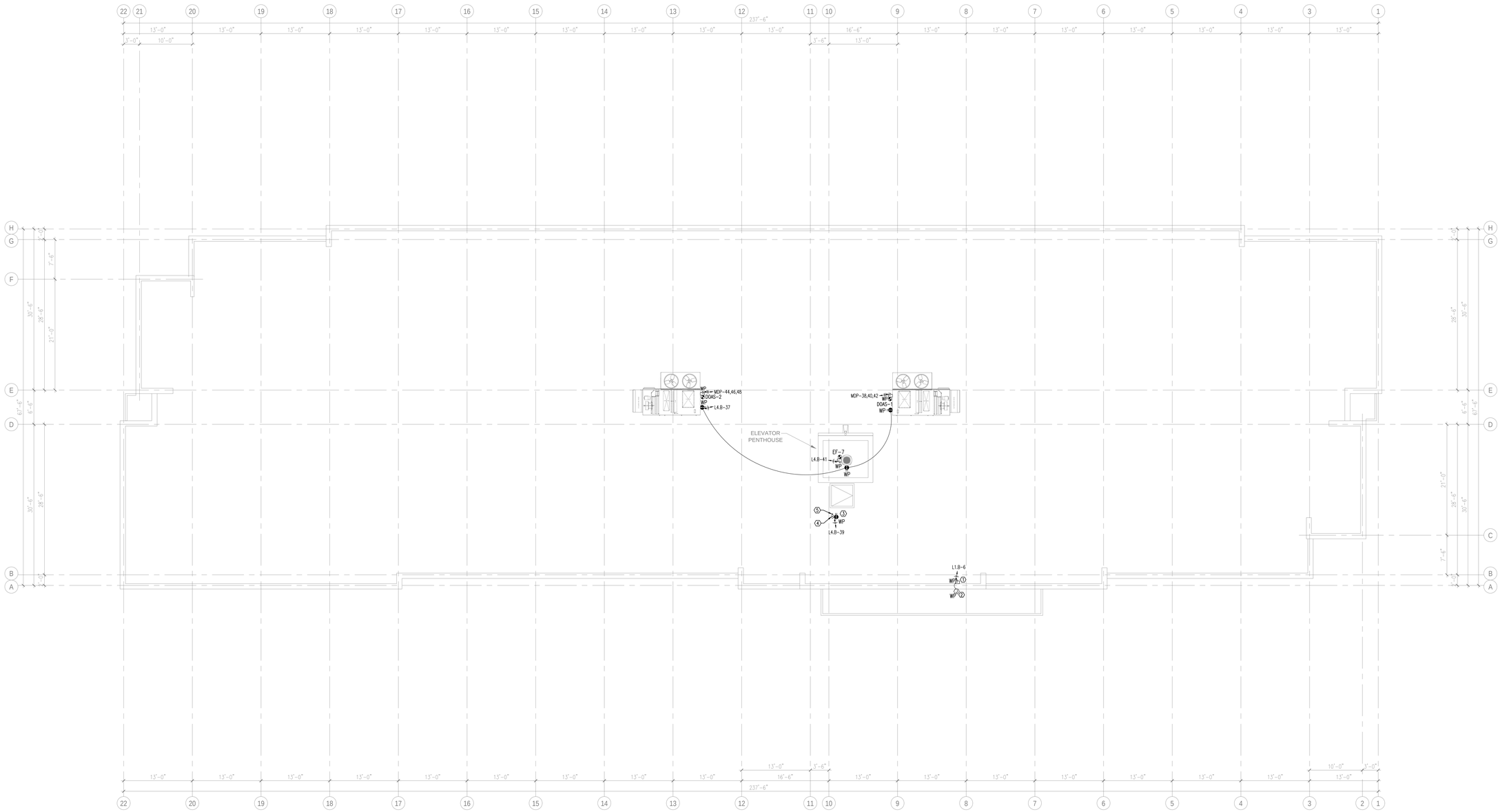
Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
POWER
FOURTH FLOOR PLAN

SHEET NUMBER:
E3.3



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

GENERAL NOTES:

1. FOR HOME RUNS 100 FT OR MORE, THE ELECTRICAL CONTRACTOR HAS TO CHECK THE VOLTAGE DROP AND SELECT THE SUITABLE CABLES TO COMPLY WITH THE MAXIMUM ALLOWED VOLTAGE DROP FOR THE FEEDER CONDUCTOR (3%). THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5 PERCENT.
2. THE CONTRACTOR SHALL VERIFY WITH THE OWNER/ FRANCHISE FOR THE QUANTITIES AND LOCATIONS OF THE LOW VOLTAGE SYSTEM DEVICES (CAMERA, CARD READER, WIRELESS ACCESS POINT, ETC.) AND PROVIDE ALL NECESSARY ACCESSORIES TO COMPLETE THE WIRING, POWER SUPPLY FOR THE DEVICES AS PER THE MANUFACTURER SPECIFICATIONS/ INSTALLATION GUIDELINES.
3. CONTRACTOR HAVE TO INSTALL APPROVED MOBILE KEY CERTIFIED RFID LOCK SYSTEM WITH BLUETOOTH LOW ENERGY (BLE) KEY READER ON ALL DOORS INCLUDING, BUT NOT LIMITED TO, GUESTROOM ENTRIES, GUEST ACCESSED FACILITIES, EXTERIOR ENTRANCES, PARKING, MEETING SPACES, AND BACK OF HOUSE DOORS AT THE FRONT DESK/CHECK-IN STATION, AND FRONT OFFICE. VERIFY WITH ELV CONTRACTOR AND DOOR CONTRACTOR TO PROVIDE ELECTRIC STRIKE WHERE REQUIRED.

KEY NOTES:

1. DISCONNECT FOR SIGN. VERIFY LOCATION PRIOR TO INSTALLATION.
2. LOCATION FOR SIGN CONNECTION. VERIFY LOCATION AND POWER REQUIREMENT WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
3. RECEPTACLES FOR FUTURE SOLAR COMMUNICATIONS EQUIPMENT.
4. PROVIDE (2)4" CONDUIT FROM MAIN ELECTRICAL ROOM TO ROOF FOR FUTURE SOLAR CABLING, INCLUDE PULL STRING WITH LABEL "FUTURE SOLAR FEEDERS". VERIFY LOCATION ON SITE PRIOR TO INSTALLATION.
5. PROVIDE (1)1" CONDUIT FROM TELECOM/ DATA ROOM TO ROOF FOR FUTURE SOLAR COMMUNICATIONS CABLING, INCLUDE PULL STRING WITH LABEL "FUTURE SOLAR COMMS". VERIFY LOCATION ON SITE PRIOR TO INSTALLATION.

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JAN. 15, 2026

DUNG D. VU
LICENSED
No. 83005
STATE OF FLORIDA
ARCHITECT
DUNG VU,
Ph.D, P.E, LEED AP

Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Tones

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

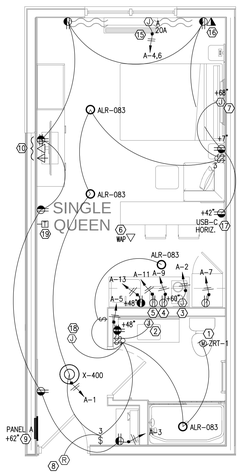
Panama City Beach, FL

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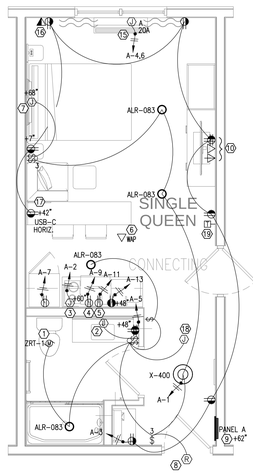
STUDIO**RES**

SHEET TITLE:
POWER
ROOF PLAN

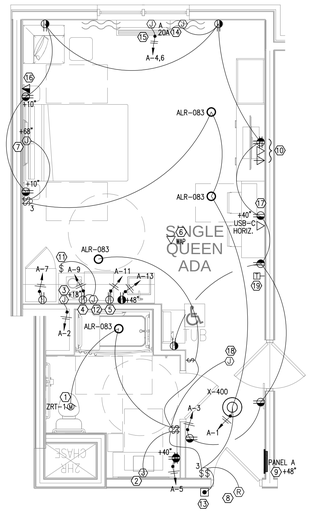
SHEET NUMBER:
E3.4



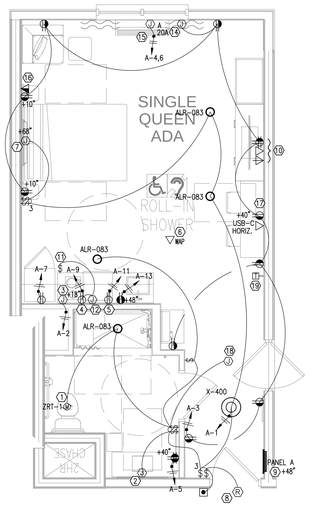
1 SINGLE QUEEN
SCALE: 1/4"=1'-0"



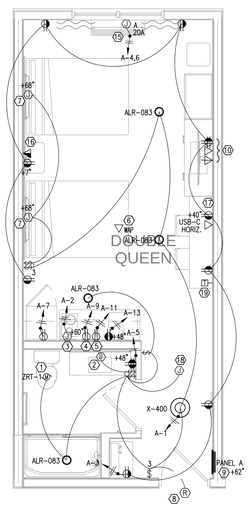
2 SINGLE QUEEN CONNECTING
SCALE: 1/4"=1'-0"



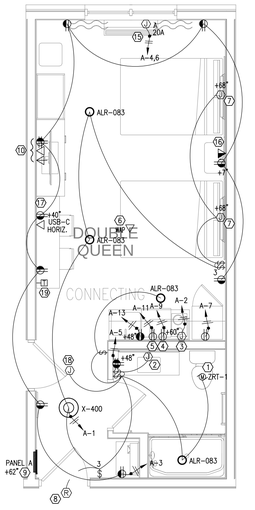
3 SINGLE QUEEN ADA (TUB)
SCALE: 1/4"=1'-0"



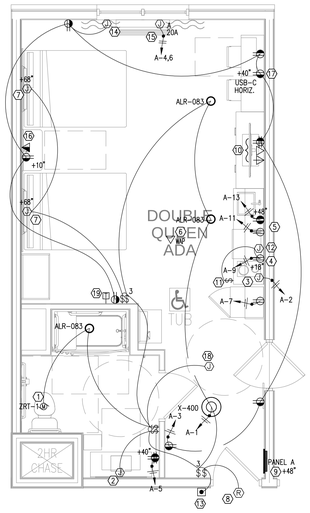
4 SINGLE QUEEN ADA (ROLL-IN SHOWER)
SCALE: 1/4"=1'-0"



5 DOUBLE QUEEN
SCALE: 1/4"=1'-0"



6 DOUBLE QUEEN CONNECTING
SCALE: 1/4"=1'-0"



7 DOUBLE QUEEN ADA
SCALE: 1/4"=1'-0"

NOTES FOR COORDINATION WITH FA SYSTEM

1. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM PLAN /FIRE ALARM CONTRACTOR TO PROVIDE POWER SUPPLY FOR GUESTROOM FIRE ALARM DEVICES WHERE REQUIRED.
2. VERIFY WITH THE OWNER FOR THE SCOPE OF WORK.

SET-BACK TV BOX DIMENSIONS:

a. ENSEO SET-BACK BOX IS APPROXIMATELY 1"x5"x6"

b. LG SET-BACK BOX IS APPROXIMATELY 1.5"x7"x8"

NOTES:

A. THE RECEPTACLE OUTLETS IN HOTEL GUESTROOM /GUEST SUITE UNITS MUST BE INSTALLED IN ACCORDANCE WITH SECTION 210.52 (A) AND (D). ADDITIONAL RECEPTACLES MAY BE REQUIRED BY THE FIELD INSPECTOR DEPENDING ON ROOM LAYOUT AND FURNITURE ARRANGEMENT TO ENSURE FULL CODE COMPLIANCE.

B. REFER TO NOTE #1 ON PACKAGED TERMINAL AIR CONDITIONER SCHEDULES ON M1.1 FOR INSTALLING ELECTRICAL OUTLETS FOR PTACs.

C. ALL 120V NON-LOCKING RECEPTACLES IN GUEST ROOMS AND GUEST BATHROOMS SHALL BE TAMPER PROOF.

D. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL EQUIPMENTS WITH ARCHITECTURAL DRAWINGS & ID/FRANCHISE PRIOR TO INSTALLATION.

E. PROVIDE ARC FAULT BREAKER FOR BRANCH CIRCUITS TO COMPLY WITH ARTICLE 210.12(A).

F. MAXIMUM BOX SIZE IN A FIRE-RATED WALL SHALL BE 4" X 4" SQUARE. DO NOT INSTALL BOXES BACK TO BACK IN WALLS. IN NONFIRE-RATED AND NONACOUSTIC- RATED WALLS, PROVIDE NOT LESS THAN 6 INCHES (150-MM) HORIZONTAL SEPARATION BETWEEN BOXES INSTALLED IN OPPOSITE SIDES OF WALL. PROVIDE NOT LESS THAN 24 INCHES (610-MM) HORIZONTAL SEPARATION BETWEEN BOXES INSTALLED IN OPPOSITE SIDES OF FIRE-RATED AND ACOUSTIC- RATED WALLS. IN CASE IF THE BACK TO BACK BOXES MUST BE INSTALLED, THE CONTRACTOR SHALL FURNISH AND INSTALL AN APPROPRIATE FIRE PUTTY PADS.

G. WALL OUTLETS SHALL NOT OCCUR IN SAME WALL CAVITY OF ADJACENT GUESTROOMS.

H. OUTLETS FOR TV, CABLE AND POWER FOR TV TO BE MOUNTED IN OPENING OF WALL MOUNTED TV PANEL.

I. THE CONTRACTOR HAS TO DOUBLE-CHECK THE NUMBERS AND POSITION OF THE HEARING-IMPAIRED AND ADA /ACCESSIBLE ROOMS ON THE ARCHITECTURAL PLANS. THE CONTRACTOR SHALL INSTALL ALL ELECTRICAL DEVICES ACCORDING TO THE FRANCHISE AND CODE REQUIREMENTS.

J. PROVIDE GFCI PROTECTION FOR BRANCH CIRCUITS TO COMPLY WITH ARTICLE 210.8(A).

K. PROVIDE ELECTRICAL MOCK-UP OF ONE ROOM OF EACH GUEST ROOM TYPE FOR OWNER, FRANCHISE, INTERIOR DESIGNER AND CITY INSPECTOR APPROVAL PRIOR TO PROCEEDING WITH ALL ROOMS.

L. VERIFY WITH THE FRANCHISE /OWNER IF THERE IS A REQUIREMENT FOR AN LED NIGHTLIGHT FOR THE BATHROOM.

M. ADDITIONAL OCCUPANCY SENSORS (COMPATIBLE WITH THERMOSTAT), ARE REQUIRED FOR THE GUESTROOMS IN WHICH THE DETECTION RANGE OF THE THERMOSTAT – WITH BUILT-IN OCCUPANCY SENSOR – IS NOT SUFFICIENT TO DETECT THE GUESTS STAYING IN THE ROOM. PLEASE VERIFY THE LOCATION AND QUANTITY OF THE OCCUPANCY SENSORS WITH THE SMARTCON SOLUTIONS PRIOR TO INSTALLATION.

N. ELECTRICAL PANELS IN GUESTROOMS ARE LOCKABLE TO PREVENT GUESTS FROM ACCESSING THE BREAKERS. ELECTRICAL PANELS MUST BE LOCATED PER THE CEC 240.24 REQUIREMENTS. THE ELECTRICAL CONTRACTOR HAS TO VERIFY THE LOCATIONS PRIOR TO INSTALLATION.

O. THE CONTRACTOR MUST VERIFY WITH THE FRANCHISE (OR PROTOTYPE PLANS), I.D, AND THE OWNER TO PROVIDE POWER FOR ROLLING SHADES OF WINDOWS IF REQUIRED.

P. SWITCHED/ CONTROLLED RECEPTACLES THAT ARE CONTROLLED BY AN AUTOMATIC CONTROL DEVICE (LIKE AN OCCUPANCY SENSOR OR TIMER) MUST BE COMPLETED WITH A PERMANENTLY MARKED WITH THE WORD "CONTROLLED" TO DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES PER NEC 406.3(E).

KEYED NOTES:

1. ZRT-1 WILL RUN INTERLOCK WITH THE THERMOSTAT WITH BUILT-N OCCUPANCY SENSOR OF THE GUESTROM LIGHTING/HVAC CONTROL SYSTEM. VERIFY WITH MECHANICAL PLAN PRIOR TO INSTALLATION.
2. J. BOX FOR VANITY MIRROR LIGHTING. VERIFY LOCATION WITH ARCHITECTURAL PLAN/ FRANCHISE PRIOR TO INSTALLATION.
3. J. BOX FOR HARDWIRED COOKTOP/ RANGE. VERIFY LOCATION WITH ARCHITECTURAL PLAN/ FRANCHISE PRIOR TO INSTALLATION.
4. RCPTS FOR MICROWAVE. VERIFY LOCATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
5. RCPTS FOR DISHWASHER. VERIFY LOCATION WITH ARCHITECTURAL PLAN/ FRANCHISE PRIOR TO INSTALLATION.
6. WIRELESS ACCESS POINT LOCATION ABOVE GUESTROOM CEILING IN ACCESSIBLE LOCATION. VERIFY LOCATION WITH ARCHITECTURAL PLAN/ FRANCHISE PRIOR TO INSTALLATION.
7. J. BOX FOR WALL MOUNTED LIGHT FIXTURE. VERIFY LOCATION WITH ARCHITECTURAL PLAN/ FRANCHISE PRIOR TO INSTALLATION.
8. ZETTLER RELAY #AZ2280 (OR APPROVED EQUAL) TO BE WIRED ABOVE ACCESSIBLE CEILING IN CORRIDOR. VERIFY LOCATION WITH ARCHITECTURAL PLAN & FRANCHISE PRIOR TO INSTALLATION.
9. ELECTRIC PANEL TO BE PAINTED SAME COLOR AS SURROUNDING WALL. INSTALL AS CLOSE AS POSSIBLE TO THE ENTRY DOOR WALL.
10. PROVIDE DATA, TV, CABLE AND QUAD DEDICATED TO TELEVISION. MOUNT BEHIND UNIT IN A CONCEALED LOCATION.
11. SWITCH TO CONTROL RANGE HOOD.
12. J.BOX FOR RANGE HOOD. VERIFY LOCATION WITH ARCHITECTURAL PLAN/ FRANCHISE PRIOR TO INSTALLATION.
13. DOORBELL PUSH BUTTON AND ON/OFF SWITCH FOR COMMUNICATION FEATURE ROOMS ONLY – SIGNAGE AS REQUIRED.
14. PROVIDE J.BOX FOR MOTORIZED WINDOW COVERING IN ADA ROOM. POWER FOR MOTORIZED WINDOW SHADES IN ACCESSIBLE GUESTROOMS MUST BE HARD-WIRED AND CONCEALED WITHIN THE WINDOW FRAMING. VISIBLE PLUGS/CORDS NOT ALLOWED. VERIFY REQUIREMENT & LOCATION WITH ARCHITECTURAL/ID PLAN PRIOR TO INSTALLATION.
15. J.BOX FOR PTAC TO BE LOCATED TO THE RIGHT AND AS CLOSE TO PTAC UNIT AS POSSIBLE WITH HORIZONTAL ORIENTATION. POWER CORD TO BE ORIENTATED LEADING TO PTAC, WITH EXCESS CORD TO BE STORED IN PTAC COMPARTMENT. CLIP CORD TO WALL WITH WHITE PLASTIC CORD CLIPS SECURED TO WALL WITH DRYWALL SCREWS.
16. OPTIONAL PHONE OUTLET AT NIGHTSTAND.
17. PROVIDE USB-C COMPATIBLE OUTLET & DATA MOUNTED HORIZONTALLY.
18. J.BOX FOR MOTORIZED DAMPER: VERIFY THE LOCATION, CONTROL & ALL REQUIREMENTS WITH THE LATEST MECHANICAL PLAN PRIOR TO INSTALLATION.
19. THERMOSTAT WITH BUILT-IN OCCUPANCY SENSOR. VERIFY WITH FRANCHISE FOR THE APPROVED MANUFACTURERS LIST AND ALL REQUIREMENTS PRIOR TO INSTALLATION. (SEE THE NOTE FOR GRMS IN THIS SHEET FOR DETAILS)

PANEL A (TYPICAL)

☒ NEUTRAL ☒ GROUND

10K AIC. MOUNTING: ☒ FLUSH BUS: 100 AMP

LOCATION ENTRANCE

120/208 VOLTS, 1 PH, 3W, NEMA 1

____ AMP MCB 100 AMP MLO

	LOAD DESCRIPTION	LOAD VA	WIRE #	BRKR SIZE	CKT No.	CKT No.	BRKR SIZE	WIRE #	LOAD VA	LOAD DESCRIPTION	
3	LIGHTS + RCPTS	1	12	20/1	1	2	30/1	10	1	COOKTOP	4
3	CONVENIENCE. RCPTS	|	|	20/1	3	4	20/2	12	|	PTAC	2
3	BATH RCPTS	|	|	20/1	5	6	↓	↓	↓	↓	
4 3	REFRIGERATOR	|	|	20/1	7	8	20/1	|	|	SPARE	3
3	MICROWAVE/HOOD	|	|	20/1	9	10	20/1	|	|	|	1
5 3	DISHWASHER	|	|	20/1	11	12	20/1	|	|	|	1
3	KITCHEN APPLIANCES	↓	↓	20/1	13	14	20/1	|	|	|	3
3	SPARE	|	|	20/1	|	16	20/1	|	|	↓	3

NOTES FOR PANEL:

1. SEE GUESTROOM LOAD ANALYSIS FOR DIFFERENT TYPES OF GUESTROOM, E1.0
2. INDICATES 'HACR' RATED CIRCUIT BREAKER WHERE REQUIRED BY CODES.
3. INDICATES ARC-FAULT BREAKERS WHERE REQUIRED BY CODES.
4. INDICATES GFCI BREAKER WHERE REQUIRED BY CODES.
5. INDICATES CLASS-A GFCI BREAKER WHERE REQUIRED BY CODES.
6. PROVIDE A SURGE-PROTECTION DEVICE AT GUESTROOM PANEL TO COMPLY WITH NEC 230.67.

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JAN. 15, 2026

DUNG VU,
Ph.D. P.E. LEED AP

Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

Panama City Beach, FL

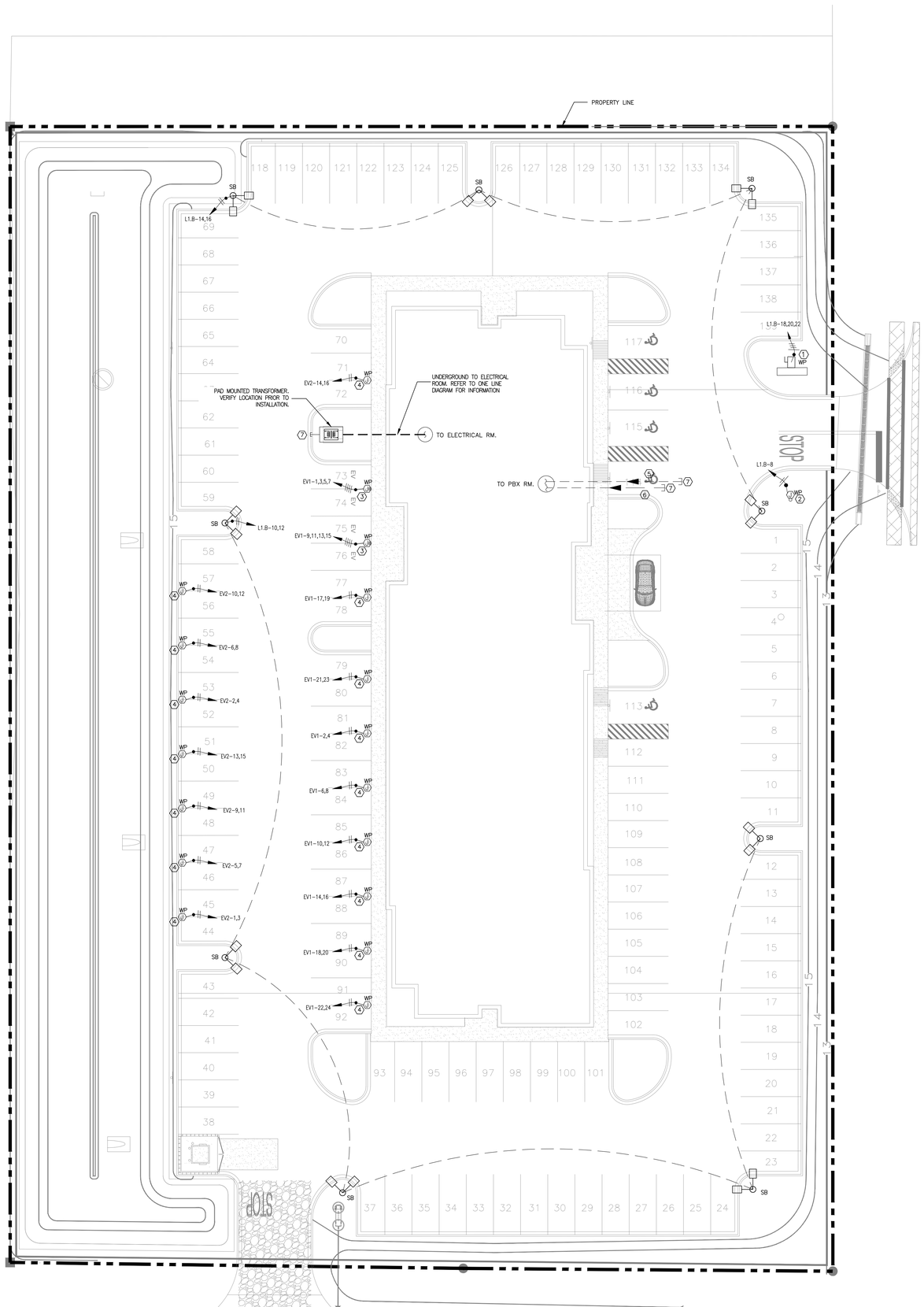
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STUDIO**RES**

SHEET TITLE:
ELECTRICAL TYPICAL GUESTROOM PLAN

SHEET NUMBER:

E4.0



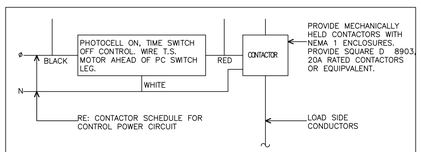
1 ELECTRICAL SITE PLAN
SCALE: 1/16"=1'-0"

GENERAL SITE NOTES:

1. FOR PARKING LOT LIGHTING CONTROL DIAGRAM SEE #2, E5.0
2. PROVIDE METER AND CT'S PER UTILITY CO. SPECIFICATIONS.
3. INSTALL PAD MOUNTED TRANSFORMER PER UTILITY CO. SPECIFICATIONS. COORDINATE ALL OTHER REQUIREMENTS WITH LOCAL UTILITY CO.
4. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL UTILITY SERVICES TO THE BUILDING WITH THEIR RESPECTIVE PROVIDERS. FAILURE TO DO SO WILL NOT RESULT IN ANY EXTRA FINANCIAL COMPENSATION FROM THE OWNER. CONTRACTOR SHALL HAVE ALL UTILITY SERVICE REQUIREMENTS IN THE BASE BID.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR BACK FILLING, TRENCHING AND SITE RESTORATION, THE SELECT BACKFILL MATERIAL MUST NOT CONTAIN ANY SHARP OR FOREIGN OBJECTS.
6. THE ELECTRICAL CONTRACTOR SHALL COORDINATE AS NECESSARY ALL UNDERGROUND LOCATIONS WITH OTHER TRADES PRIOR TO DIGGING BEING DONE.
7. THE CONTRACTOR SHALL INCLUDE IN THE BID ALL ELECTRIC UTILITY FEES TO PROVIDE ELECTRICAL SERVICE TO THE PROJECT.
8. SCREEN GROUND-LEVEL EQUIPMENT FROM VIEW. ELECTRICAL BOXES OR METERS SHOULD BE SCREENED AS MUCH AS POSSIBLE, PROVIDED SUCH SCREENING MEETS LOCAL CODE.
9. SCREEN ALL WIRING AND ELECTRICAL CONDUIT FROM VIEW, EXCEPT ELECTRICAL, TELEPHONE, AND CABLE TELEVISION SERVICE FROM THE STREET TO THE BUILDING.
10. THE CONTRACTOR SHALL VERIFY THE BEST LOCATION /ROUTING FOR ALL UNDERGROUND CONDUITS /CABLES PRIOR TO INSTALLATION.

KEY NOTES:

1. DISCONNECT FOR MONUMENT SIGN. VERIFY LOCATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
2. J.BOX FOR FLAG POLE. VERIFY LOCATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
3. J.BOX FOR DUAL ELECTRIC VEHICLE CHARGERS. CONTRACTOR SHALL VERIFY LOCATION WITH THE CIVIL ENGINEERING/ OWNER PRIOR INSTALL 1-1/2" CONDUIT FOR THE FUTURE ELECTRIC VEHICLE CHARGERS. THOSE CONDUITS HAVE TO FINISH INTO AN ENCLOSURE, JUNCTION BOX ETC.
4. J.BOX FOR FUTURE ELECTRIC VEHICLE CHARGERS. CONTRACTOR SHALL VERIFY LOCATION WITH THE CIVIL ENGINEERING/ OWNER PRIOR INSTALL 1-1/2" CONDUIT FOR THE FUTURE ELECTRIC VEHICLE CHARGERS. THOSE CONDUITS HAVE TO FINISH INTO AN ENCLOSURE, JUNCTION BOX ETC.
5. PROVIDE (2) 4" SCHEDULE 40 PVC CONDUIT WITH PULL ROPE FOR TELEPHONE SERVICE. ROUTE AT 36" MINIMUM BELOW GRADE AND STUB UP IN TV/VIDEO ROOM.
6. PROVIDE (2) 4" SCHEDULE 40 PVC CONDUIT WITH PULL ROPE FOR CABLE TV SERVICE. ROUTE AT 36" MINIMUM BELOW GRADE AND STUB UP IN TV/VIDEO ROOM.
7. FOR CONTINUATION BY UTILITY. VERIFY LOCATIONS PRIOR TO INSTALLATION.



2 CONTACTOR CONTROL DIAGRAM
SCALE: N.T.S

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JAN. 15, 2026

DUNG VU
Ph.D. P.E. LEED AP

Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

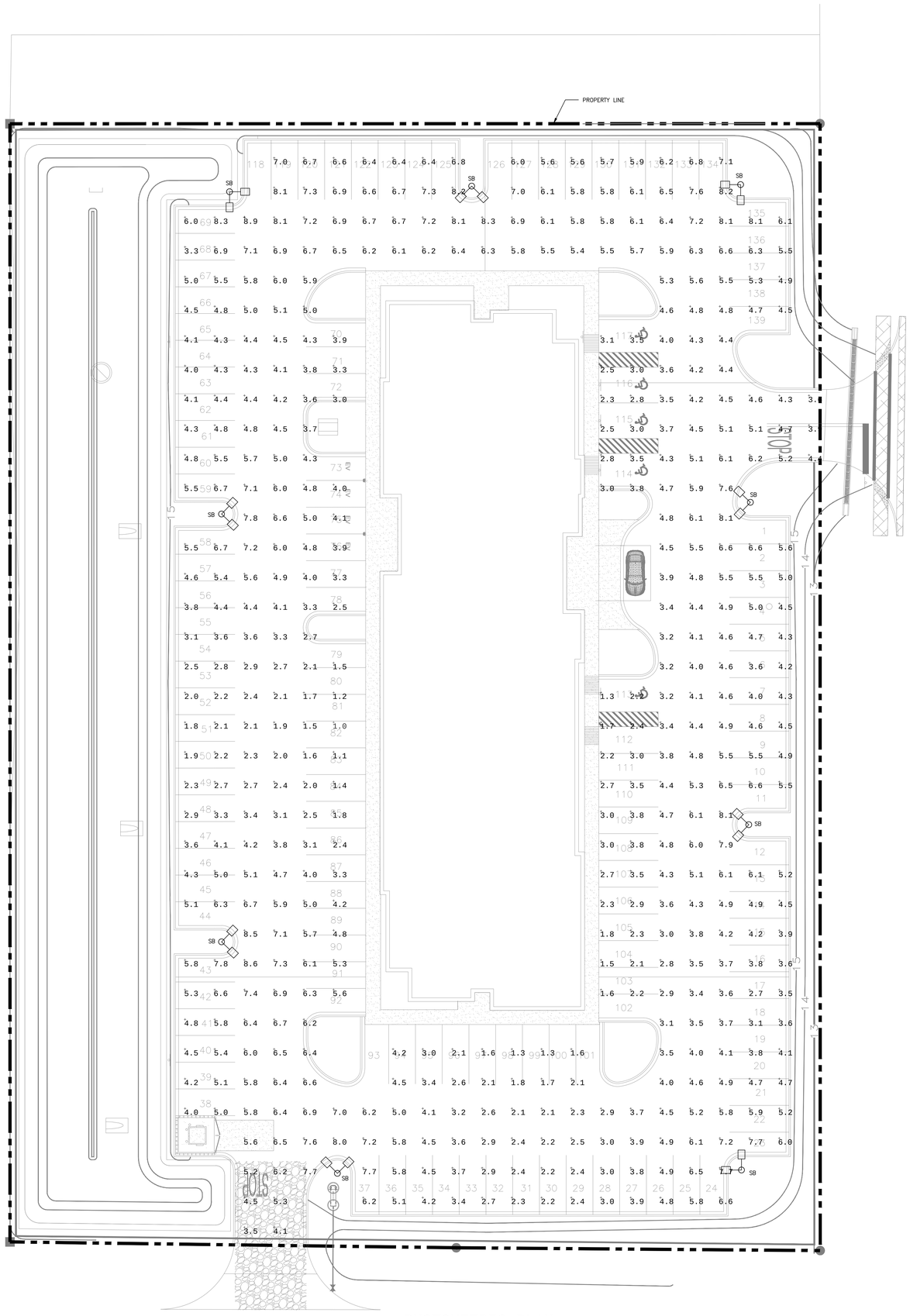
Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
ELECTRICAL SITE PLAN

SHEET NUMBER:
E5.0


PROPERTY LINE
SB
SB
SB

Submitted by JSA on Jun 24, 2024

JSA

Project: JSA Area Lights, Type:
Catalog#:JPL-1-X-X-40K7-UNV-ASA-BRZ
Description/Loc: Area Light Head,Bronze
Qty: 0

JPL-1

AREA, SITE & ROADWAY



LED WATTAGE CHART

1000 milliamps	1SL	1SL	ASL	ASL
	70W	100W	150W	200W

FORM AND FUNCTION
- Sleek, low profile housing
- Spec grade performance
- Engineered for optimum thermal management
- Low depreciation rate
- Reduces energy consumption and costs up to 65%
- Exceeds IES foot candle levels utilizing the least number of poles and fixtures per project
- Optical system designed for:
  - Parking Lots
  - Auto Dealerships
  - General Area Lighting

CONSTRUCTION
- Die Cast Aluminum
- External cooling fins
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP65 seal for electronics compartment
- One-piece Optics Plate™ mounting silicone Micro Optics
- Two-piece silicone Micro Optic system ensures IP67 level seal around each PCB
- Grade 2 Clear Anodized Optics Plate™ standard

FINISH
- 3-5 mils electrostatic powder coat.
- Standard high-quality finishes prevent corrosion, protects against extreme environmental conditions

WARRANTY
Five-year limited warranty for drivers and LEDs.

BUY AMERICAN
To ensure the latest BAA/TAA/BABA Standards are being met, please select BAA, TAA, or BABA in the options section. Please contact the factory before placing an order for any products requesting BAA (Buy American Act), TAA (Trade American Act), or BABA (Build America, Buy America).

Submitted by JSA on Jun 24, 2024

JSA

Project: JSA Area Lights, Type:
Catalog#:JPL-1-X-X-40K7-UNV-ASA-BRZ
Description/Loc: Area Light Head,Bronze
Qty: 0

JPL-1 ORDERING GUIDE

Cat#	Light Dist.	# of LEDs	Milliamps	Kelvin	Volts
JPL-1	(Blank) Type 3 (T3) Type 4 (T4) Type 5 (T5)	(16L) 16 LEDs (28L) 28 LEDs (40L) 40 LEDs	1000 (1)	Amber 590nm (AMBER) 2700K, 80 CRI (27K7) 3000K, 80 CRI (30K8) 3500K, 80 CRI (35K8) 4000K, 80 CRI (40K7) 5000K, 80 CRI (50K7)	(UNV) 120-277V (HV) 347-480V

Mounting	Color	Controls Options	Options	Lens Options
Architectural Sweep Arm (ASA) Direct Pole 2 arm Single (DP2S) Direct Pole 2 arm Double Quad (DP2D) Knuckle Mount (KNU) Wall Mount (WM) Tenon Mount (TM) Tenon Arm Mount (TA) Mast Arm Mount (MA)	Bronze Textured (BRZ) White Textured (WHT) Smooth White Gloss (SWT) Silver Metallic Textured (SIL) Black Textured (BLK) Smooth Black Gloss (GBK) Graphite Textured (GPX) Grey Textured (GRY) Green Textured (GRN) Hunter Green Textured (HGN) Custom (CU)	Nema 7-Pin Receptacle (PE7) Photocell + Receptacle (PCR) Receptacle + Shorting Cap (PER) FSP-211 with Motion Sensor 7' Cable (FSP-2CS) 21' Cable (FSP-2CR) Custom Controls Integration (CUST) Button Type Photocell (PC)	Bird Spikes (BS) Marine Grade Finish (MGF) Optic Plate Painted to Match Fixture (OPP) Quick Mount Bracket (QMB) Retrofit Mount Bracket (RQMB) Round Pole Adaptor Plate (RPA2) Round Pole Adaptor 2-7/8" Slip (RPA3) Rotated Optics (RO) Rotated Optics Right (ROR) Automotive House Side Shield (AHS) House Side Shield (HSS) Black Hardware (BH) Black Color Frame (BKF) Buy American Act (BAA) Trade Agreement Act (TAA) Build America Buy American (BABA)	Glass Lens (GL) HSS Lens (HSS)

Notes:
- Consult Factory for Lead Time. Consult Factory for 5K CRI Requests.
- For Round Pole Specify RPA2 or RPA3.
- Bronze, White, Black and Grey can be painted to match fixture.
- Universal Voltage 120-277
- Universal Voltage 347-480
- 3000K or lower, with fixed mounting options only, must be selected to meet Buy American Act (BAA) requirements.
- Glass Lens: Low iron glass, fully tempered per ANSI C1441 (QCV-2021-07)
- HSS Lens: Clear Sodа/Lime/Silica Frost Glass, Yellow (Spectrum Yellow 1) Tempered per ANSI C1441
- Please contact Factory for Custom Control Integration requests (4-Light, NX, WaveLinx, Crestron, DMX-ROM, Synapse, CasaWiz, Dali II, Ai-On, or Other Control Systems).
- Cannot be used for all BAA/TAA/BABA requests
- Consult Factory for Lead Time
- Not available above 1000mA
- Contact Factory

Submitted by JSA on Jun 24, 2024

JSA

Project: JSA Area Lights, Type:
Catalog#:JPL-1-X-X-40K7-UNV-ASA-BRZ
Description/Loc: Area Light Head,Bronze
Qty: 0

PRODUCT SPECIFICATIONS

ELECTRICAL
- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver
- Class 2 operation at maximum load is < 95, THD
- maximum load is 15%
- LED Drivers Ambient Temp. Min is -40°C and Ambient Temp. Max is 40°C (-40°F to 104°F). Do not use in ambient temps higher. Consult the factory for revalidation by providing the fixture catalog string before quoting and specifying it.
- All internal wiring UL certified for 600 VAC and 105°C
- All drivers, controls, and sensors housed in enclosed
- IP66 rated
- CRI 70, 80 or 90 (Contact factory for 90 CRI)
- Color temperatures: Amber, 2700K, 3000K, 3500K, 4000K, 5000K
- Surge Protection: 20KVA supplied as standard.

CONSTRUCTION
- Die Cast Aluminum
- External cooling fins
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP65 seal for electronics compartment
- One-piece Optics Plate™ mounting silicone Micro Optics
- Two-piece silicone Micro Optic system ensures IP67 level seal around each PCB
- Grade 2 Clear Anodized Optics Plate™ standard

OPTIONS
- BIRD SPIKES (BS) - Offers a practical and humane deterrent for larger bird species and provides a cost-effective long-term solution to nuisance bird infestations and protects your property.
- MARINE GRADE FINISH (MGF) - A multi-step process creating protective finishing coat against harsh environments. Chemically washed in a 5 stage cleaning system. Re-baked, Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer. Baked. Powder coated finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.
- OPTIC PLATE PAINTED TO MATCH FIXTURE (OPP) - Optic plate is clear anodized as standard. The optic plate can be powder coated to match the finish of the fixture.
- QUICK MOUNT BRACKET (QMB) - Optional Cast Aluminum Bracket designed for quick mounting on Square or Round Poles. Cast mounts directly to pole for easily hung fixtures. Has a 2"x4" Drill Pattern.
- RETROFIT MOUNT BRACKET - Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cast mounts directly to pole for easily hung fixtures. Has a 2"x4" Drill Pattern.
- ROUND POLE ADAPTER (RPA) - When using round poles, specify Round Pole Adapter Plate (RPA) for universal drilling when installing on 3"-4" round poles, and RPA3 when installing on 2-7/8" round poles.
- ROTATED OPTICS (RO) (ROR) - Rotated optics are designed for perimeter lighting for auto dealerships.
- SHIELDS (HSS, AHS) - House Side Shield (HSS) is designed for full property line cut-off. Automotive House Side Shield (AHS) is a single-sided shield allowing partial cut-off on either side or front of luminaire.
- BLACK HARDWARE (BH) - Optional black, zinc coated steel hardware.
- BLACK OPTIC FRAME (BOF) - Optional black optic frame. Standard is white.
- GLASS LENS (GL) - Low Iron Glass, fully tempered.
- HIGH PERFORMANCE AMBER LENS (HAL) -

CONTROL OPTIONS
- FSP-211 (FSP-X) - Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contributors.
  - FSP-211 programmable sensor allows configuration remote dusring and transmitting sensor profiles.
  - FSP-30 mounting heights 9-20 feet
  - FSP-40 mounting heights 20-40 feet
  - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field
  - FSP-100 commissioning remote is required to change sensor settings. Please contact factory for ordering.
- NEMA 7-PIN RECEPTACLE (PE7) - An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. The receptacle accommodates two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.
- PHOTOCELL + RECEPTACLE (PCR) - 7-Pin Receptacle and Twist-Lock Photocell for dusk to dawn operation.
- RECEPTACLE + SHORTING CAP (PER) - 7-Pin Receptacle and Shorting Cap.
- Controls Agnostic: Please contact factory for your preferred controls option. (i-Light, NX, WaveLinx, Crestron, DMX/ROM, Synapse, CasaWiz, DALI II, Ai-On, or other control systems)

FINISH
- 3-5 mils electrostatic powder coat.
- Standard high-quality finishes prevent corrosion

protects against and extreme environmental conditions

WARRANTY
Five-year limited warranty for drivers and LEDs.

OPTICS
Silicone optics high thermal stability and light output provide higher powered LEDs with minimized lumen depreciation. UV stability with scratch resistance increases exterior application durability. Silicone optics do not yellow, crack or brittle over time

LISTINGS
- Certified to UL 1598
- cULus
- CSA C22.2 No. 250.0
- DesignLights Consortium® (DLC)
- DesignLights Consortium Premium® (DLCP)
- IP66 Rated
- SG Vibration Rated per ANSI C136.31-2010
- IDA Dark Sky Approved
- IK10 Rated

BUY AMERICAN OPTION
While all of the products listed in this document qualify for the Buy America(n) Act of 1933, we reserve the right to change our listings without notice.

The information provided above is for general informational purposes only. We encourage you to consult legal professionals for advice particular to your projects concerning BAA, TAA, BABA or Buy America.

Submitted by JSA on Jun 24, 2024

JSA

Project: JSA Area Lights, Type:
Catalog#:JPL-1-X-X-40K7-UNV-ASA-BRZ
Description/Loc: Area Light Head,Bronze
Qty: 0

LUMENS

PART NUMBER	NS	LM/W	T2	LM/W	T3	LM/W	T4 ASS	LM/W	T5	LM/W	W
JPL-1-16L-1-50K7	4272	112	4168	110	4084	114	4252	113	4032	72	6440	115	56
JPL-1-16L-1-40K7	4494	118	4832	122	4888	123	4779	121	4256	76	6944	124	56
JPL-1-16L-1-30K8	4272	112	4168	110	4084	114	4252	113	4032	72	6440	115	56
JPL-1-32L-1-50K7	11872	112	11582	110	11356	114	11820	113	11202	72	17890	113	156
JPL-1-32L-1-40K7	12596	116	12932	122	13008	123	12826	121	11856	76	19144	120	156
JPL-1-32L-1-30K8	11720	108	11568	108	11356	108	11642	109	11202	72	17890	114	156
JPL-1-48L-1-50K7	17472	112	17758	110	17768	114	17472	112	17232	72	17940	115	156
JPL-1-48L-1-40K7	18520	118	19712	122	19968	123	18772	120	17856	76	29144	124	235
JPL-1-48L-1-30K8	18720	120	19968	124	20124	124	19872	122	19392	80	30360	130	235
JPL-1-64L-1-50K7	22960	112	22580	110	23376	114	22960	113	14760	73	23576	115	205
JPL-1-64L-1-40K7	25780	126	25972	122	25572	125	24856	121	15580	76	30420	124	205
JPL-1-64L-1-30K8	24600	120	26240	128	26440	129	26026	127	15400	80	29400	130	205

3000K or lower, with fixed mounting options only, must be selected to meet International Dark Sky Association certification.

BUG RATINGS

PART NUMBER	T2	T3	T4	T5
JPL-1-16L-1-50K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	B0-U0-G1
JPL-1-16L-1-40K7	B1-U0-G1	B2-U0-G2	B2-U0-G2	B0-U0-G2
JPL-1-16L-1-30K8	B1-U0-G2	B2-U0-G2	B2-U0-G2	B0-U0-G2
JPL-1-32L-1-50K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	B4-U0-G2
JPL-1-32L-1-40K7	B2-U0-G2	B2-U0-G2	B3-U0-G2	B4-U0-G2
JPL-1-32L-1-30K8	B2-U0-G2	B2-U0-G2	B2-U0-G2	B4-U0-G2
JPL-1-48L-1-50K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G3
JPL-1-48L-1-40K7	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
JPL-1-48L-1-30K8	B3-U0-G3	B3-U0-G3	B3-U0-G3	B5-U0-G3
JPL-1-64L-1-50K7	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
JPL-1-64L-1-40K7	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
JPL-1-64L-1-30K8	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3

LUMENS HSS

PART NUMBER	T2 HSS	LM/W	BUG	T3 HSS	BUG	T4 HSS	LM/W	BUG	W
JPL-1-16L-1HSS-50K7	3888	102	B1-U0-G1	3888	B1-U0-G1	3888	102	B1-U0-G1	56
JPL-1-16L-1HSS-40K7	4088	84	B1-U0-G1	4088	B1-U0-G1	3981	70	B2-U0-G1	56
JPL-1-16L-1HSS-30K8	3888	102	B1-U0-G1	3888	B1-U0-G1	3888	102	B1-U0-G1	56
JPL-1-32L-1HSS-50K7	7776	84	B1-U0-G2	7776	B1-U0-G2	7776	84	B2-U0-G2	96
JPL-1-32L-1HSS-40K7	8176	84	B1-U0-G2	8176	B1-U0-G2	7962	70	B2-U0-G2	96
JPL-1-32L-1HSS-30K8	7776	84	B1-U0-G2	7776	B1-U0-G2	7776	84	B2-U0-G2	96
JPL-1-48L-1HSS-50K7	11664	76	B1-U0-G3	11664	B1-U0-G3	11664	76	B3-U0-G3	156
JPL-1-48L-1HSS-40K7	12264	76	B1-U0-G3	12264	B1-U0-G3	11943	70	B3-U0-G3	156
JPL-1-48L-1HSS-30K8	11664	76	B1-U0-G3	11664	B1-U0-G3	11664	76	B3-U0-G3	156
JPL-1-64L-1HSS-50K7	15552	76	B1-U0-G3	15552	B1-U0-G3	15616	68	B3-U0-G3	204
JPL-1-64L-1HSS-40K7	16352	76	B1-U0-G3	16352	B1-U0-G3	15924	70	B3-U0-G3	204
JPL-1-64L-1HSS-30K8	15552	76	B1-U0-G3	15552	B1-U0-G3	15552	76	B3-U0-G3	204
JPL-1-16L-1HSS-50K7	3888	102	B1-U0-G1	3888	B1-U0-G1	3888	102	B1-U0-G1	56
JPL-1-16L-1HSS-40K7	4088	84	B1-U0-G1	4088	B1-U0-G1	3981	70	B2-U0-G1	56
JPL-1-16L-1HSS-30K8	3888	102	B1-U0-G1	3888	B1-U0-G1	3888	102	B1-U0-G1	56
JPL-1-32L-1HSS-50K7	7776	84	B1-U0-G2	7776	B1-U0-G2	7776	84	B2-U0-G2	96
JPL-1-32L-1HSS-40K7	8176	84	B1-U0-G2	8176	B1-U0-G2	7962	70	B2-U0-G2	96
JPL-1-32L-1HSS-30K8	7776	84	B1-U0-G2	7776	B1-U0-G2	7776	84	B2-U0-G2	96
JPL-1-48L-1HSS-50K7	11664	76	B1-U0-G3	11664	B1-U0-G3	11664	76	B3-U0-G3	156
JPL-1-48L-1HSS-40K7	12264	76	B1-U0-G3	12264	B1-U0-G3	11943	70	B3-U0-G3	156
JPL-1-48L-1HSS-30K8	11664	76	B1-U0-G3	11664	B1-U0-G3	11664	76	B3-U0-G3	156
JPL-1-64L-1HSS-50K7	15552	76	B1-U0-G3	15552	B1-U0-G3	15616	68	B3-U0-G3	204
JPL-1-64L-1HSS-40K7	16352	76	B1-U0-G3	16352	B1-U0-G3	15924	70	B3-U0-G3	204
JPL-1-64L-1HSS-30K8	15552	76	B1-U0-G3	15552	B1-U0-G3	15552	76	B3-U0-G3	204

Submitted by JSA on Jun 24, 2024

JSA

Project: JSA Area Lights, Type:
Catalog#:JP-SSS-4.0-11-XX-BRZ
Description/Loc: Square Steel Pole, Bronze
Qty: 0



Square Straight Steel Poles

Pole Shaft
The pole shaft is one piece construction, being fabricated from a weldable grade carbon steel structural tubing which has a uniform wall thickness of 11 gauge (0.1196"), 7 gauge (0.1793"), or 3 gauge (0.2391"). The pole shaft is fabricated from steel with a minimum yield strength of 55,000 psi. The pole shaft has a full length longitudinal resistance weld and is uniformly square in cross-section with flat sides, small corner radii and excellent torsional properties.

Base Plate
The anchor base is fabricated from structural quality hot rolled carbon steel plate that meets or exceeds a minimum yield strength of 36,000 psi. The anchor base telescopes the pole shaft and is welded around the entire perimeter. All welding is to be performed in accordance with the American Welding Society specification AWS D1.1, latest edition.

Anchor Bolts
Anchor bolts are fabricated from commercial quality hot rolled carbon steel bar that meets or exceeds a minimum yield strength of 55,000 psi. Bolts are furnished with (4) anchor bolt nuts with two regular hex nuts and washers, are furnished and shipped with all poles unless otherwise specified. Anchor bolts shall have the threaded and galvanized a minimum of 9 inches in accordance with ASTM A153. Fully galvanized anchor bolts are available upon request.

Handhole
An oval reinforced gasketed handhole, having a nominal 3" x 5" or 4" x 6-1/2" inside opening, located 1'-4" above base, is standard on all poles. Optional 5" x 8" and 4" x 10" handholes are available (see options). A grounding provision is located inside the handhole ring.

Finishes
Standard Finish is a polyester thermosetting powder coating applied to the surface of the substrate to a minimum of 2 mils for all color finishes, nod zip Galvanized finish to a ASTM A123 specification or primed finish is also available. For optional finishes, see K-KLAD and K-KLAD Over Galvanizing.

FINISHES

Standard		Galvanized		K-KLAD		K-KLAD Over Galvanizing	
BRZ	Bronze	G	Galvanized	KB13	Bronze	KZ13	Bronze
BLK	Black			KB21	Black	KZ21	Black
GRY	Gray			KB41	Gray	KZ41	Gray
GRN	Green			KB91	Green	KZ91	Green
WHT	White			KBB1	White	KZB1	White
P	Primed			KB45	Natural Aluminum	KZ45	Natural Aluminum
NA	Natural Aluminum						
	5 YEAR WARRANTY				5 YEAR WARRANTY		10 YEAR WARRANTY

MOUNTING DESIGNATIONS

Tenon Mount		Drilt Mount		Accessories	
2	2 3/8" x 4" TENON	DM1	Drilled for 1 Luminaire	BC	Base Cover
3	2 7/8" x 4" TENON	DM2@0	Drilled for 2 Luminaires @ 90°	CPL	Threaded Coupling*
3.5	3 1/2" x 4" TENON	DM2@180	Drilled for 2 Luminaires @ 180°	NPL	Threaded Nipple*
4	4" x 6" TENON	DM3	Drilled for 3 Luminaires @ 90°	HOA	Handhole Opening**
		DM4	Drilled for 4 Luminaires @ 90°	LKW	Leave Knock Out Hole
Open Mount				VDS	Vibration Damper Internal
OT	Open Top	Gala Mount			
OTC	Open Top includes Pole Cap	1GS54	(1) CXA	Optional Handholes	
		2GS54	(2) CXA's located on the Same Side	5DHH	5" x 8" Handhole*
		3GS54	(3) CXA's located on the Same Side	410HH	4" x 10" Handhole*
		4GS54	(4) CXA's located on the Same Side		
		2GS84	(2) CXA's located Back to Back	Extra Handholes	
		4GS84	(4) CXA's located Back to Back	X5HH	Extra Handhole*
		1GS59	(1) CXA5Q		
		2GS59	(2) CXA5Q's located on the Same Side	Grounding Pole Options	
		3GS59	(3) CXA5Q's located on the Same Side	E	Embedded Pole
		4GS59	(4) CXA5Q's located on the Same Side	GS	Ground Sleeve
		2GB89	(2) CXA5Q's located Back to Back	CTE	Coal Tar Epoxy
		4GB89	(4) CXA5Q's located Back to Back		
				Additional Dimples	
				1B	1 @ 0° *
				2B	2 @ 180° *
				3B	3 @ 90° *
				4B	4 @ 90° *

* Please advise size, location, and orientation. (Handholes are restricted by size of pole shaft diameter)
** Located 24" above baseplate and same side as handhole. (No electrical included)

Submitted by JSA on Jun 24, 2024

JSA

Project: JSA Area Lights, Type:
Catalog#:JP-SSS-4.0-11-XX-BRZ
Description/Loc: Square Steel Pole, Bronze
Qty: 0

Square Non-Tapered Steel Poles

Catalog Number	Nominal Height	Pole Shaft	Gauge	Handhole Size	Anchor Bolt	Bolt Circle	BB Wind	BB Ice	LSS Wind	Ship Wt.
JP-SSS-(height)-(pole shaft)-(gauge)	10	4.0 x 10.0	11	2 x 5	0.75 x 17 x 2	8	47.8	37.3	28.8	100
	11	4.0 x 10.0	11	2 x 5	0.75 x 30 x 2	8	53	44	35.3	110
	10	5.0 x 10.0	11	2 x 5	1.00 x 36 x 4	11	56	46	34	125
	12	4.0 x 12.0	11	2 x 5	0.75 x 17 x 2	8	33.7	26.7	21.4	120
	12	4.0 x 12.0	7	2 x 5	0.75 x 30 x 2	8	41.6	37.3	29.8	150
	12	5.0 x 12.0	11	2 x 5	1.00 x 36 x 4	11	46	38	29	150
	14	4.0 x 14.0	11	2 x 5	0.75 x 17 x 2	8	27.4	22.8	17	170
	14	4.0 x 14.0	7	2 x 5	0.75 x 30 x 2	8	40	33	24.5	170
	14	5.0 x 14.0	11	2 x 5	1.00 x 36 x 4	11	46	38	29	185
	14	5.0 x 14.0	7	2 x 5	1.00 x 36 x 4	11	63	52	41.5	240
	15	4.0 x 15.0	11	2 x 5	0.75 x 17 x 2	8	23.7	19.7	14.8	180
	15	4.0 x 15.0	7	2 x 5	0.75 x 30 x 2	8	30.9	24.5	19.6	210
	15	5.0 x 15.0	11	2 x 5	1.00 x 36 x 4	11	36	27.5	23	250
	15	5.0 x 15.0	7	2 x 5	1.00 x 36 x 4	11	59	48.5	37	350
	16	4.0 x 16.0	11	2 x 5	0.75 x 17 x 2	8	19.7	14.4	11.2	195
	16	4.0 x 16.0	7	2 x 5	0.75 x 30 x 2	8	27.2	20.7	15	230
	16	5.0 x 16.0	11	2 x 5	1.00 x 36 x 4	11	31.6	24.2	18.5	270
	16	5.0 x 16.0	7	2 x 5	1.00 x 36 x 4	11	54	43	34	360
	18	4.0 x 18.0	11	2 x 5	0.75 x 17 x 2	8	15.4	11.5	8.7	195
	18	4.0 x 18.0	7	2 x 5	0.75 x 30 x 2	8	27.2	20.7	15	270
	18	5.0 x 18.0	11	2 x 5	1.00 x 36 x 4	11	27	19.5	15	310
	18	5.0 x 18.0	7	2 x 5	1.00 x 36 x 4	11	50	39	29	390
	20	4.0 x 20.0	11	2 x 5	0.75 x 17 x 2	8	12.1	8.5	6.5	210
	20	4.0 x 20.0	7	2 x 5	0.75 x 30 x 2	8	23.6	16	11.5	310
	20	5.0 x 20.0	11	2 x 5	1.00 x 36 x 4	11	22.2	15.8	12.8	370
	20	5.0 x 20.0	7	2 x 5	1.00 x 36 x 4	11	39.4	27.5	21.5	510
	20	6.0 x 20.0	7	2 x 5	1.00 x 36 x 4	11.5	56	42.5	33.5	560
	22	4.0 x 22.0	11	2 x 5	0.75 x 17 x 2	8	10.2	6.8	5.2	230
	22	4.0 x 22.0	7	2 x 5	0.75 x 30 x 2	8	12.2	9.2	6	350
	22	5.0 x 22.0	11	2 x 5	1.00 x 36 x 4	11	18.5	13.5	9.9	350
	22	5.0 x 22.0	7	2 x 5	1.00 x 36 x 4	11	30.2	23.3	17.8	510
	22	6.0 x 22.0	7	2 x 5	1.00 x 36 x 4	11.5	49	37.5	29	560
	24	4.0 x 24.0	11	2 x 5	0.75 x 17 x 2	8	8.9	6.1	4.7	250
	24	5.0 x 24.0	11	2 x 5	1.00 x 36 x 4	11	15.3	10.8	7.4	390
	24	5.0 x 24.0	7	2 x 5	1.00 x 36 x 4	11	25.8	18.4	14.9	561
	25	4.0 x 25.0	11	2 x 5	0.75 x 17 x 2	8	7.9	5.4	4.2	270
	25	4.0 x 25.0	7	2 x 5	0.75 x 30 x 2	8	8.9	6.5	5.1	410
	25	5.0 x 25.0	11	2 x 5	1.00 x 36 x 4	11	13.6	9.6	6.5	410
	25	5.0 x 25.0	7	2 x 5	1.00 x 36 x 4	11	23.8	17.7	13.1	573
	25	6.0 x 25.0	7	2 x 5	1.00 x 36 x 4	11.5	39	28.5	21	643
	26	4.0 x 26.0	7	2 x 5	0.75 x 30 x 2	8	6.9	4	3	510
	26	5.0 x 26.0	7	2 x 5	1.00 x 36 x 4	11	22.6	16.5	12.2	585
	26	6.0 x 26.0	7	2 x 5	1.00 x 36 x 4	11.5	37.9	27.5	20.4	661
	28	4.0 x 28.0	7	2 x 5	0.75 x 30 x 2	8	5.9	4	3	530
	28	5.0 x 28.0	11	2 x 5	1.00 x 36 x 4	11	9.8	6.1	3.7	500
	28	5.0 x 28.0	7	2 x 5	1.00 x 36 x 4	11	20.4	13.5	9.3	665
	28	6.0 x 28.0	7	2 x 5	1.00 x 36 x 4	11.5	35.5	25.3	18.5	757
	30	4.0 x 30.0	7	2 x 5	0.75 x 30 x 2	8	5.9	4	3	550
	30	5.0 x 30.0	11	2 x 5	1.00 x 36 x 4	11	9.8	6.1	3.7	555
	30	5.0 x 30.0	7	2 x 5	1.00 x 36 x 4	11	19.4	13.5	9.3	740
	30	6.0 x 30.0	7	2 x 5	1.00 x 36 x 4	11.5	33.1	23.5	16.9	845
	32	5.0 x 32.0	11	2 x 5	1.00 x 36 x 4	11	9.8	6.1	3.7	610
	32	5.0 x 32.0	7	2 x 5	1.00 x 36 x 4	11	19.4	13.5	9.3	815
	32	6.0 x 32.0	7	2 x 5	1.00 x 36 x 4	11.5	31.6	22.1	15.5	933
	35	6.0 x 35.0	7	2 x 5	1.00 x 36 x 4	12	29.7	20.2	13.9	1029
	38	6.0 x 38.0	7	2 x 5	1.00 x 36 x 4	12.5	28	18.9	12.5	1125
	39	6.0 x 39.0	7	2 x 5	1.00 x 36 x 4	12	13	7.4	3.1	814

1 LIGHTING CUT-SHEETS TYPE "SB" & "SC"
SCALE: N.T.S

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JAN. 15, 2026



DUNG VU, Ph.D. P.E. LEED AP

Project #: 2502
Issue Date: 01-15-2026
Principal Architect: Sid Parekh
Sr Project Architecture Tech: Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

Panama City Beach, FL

??? S Thomas Dr. Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
LIGHTING CUT-SHEETS

SHEET NUMBER:

E5.2

PROJECT NAME: StudioRes Marriott - Panama City Beach, FL
PROJECT NUMBER: 2502
PANEL: **L4.A (FED FROM MDP)** A.I.C RATING: 22 KA
VOLTAGE: 120/208V, 3PH, 4W BUS: 300 AMP COPPER MAINS: 300 AMP M.L.O MOUNTING: SURFACE MOUNTED LOCATION: ELECT. ROOM - 4TH FLOOR
NEMA-1

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
SUB	PANEL "A" / 401 - SINGLE QUEEN	(NOTE 1)	1	2	80/2	2	6251	12502			6251	3	80/2	2	2	PANEL "A" / 400 - SINGLE QUEEN		SUB
SUB	↓		3	-	↓	↓	6251		12502		6251	↓	↓	-	4	↓		SUB
SUB	PANEL "A" / 403 - SINGLE QUEEN	(NOTE 1)	5	2	80/2	2	6251			12502	6251	3	80/2	2	6	PANEL "A" / 402 - SINGLE QUEEN		SUB
SUB	↓		7	-	↓	↓	6251	12502			6251	↓	↓	-	8	↓		SUB
SUB	PANEL "A" / 405 - SINGLE QUEEN	(NOTE 1)	9	2	80/2	2	6251		12541		6290	3	80/2	2	10	PANEL "A" / 404 - DOUBLE QUEEN		SUB
SUB	↓		11	-	↓	↓	6251			12541	6290	↓	↓	-	12	↓		SUB
SUB	PANEL "A" / 407 - DOUBLE QUEEN		13	2	80/2	3	6290	12580			6290	3	80/2	2	14	PANEL "A" / 406 - DOUBLE QUEEN		SUB
SUB	↓		15	-	↓	↓	6290		12580		6290	↓	↓	-	16	↓		SUB
SUB	PANEL "A" / 409 - DOUBLE QUEEN		17	2	80/2	3	6290			12580	6290	3	80/2	2	18	PANEL "A" / 408 - DOUBLE QUEEN		SUB
SUB	↓		19	-	↓	↓	6290	12580			6290	↓	↓	-	20	↓		SUB
SUB	PANEL "A" / 411 - DOUBLE QUEEN		21	2	80/2	3	6290		12580		6290	3	80/2	2	22	PANEL "A" / 410 - DOUBLE QUEEN		SUB
SUB	↓		23	-	↓	↓	6290			12580	6290	↓	↓	-	24	↓		SUB
SUB	PANEL "A" / 415 - SINGLE QUEEN ADA (TUB)		25	2	80/2	3	6380	12670			6290	3	80/2	2	26	PANEL "A" / 412 - DOUBLE QUEEN CONNECTING		SUB
SUB	↓		27	-	↓	↓	6380		12670		6290	↓	↓	-	28	↓		SUB
SUB	PANEL "A" / 417 - SINGLE QUEEN CONNECTING		29	2	80/2	3	6251			12672	6421	3	80/2	2	30	PANEL "A" / 414 - DOUBLE QUEEN ADA (TUB)		SUB
SUB	↓		31	-	↓	↓	6251	12672			6421	↓	↓	-	32	↓		SUB
SUB	PANEL "A" / 419 - SINGLE QUEEN		33	2	80/2	3	6251		12541		6290	3	80/2	2	34	PANEL "A" / 416 - DOUBLE QUEEN		SUB
SUB	↓		35	-	↓	↓	6251			12541	6290	↓	↓	-	36	↓		SUB
	SPARE		37	1	20/1			0					80/2	1	38	SPARE		
	↓		39	1	↓				0				↓	1	40	↓		
			41	1						0			20/1	1	42			

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	0	REC = RCPTS LOAD : (N/A)	0
EQUIP	0	EQUIP = EQUIPMENT LOAD : (N/A)	0
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	226335	SUB = SUB PANEL x 38% PF.(FOR 18 UNITS)	86007
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	**226335**		**86007**
AMPS	**629**		**239**

	75.51	75.41	75.42	**CONNECTED PHASE (KVA)**
	629.21	628.45	628.46	**CONNECTED PHASE (AMPS)**
	28.69	28.66	28.66	**DEMAND PHASE (KVA)**
	239.10	238.81	238.82	**DEMAND PHASE (AMPS)**

NOTE: 1 - THE CONDUCTORS HAVE BEEN UPSIZED TO MATCH THE MAXIMUM ALLOWED VOLTAGE DROP PER CODE

GREENS ELECTRIC FOR QUOTES CONTACT BEN @ GREENS: Cell phone: 949-293-5006 Email: quotes@greens.com

PROJECT NAME: StudioRes Marriott - Panama City Beach, FL
PROJECT NUMBER: 2502
PANEL: **L3.B (FED FROM MDP)** A.I.C RATING: 22 KA
VOLTAGE: 120/208V, 3PH, 4W BUS: 300 AMP COPPER MAINS: 300 AMP M.L.O MOUNTING: SURFACE MOUNTED LOCATION: ELECT. ROOM - 3RD FLOOR
NEMA-1

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
SUB	PANEL "A" / 321 - SINGLE QUEEN		1	2	80/2	3	6251	12541			6290	3	80/2	2	2	PANEL "A" / 318 - DOUBLE QUEEN		SUB
SUB	↓		3	-	↓	↓	6251		12541		6290	↓	↓	-	4	↓		SUB
SUB	PANEL "A" / 323 - SINGLE QUEEN		5	2	80/2	3	6251			12541	6290	3	80/2	2	6	PANEL "A" / 320 - DOUBLE QUEEN		SUB
SUB	↓		7	-	↓	↓	6251	12541			6290	↓	↓	-	8	↓		SUB
SUB	PANEL "A" / 325 - SINGLE QUEEN		9	2	80/2	3	6251		12541		6290	3	80/2	2	10	PANEL "A" / 322 - DOUBLE QUEEN		SUB
SUB	↓		11	-	↓	↓	6251			12541	6290	↓	↓	-	12	↓		SUB
SUB	PANEL "A" / 327 - DOUBLE QUEEN	(NOTE 1)	13	2	80/2	2	6290	12580			6290	3	80/2	2	14	PANEL "A" / 324 - DOUBLE QUEEN		SUB
SUB	↓		15	-	↓	↓	6290		12580		6290	↓	↓	-	16	↓		SUB
SUB	PANEL "A" / 329 - DOUBLE QUEEN	(NOTE 1)	17	2	80/2	2	6290			12580	6290	3	80/2	2	18	PANEL "A" / 326 - DOUBLE QUEEN		SUB
SUB	↓		19	-	↓	↓	6290	12580			6290	↓	↓	-	20	↓		SUB
SUB	PANEL "A" / 331 - DOUBLE QUEEN	(NOTE 1)	21	2	80/2	1	6290		12580		6290	2	80/2	2	22	PANEL "A" / 328 - DOUBLE QUEEN	(NOTE 1)	SUB
SUB	↓		23	-	↓	↓	6290			12580	6290	↓	↓	-	24	↓		SUB
SUB	PANEL "A" / 333 - DOUBLE QUEEN	(NOTE 1)	25	2	80/2	1	6290	12541			6251	2	80/2	2	26	PANEL "A" / 330 - SINGLE QUEEN	(NOTE 1)	SUB
SUB	↓		27	-	↓	↓	6290		12541		6251	↓	↓	-	28	↓		SUB
REC	RCPTS - CORRIDOR		29	1	20/1	12	900			7151	6251	1	80/2	2	30	PANEL "A" / 332 - SINGLE QUEEN	(NOTE 1)	SUB
REC	RCPTS - CORRIDOR/ ELEC. / HSKP		31	1	20/1	12	1080	7331			6251	↓	↓	-	32	↓		SUB
EQUIP	FIRE SMOKE DAMPER:		33	1	20/1	12	500		500				80/2	1	34	SPARE		
	SPARE		35	1	20/1					0			↓	1	36			
	↓		37	1	↓			0					20/1	1	38			
			39	1					0				↓	1	40			
			41	1						0				1	42			

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	1980	REC = RCPTS LOAD (100% FIRST 10kW +50% REMAIN)	1980
EQUIP	500	EQUIP = EQUIPMENT LOAD	500
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	188310	SUB = SUB PANEL x 40% PF.(FOR 15 UNITS)	75324
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	**190790**		**77804**
AMPS	**530**		**216**

	70.11	63.28	57.39	**CONNECTED PHASE (KVA)**
	584.28	527.36	478.28	**CONNECTED PHASE (AMPS)**
	28.69	25.61	23.50	**DEMAND PHASE (KVA)**
	239.11	213.44	195.81	**DEMAND PHASE (AMPS)**

NOTE: 1 - THE CONDUCTORS HAVE BEEN UPSIZED TO MATCH THE MAXIMUM ALLOWED VOLTAGE DROP PER CODE

GREENS ELECTRIC FOR QUOTES CONTACT BEN @ GREENS: Cell phone: 949-293-5006 Email: quotes@greens.com

PROJECT NAME: StudioRes Marriott - Panama City Beach, FL
PROJECT NUMBER: 2502
PANEL: **L4.B (FED FROM MDP)** A.I.C RATING: 22 KA
VOLTAGE: 120/208V, 3PH, 4W BUS: 300 AMP COPPER MAINS: 300 AMP M.L.O MOUNTING: SURFACE MOUNTED LOCATION: ELECT. ROOM - 4TH FLOOR
NEMA-1

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
SUB	PANEL "A" / 421 - SINGLE QUEEN		1	2	80/2	3	6251	12541			6290	3	80/2	2	2	PANEL "A" / 418 - DOUBLE QUEEN		SUB
SUB	↓		3	-	↓	↓	6251		12541		6290	↓	↓	-	4	↓		SUB
SUB	PANEL "A" / 423 - SINGLE QUEEN		5	2	80/2	3	6251			12541	6290	3	80/2	2	6	PANEL "A" / 420 - DOUBLE QUEEN		SUB
SUB	↓		7	-	↓	↓	6251	12541			6290	↓	↓	-	8	↓		SUB
SUB	PANEL "A" / 425 - SINGLE QUEEN		9	2	80/2	3	6251		12541		6290	3	80/2	2	10	PANEL "A" / 422 - DOUBLE QUEEN		SUB
SUB	↓		11	-	↓	↓	6251			12541	6290	↓	↓	-	12	↓		SUB
SUB	PANEL "A" / 427 - DOUBLE QUEEN	(NOTE 1)	13	2	80/2	2	6290	12580			6290	3	80/2	2	14	PANEL "A" / 424 - DOUBLE QUEEN		SUB
SUB	↓		15	-	↓	↓	6290		12580		6290	↓	↓	-	16	↓		SUB
SUB	PANEL "A" / 429 - DOUBLE QUEEN	(NOTE 1)	17	2	80/2	2	6290			12580	6290	3	80/2	2	18	PANEL "A" / 426 - DOUBLE QUEEN		SUB
SUB	↓		19	-	↓	↓	6290	12580			6290	↓	↓	-	20	↓		SUB
SUB	PANEL "A" / 431 - DOUBLE QUEEN	(NOTE 1)	21	2	80/2	1	6290		12580		6290	2	80/2	2	22	PANEL "A" / 428 - DOUBLE QUEEN	(NOTE 1)	SUB
SUB	↓		23	-	↓	↓	6290			12580	6290	↓	↓	-	24	↓		SUB
SUB	PANEL "A" / 433 - DOUBLE QUEEN	(NOTE 1)	25	2	80/2	1	6290	12541			6251	2	80/2	2	26	PANEL "A" / 430 - SINGLE QUEEN	(NOTE 1)	SUB
SUB	↓		27	-	↓	↓	6290		12541		6251	↓	↓	-	28	↓		SUB
REC	RCPTS - CORRIDOR		29	1	20/1	12	900			7151	6251	1	80/2	2	30	PANEL "A" / 432 - SINGLE QUEEN	(NOTE 1)	SUB
REC	RCPTS - CORRIDOR/ ELEC / HSKP		31	1	20/1	12	1080	7331			6251	↓	↓	-	32	↓		SUB
EQUIP	FIRE SMOKE DAMPER:		33	1	20/1	12	500		500				20/1	1	34	SPARE		
EQUIP	CIRCULATE PUMP CONTROL PANEL (C.P)		35	1	20/1	12	125			125				1	36			
REC	RCPTS - ROOF		37	1	20/1	12	720	720						1	38			
REC	RCPTS - ROOF		39	1	20/1	12	180		180					1	40			
EQUIP	EF-7		41	1	20/1	12	100			100				1	42			

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	2880	REC = RCPTS LOAD (100% FIRST 10kW +50% REMAIN)	2880
EQUIP	725	EQUIP = EQUIPMENT LOAD	725
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	188310	SUB = SUB PANEL x 40% PF.(FOR 15 UNITS)	75324
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	**191915**		**78929**
AMPS	**533**		**219**

	70.83	63.46	57.62	**CONNECTED PHASE (KVA)**
	590.28	528.86	480.15	**CONNECTED PHASE (AMPS)**
	29.41	25.79	23.72	**DEMAND PHASE (KVA)**
	245.11	214.94	197.69	**DEMAND PHASE (AMPS)**

NOTE: 1 - THE CONDUCTORS HAVE BEEN UPSIZED TO MATCH THE MAXIMUM ALLOWED VOLTAGE DROP PER CODE
2 - VERIFY HPs, BREAKER SIZES, CABLES SIZES FOR THE HVAC EQUIPMENT WITH THE MECHANICAL EQUIPMENT SCHEDULE PRIOR

GREENS ELECTRIC FOR QUOTES CONTACT BEN @ GREENS: Cell phone: 949-293-5006 Email: quotes@greens.com

PROJECT NAME: StudioRes Marriott - Panama City Beach, FL
PROJECT NUMBER: 2502
PANEL: **L2.A (FED FROM MDP)** A.I.C RATING: 22 KA
VOLTAGE: 120/208V, 3PH, 4W BUS: 300 AMP COPPER MAINS: 300 AMP M.L.O MOUNTING: SURFACE MOUNTED LOCATION: ELECT. ROOM - 2ND FLOOR
NEMA-1

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
SUB	PANEL "A" / 201 - SINGLE QUEEN		1	2	80/2	3	6251	12502			6251	3	80/2	2	2	PANEL "A" / 200 - SINGLE QUEEN		SUB
SUB	↓		3	-	↓	↓	6251		12502		6251	↓	↓	-	4	↓		SUB
SUB	PANEL "A" / 203 - SINGLE QUEEN		5	2	80/2	3	6251			12502	6251	3	80/2	2	6	PANEL "A" / 202 - SINGLE QUEEN		SUB
SUB	↓		7	-	↓	↓	6251	12502			6251	↓	↓	-	8	↓		SUB
SUB	PANEL "A" / 205 - SINGLE QUEEN		9	2	80/2	3	6251		12541		6290	3	80/2	2	10	PANEL "A" / 204 - DOUBLE QUEEN		SUB
SUB	↓		11	-	↓	↓	6251			12541	6290	↓	↓	-	12	↓		SUB
SUB	PANEL "A" / 207 - DOUBLE QUEEN		13	2	80/2	3	6290	12580			6290	3	80/2	2	14	PANEL "A" / 206 - DOUBLE QUEEN		SUB
SUB	↓		15	-	↓	↓	6290		12580		6290	↓	↓	-	16	↓		SUB
SUB	PANEL "A" / 209 - DOUBLE QUEEN		17	2	80/2	3	6290			12580	6290	3	80/2	2	18	PANEL "A" / 208 - DOUBLE QUEEN		SUB
SUB	↓		19	-	↓	↓	6290	12580			6290	↓	↓	-	20	↓		SUB
SUB	PANEL "A" / 211 - DOUBLE QUEEN		21	2	80/2	3	6290		12580		6290	3	80/2	2	22	PANEL "A" / 210 - DOUBLE QUEEN		SUB
SUB	↓		23	-	↓	↓	6290			12580	6290	↓	↓	-	24	↓		SUB
SUB	PANEL "A" / 215 - SINGLE QUEEN ADA (R.I.S)		25	2	80/2	3	6380	12670			6290	3	80/2	2	26	PANEL "A" / 212 - DOUBLE QUEEN CONNECTING		SUB
SUB	↓		27	-	↓	↓	6380		12670		6290	↓	↓	-	28	↓		SUB
SUB	PANEL "A" / 217 - SINGLE QUEEN CONNECTING		29	2	80/2	3	6251			12672	6421	3	80/2	2	30	PANEL "A" / 214 - DOUBLE QUEEN ADA (TUB)		SUB
SUB	↓		31	-	↓	↓	6251	12672			6421	↓	↓	-	32	↓		SUB
SUB	PANEL "A" / 219 - SINGLE QUEEN		33	2	80/2	3	6251		12541		6290	3	80/2	2	34	PANEL "A" / 216 - DOUBLE QUEEN		SUB
SUB	↓		35	-	↓	↓	6251			12541	6290	↓	↓	-	36	↓		SUB
	SPARE		37	1	20/1			0					80/2	1	38	SPARE		
	↓		39	1	↓				0				↓	1	40	↓		
			41	1						0			20/1	1	42			

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	0	REC = RCPTS LOAD : (N/A)	0
EQUIP	0	EQUIP = EQUIPMENT LOAD : (N/A)	0
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	226335	SUB = SUB PANEL x 38% PF.(FOR 18 UNITS)	86007
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	**239110**		**86007**
AMPS	**629**		**239**

	75.51	75.41	75.42	**CONNECTED PHASE (KVA)**
	629.21	628.45	628.46	**CONNECTED PHASE (AMPS)**
	28.69	28.66	28.66	**DEMAND PHASE (KVA)**
	239.10	238.81	238.82	**DEMAND PHASE (AMPS)**

GREENS ELECTRIC FOR QUOTES CONTACT BEN @ GREENS: Cell phone: 949-293-5006 Email: quotes@greens.com

PROJECT NAME: StudioRes Marriott - Panama City Beach, FL
PROJECT NUMBER: 2502
PANEL: **L3.A (FED FROM MDP)** A.I.C RATING: 22 KA
VOLTAGE: 120/208V, 3PH, 4W BUS: 300 AMP COPPER MAINS: 300 AMP M.L.O MOUNTING: SURFACE MOUNTED LOCATION: ELECT. ROOM - 3RD FLOOR
NEMA-1

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
SUB	PANEL "A" / 301 - SINGLE QUEEN		1	2	80/2	3	6251	12502			6251	3	80/2	2	2	PANEL "A" / 300 - SINGLE QUEEN		SUB
SUB	↓		3	-	↓	↓	6251		12502		6251	↓	↓	-	4	↓		SUB
SUB	PANEL "A" / 303 - SINGLE QUEEN		5	2	80/2	3	6251			12502	6251	3	80/2	2	6	PANEL "A" / 302 - SINGLE QUEEN		SUB
SUB	↓		7	-	↓	↓	6251	12502			6251	↓	↓	-	8	↓		SUB
SUB	PANEL "A" / 305 - SINGLE QUEEN		9	2	80/2	3	6251		12541		6290	3	80/2	2	10	PANEL "A" / 304 - DOUBLE QUEEN		SUB
SUB	↓		11	-	↓	↓	6251			12541	6290	↓	↓	-	12	↓		SUB
SUB	PANEL "A" / 307 - DOUBLE QUEEN		13	2	80/2	3	6290	12580			6290	3	80/2	2	14	PANEL "A" / 306 - DOUBLE QUEEN		SUB
SUB	↓		15	-	↓	↓	6290		12580		6290	↓	↓	-	16	↓		SUB
SUB	PANEL "A" / 309 - DOUBLE QUEEN		17	2	80/2	3	6290			12580	6290	3	80/2	2	18	PANEL "A" / 308 - DOUBLE QUEEN		SUB
SUB	↓		19	-	↓	↓	6290	12580			6290	↓	↓	-	20	↓		SUB
SUB	PANEL "A" / 311 - DOUBLE QUEEN		21	2	80/2	3	6290		12580		6290	3	80/2	2	22	PANEL "A" / 310 - DOUBLE QUEEN		SUB
SUB	↓		23	-	↓	↓	6290			12580	6290	↓	↓	-	24	↓		SUB
SUB	PANEL "A" / 315 - SINGLE QUEEN ADA (TUB)		25	2	80/2	3	6380	12670			6290	3	80/2	2	26	PANEL "A" / 312 - DOUBLE QUEEN CONNECTING		SUB
SUB	↓		27	-	↓	↓	6380		12670		6290	↓	↓	-	28	↓		SUB
SUB	PANEL "A" / 317 - SINGLE QUEEN CONNECTING		29	2	80/2	3	6251			12672	6421	3	80/2	2	30	PANEL "A" / 314 - DOUBLE QUEEN ADA (TUB)		SUB
SUB	↓		31	-	↓	↓	6251	12672			6421	↓	↓	-	32	↓		SUB
SUB	PANEL "A" / 319 - SINGLE QUEEN		33	2	80/2	3	6251		12541		6290	3	80/2	2	34	PANEL "A" / 316 - DOUBLE QUEEN		SUB
SUB	↓		35	-	↓	↓	6251			12541	6290	↓	↓	-	36	↓		SUB
	SPARE		37	1	20/1			0					80/2	1	38	SPARE		
	↓		39	1	↓				0				↓	1	40	↓		
			41	1						0			20/1	1	42			

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	0	REC = RCPTS LOAD : (N/A)	0
EQUIP	0	EQUIP = EQUIPMENT LOAD : (N/A)	0
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	226335	SUB = SUB PANEL x 38% PF.(FOR 18 UNITS)	86007
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	**226335**		**86007**
AMPS	**629**		**239**

	75.51	75.41	75.42	**CONNECTED PHASE (KVA)**
	629.21	628.45	628.46	**CONNECTED PHASE (AMPS)**
	28.69	28.66	28.66	**DEMAND PHASE (KVA)**
	239.10	238.81	238.82	**DEMAND PHASE (AMPS)**

GREENS ELECTRIC FOR QUOTES CONTACT BEN @ GREENS: Cell phone: 949-293-5006 Email: quotes@greens.com

PROJECT NAME: StudioRes Marriott - Panama City Beach, FL
PROJECT NUMBER: 2502
PANEL: **L2.B (FED FROM MDP)** A.I.C RATING: 22 KA
VOLTAGE: 120/208V, 3PH, 4W BUS: 300 AMP COPPER MAINS: 300 AMP M.L.O MOUNTING: SURFACE MOUNTED LOCATION: ELECT. ROOM - 2ND FLOOR
NEMA-1

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
SUB	PANEL "A" / 221 - SINGLE QUEEN		1	2	80/2	3	6251	12541			6290	3	80/2	2	2	PANEL "A" / 218 - DOUBLE QUEEN		SUB
SUB	↓		3	-	↓	↓	6251		12541		6290	↓	↓	-	4	↓		SUB
SUB	PANEL "A" / 223 - SINGLE QUEEN		5	2	80/2	3	6251			12541	6290	3	80/2	2	6	PANEL "A" / 220 - DOUBLE QUEEN		SUB
SUB	↓		7	-	↓	↓	6251	12541			6290	↓	↓	-	8	↓		SUB
SUB	PANEL "A" / 225 - SINGLE QUEEN		9	2	80/2	3	6251		12541		6290	3	80/2	2	10	PANEL "A" / 222 - DOUBLE QUEEN		SUB
SUB	↓		11	-	↓	↓	6251			12541	6290	↓	↓	-	12	↓		SUB
SUB	PANEL "A" / 227 - DOUBLE QUEEN	(NOTE 1)	13	2	80/2	2	6290	12580			6290	3	80/2	2	14	PANEL "A" / 224 - DOUBLE QUEEN		SUB
SUB	↓		15	-	↓	↓	6290		12580		6290	↓	↓	-	16	↓		SUB
SUB	PANEL "A" / 229 - DOUBLE QUEEN	(NOTE 1)	17	2	80/2	2	6290			12580	6290	3	80/2	2	18	PANEL "A" / 226 - DOUBLE QUEEN		SUB
SUB	↓		19	-	↓	↓	6290	12580			6290	↓	↓	-	20	↓		SUB
SUB	PANEL "A" /

PROJECT NAME: StudioRes Marriott - Panama City Beach, FL
PROJECT NUMBER: 2502
PANEL: **L1.A (FED FROM MDP)** A.I.C RATING: 42 KA
VOLTAGE: 120/208V, 3PH, 4W BUS: 400 AMP COPPER MAINS: 400 AMP M.L.O MOUNTING: SURFACE MOUNTED LOCATION: ELECT. ROOM - 1ST FLOOR
NEMA-1

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
SUB	PANEL "A" / 101 - SINGLE QUEEN		1	2	80/2	3	6251	12502			6251	3	80/2	2	2	PANEL "A" / 100 - SINGLE QUEEN		SUB
SUB	↓		3	-	↓	↓	6251		12502		6251	↓	↓	-	4	↓		SUB
SUB	PANEL "A" / 103 - SINGLE QUEEN		5	2	80/2	3	6251			12502	6251	3	80/2	2	6	PANEL "A" / 102 - SINGLE QUEEN		SUB
SUB	↓		7	-	↓	↓	6251	12502			6251	↓	↓	-	8	↓		SUB
SUB	PANEL "A" / 105 - SINGLE QUEEN		9	2	80/2	3	6251		12541		6290	3	80/2	2	10	PANEL "A" / 104 - DOUBLE QUEEN		SUB
SUB	↓		11	-	↓	↓	6251			12541	6290	↓	↓	-	12	↓		SUB
SUB	PANEL "A" / 115 - SINGLE QUEEN ADA (R.I.S)		13	2	80/2	3	6380	12670			6290	3	80/2	2	14	PANEL "A" / 116 - DOUBLE QUEEN		SUB
SUB	↓		15	-	↓	↓	6380		12670		6290	↓	↓	-	16	↓		SUB
SUB	PANEL "A" / 117 - SINGLE QUEEN CONNECTING		17	2	80/2	3	6251			12541	6290	3	80/2	2	18	PANEL "A" / 118 - DOUBLE QUEEN		SUB
SUB	↓		19	-	↓	↓	6251	12541			6290	↓	↓	-	20	↓		SUB
SUB	PANEL "A" / 119 - SINGLE QUEEN		21	2	80/2	3	6251		12541		6290	3	80/2	2	22	PANEL "A" / 120 - DOUBLE QUEEN		SUB
SUB	↓		23	-	↓	↓	6251			12541	6290	↓	↓	-	24	↓		SUB
SUB	PANEL "A" / 121 - SINGLE QUEEN		25	2	80/2	3	6251	12541			6290	3	80/2	2	26	PANEL "A" / 122 - DOUBLE QUEEN		SUB
SUB	↓		27	-	↓	↓	6251		12541		6290	↓	↓	-	28	↓		SUB
SUB	PANEL "A" / 123 - SINGLE QUEEN		29	2	80/2	3	6251			12541	6290	3	80/2	2	30	PANEL "A" / 124 - DOUBLE QUEEN		SUB
SUB	↓		31	-	↓	↓	6251	12541			6290	↓	↓	-	32	↓		SUB
SUB	PANEL "A" / 125 - SINGLE QUEEN		33	2	80/2	3	6251		12541		6290	3	80/2	2	34	PANEL "A" / 126 - DOUBLE QUEEN		SUB
SUB	↓		35	-	↓	↓	6251			12541	6290	↓	↓	-	36	↓		SUB
SUB	PANEL "A" / 127 - DOUBLE QUEEN		37	2	80/2	3	6290	12580			6290	3	80/2	2	38	PANEL "A" / 128 - DOUBLE QUEEN		SUB
SUB	↓		39	-	↓	↓	6290		12580		6290	↓	↓	-	40	↓		SUB
SUB	PANEL "A" / 129 - DOUBLE QUEEN		41	2	80/2	3	6290			12541	6251	3	80/2	2	42	PANEL "A" / 130 - SINGLE QUEEN		SUB
SUB	↓		43	-	↓	↓	6290	12541			6251	↓	↓	-	44	↓		SUB
SUB	PANEL "A" / 131 - DOUBLE QUEEN	(NOTE 1)	45	2	80/2	2	6290		12541		6251	2	80/2	2	46	PANEL "A" / 132 - SINGLE QUEEN	(NOTE 1)	SUB
SUB	↓		47	-	↓	↓	6290			12541	6251	↓	↓	-	48	↓		SUB
SUB	PANEL "A" / 133 - DOUBLE QUEEN	(NOTE 1)	49	2	80/2	2	6290	6290					80/2	1	50	SPARE		
SUB	↓		51	-	↓	↓	6290		6290				↓	1	52	↓		
	SPARE		53	1	20/1					0			20/1	1	54			
	↓		55	1	↓			0					↓	1	56			
			57	1					0					1	58			
			59	1						0				1	60			

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	0	REC = RCPTS LOAD : (N/A)	0
EQUIP	0	EQUIP = EQUIPMENT LOAD : (N/A)	0
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	313744	SUB = SUB PANEL x 35% PF(FOR 25 UNITS)	109810
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	**313744**		**109810**
AMPS	**872**		**305**

	106.71	106.75	100.29	**CONNECTED PHASE (KVA)**
	889.23	889.56	835.74	**CONNECTED PHASE (AMPS)**
	37.35	37.36	35.10	**DEMAND PHASE (KVA)**
	311.23	311.35	292.51	**DEMAND PHASE (AMPS)**

NOTE: 1 - THE CONDUCTORS HAVE BEEN UPSIZED TO MATCH THE MAXIMUM ALLOWED VOLTAGE DROP PER CODE

GREENS ELECTRIC FOR QUOTES CONTACT BEN @ GREENS: Cell phone: 949-293-5006 Email: quotes@greens.com

PROJECT NAME: StudioRes Marriott - Panama City Beach, FL
PROJECT NUMBER: 2502
PANEL: **L1.B (FED FROM MDP)** A.I.C RATING: 22 KA
VOLTAGE: 120/208V, 3PH, 4W BUS: 125 AMP COPPER MAINS: 125 AMP M.L.O MOUNTING: SURFACE MOUNTED LOCATION: ELECT. ROOM - 1ST FLOOR
NEMA-1

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
LTG	LTS - CORRIDOR 1ST FLOOR		1	1	20/1	12	150	1150			1000	10	20/1	1	2	LTS - PORTE COCHER (TYPE ALY-007)	(NOTE 1)	LTG
LTG	LTS - CORRIDOR 1ST FLOOR		3	1	20/1	12	150		650		500	10	20/1	1	4	LTS - OUTDOOR	(NOTE 1)	LTG
LTG	LTS - CORRIDOR 2ND FLOOR		5	1	20/1	12	500			1700	1200	10	20/1	1	6	LTS - BUILDING SIGN	(NOTE 1)	LTG
LTG	LTS - CORRIDOR 2ND FLOOR		7	1	20/1	12	500	1700			1200	10	20/1	1	8	LTS - FLAG POLE	(NOTE 1)	LTG
LTG	LTS - CORRIDOR 3RD FLOOR		9	1	20/1	12	500		1525		1025	8	20/2	2	10	LTS - SITE	(NOTE 1)	LTG
LTG	LTS - CORRIDOR 3RD FLOOR		11	1	20/1	12	500			1525	1025	↓	↓	-	12	↓		LTG
LTG	LTS - CORRIDOR 4TH FLOOR		13	1	20/1	12	500	1320			820	8	20/2	2	14	LTS - SITE	(NOTE 1)	LTG
LTG	LTS - CORRIDOR 4TH FLOOR		15	1	20/1	12	500		1320		820	↓	↓	-	16	↓		LTG
LTG	LTS - STAIRCASE		17	1	20/1	12	500			1700	1200	10	20/1	1	18	MONUMENT SIGN	(NOTE 1)(NOTE 2)	LTG
LTG	LTS - EXIT/ EMERGENCY AT MAIN LOBBY		19	1	20/1	12	250	1450			1200	10	↓	1	20			LTG
LTG	LTS - LAUNDRY/ BREAKRM.		21	1	20/1	12	300		1500		1200	10	↓	1	22			LTG
LTG	LTS - G. LAUNDRY/ MECH./ ELEC./ RESTROOM		23	1	20/1	12	400			900	500	10	20/1	1	24	LTS - BUILDING UPLIGHTS	(NOTE 1)	LTG
LTG	LTS - FITNESS		25	1	20/1	12	200	700			500	10	20/1	1	26	LTS - BUILDING UPLIGHTS	(NOTE 1)	LTG
LTG	DIMMING CONTROL PANEL		27	3	20/3	10	1000		1500		500	10	20/1	1	28	LTS - BUILDING UPLIGHTS	(NOTE 1)	LTG
LTG	↓		29	-	↓	10	1000			1000			20/1	1	30	SPARE		
LTG	↓		31	-	↓	10	1000	1000					↓	1	32	↓		
	SPARE		33						0					1	34			
	↓		35							0				1	36			
	SPACE ONLY		37					0							38	SPACE ONLY		
	↓		39						0						40	↓		
			41							0					42			

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	20640	LTG =125% LIGHTING LOAD	25800
REC	0	REC = RCPTS LOAD : (N/A)	0
EQUIP	0	EQUIP = EQUIPMENT LOAD : (N/A)	0
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	**20640**		**25800**
AMPS	**57**		**72**

	7.32	6.50	6.83	**CONNECTED PHASE (KVA)**
	61.00	54.13	56.88	**CONNECTED PHASE (AMPS)**
	9.15	8.12	8.53	**DEMAND PHASE (KVA)**
	76.25	67.66	71.09	**DEMAND PHASE (AMPS)**

NOTES : 1 - CONTROLLED BY A 20A,6P,N-1, MECH. HELD LIGHTING CONTACTORS WHICH IS CONTROLLED BY A 7-DAY, N-1 TIME CLOCK WITH 4 HRS BATTERIES IN PANEL L1 B.
2 - PROVIDE HANDLE TIES FOR CIRCUIT BREAKERS TO DISCONNECT ALL UNGROUNDED CONDUCTORS SIMULTANEOUSLY ON MULTI-WIRE BRANCH CIRCUITS

GREENS ELECTRIC FOR QUOTES CONTACT BEN @ GREENS: Cell phone: 949-293-5006 Email: quotes@greens.com

PROJECT NAME: StudioRes Marriott - Panama City Beach, FL
PROJECT NUMBER: 2502
PANEL: **L1.C (FED FROM MDP)** A.I.C RATING: 42 KA
VOLTAGE: 120/208V, 3PH, 4W BUS: 225 AMP COPPER MAINS: 225 AMP M.L.O MOUNTING: SURFACE MOUNTED LOCATION: ELEC. 1ST FLOOR
NEMA-1

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
EQUIP	DOOR MOTOR		1	1	20/1	12	1500	3000			1500	10	20/1	1	2	IG RCPTS - TELE BOARD		EQUIP
EQUIP	DOOR MOTOR		3	1	20/1	12	1500		3000		1500	↓	↓	1	4	↓		EQUIP
EQUIP	PHOTOCOPIER		5	1	20/1	12	1000			2500	1500	↓	↓	1	6	↓		EQUIP
REC	RCPTS - LOBBY/ VESTIBULE		7	1	20/1	12	1080	2580			1500	10	20/1	1	8	IG RCPTS - SECURITY BOARD		EQUIP
REC	IG RCPTS - CHECK IN		9	1	20/1	12	360		1860		1500	↓	↓	1	10	↓		EQUIP
REC	RCPTS - CHECK IN		11	1	20/1	12	900			2400	1500	↓	↓	1	12	↓		EQUIP
REC	RCPTS - BREAKROOM		13	1	20/1	12	540	2040			1500	10	20/1	1	14	IG RCPTS - CABLE TV BOARD		EQUIP
REC	RCPTS - CORRIDOOR		15	1	20/1	12	720		2220		1500	↓	↓	1	16	↓		EQUIP
REC	RCPTS - MECH./ ELEC.		17	1	20/1	12	900			2400	1500	↓	↓	1	18	↓		EQUIP
REC	RCPTS - LOUNGE		19	1	20/1	12	720	2220			1500	12	20/1	1	20	REF. (EMP. BREAKROOM)	(GFCI BREAKER)	EQUIP
REC	RCPTS - FITNESS		21	1	20/1	12	720		1920		1200	12	20/1	1	22	DISW. (EMP. BREAKROOM)	(CLASS-A GFCI BREAKER)	EQUIP
REC	RCPTS - LOUNGE		23	1	20/1	12	180			1380	1200	12	20/1	1	24	BREAKROOM APPLIANCE		EQUIP
REC	RCPTS - CORRIDOOR		25	1	20/1	12	1080	2080			1000	12	20/1	1	26	MICRO. (EMP. BREAKROOM)		EQUIP
EQUIP	RCPTS - GAS WATER HEATER		27	1	20/1	12	900		2400		1500	12	20/1	1	28	ICE MACHINE	(CLASS-A GFCI BREAKER)	EQUIP
EQUIP	RCPTS - GAS WATER HEATER		29	1	20/1	12	600			2350	1750	10	30/1	1	30	COFFEE MAKER		EQUIP
EQUIP	RCPTS - WATER FILTRATION		31	1	20/1	12	1500	3000			1500	12	20/1	1	32	LAUNDRY DETERGENT DISPENSERS		EQUIP
EQUIP	J BOX FOR SOFTENER		33	1	20/1	12	600		2100		1500	12	20/1	1	34	LAUNDRY DETERGENT DISPENSERS		EQUIP
EQUIP	CIRCULATE PUMP CONTROL PANEL (C.P)		35	1	20/1	12	375			1875	1500	12	20/1	1	36	VENDING	(CLASS-A GFCI BREAKER)	EQUIP
EQUIP	CIRCULATE PUMP CONTROL PANEL (C.P)		37	1	20/1	12	125	1625			1500	12	20/1	1	38	HYDRATION STATION	(CLASS-A GFCI BREAKER)	EQUIP
EQUIP	BOOSTER PUMP CONTROL PANEL (B.P)	(NOTE 3)	39	3	40/3	8	3309		5309		2000	10	30/1	1	40	FITNESS EQUIPMENT	(NOTE 1)	EQUIP
EQUIP	↓		41	-	↓	↓	3309			5309	2000	10	30/1	1	42	FITNESS EQUIPMENT	(NOTE 1)	EQUIP
EQUIP	↓		43	-	↓	↓	3309	5309			2000	10	30/1	1	44	FITNESS EQUIPMENT	(NOTE 1)	EQUIP
EQUIP	LAUNDRY DETERGENT DISPENSERS		45	1	20/1	12	1500		1600		100	12	20/1	1	46	EF-3		EQUIP
REC	RCPTS - LAUNDRY/ STORAGE		47	1	20/1	12	1080			1580	500	12	20/1	1	48	FIRE SMOKE DAMPER		EQUIP
EQUIP	EF-2		49	1	20/1	12	100	100					20/1	1	50	SPARE		
EQUIP	MOTORIZED DAMPER		51	1	20/1	12	500		500				↓	1	52	↓		
REC	RCPTS - EXTERIOR		53	1	20/1	12	540			540				1	54			
	SPARE		55	1	20/1			0						1	56			
	↓		57	1	↓				0					1	58			
			59	1						0				1	60			

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	8820	REC = RCPTS LOAD (100% FIRST 10kW +50% REMAIN)	8820
EQUIP	54376	EQUIP = EQUIPMENT LOAD	54376
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	**63196**		**63196**
AMPS	**176**		**176**

	21.95	20.91	20.33	**CONNECTED PHASE (KVA)**
	182.95	174.24	169.45	**CONNECTED PHASE (AMPS)**
	21.95	20.91	20.33	**DEMAND PHASE (KVA)**
	182.95	174.24	169.45	**DEMAND PHASE (AMPS)**

NOTES: 1 - FIELD VERIFICATION BREAKER SIZES, CABLE SIZES, ETC WITH FITNESS SUPPLIER/MANUFACTURER PRIOR TO INSTALLATION.
2 - CONTRACTOR MUST PROVIDE ISOLATED GROUND BUS IN THE PANEL.
3 - VERIFY HP,S, BREAKER SIZE, CABLE SIZE FOR BOOSTER PUMPS WITH THE MANUFACTURER & CODES REQUIREMENTS PRIOR TO INSTALLATION.

GREENS ELECTRIC FOR QUOTES CONTACT BEN @ GREENS: Cell phone: 949-293-5006 Email: quotes@greens.com

PROJECT NAME: StudioRes Marriott - Panama City Beach, FL
PROJECT NUMBER: 2502
PANEL: **L1.D (FED FROM MDP)** A.I.C RATING: 30 KA
VOLTAGE: 120/208V, 3PH, 4W BUS: 250 AMP COPPER MAINS: 250 AMP M.L.O MOUNTING: SURFACE MOUNTED LOCATION: LAUNDRY 1ST FLOOR
NEMA-3R

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
EQUIP	WASHER	(GFCI BREAKER)	1	3	30/3	10	2000	4500			2500	10	30/2	2	2	DRYER (GUEST LAUNDRY)	(GFCI BREAKER)	EQUIP
EQUIP	↓		3	-	↓	↓	2000		4500		2500	↓	↓	-	4	↓		EQUIP
EQUIP	↓		5	-	↓	↓	2000			4500	2500	10	30/2	2	6	DRYER (GUEST LAUNDRY)	(GFCI BREAKER)	EQUIP
	SPACE FOR SWITCHED NEUTRAL		7					2500			2500	↓	↓	-	8	↓		EQUIP
EQUIP	WASHER	(GFCI BREAKER)	9	3	30/3	10	2000		4500		2500	10	30/2	2	10	DRYER (GUEST LAUNDRY)	(GFCI BREAKER)	EQUIP
EQUIP	↓		11	-	↓	↓	2000			4500	2500	↓	↓	-	12	↓		EQUIP
EQUIP	↓		13	-	↓	↓	2000	4500			2500	10	30/2	2	14	DRYER (GUEST LAUNDRY)	(GFCI BREAKER)	EQUIP
	SPACE FOR SWITCHED NEUTRAL		15						2500		2500	↓	↓	-	16	↓		EQUIP
EQUIP	DRYER (LAUNDRY)	(GFCI BREAKER)	17	2	20/2	12	750			3250	2500	10	30/2	2	18	DRYER (GUEST LAUNDRY)	(GFCI BREAKER)	EQUIP
EQUIP	↓		19	-	↓	↓	750	3250			2500	↓	↓	-	20	↓		EQUIP
EQUIP	DRYER (LAUNDRY)	(GFCI BREAKER)	21	2	20/2	12	750		3250		2500	10	30/2	2	22	DRYER (GUEST LAUNDRY)	(GFCI BREAKER)	EQUIP
EQUIP	↓		23	-	↓	↓	750			3250	2500	↓	↓	-	24	↓		EQUIP
EQUIP	DRYER (LAUNDRY)	(GFCI BREAKER)	25	2	20/2	12	750	3250			2500	10	30/2	2	26	DRYER (GUEST LAUNDRY)	(GFCI BREAKER)	EQUIP
EQUIP	↓		27	-	↓	↓	750		3250		2500	↓	↓	-	28	↓		EQUIP
EQUIP	WASHER (GUEST LAUNDRY)	(GFCI BREAKER)	29	1	20/1	12	1800			4300	2500	10	30/2	2	30	DRYER (GUEST LAUNDRY)	(GFCI BREAKER)	EQUIP
EQUIP	WASHER (GUEST LAUNDRY)	(GFCI BREAKER)	31	1	20/1	12	1800	4300			2500	↓	↓	-	32	↓		EQUIP
EQUIP	WASHER (GUEST LAUNDRY)	(GFCI BREAKER)	33	1	20/1	12	1800		1800				20/1	1	34	SPARE		
EQUIP	WASHER (GUEST LAUNDRY)	(GFCI BREAKER)	35	1	20/1	12	1800			1800			↓	1	36	↓		
EQUIP	WASHER (GUEST LAUNDRY)	(GFCI BREAKER)	37	1	20/1	12	1800	1800						1	38			
EQUIP	WASHER (GUEST LAUNDRY)	(GFCI BREAKER)	39	1	20/1	12	1800		1800					1	40			
	SPARE		41	1	20/1					0				1	42			

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	0	REC = RCPTS LOAD : (N/A)	0
EQUIP	67300	EQUIP = EQUIPMENT LOAD	67300
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	**67300**		**67300**
AMPS	**187**		**187**

	24.10	21.60	21.60	**CONNECTED PHASE (KVA)**
	200.83	180.00	180.00	**CONNECTED PHASE (AMPS)**
	24.10	21.60	21.60	**DEMAND PHASE (KVA)**
	200.83	180.00	180.00	**DEMAND PHASE (AMPS)**

NOTES: 1 - FIELD VERIFICATION BREAKER SIZES, BREAKER TYPES, CABLE SIZES, ETC WITH LAUNDRY SUPPLIER/MANUFACTURER & CODE REQ'S PRIOR TO INSTALLATION.

GREENS ELECTRIC FOR QUOTES CONTACT BEN @ GREENS: Cell phone: 949-293-5006 Email: quotes@greens.com

PROJECT NAME: StudioRes Marriott - Panama City Beach, FL
PROJECT NUMBER: 2502
PANEL: **L1.E (FED FROM MDP)** A.I.C RATING: 42 KA
VOLTAGE: 120/208V, 3PH, 4W BUS: 225 AMP COPPER MAINS: 225 AMP M.L.O MOUNTING: SURFACE MOUNTED LOCATION: ELEC. 1ST FLOOR
NEMA-1

LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
HTG	AHU-1.1		1	2	30/2	10	3110	6375			3266	6	50/2	2	2	ACCU-1.1		AC
HTG	↓		3	-	↓	↓	3110		6375		3266	↓	↓	-	4	↓		AC
HTG	AHU-1.2		5	2	30/2	10	2860			5533	2673	8	40/2	2	6	ACCU-1.2		AC
HTG	↓		7	-	↓	↓	2860	5533			2673	↓	↓	-	8	↓		AC
HTG	AHU-1.3		9	2	30/2	10	2694		4992		2298	10	25/2	2	10	ACCU-1.3		AC
HTG	↓		11	-	↓	↓	2694			4992	2298	↓	↓	-	12	↓		AC
HTG	AHU-1.4		13	2	30/2	10	2694	4992			2298	10	25/2	2	14	ACCU-1.4		AC
HTG	↓		15	-	↓	↓	2694		4992		2298	↓	↓	-	16	↓		AC
HTG	EUH		17	2	30/2	10	2500			4559	2059	12	20/2	2	18	CU-1 & FCU-1		AC
HTG	↓		19	-	↓	↓	2500	4559			2059	↓	↓	-	20	↓		AC
HTG	EUH		21	2	30/2	10	2500		2500				50/2	2	22	SPARE		
HTG	↓		23	-	↓	↓	2500			2500			↓	-	24			
	SPARE		25	2	30/2			0					20/1	1	26			
	↓		27	-	↓				0				↓	1	28			
	↓		29	1	20/1					0				1	30			
	SPACE ONLY		31					0							32	SPACE ONLY		
	↓		33						0						34	↓		
	↓		35							0					36			
	↓		37					0							38			
	↓		39						0						40			
	↓		41							0					42			

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	0	REC = RCPTS LOAD : (N/A)	0
EQUIP	0	EQUIP = EQUIPMENT LOAD : (N/A)	0
AC	25189	AC = HVAC LOAD	25189
HTG	32714	HTG = HEATING LOAD	32714
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	0	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION :(N/A)	0
VA	**57902**		**57902**
AMPS	**161**		**161**

	21.46	18.86	17.58	**CONNECTED PHASE (KVA)**
	178.83	157.16	146.53	**CONNECTED PHASE (AMPS)**
	21.46	18.86	17.58	**DEMAND PHASE (KVA)**
	178.83	157.16	146.53	**DEMAND PHASE (AMPS)**

NOTES: 1 - VERIFY HPs, BREAKER SIZES, CABLES SIZES FOR THE HVAC EQUIPMENT WITH THE MECHANICAL EQUIPMENT SCHEDULE PRIOR TO INSTALLATION.

GREENS ELECTRIC FOR QUOTES CONTACT BEN @ GREENS:

PROJECT NAME:	StudioRes Marriott - Panama City Beach, FL																							
PROJECT NUMBER:	2502																							
PANEL:	**EV1 (FED FROM MDP)**				A.I.C RATING:			42 KA																
VOLTAGE:	120/208V, 3PH, 4W				BUS:	400 AMP					MAINS:	400 AMP		MOUNTING:	SURFACE MOUNTED									
	NEMA-1					COPPER						MCB		LOCATION:	ELECT. ROOM - 1ST FLOOR									
LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
EVCS	EV CHARGING STATION		1	2	40/2	8	3600	7200			3600	8	40/2	2	2	SPARE FOR FUTURE EV CHARGING STATION		EVCS
EVCS	↓		3	-	↓	↓	3600		7200		3600	↓	↓	-	4	↓		EVCS
EVCS	EV CHARGING STATION		5	2	40/2	8	3600			7200	3600	8	40/2	2	6	SPARE FOR FUTURE EV CHARGING STATION		EVCS
EVCS	↓		7	-	↓	↓	3600	7200			3600	↓	↓	-	8	↓		EVCS
EVCS	EV CHARGING STATION		9	2	40/2	8	3600		7200		3600	8	40/2	2	10	SPARE FOR FUTURE EV CHARGING STATION		EVCS
EVCS	↓		11	-	↓	↓	3600			7200	3600	↓	↓	-	12	↓		EVCS
EVCS	EV CHARGING STATION		13	2	40/2	8	3600	7200			3600	8	40/2	2	14	SPARE FOR FUTURE EV CHARGING STATION		EVCS
EVCS	↓		15	-	↓	↓	3600		7200		3600	↓	↓	-	16	↓		EVCS
EVCS	SPARE FOR FUTURE EV CHARGING STATION		17	2	40/2	8	3600			7200	3600	8	40/2	2	18	SPARE FOR FUTURE EV CHARGING STATION		EVCS
EVCS	↓		19	-	↓	↓	3600	7200			3600	↓	↓	-	20	↓		EVCS
EVCS	SPARE FOR FUTURE EV CHARGING STATION		21	2	40/2	8	3600		7200		3600	8	40/2	2	22	SPARE FOR FUTURE EV CHARGING STATION		EVCS
EVCS	↓		23	-	↓	↓	3600			7200	3600	↓	↓	-	24	↓		EVCS
	SPARE		25	1	20/1			0					20/1	1	26	SPARE		
	↓		27	1	↓				0				↓	1	28	↓		
			29	1						0				1	30			
	SPACE ONLY		31					0							32	SPACE ONLY		
	↓		33						0						34	↓		
			35							0					36			
			37					0							38			
			39						0						40			
			41							0					42			

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	0	REC = RCPTS LOAD : (N/A)	0
EQUIP	0	EQUIP = EQUIPMENT LOAD : (N/A)	0
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	86400	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION	108000
VA	**86400**		**108000**
AMPS	**240**		**300**

	28.80	28.80	28.80	**CONNECTED PHASE (KVA)**
	240.00	240.00	240.00	**CONNECTED PHASE (AMPS)**
	36.00	36.00	36.00	**DEMAND PHASE (KVA)**
	300.00	300.00	300.00	**DEMAND PHASE (AMPS)**

NOTES: 1 - VERIFY HPs, BREAKER SIZES, CABLES SIZE OF EV CHARGERS WITH SUPPLIER/ MANUFACTURER & CODES REQ'S PRIOR TO INSTALLATION.

GREENS ELECTRIC FOR QUOTES CONTACT BEN @ GREENS:
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Email: quotes@greens.com

PROJECT NAME:	StudioRes Marriott - Panama City Beach, FL																							
PROJECT NUMBER:	2502																							
PANEL:	**EV2 (FED FROM MDP)**				A.I.C RATING:			42 KA																
VOLTAGE:	120/208V, 3PH, 4W				BUS:	300 AMP					MAINS:	300 AMP		MOUNTING:	SURFACE MOUNTED									
	NEMA-1					COPPER						MLO		LOCATION:	ELECT. ROOM - 1ST FLOOR									
LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
EVCS	SPARE FOR FUTURE EV CHARGING STATION		1	2	40/2	8	3600	7200			3600	8	40/2	2	2	SPARE FOR FUTURE EV CHARGING STATION		EVCS
EVCS	↓		3	-	↓	↓	3600		7200		3600	↓	↓	-	4	↓		EVCS
EVCS	SPARE FOR FUTURE EV CHARGING STATION		5	2	40/2	8	3600			7200	3600	8	40/2	2	6	SPARE FOR FUTURE EV CHARGING STATION		EVCS
EVCS	↓		7	-	↓	↓	3600	7200			3600	↓	↓	-	8	↓		EVCS
EVCS	SPARE FOR FUTURE EV CHARGING STATION		9	2	40/2	8	3600		7200		3600	8	40/2	2	10	SPARE FOR FUTURE EV CHARGING STATION		EVCS
EVCS	↓		11	-	↓	↓	3600			7200	3600	↓	↓	-	12	↓		EVCS
EVCS	SPARE FOR FUTURE EV CHARGING STATION		13	2	40/2	8	3600	7200			3600	8	40/2	2	14	SPARE FOR FUTURE EV CHARGING STATION		EVCS
EVCS	↓		15	-	↓	↓	3600		7200		3600	↓	↓	-	16	↓		EVCS
	SPARE		17	1	20/1			0					20/1	1	18	SPARE		
	↓		19	1	↓				0				↓	1	20	↓		
			21	1						0				1	22			
	SPACE ONLY		23					0							24	SPACE ONLY		
	↓		25						0						26	↓		
			27							0					28			
			29					0							30			
			31						0						32			
			33							0					34			
			35					0							36			
			37						0						38			
			39							0					40			
			41												42			

	CONNECTED LOAD	LOAD CODES	DEMAND LOAD
LTG	0	LTG =125% LIGHTING LOAD: (N/A)	0
REC	0	REC = RCPTS LOAD : (N/A)	0
EQUIP	0	EQUIP = EQUIPMENT LOAD : (N/A)	0
AC	0	AC = HVAC LOAD : (N/A)	0
HTG	0	HTG = HEATING LOAD : (N/A)	0
LGR	0	LGR = 125% LARGEST MOTOR : (N/A)	0
KIT	0	KIT = KITCHEN LOAD : (N/A)	0
SUB	0	SUB = SUB PANEL x PF : (N/A)	0
GLTG	0	GLTG = GUESTROOM LIGHTING LOAD: N/A	0
EVCS	57600	EVCS = 125% ELECTRIC VEHICLE CHARGING STATION	72000
VA	**57600**		**72000**
AMPS	**160**		**200**

	21.60	21.60	14.40	**CONNECTED PHASE (KVA)**
	180.00	180.00	120.00	**CONNECTED PHASE (AMPS)**
	27.00	27.00	18.00	**DEMAND PHASE (KVA)**
	225.00	225.00	150.00	**DEMAND PHASE (AMPS)**

NOTES: 1 - VERIFY HPs, BREAKER SIZES, CABLES SIZE OF EV CHARGERS WITH SUPPLIER/ MANUFACTURER & CODES REQ'S PRIOR TO INSTALLATION.

GREENS ELECTRIC FOR QUOTES CONTACT BEN @ GREENS:
Cell phone: 949-293-5006
Email: quotes@greens.com

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PROJECT NAME:	StudioRes Marriott - Panama City Beach, FL																							
PROJECT NUMBER:	2500																							
PANEL:	**MDP (FED FROM SERVICE TRANSFORMER)**				A.I.C RATING:			65 KA																
VOLTAGE:	120/208V, 3PH, 4W				BUS:	2500 AMP					MAINS:	2500 AMP		MOUNTING:	FLOOR MOUNTED									
	NEMA-1					COPPER						M.C.B		LOCATION:	ELEC. 1ST FLOOR									
LOAD TYPE	CIRCUIT DESCRIPTION	NOTES	CKT NO	P	BRKR AMP	WIRE	VOLT AMPS	A	B	C	VOLT AMPS	WIRE	BRKR AMP	P	CKT NO	CIRCUIT DESCRIPTION	NOTES	LOAD TYPE
SUB	PANEL L4.A	(4TH FLOOR)	1	3	300/3	500 (AL)	28692	66040			37348	2-250 (AL)	400/3	3	2	PANEL L1.A	(1ST FLOOR)	SUB
SUB	↓		3	-	↓	↓	28657		66019		37361	↓	↓	-	4	↓		SUB
SUB			5	-			28658			63759	35101			-	6			SUB
SUB	PANEL L4.B	(4TH FLOOR)	7	3	300/3	500 (AL)	29414	38564			9150	2/0 (AL)	125/3	3	8	PANEL L1.B	(1ST FLOOR)	SUB
SUB	↓		9	-	↓	↓	25793		33912		8119	↓	↓	-	10	↓		SUB
SUB			11	-			23722			32253	8531			-	12			SUB
SUB	PANEL L3.A	(3RD FLOOR)	13	3	300/3	500 (AL)	28692	50646			21954	300 (AL)	225/3	3	14	PANEL L1.C	(1ST FLOOR)	SUB
SUB	↓		15	-	↓	↓	28657		49566		20909	↓	↓	-	16	↓		SUB
SUB			17	-			28658			48992	20334			-	18			SUB
SUB	PANEL L3.B	(3RD FLOOR)	19	3	300/3	500 (AL)	28694	52794			24100	400 (AL)	250/3	3	20	PANEL L1.D	(1ST FLOOR)	SUB
SUB	↓		21	-	↓	↓	25613		47213		21600	↓	↓	-	22	↓		SUB
SUB			23	-			23497			45097	21600			-	24			SUB
SUB	PANEL L2.A	(2ND FLOOR)	25	3	300/3	500 (AL)	28692	50151			21459	300 (AL)	225/3	3	26	PANEL L1.E	(1ST FLOOR)	SUB
SUB	↓		27	-	↓	↓	28657		47517		18859	↓	↓	-	28	↓		SUB
SUB			29	-			28658			46242	17584			-	30			SUB
SUB	PANEL L2.B	(2ND FLOOR)	31	3	300/3	500 (AL)	28694	39903			11209	2/0 (AL)	125/3	3	32	PANEL EP	(4TH FLOOR)	SUB
SUB	↓		33	-	↓	↓	25613		37018		11404	↓	↓	-	34	↓		SUB
SUB			35	-			24217			36634	12417			-	36			SUB
SUB	PANEL EV1	(1ST FLOOR)	37	3	400/3	2-250 (AL)	36000	47120			11120	2/0 (AL)	125/3	3	38	DOAS-1		AC
SUB	↓		39	-	↓	↓	36000		47120		11120	↓	↓	-	40	↓		AC
SUB			41	-			36000			47120	11120			-	42			AC
SUB	PANEL EV2	(1ST FLOOR)	43	3	300/3	500 (AL)	27000	41062			14062	2/0 (AL)	125/3	3	44	DOAS-2		LGR
SUB	↓		45	-	↓	↓	27000		41062		14062	↓	↓	-	46	↓		LGR
SUB			47	-			18000			32062	14062			-	48			LGR
	SURGE PROTECTIVE DEVICE		49	3	60/3			0							50	SPACE ONLY		
	↓		51	-	↓				0						52	↓		
			53	-						0					54			
	SPACE ONLY		55					0							56			
	↓		57						0						58			
			59							0					60			

	NEC ART. 220 LOAD CATEGORY	CONNECTED LOAD (KVA)	x	NEC ART. 220 FEEDER SIZING FACTOR	=	NEC ART. 220 FEEDER SIZING LOAD (KVA)
1 - GENERAL LIGHTING		20.8		1.25		**26.0**
2 - GUEST ROOMS 124 UNITS' LOADS:		1557.7		0.23		**358.3**
3 - HOUSE LOAD						
3.1 - DRYER 3@1.5 KVA & 8@5 KVA		44.5		1		**44.5**
3.2 - WASHER 2@6 KW(7.05KVA) & 6@1.8 KW(2.12KVA)		26.8		1		**26.8**
3.3 - ICE MACHINES: 1@1.5 KVA		1.5		1		**1.5**
3.4 - MISCELLANEOUS (FIRE ALARM, TEL BOARD, ETC.)		15.0		1		**15.0**
3.5 - SERVICES EQUIPMENT 25.48 KVA @ 65%		26.5		0.65		**16.6**
3.6 - EV CHARGER: 4@7.2 KVA @ 125%		28.8		1.25		**36.0**
3.7- FUTURE EV CHARGER : 1@7.2 KVA @ 125%		115.2		1.25		**144.0**
4 - RECEPTACLES		16.6		First 10kVA+50%		**13.3**
5 - MECHANICAL LOAD						
5.1 - FANS		1.0		1		**1.0**
5.2 - AHU'S (HEATING)/COOLING		91.3		1		**91.3**
5.3 - ELEVATORS: 1@30HP (26.47KVA) @ 100%		26.5		1		**26.5**
5.4 - PUMPS		10.7		1		**10.7**
5.5 - LARGEST MOTOR (DOAS-2): 42.19KVA @125%		42.2		1.25		**52.7**
						864 KVA
				FEEDER SIZING LOAD:		2398 AMPS

NOTES : 1 - SWITCHBOARD IS "FULLY" RATED TO INCLUDE 65K AIC BREAKER

2 - SEE ONE-LINE DIAGRAM FOR COMPLETE FEEDER SIZES

3 - FIELD VERIFICATION BREAKER TYPES, BREAKER SIZES, CABLE SIZES, ETC OF HVAC EQUIPMENTS & ELEVATORS WITH CONTRACTOR/ MANUFACTURER & CODES REQ'S PRIOR TO INSTALLATION.

4 - PANELS WITH BREAKERS 1200A AND OVER REQUIRE ARC FLASH REDUCTION PER NEC 240.87

5 - CONTRACTOR WILL PROVIDE PANEL WITH ENERGY REDUCING MAINTENANCE SWITCH

6 - THE CONTRACTOR HAS TO CHECK THE SIZE OF THE ELECTRICAL ROOM TO PROVIDE THE MAIN SWITCHGEAR WITH SUITABLE DIMENSIONS AND COMPLIANT WITH CODES FOR THE CLEARANCE REQUIREMENTS.

GREENS ELECTRIC FOR QUOTES CONTACT BEN @ GREENS:
Cell phone: 949-293-5006
Email: quotes@greens.com

NOTES:
1. CONTRACTOR SHALL PROVIDE A PERMANENTLY AFFIXED LABEL WITH THE MAXIMUM FAULT CURRENT PER ARTICLE 110.24. THE LABEL SHALL INCLUDE THE DATE THE FAULT-CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. THE LABEL SHALL BE 2"X3" IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND.
2. CONTRACTOR TO VERIFY FINAL CURRENT VALUES FROM ELECTRICAL UTILITY COMPANY AND PROVIDE AIC PROTECTION ACCORDINGLY.
3. AIC RATINGS OF ALL THE PANELS & BRANCH BREAKERS SHALL MATCH THE FAULT CURRENT OF THE TRANSFORMER.

PANEL INDEX	
EV1	MDP
EV2	

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JAN. 15, 2026



DUNG VU,
Ph.D. P.E. LEED AP

Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA.

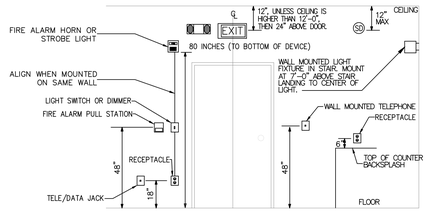
STUDIO**RES**

SHEET TITLE:

ELECTRICAL
PANELS SCHEDULE

SHEET NUMBER:

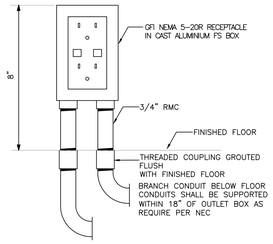
E6.2



NOTES:
1. ALL DIMENSIONS ARE TO CENTER LINE OF DEVICE, UNLESS OTHERWISE NOTED.

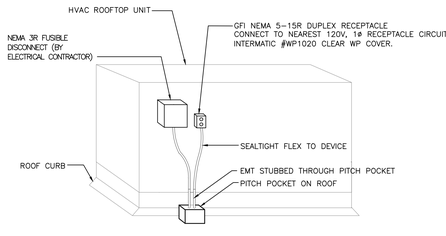
1 MOUNTING HEIGHTS OF DEVICES - *ELEVATION*

SCALE: NTS



2 STUBBED-UP RECEPTACLE DETAIL

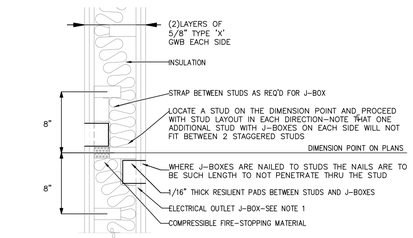
SCALE: NTS



NOTE: TYPICAL FOR ALL ROOF MOUNTED HVAC EQUIPMENT.

3 ROOFTOP RECEPTACLE DETAIL

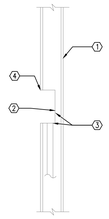
SCALE: NTS



NOTES:
1. ELECTRICAL OUTLET BOXES AND SIMILAR BOXES FOR T.V., PHONE,ETC. IN PARTY WALLS MUST BE STEEL AND NOT OVER 16" SQUARE,SUCH BOXES ARE TO BE SEALED WITH 3M MPP-4S FIRE BARRIER PUDDY PAD OR EQUAL. STACK MULTIPLE BOXES VERTICALLY WHEN ON SAME SIDE OF WALL.
2. CONTRACTOR TO VERIFY ACCEPTABILITY OF THIS DETAIL WITH LOCAL JURISDICTION'S BUILDING INSPECTOR.

4 OUTLET J-BOX OFFSET DETAIL

SCALE: NTS

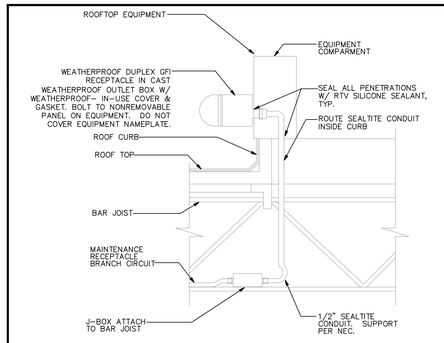


1. 1 OR 2 HOUR WALL ASSEMBLY EQUIPMENT TO UL300 OR UL400 SERIES.
2. ELECTRICAL OUTLET BOX,NOT MORE THAN 100 SQUARE INCHES PER 100 SQUARE FEET WALL AREA.
3. MOLDABLE PUTTY PADS ARE TO BE INSTALLED TO COMPLETELY COVER THE EXTERIOR SURFACES OF THE BOX WITHIN THE STUD CAVITY WITH A BALL OF THE PUTTY MATERIAL USED TO LUG THE END OF EACH ELECTRICAL METALLIC TUBE OR CONDUIT AT ITS CONNECTION TO THE BOX.
4. PUTTY PAD EQUIVALENT TO 3M#MPP-4S.1/8" THICK PADS REQUIRED FOR 1 HOUR WALLS 1/4" THICK PADS REQUIRED FOR 2 HOUR WALLS A MAXIMUM 8" GAP BETWEEN BOX AND WALLBOARD.

NOTE: THIS DETAIL APPLIES TO 1 AND 2 HOUR WALL ASSEMBLIES WITH 4"x4" FLUSH ELECTRICAL BOXES ON OPPOSITE SIDE OF WALLS THAT HAVE LESS THAN 24" SEPARATION BETWEEN THEM.BOXES NOT PERMITTED BACK-TO-BACK.

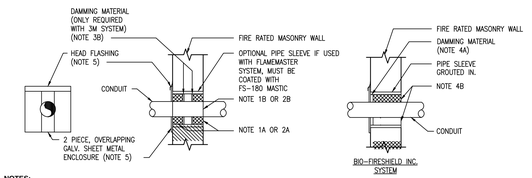
5 PENTRATION DETAIL

SCALE: NTS



6 ROOFTOP HVAC EQUIPMENT MAINTENANCE RECEPTACLE DETAIL

SCALE: NTS



NOTES:
USE ONE OF THE FOLLOWING SYSTEMS:

1. FLAMEMASTER CORPORATION

A. FS-180 MINERAL WOOL BATTS COATED WITH FS-180 MASTIC (1QT/6FT 2) ON EXTERIOR.

B. COVER PENETRATION COMPLETELY WITH FS-180 MASTIC, THEN WRAP CONDUIT WITH FS-180 CERAMIC FIBER BLANKET.

C. MINIMUM 6 1/2 INCH THICK NORMAL WEIGHT CONCRETE OR NOMINAL 8 INCH THICK CONCRETE BLOCK.

2. FIRE-STOP SYSTEMS INC.

A. 310 PANEL AND 310 FIBER COATED WITH THERMALASTIC 83 TO A DEPTH OF 1/8 INCH AND THEN COATED WITH THERMALASTIC 83E TO A DEPTH OF 1/8 INCH ON EXTERIOR.

B. COAT ENTIRE LENGTH OF CONDUIT TO A MINIMUM OF 6 INCHES BEYOND BOTH SIDES OF WALL WITH THERMALASTIC 83 COATING AND THEN WITH THERMALASTIC 83E COATING, A DEPTH OF 1/8" THICKNESS FOR EACH COATING.

C. MINIMUM 6 INCH THICK CONCRETE WALL OR ANY UL CLASSIFIED CONCRETE BLOCKS.

3. 3M COMPANY

A. CP 25N/S CAULK (1 INCH THICKNESS WITH 1/4" BEAD BETWEEN CONDUIT AND EXTERIOR PORTIONS OF WALL ON BOTH SIDES OF WALL).

B. POLYETHLENE BACKER ROD OR NOMINAL 1 INCH THICKNESS OF TIGHTLY PACKED CERAMIC (ALUMINA SILICA) FIBER BLANKET, MINERAL-WOOL BATT OR GLASS FIBER INSULATION MATERIAL USED AS A PERMANENT FORM.

C. MINIMUM 4 1/2 INCH THICK LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE OR ANY UL CLASSIFIED CONCRETE BLOCKS.

4. BIO-FIRESHIELD INC.

A. USE MINERAL WOOL OR CERAMIC WOOL AS A DAMMING MATERIAL IF HEIGHT OPENING IS GREATER THAN 36", IF OPENING IS LESS THAN 36", DAMMING MATERIAL NOT REQUIRED.

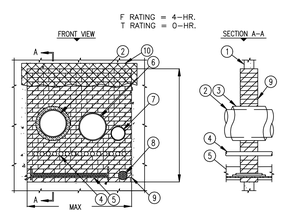
B. NOVASIT K-10 MORTAR

C. MINIMUM 4 1/2 INCH THICK LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL OR ANY UL CLASSIFIED CONCRETE BLOCKS.

5. WEATHERPROOFING MATERIAL REQUIRED ON OUTSIDE OF EXTERIOR WALLS ONLY.

7 TYPICAL FIRESTOP DETAIL

SCALE: NTS



KEYED NOTES

1. CONCRETE FLOOR OR WALL ASSEMBLY (MINIMUM 4-1/2" THICK).
2. MAXIMUM 12" DIAMETER STEEL PIPE OR MAXIMUM 6" DIAMETER COPPER PIPE.
3. MAXIMUM 1-1/2" THICK GLASS-FIBER PIPE INSULATION.
4. 1-1/2" DIAMETER STEEL CONDUIT (MAXIMUM QUANTITY = 15).
5. STEEL OR ALUMINUM CABLE TRAY (MAXIMUM SIZE : 36" x 6") WITH ANY OF THE FOLLOWING TYPES OF CABLE MAY BE USED WITH MAXIMUM 30% FILL OF CABLE TRAY :
   A. MAXIMUM 500 KCMIL SINGLE CONDUCTOR POWER CABLE.
   B. MAXIMUM 7/C NO. 12 AWG COPPER CONDUCTOR CABLE.
   C. MAXIMUM 300 PAIR NO. 24 AWG TELEPHONE CABLES.
6. MAXIMUM 30" DIAMETER STEEL PIPE (12" DIAMETER PIPE SHOWN).
7. 6" DIAMETER STEEL PIPE.
8. MAXIMUM 4" DIAMETER CABLE BUNDLE TO INCLUDE ANY OF THE FOLLOWING :
   A. FIBER-OPTIC CABLE (MAX. 1/2" DIA).
   B. ROMEX (2/C NO. 10 +GROUND).
   C. 25 PAIR NO. 24 AWG TELEPHONE CABLES.
   D. 7/C NO. 12 AWG CABLES.
   E. RG 62A COAXIAL CABLES.
   F. METAL CLAD CABLE (MAX. 3/4" DIA.).
9. HILTI FS 657 INTUMESCENT FIRESTOP BLOCK (2" TALL x 5" WIDE x 8" DEEP, REF: FRONT VIEW).
10. SEE NOTE NO. 4 BELOW.

NOTES : 1. ANNULAR SPACING FOR CABLE TRAY = MINIMUM 1-1/2".
2. ANNULAR SPACING FOR PIPE AND CABLE PENETRATIONS = MINIMUM 1".
3. INSTALL HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT IN ANY VOID THAT MAY EXIST (AROUND CABLE TRAY, CABLES, OR PIPE PENETRATIONS).
4. IF THE ANNULAR SPACE IS GREATER THAN 5", PROVIDE A STEEL WIRE MESH (NOMINAL 2" SQUARES, NO. 16 SWG). INSTALL ON EACH SIDE OF WALL ASSEMBLY.
5. MAXIMUM AREA OF OPENING = 2496 SQUARE INCHES.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

8 MULTIPLE PENETRATING ITEMS THROUGH CONCRETE FLOOR OR WALL

SCALE: NTS

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JAN. 15, 2026

DUNG D. VU LICENSED No. 83006 PROFESSIONAL ENGINEER STATE OF FLORIDA

DUNG VU, Ph.D. P.E. LEED AP

Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

Panama City Beach, FL

???? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
ELECTRICAL DETAILS

SHEET NUMBER:
E7.0

COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: StudioRes Marriott - Panama City Beach
Project Type: New Construction

Construction Site:
Panama, Florida

Owner/Agent:

Designer/Contractor:
Dung Vu, P.E. LEED AP
MEP Green Designs & Build, PLLC
915 Gemini ST
Suite 211
Houston 77058
281-786-1195

Additional Efficiency Package(s)

Credits: 10.0 Required 18.0 Proposed
5% cooling efficiency improvement, 2.0 credit
Efficient fossil fuel water heater, 6.0 credit
Reduced lighting power, 10.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Electrical/Mechanical/PBX (Common Space Types:Electrical/Mechanical)	695	0.43	299
2-Common Space Types:Corridor/Transition <8 ft wide	5221	0.41	2141
3-Common Space Types:Restrooms	77	0.63	49
4-Laundry/ Guest Laundry (Common Space Types:Laundry/Washing Area)	620	0.53	329
5-Lounge/ Breakroom (Common Space Types:Lounge/Breakroom)	866	0.59	511
6-Common Space Types:Guest Room	48497	0.41	19884
7-Lobby/ Vestibule/ Check in (Common Space Types:Lobby - General)	959	0.84	806
8-Fitness (Gymnasium/Fitness Center:Exercise Area)	371	0.90	334
9-Common Space Types:Stairwell	1680	0.49	823
10-Storage/ Housekeeping (Common Space Types:Storage)	762	0.38	290
11-Common Space Types:Lobby For Elevator	623	0.65	405
		Total Allowed Watts =	25868

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Electrical/Mechanical/PBX (Common Space Types:Electrical/Mechanical)				
LED: ALB-007: Other:	1	7	50	350
2-Common Space Types:Corridor/Transition <8 ft wide				
LED: ALR-029: Other:	1	78	12	920
LED: PG-400: Other:	1	24	3	72
3-Common Space Types:Restrooms				
LED: ALR-029: Other:	1	2	12	24

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
4-Laundry/ Guest Laundry (Common Space Types:Laundry/Washing Area)				
LED: ALR-029: Other:	1	6	12	71
LED: ALJ-004: Other:	1	2	17	33
LED: ALB-007: Other:	1	6	50	300
5-Lounge/ Breakroom (Common Space Types:Lounge/Breakroom)				
LED: ALR-029: Other:	1	9	12	106
LED: LM-401: Other:	1	1	5	5
LED: LM-402: Other:	1	1	13	13
LED: ALB-007: Other:	1	2	50	100
6-Common Space Types:Guest Room				
LED: ALR-083: Other:	1	493	17	8381
LED: X-400: Other:	1	124	5	620
7-Lobby/ Vestibule/ Check in (Common Space Types:Lobby - General)				
LED: ALR-029: Other:	1	18	12	212
8-Fitness (Gymnasium/Fitness Center:Exercise Area)				
LED: ALR-029: Other:	1	6	12	71
9-Common Space Types:Stairwell				
LED: ALR-030: Other:	1	17	31	530
10-Storage/ Housekeeping (Common Space Types:Storage)				
LED: ALB-007: Other:	1	8	50	400
LED: ALR-029: Other:	1	1	12	12
11-Common Space Types:Lobby For Elevator				
LED: ALR-029: Other:	1	10	12	118
LED: PG-400: Other:	1	4	3	12
			Total Proposed Watts =	12351

Interior Lighting PASSES: Design 52% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

DUNG VU, Ph.D, P.E, LEED AP — Name - Title
Signature
01/15/2026 — Date

1 IECC 2021 COMCHECK REPORT
INTERIOR LIGHTING REPORT
SCALE: N.T.S

COMcheck Software Version COMcheckWeb

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: StudioRes Marriott - Panama City Beach
Project Type: New Construction
Exterior Lighting Zone 3 (Other (LZ3))

Construction Site:
Panama, Florida

Owner/Agent:

Designer/Contractor:
Dung Vu, P.E. LEED AP
MEP Green Designs & Build, PLLC
915 Gemini ST
Suite 211
Houston 77058
281-786-1195

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Parking area	56200 ft2	0.06	Yes	3372
Entry canopy	612 ft2	0.4	Yes	245
		Total Tradable Watts (a) =		3617
		Total Allowed Watts =		3617
		Total Allowed Supplemental Watts (b) =		500

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 500 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Parking area (56200 ft2): Tradable Wattage				
LED: SB: Other:	2	9	410	3690
Entry canopy (612 ft2): Tradable Wattage				
LED: ALY-007: Other:	1	13	24	312
			Total Tradable Proposed Watts =	4002

Exterior Lighting PASSES: Design 3% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

DUNG VU, Ph.D, P.E, LEED AP — Name - Title
Signature
01/15/2026 — Date

2 IECC 2021 COMCHECK REPORT
EXTERIOR LIGHTING REPORT
SCALE: N.T.S

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JAN. 15, 2026

DUNG D. VU LICENSED No. 83000 STATE OF FLORIDA PROFESSIONAL ENGINEER

DUNG VU,
Ph.D. P.E. LEED AP

Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
ELECTRICAL
COMCHECK REPORT

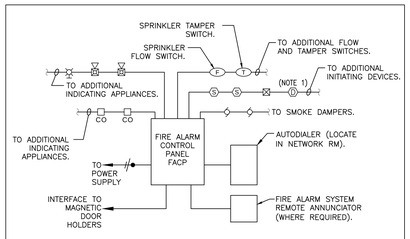
SHEET NUMBER:
E8.0

NOTE FOR FIRE ALARM SYSTEM:

FIRE ALARM SYSTEM SHALL BE SEPARATELY PERMITTED AND SUBMITTED BY THE FIRE ALARM CONTRACTOR.

FIRE ALARM SYMBOL LIST

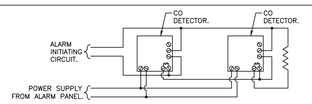
SYMB.	DESCRIPTION	MOUNTING OR AS INDICATED
⊠	FIRE ALARM MANUAL PULL STATION	WALL – 48"AFF
	ANNUNCIATOR AUDIO/VISUAL	WALL – 6'–8"AFF
	COMBINATION HORN/STROBE LIGHT	WALL – 6'–8"AFF
	GUESTROOM ANNUNCIATOR AUDIO	WALL – 6'–8"AFF
	STROBE LIGHT	WALL – 6'–8"AFF
	FIRE BELL	WALL
S	SMOKE DETECTOR	CEILING
D	DUCT DETECTOR	IN MECH. DUCT
H	HEAT DETECTOR	CEILING
■	MAGNETIC DOOR HOLDER	WALL
□	SPECIAL DEVICE (AS NOTED)	
F	FLOW SWITCH (SPRINKLER)	
T	TAMPER SWITCH (SPRINKLER)	
K S	SMOKE DETECTOR	WALL
□ CO	CARBON MONOXIDE DETECTOR	
▬	FIRE ALARM ANNUNCIATOR PANEL (FAAP)	
▭	FIRE ALARM CONTROL PANEL (FACP)	
♿	INDICATES HANDICAP ACCESS SUITE	
𝄉	INDICATES HEARING IMPAIRED SUITE	



NOTE: 1. COORDIANTE WITH THE MECHANICAL PLAN TO PROVIDE DUCT SMOKE DETECTORS WHERE REQUIRED.

FIRE ALARM WIRING DIAGRAM

SCALE: NTS



NOTE: 1. PLACEMENT OF THE CARBON MONOXIDE DETECTOR SHALL BE PER MANUFACTURES RECOMMENDATION.

2. THE CARBON MONOXIDE DETECTOR SHALL BE DESIGNED TO DETECT CARBON MONOXIDE GAS FROM ANY SOURCE OF COMBUSTION.

3. THE CARBON MONOXIDE DETECTOR SHALL ONLY INDICATE THE PRESENCE OF CARBON MONOXIDE GAS AT THE SENSOR.

4. VERIFY THE POWER REQUIREMENTS FOR THE CO DETECTORS WITH THE MANUFACTURER AND PROVIDE ACCORDINGLY.

CO DETECTOR ALARM CONNECTION DIAGRAM

SCALE: NTS

FIRE ALARM SEQUENCE OF OPERATION

A. GUESTROOM:

1. WHEN SMOKE IS SENSED IN A SUITE, SMOKE DETECTOR SHALL ACTIVATE HORN/STROBE WITHIN THAT SUITE ONLY.
2. AN ALARM SIGNAL SHALL BE SENT TO THE FIRE ALARM ANNUNCIATOR PANEL LOCATED AT FRONT DESK. FRONT DESK SHALL BE CONSTANTLY ATTENDED. THE AUTOMATIC FIRE ALARM CONTROL UNIT SHALL TRANSMIT AN ALARM TO THE FIRE DEPARTMENT OR MONITORING STATION. IF ROOM HAS MULTIPLE SMOKE DETECTORS, HORN/STROBE SHALL BE LINKED TOGETHER SO THAT WHEN DETECTOR GOES INTO ALARM ALL HORN SHALL SOUND AND STROBES SHALL FLASH.
3. FIRE ALARM CONTROL PANEL SHALL INDICATE WHICH ROOM IS IN ALARM.
4. HANDICAP SUITES SHALL HAVE ADDITIONAL STROBES LOCATED IN SUITES AS SHOWN ON DRAWINGS. WHEN SMOKE DETECTORS ARE IN ALARM THE HORN SHALL SOUND AND STROBES SHALL FLASH.

B. GENERAL ALARM:

1. WITH THE ACTIVATION OF ANY CORRIDOR, COMMON AREA, SMOKE DETECTOR, MANUAL PULL STATION OR SPRINKLER SYSTEM. THE FIRE ALARM SYSTEM SHALL AUTOMATICALLY GO INTO ALARM. ALL HORN SHALL SOUND AND STROBES SHALL FLASH THIS INCLUDES GUESTROOMS.
2. ELEVATOR SHAFT VENT DAMPERS SHALL ACTIVATE UPON ALARM FROM ANY SMOKE/HEAT DETECTOR LOCATED IN ELEVATOR LOBBY OR ELEVATOR SHAFT.
3. REFERENCE FIRE ALARM CONTROL DRAWINGS FOR SEQUENCE OF OPERATION OF ALL FIRE ALARM EQUIPMENT REQUIRED TO OPERATE UPON ACTIVATION OF FIRE ALARM.

C. SUPERVISORY ALARM:

1. SPRINKLER TAMPER SWITCH ACTIVATION SHALL INITIATE AN AUDIOVISUAL SUPERVISORY ALARM AT THE FIRE ALARM CONTROL UNIT. SPRINKLER TAMPER SWITCH ACTIVATION SHALL GENERATE A FULL FIRE ALARM ACTIVATION.
2. SUPERVISORY SIGNAL SHALL BE TRANSMITTED TO THE FIRE ALARM DEPARTMENT OR MONITORING STATION.

D. TROUBLE ALARM:

1. A TROUBLE ALARM SHALL INITIATE AN AUDIOVISUAL TROUBLE ALARM AT THE FIRE ALARM CONTROL UNIT.
2. A TROUBLE SIGNAL SHALL BE TRANSMITTED TO THE FIRE ALARM DEPARTMENT OR MONITORING STATION

FIRE ALARM/ DETECTION SYSTEM SEQUENCE OF OPERATION MATRIX

GENERAL NOTES:

- REFERENCE NUMBERS ARE SHOWN IN PARENTHESIS (1) FOR "NOTES / NOTATIONS" INDICATED BELOW AND IN HEADINGS TO THE RIGHT.
- FIRE ALARM SYSTEM DEVICES ARE POINT ADDRESSABLE.
- ON CAMPUS STYLE PROPERTIES, PROVIDE POINT ADDRESSJABLE INTELLIGENT NETWORKING REPORTING TO CONTINUOUSLY ATTENDED PROPERTY LOCATION.
- SPRINKLER SYSTEM WATER FLOW AND TAMPER SWITCH ALARMS ARE ANNUNCIATED ON THE FACP.

	SYSTEM SMOKE SENSORS (1)(10)	SYSTEM HEAT DETECTORS (7)	ELEVATOR LOBBY SMOKE DETECTORS (2)	GUESTROOM SYSTEM SMOKE SENSORS (3)	MANUAL PULL STATIONS	WATERFLOW SWITCHES	DRY SPRINKLER PRESSURE SWITCHES	TYPE 1–GREASE HOOD & DUCT FIRE SUPPRESSION	LOW/ HIGH AIR SUPPLY SWITCHES	DUCT SMOKE SENSORS	SPRINKLER VALVE TAMPER SWITCHES	CARBON MONOXIDE SIGNALS	
FACP: DISPLAY AN AUDIBLE/ VISUAL ALARM.	X	X	X	X	X	X	X	X	X	X	X	X	
REMOTE ANNUNCIATOR: DISPLAY AN AUDIBLE/ VISUAL ALARM.	X	X	X	X	X	X	X	X	X	X	X	X	
AUDIBLE/ VISUAL ALARMS: ACTIVATE AUDIBLE / VISUAL STROBE APPLIANCES ON AFFECTED FLOOR. (5)	X	X			X	X	X	X					
ASSEMBLY DOORS AND FIRE DOORS: RELEASE MAGNETIC DOOR HOLDERS ON AFFECTED FLOOR.	X	X				X	X						
SMOKE EXHAUST: AUTOMATICALLY ACTIVATE EXHAUST SYSTEM IN AFFECTED ZONES.	X	X				X (4)	X (4)						
GUESTROOM AUDIBLE ALARMS: ACTIVATE ALARMS IN ROOMS ON AFFECTED FLOOR. (5)	X	X				X	X	X	X				
GUESTROOMS AUDIBLE / VISUAL SIGNALS: ACTIVATE BOTH SIGNALS IN HEARING IMPAIRED GUESTROOMS ON AFFECTED FLOOR. (5)	X	X				X	X	X	X				
LOCAL AUDIBLE ALARMS: ACTIVATE AUDIBLE ALARMS ONLY IN ROOMS CONTAINING ALARM.					X							X (6)	
GUESTROOM LOCAL AUDIBLE / VISUAL SIGNALS: ACTIVATE BOTH SIGNALS ONLY IN HEARING IMPAIRED GUESTROOM CONTAINING ALARM.					X							X (6)	
AIR HANDLERS: AUTOMATICALLY SHUT OFF ASSOCIATED AIR HANDLERS.										X			
COOKING AREA GAS / ELECTRIC: AUTOMATICALLY SHUT OFF ASSOCIATED COOKING LINE GAS & ELECTRIC AND MAKEUP AIR HANDLER.								X					
ELEVATOR PHASE 1 DESIGNATED LEVEL AND ALTERNATE LEVEL RECALL, PHASE 2 FIREFIGHTERS' IN–CAR OPERATION.			X										

NOTES/NOTATIONS:

(1) SYSTEM SMOKE SENSORS NOT LOCATED IN GUESTROOMS.

(2) PROVIDE ELEVATOR PHASE 1 DESIGNATED LEVEL AND ALTERNATE LEVEL RECALL, SHUNT RIP FUNCTION AND PHASE 2 FIREFIGHTERS' IN–CAR OPERATION IN COMPLIANCE WITH ASME A17.1, ELEVATOR CODE.

(3) GUESTROOM SMOKE SENSORS: PROVIDE PHOTOELECTRIC TYPE, WITH SOUNDER BASE (MINIMUM RATINGS OF 85 dBA, WITH 75 dBA "AT THE PILLOW"). IN SUITES, MULTIPLE SENSORS SHALL ACTIVATE SIMULTANEOUSLY.

(4) EXCEPT ON GUESTROOM FLOORS, WATER FLOW ALARMS SHALL NOT ACTIVATE SMOKE CONTROL EXHAUST FANS WHERE SMOKE CONTROL ZONES AND FIRE SPRINKLER ZONES DO NOT CORRESPOND.

(5) FIRE ALARMS SHALL ACTIVATE ONLY ON FLOOR OF ALARM. GOVERNING AUTHORITY MAY REQUIRE ADDITIONAL ZONING.

(6) CARBON MONOXIDE DETECTORS IN GUESTROOMS, PUBLIC AND BOH AREAS SHALL ACTIVATE AN ALARM IN THE GUESTROOM AND ROOMS OF INCIDENT AND AT THE FIRE ALARM CONTROL PANEL.

(7) HEAT DETECTORS ARE NOT RECOMMENDED SINCE FIRE SPRINKLERS SERVE THE SAME FUNCTION.

(8) PROVIDE POSITIVE ALARM SEQUENCE FOR NON–GUESTROOM SMOKE DETECTORS IN HIGH–RISE BUILDINGS. FOR ADDITIONAL DETAILS ON POSITIVE ALARM SEQUENCE REFER TO POSITIVE ALARM SEQUENCE HANDOUT.

FIRE ALARM NOTES:

1. THESE FIRE ALARM DOCUMENTS ARE INTENDED TO SHOW MINIMUM REQUIRED DETECTION AND NOTIFICATION DEVICES ONLY. THE AWARDED FIRE ALARM SUBCONTRACTOR IS RESPONSIBLE FOR A COMPLETE FIRE ALARM SYSTEM DESIGN. THE SUBCONTRACTOR IS REQUIRED TO PROVIDE ALL DEVICES REQUIRED TO MEET APPLICALE CODES, PROJECT SPECIFICATION REQUIREMENTS, AND THE AHJ REQUIREMENTS. THE SUBCONTRACTOR IS REQUIRED TO COMPLY WITH ALL PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA, INCLUDING SIGNED AND SEALED CALCULATIONS & SHOP DRAWINGS BY A QUALIFIED PROFESSIONAL ENGINEER. THE SUBCONTRACTOR SHALL PRODUCE SHOP DRAWINGS, REQUIRED BATTERY POWER CALCULATION, INTERCONNECTION WIRING DIAGRAMS, POWER SUPPLY DESIGN AND REQUIREMENTS, DATASHEETS, ETC. THESE DOCUMENTS SHALL SUBMITTED BY THE SUBCONTRACTOR FOR REVIEW AND/ OR APPROVAL BY THE AHJ AND ENGINEER AS REQUIRED.
2. PROVIDE AN ADDRESSABLE FIRE ALARM SYSTEM INCLUDING ALL NECESSARY COMPONENTS TO CREATE A COMPLETE, FULLY FUNCTIONAL, CODE COMPLIANT SYSTEM. PROVIDE EQUIPMENT, MATERIALS, INSTALLATION, WORKMANSHIP, INSPECTION, AND TESTING IN ACCORDANCE WITH THE REQUIRED AND ADVISORY PROVISIONS OF NFPA 72. GANGING DEVICES ON A MODULE IS NOT PERMITTED.
3. PROVIDE AN INTELLIGENT, ADDRESSABLE FIRE ALARM CONTROL PANEL (FACP) WITH 24VDC SYSTEM OPERATION. CONTROL PANEL SHALL COMPLY WITH UL 864. CABINET SHALL BE LOCKABLE STEEL CABINET
4. THE FIRE ALARM DRAWINGS ARE SCHEMATIC IN NATURE AND SHOW A MINIMAL QUANTITY OF DEVICES. THE FINAL QUANTITY AND LOCATION OF ALL DEVICES TO BE COMPLIANT WITH ALL APPLICABLE CODES AND STANDARDS SHALL BE PREPARED BY FIRE ALARM CONTRACTOR AND SUBMIT TO FIRE MARSHAL FOR FINAL APPROVAL. PROVIDE ADDITIONAL DEVICES WHEN REQUIRED FOR A FULLY FUNCTIONING FIRE ALARM SYSTEM AS REQUIRED BY NFPA 72
5. SMOKE DETECTORS SHALL BE INSTALLED MINIMUM 3'–0" FROM HVAC SUPPLY AIR DIFFUSERS.
6. CONNECT ALL FIRE/SMOKE DAMPERS TO POWER SUPPLY VIA FIRE ALARM RELAY. DAMPERS SHALL CLOSE UPON ACTIVATION OF BUILDING GENERAL ALARM.
7. PROVIDE SMOKE DETECTION IN ATTIC SPACE WHEN REQUIRED BY LOCAL AUTHORITIES.
8. VERIFY LOCATION OF THE FIRE ALARM CONTROL PANEL WITH THE LOCAL AUTHORITY HAVING JURISDICTION.
9. PROVIDE INTERLOCKS TO THE BUILDING FIRE ALARM SYSTEM TO PROVIDE AUTOMATIC SIGNALING TO AN APPROVED LOCATION WITH ADEQUATE DIALING AND COMMUNICATION SYSTEM TO ALERT THE LOCAL FIRE DEPARTMENT. A LEASED TELEPHONE LINE WILL BE PROVIDED BY THE OWNER.
10. ALL JUNCTION BOXES AND COVER PLATES TO EMERGENCY SYSTEM SHALL BE PAINTED RED FOR QUICK RECOGNITION.
11. REFERENCE FIRE ALARM DRAWINGS FOR EXACT LOCATION OF ALL FIRE ALARM EQUIPMENT AND FIRE/SMOKE DAMPERS.
12. ALL CONTROL AND ALARM CABLES SHALL BE INSTALLED IN CONDUIT.
13. CONTRACTOR SHALL VERIFY THAT THE QUANTITY AND LOCATIONS SHOWN ON THE DRAWINGS SHALL PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM TO THE OWNER.
14. FIRE ALARM CONTRACTOR SHALL PROVIDE FINAL LAYOUT AND PLACEMENT FOR ALL FIRE ALARM DEVICES TO MEET NFPA 72 AND LOCAL CODES AND ORDINANCES.
15. REQUIREMENTS FOR FIRE PROTECTION SERVICE EQUIPMENT AND MATERIAL SHALL HAVE BEEN TESTED BY AND LISTED BY UL AND/OR BY FM.
16. THE INSTALLING CONTRACTOR SHALL PROVIDE THE FOLLOWING: NICET FIRE ALARM TECHNICIANS TO PERFORM THE INSTALLATION OF THE SYSTEM. A NICET LEVEL 4 FIRE ALARM TECHNICIAN SHALL SUPERVISE THE INSTALLATION OF THE FIRE ALARM SYSTEM OR A FIRE ALARM TECHNICIAN WITH A MINIMUM OF 8 YEARS OF EXPERIENCE SHALL PERFORM/SUPERVISE THE INSTALLATION OF THE FIRE ALARM SYSTEM. THE FIRE ALARM TECHNICIANS SUPERVISING THE INSTALLATION OF EQUIPMENT SHALL BE FACTORY TRAINED IN THE INSTALLATION, ADJUSTMENT, TESTING, AND OPERATION OF THE EQUIPMENT SPECIFIED HEREIN AND ON THE DRAWINGS.
17. CONTRACTOR SHALL PROVIDE BREAKERS, CONDUIT, AND WIRING POWER FOR ALL BOOSTER POWER SUPPLIES AS REQUIRED PER THE FIRE ALARM VENDOR DRAWINGS.
18. PROVIDE MINIMUM 20 PERCENT SPARE ZONES FOR FOR ALARM CONTROL PANEL.
19. THE FIRE ALARM SYSTEM BACKUP BATTERIES SHALL BE CAPABLE OF POWERING THE LOAD FOR A DURATION OF NOT LESS THAN 24 HOURS, AS REQUIRED IN NFPA 72.
20. CONTRACTOR SHALL CONFIRM THE MAXIMUM SOUND PRESSURE LEVEL FOR AUDIBLE ALARM NOTIFICATION APPLIANCES SHALL BE 110 DBA AT THE MINIMUM HEARING DISTANCE FROM THE AUDIBLE APPLIANCE. WHERE THE AVERAGE AMBIENT NOISE IS GREATER THAN 95 DBA, VISIBLE ALARM NOTIFICATION APPLIANCES SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 72 AND AUDIBLE ALARM NOTIFICATION APPLIANCES SHALL NOT BE REQUIRED.
21. THE COMPLETE FIRE ALARM SYSTEM MUST BE TESTED, BALANCED, AND COMMISSIONED BY QUALIFIED COMMISSIONER AGENT DURING THE CONSTRUCTION PHASE PRIOR TO FULL OPERATION. FAILURE TO PROPERLY CONDUCT TESTING, BALANCING, AND COMMISSIONING THE FIRE ALARM SYSTEM SHALL RESULT IN SYSTEM DYSFUNCTION, WHICH IS FULLY RESPONSIBLE BY THE CONTRACTOR.
22. THE CONTRACTORS SHALL CONSTRUCT MEP SYSTEM ACCORDING TO MEPG'S PLANS, CALCULATION, DETAILS AND SPECIFICATION. ALL REQUESTS FOR ALTERNATE MATERIAL, EQUIPMENT AND SOLUTIONS MUST BE SUBMITTED THROUGH REQUEST FOR INFORMATION (RFI). FAILURE TO SUBMIT THE RFI SHALL RESULT IN THE DISAPPROVAL OF CHANGE ORDER (IF ANY) FOR THE PROPOSED ALTERNATE MATERIAL, EQUIPMENT, AND SOLUTION.
23. THE CONTRACTORS ARE REQUIRED TO FOLLOW THE SPECIFIED EQUIPMENT'S INSTALLATION MANUAL FROM THE MANUFACTURER.
24. THE CONTRACTORS ARE REQUIRED TO FOLLOW THE LOCAL BUILDING CODE OF AUTHORITY HAVING JURISDICTION.
25. PROVIDE OFF–SITE SUPERVISING STATION SERVICE THAT RECEIVES AND RECORDS ALL GENERAL FIRE ALARM SIGNALS AND NOTIFIED THE LOCAL FIRE DEPARTMENT.
26. FIRE ALARM PROGRAM MUST PROVIDE A CLEAR DESCRIPTION OF THE LOCATION OF DEVICES AND MUST MATCH THE FINAL ROOM NUMBER AND STAIR DESIGNATIONS.
27. FIRE ALARM SYSTEM MUST BE OF A MAKE AND MODEL THAT IS ON THE MARRIOTT APPROVED VENDORS LIST.
28. SYSTEM CO DETECTORS W/ AUDIBLE SOUNDER:
    + SHALL BE CAPABLE OF PROVIDING A TEMPORAL 4 LOCAL SIGNAL.
    + SHALL, UPON ACTIVATION, SOUND THE NOTIFICATION ALARM IN THE DETECTOR AND REPORT A SUPERVISORY ALARM AT THE FIRE ALARM PANEL.
31. THE CONTRACTOR MUST ENSURE ALL CANDELA RATINGS ON THE PLANS AND COMPLIANCE WITH NFPA 72 TABLES 18.5.5.4.1 (A) AND (B).
32. STROBES WITHIN THE SAME FIELD OF VIEW MUST BE SYNCHRONIZED.
33. PROVIDE ELEVATOR RECALL TO DESIGNATED PRIMARY AND SECONDARY FLOORS.
    + PRIMARY RECALL SHOULD RECALL TO THE GROUND FLOOR, AND SECONDARY RECALL SHOULD RECALL TO AN ALTERNATE FLOOR.
    + ELEVATORS TO ONLY GO INTO EMERGENCY RECALL FUNCTION UPON ACTIVATION OF THE AREA SMOKE DETECTOR LOCATED WITHIN THE ELEVATOR LOBBY, THE ELEVATOR SHAFT, OR THE ELEVATOR MACHINE ROOM.
34. SMOKE DETECTION MUST BE PROVIDED IAW MARRIOTT MODULE 14, SEC. 14.5.C.
35. CO DETECTION MUST BE PROVIDED IAW MARRIOTT MODULE 14, SEC. 14.5.D.
36. SMOKE DETECTORS FOR DOOR RELEASE SERVICE MUST MEET NFPA 101, SEC. 7.2.1.8.2. ALL STAIR DOORS HELD OPEN IN THE SAME STAIR ENCLOSURE MUST RELEASE TOGETHER.
37. THE CONTRACTOR HAS TO VERIFY WITH THE FIRE MARSHAL /LOCAL AHJ REGARDING THE REQUIREMENTS OF THE TWO–WAY COMMUNICATION SYSTEM AND PROVIDE THE SYSTEM ACCORDINGLY IF IT'S REQUIRED FOR THIS PROJECT. ALSO, EMERGENCY POWER SHALL BE PROVIDED FOR THE SYSTEM TO MEET CODE REQUIREMENTS.
38. THE CONTRACTOR HAS TO VERIFY WITH THE FIRE MARSHAL /LOCAL AHJ REGARDING THE REQUIREMENTS OF THE EMERGENCY RESPONDER RADIO COVERAGE SYSTEM AND PROVIDE THE SYSTEM ACCORDINGLY IF IT'S REQUIRED FOR THIS PROJECT. ALSO, EMERGENCY POWER SHALL BE PROVIDED FOR THE SYSTEM TO MEET CODE REQUIREMENTS.

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JAN. 15, 2026

DUNG D. VU
LICENSED
No. 83005
STATE OF FLORIDA
DUNG VU,
Ph.D, P.E, LEED AP

Project #:	2502
Issue Date:	01–15–2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Tanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

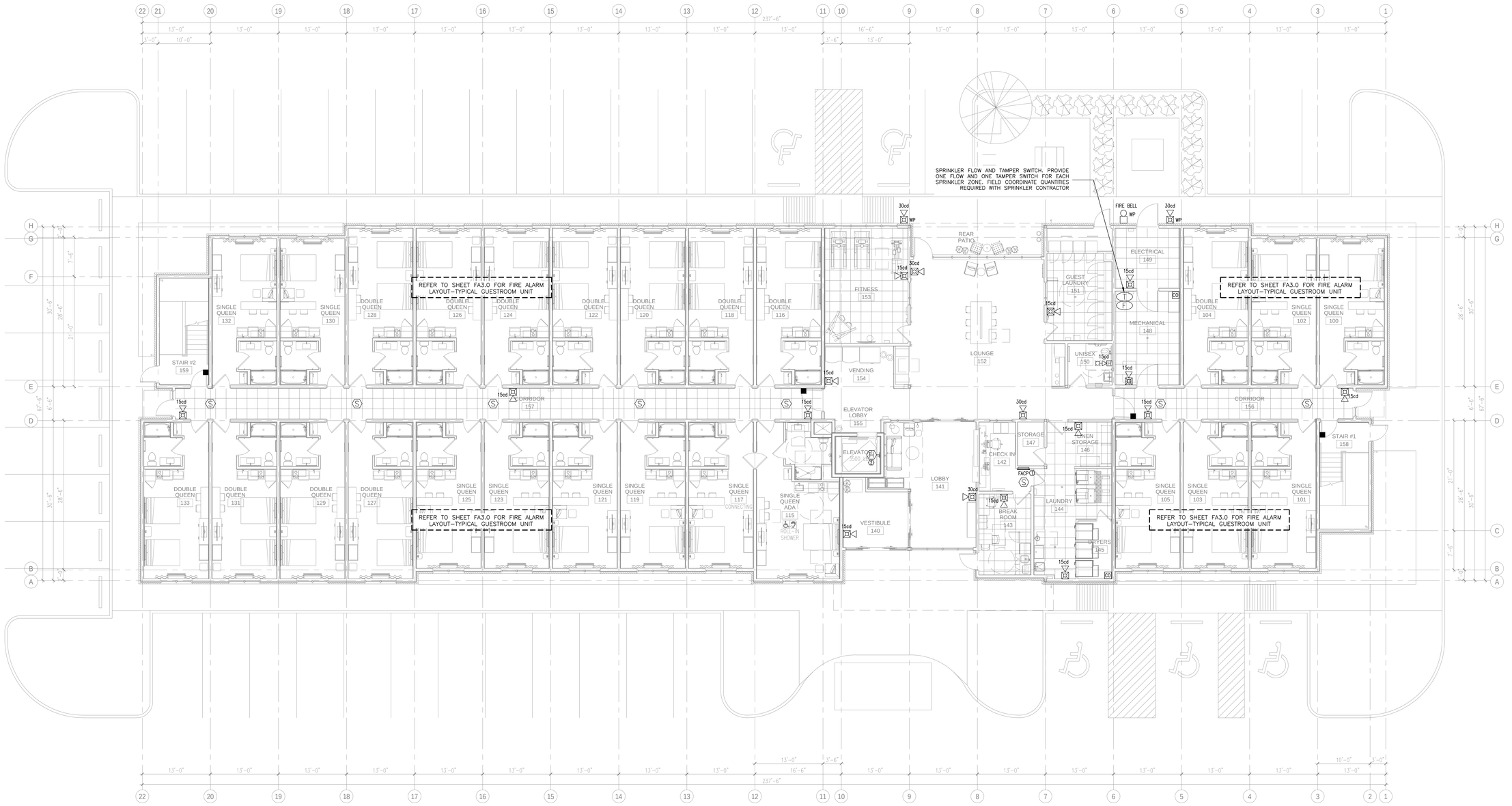
STUDIO**RES**

SHEET TITLE:

FIRE ALARM
ONE LINE DIAGRAM

SHEET NUMBER:

FA1.0



FIRE ALARM FIRST FLOOR PLAN

SCALE: 1/8"=1'–0"

FIRE ALARM SYMBOL LIST		
SYMB.	DESCRIPTION	MOUNTING OR AS INDICATED
⊠	FIRE ALARM MANUAL PULL STATION	WALL – 48"AFF
H	ANNUNCIATOR AUDIO/VISUAL	WALL – 6'–8"AFF
H	COMBINATION HORN/STROBE LIGHT	WALL – 6'–8"AFF
H	GUESTROOM ANNUNCIATOR AUDIO	WALL – 6'–8"AFF
H	STROBE LIGHT	WALL – 6'–8"AFF
□	FIRE BELL	WALL
S	SMOKE DETECTOR	CEILING
D	DUCT DETECTOR	IN MECH. DUCT
H	HEAT DETECTOR	CEILING
■	MAGNETIC DOOR HOLDER	WALL
□	SPECIAL DEVICE (AS NOTED)	
F	FLOW SWITCH (SPRINKLER)	
T	TAMPER SWITCH (SPRINKLER)	
H	SMOKE DETECTOR	WALL
□ CO	CARBON MONOXIDE DETECTOR	
▬	FIRE ALARM ANNUNCIATOR PANEL (FAAP)	
▬	FIRE ALARM CONTROL PANEL (FACP)	
♿	INDICATES HANDICAP ACCESS SUITE	
𝄉	INDICATES HEARING IMPAIRED SUITE	

⬡ KEYED NOTES

1. VERIFY LOCATION OF FACP WITH FIRE MARSHAL/ CITY INSPECTOR PRIOR TO INSTALLATION.
2. IF SPRINKLERS ARE INSTALLED IN THE HOISTWAY, THEN PER NFPA 72 AND NEC 620, A HEAT DETECTOR IS REQUIRED ABOVE EACH SPRINKLER HEAD, AND A SHUNT TRIP BREAKER MUST DISCONNECT POWER BEFORE WATER DISCHARGES.

NOTE FOR FIRE ALARM SYSTEM:

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JAN. 15, 2026

DUNG D. VU LICENSE No. 83005 STATE OF FLORIDA REGISTERED ARCHITECT

DUNG VU, Ph.D, P.E, LEED AP

Project #:	2502
Issue Date:	01–15–2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Tanes

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REVISIONS:

No.	Description	Date

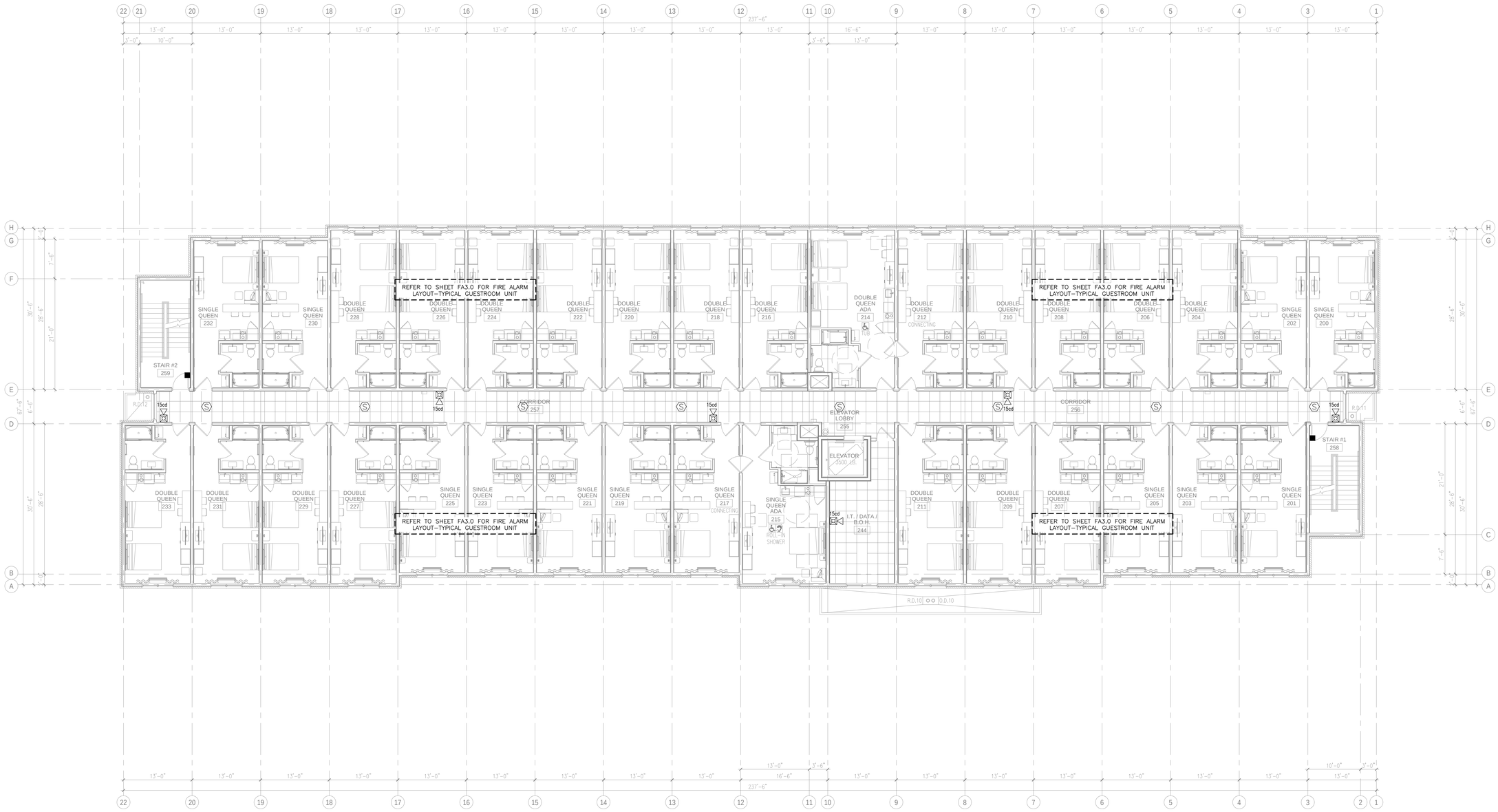
Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
FIRE ALARM
FIRST FLOOR PLAN

SHEET NUMBER:
FA2.0



FIRE ALARM SECOND FLOOR PLAN

1 SCALE: 1/8"=1'–0"

FIRE ALARM SYMBOL LIST		
SYMB.	DESCRIPTION	MOUNTING OR AS INDICATED
⊠	FIRE ALARM MANUAL PULL STATION	WALL – 48"AFF
	ANNUNCIATOR AUDIO/VISUAL	WALL – 6'–8"AFF
	COMBINATION HORN/STROBE LIGHT	WALL – 6'–8"AFF
	GUESTROOM ANNUNCIATOR AUDIO	WALL – 6'–8"AFF
	STROBE LIGHT	WALL – 6'–8"AFF
	FIRE BELL	WALL
(S)	SMOKE DETECTOR	CEILING
(D)	DUCT DETECTOR	IN MECH. DUCT
(H)	HEAT DETECTOR	CEILING
■	MAGNETIC DOOR HOLDER	WALL
□	SPECIAL DEVICE (AS NOTED)	
(F)	FLOW SWITCH (SPRINKLER)	
(T)	TAMPER SWITCH (SPRINKLER)	
(S)	SMOKE DETECTOR	WALL
CO	CARBON MONOXIDE DETECTOR	
▬	FIRE ALARM ANNUNCIATOR PANEL (FAAP)	
▬	FIRE ALARM CONTROL PANEL (FACP)	
♿	INDICATES HANDICAP ACCESS SUITE	
?	INDICATES HEARING IMPAIRED SUITE	

NOTE FOR FIRE ALARM SYSTEM:

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JAN. 15, 2026

DUNG D. VU LICENSED No. 83005 STATE OF FLORIDA

DUNG VU, Ph.D, P.E, LEED AP

Project #:	2502
Issue Date:	01–15–2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Tanes

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REVISIONS:

No.	Description	Date

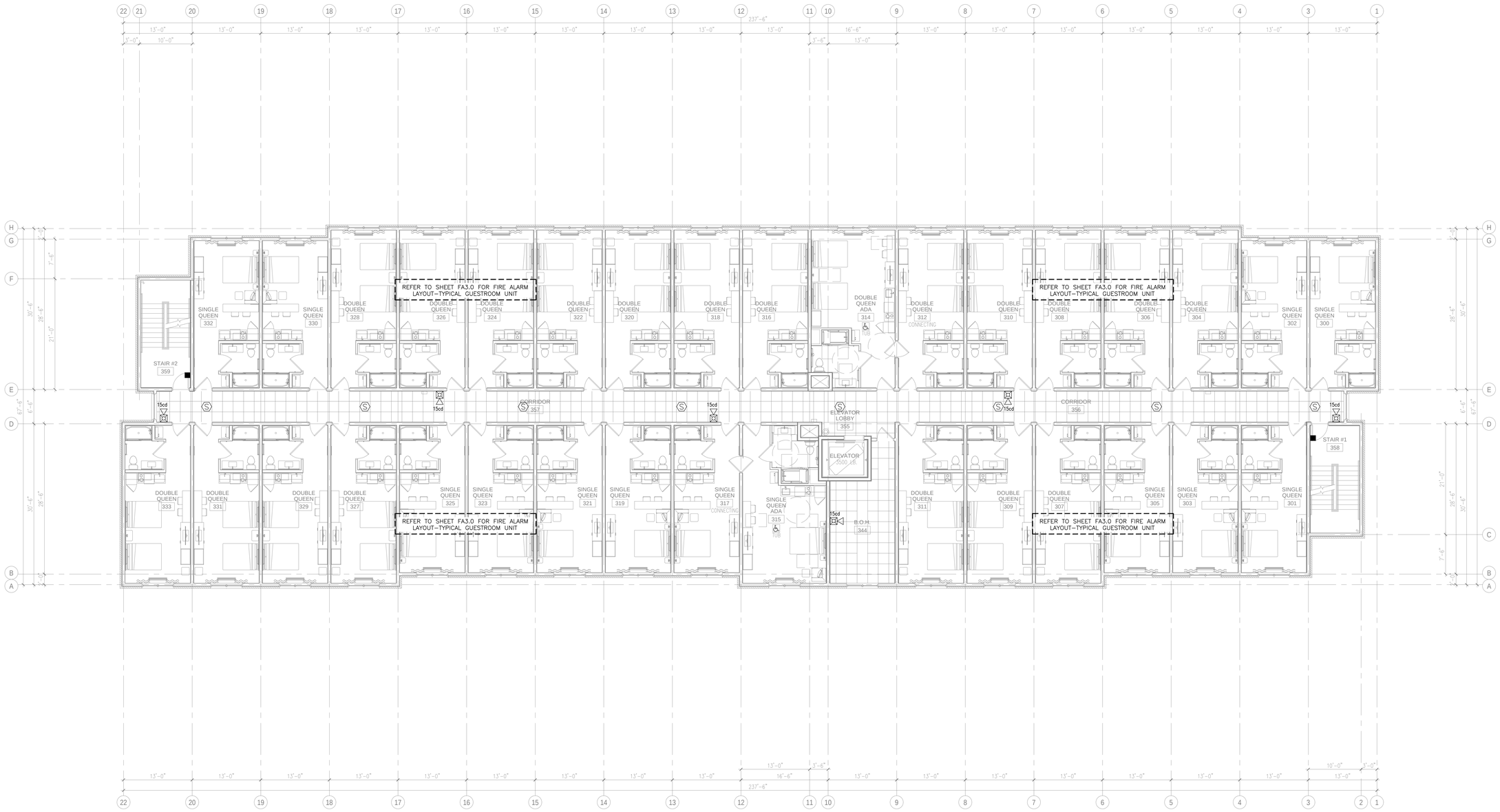
Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
FIRE ALARM
SECOND FLOOR PLAN

SHEET NUMBER:
FA2.1



1 FIRE ALARM THIRD FLOOR PLAN

SCALE: 1/8"=1'–0"

FIRE ALARM SYMBOL LIST		
SYMB.	DESCRIPTION	MOUNTING OR AS INDICATED
⊠	FIRE ALARM MANUAL PULL STATION	WALL – 48"AFF
	ANNUNCIATOR AUDIO/VISUAL	WALL – 6'–8"AFF
	COMBINATION HORN/STROBE LIGHT	WALL – 6'–8"AFF
	GUESTROOM ANNUNCIATOR AUDIO	WALL – 6'–8"AFF
	STROBE LIGHT	WALL – 6'–8"AFF
	FIRE BELL	WALL
Ⓢ	SMOKE DETECTOR	CEILING
Ⓓ	DUCT DETECTOR	IN MECH. DUCT
Ⓗ	HEAT DETECTOR	CEILING
■	MAGNETIC DOOR HOLDER	WALL
□	SPECIAL DEVICE (AS NOTED)	
Ⓕ	FLOW SWITCH (SPRINKLER)	
Ⓣ	TAMPER SWITCH (SPRINKLER)	
Ⓢ	SMOKE DETECTOR	WALL
□ CO	CARBON MONOXIDE DETECTOR	
▬	FIRE ALARM ANNUNCIATOR PANEL (FAAP)	
▬	FIRE ALARM CONTROL PANEL (FACP)	
♿	INDICATES HANDICAP ACCESS SUITE	
?	INDICATES HEARING IMPAIRED SUITE	

NOTE FOR FIRE ALARM SYSTEM:

1. FIRE ALARM SYSTEM SHALL BE SEPARATELY PERMITTED AND SUBMITTED BY THE FIRE ALARM CONTRACTOR.

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JAN. 15, 2026

DUNG D. VU
LICENSED
No. 83005
STATE OF FLORIDA

DUNG VU,
Ph.D, P.E, LEED AP

Project #:	2502
Issue Date:	01–15–2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Tanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

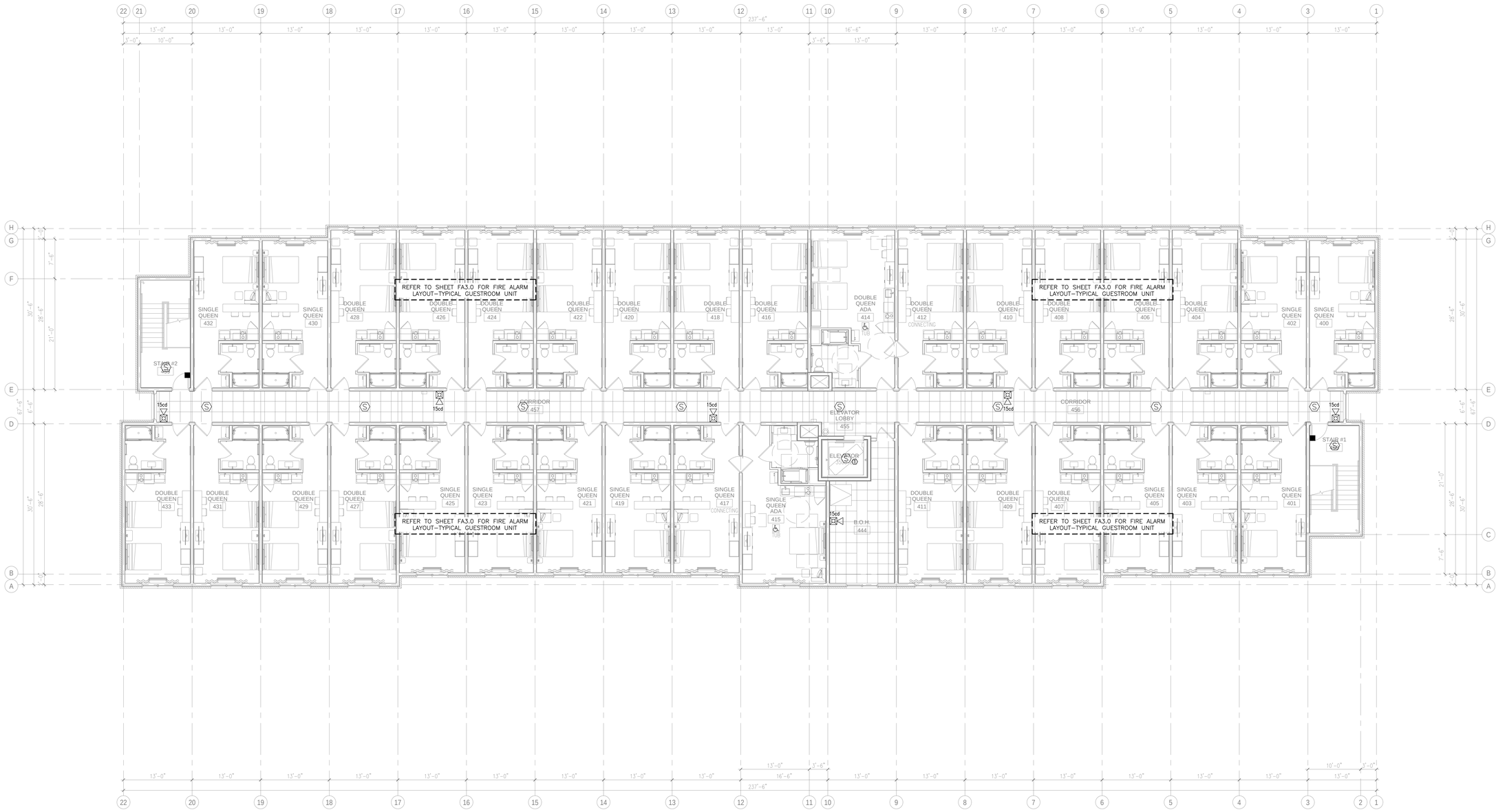
Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
FIRE ALARM
THIRD FLOOR PLAN

SHEET NUMBER:
FA2.2



1 FIRE ALARM FOURTH FLOOR PLAN

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

FIRE ALARM SYMBOL LIST		
SYMB.	DESCRIPTION	MOUNTING OR AS INDICATED
⊠	FIRE ALARM MANUAL PULL STATION	WALL – 48"AFF
	ANNUNCIATOR AUDIO/VISUAL	WALL – 6'-8"AFF
	COMBINATION HORN/STROBE LIGHT	WALL – 6'-8"AFF
	GUESTROOM ANNUNCIATOR AUDIO	WALL – 6'-8"AFF
	STROBE LIGHT	WALL – 6'-8"AFF
	FIRE BELL	WALL
Ⓢ	SMOKE DETECTOR	CEILING
Ⓓ	DUCT DETECTOR	IN MECH. DUCT
Ⓗ	HEAT DETECTOR	CEILING
■	MAGNETIC DOOR HOLDER	WALL
□	SPECIAL DEVICE (AS NOTED)	
Ⓕ	FLOW SWITCH (SPRINKLER)	
Ⓣ	TAMPER SWITCH (SPRINKLER)	
Ⓢ	SMOKE DETECTOR	WALL
CO	CARBON MONOXIDE DETECTOR	
▬	FIRE ALARM ANNUNCIATOR PANEL (FAAP)	
▬	FIRE ALARM CONTROL PANEL (FACP)	
♿	INDICATES HANDICAP ACCESS SUITE	
𝄉	INDICATES HEARING IMPAIRED SUITE	

⬡ KEYED NOTES

1. IF SPRINKLERS ARE INSTALLED IN THE HOISTWAY, THEN PER NFPA 72 AND NEC 620, A HEAT DETECTOR IS REQUIRED ABOVE EACH SPRINKLER HEAD, AND A SHUNT TRIP BREAKER MUST DISCONNECT POWER BEFORE WATER DISCHARGES.

NOTE FOR FIRE ALARM SYSTEM:

1. FIRE ALARM SYSTEM SHALL BE SEPARATELY PERMITTED AND SUBMITTED BY THE FIRE ALARM CONTRACTOR.

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JAN. 15, 2026

DUNG D. VU
LICENSE
No. 83005
STATE OF FLORIDA

DUNG VU,
Ph.D, P.E, LEED AP

Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Tanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

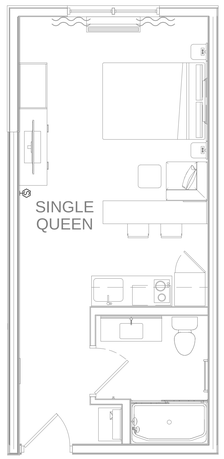
Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

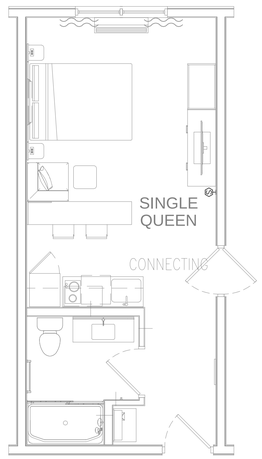
STUDIO**RES**

SHEET TITLE:
FIRE ALARM
FOURTH FLOOR PLAN

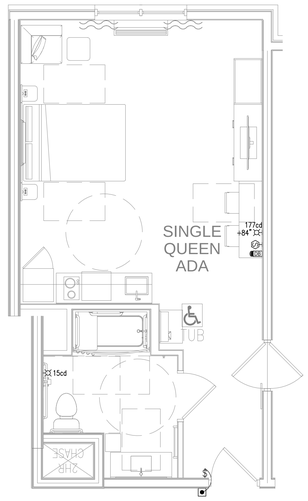
SHEET NUMBER:
FA2.3



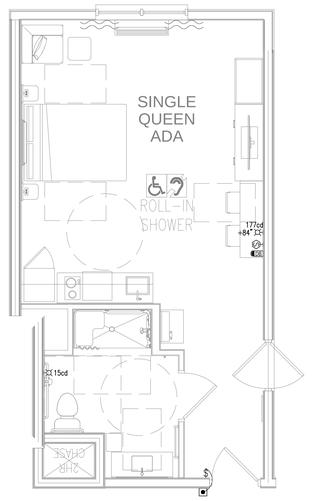
1 SINGLE QUEEN
SCALE: 1/4"=1'-0"



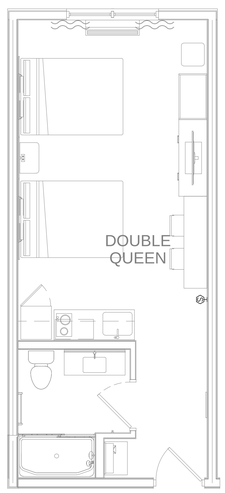
2 SINGLE QUEEN CONNECTING
SCALE: 1/4"=1'-0"



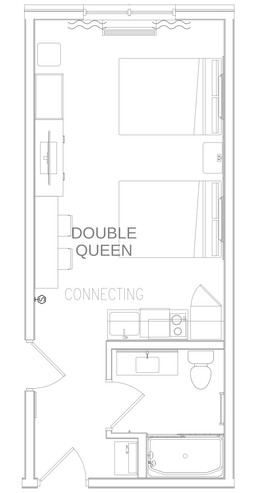
3 SINGLE QUEEN ADA (TUB)
SCALE: 1/4"=1'-0"



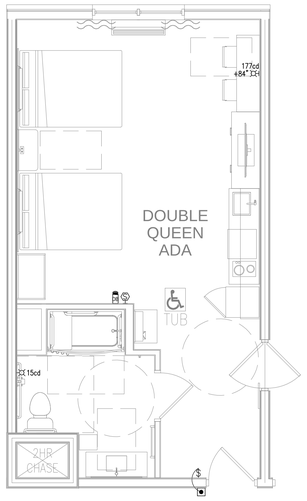
4 SINGLE QUEEN ADA (ROLL-IN SHOWER)
SCALE: 1/4"=1'-0"



5 DOUBLE QUEEN
SCALE: 1/4"=1'-0"



6 DOUBLE QUEEN CONNECTING
SCALE: 1/4"=1'-0"



7 DOUBLE QUEEN ADA
SCALE: 1/4"=1'-0"

NOTE FOR FIRE ALARM SYSTEM:

1.FIRE ALARM SYSTEM SHALL BE SEPARATELY PERMITTED AND SUBMITTED BY THE FIRE ALARM CONTRACTOR.

GENERAL NOTES:

A. GUEST ROOMS & BATHROOMS FOR ACCESSIBLE & HEARING IMPAIRED SHALL HAVE AN AUDIBLE & VISUAL ALARM ACTIVATED BY THE IN ROOM SMOKE DETECTOR & AN AUDIBLE & VISUAL ALARM ACTIVATED BY THE BLDG. FIRE ALARM SYSTEM.

B. INSTALL PUSH BUTTON AT EACH ACCESSIBLE & HEARING IMPAIRED ROOMS FOR VISUAL ALARM, NOTIFICATION DEVICES & TELEPHONES.

C. SMOKE DETECTORS IN EACH GUEST ROOM ALSO BE EQUIPPED WITH CO MONITORING (REFER TO SECTION 915 OF THE FIRE CODE FOR THE REQUIREMENTS OF CARBON MONOXIDE PROTECTION).

D. GUEST ROOM SMOKE DETECTORS:

- SHALL BE LOW VOLTAGE, PHOTOELECTRIC SMOKE DETECTORS WITH SOUNDER BASES THAT ARE BOTH POWERED AND MONITORED BY THE FACP PER MARRIOTT'S MODULE 14.
- SHALL BE EQUIPPED WITH SOUNDER BASES SHALL PROVIDE A MINIMUM AUDIBLE ALARM OF 85 DBA AT 10', AND A MINIMUM OF 75 DBA "AT THE PILLOW".
- SHALL, UPON ACTIVATION, IMMEDIATELY AND AUTOMATICALLY ACTIVATE AN ALARM IN THE DETECTOR SOUNDER BASE AND SEND A SUPERVISORY SIGNAL TO THE FIRE ALARM PANEL.
- SHALL BE PROVIDED IN EACH SEPARATE SLEEPING AREA, IN LIVING . ROOMS CONVERTIBLE TO SLEEPING AREAS, AND IN AREAS PROVIDING ACCESS TO THE CORRIDOR DOORWAY, AND SHALL BE INTERCONNECTED WITHIN A SINGLE UNIT.

E. GUEST ROOM STROBES FOR THE HEARING IMPAIRED SHALL FACE THE BED, BOTTOM OF THE LENS SHALL BE WITHIN 16 FEET OF THE PILLOWS AND AT LEAST 80 INCHES ABOVE THE FINISHED FLOOR. CD RATING WILL BE DETERMINED BY THE DISTANCE OF THE ENTIRE LENS BELOW THE CEILING WHILE MAINTAINING THE MINIMUM DISTANCE ABOVE THE FLOOR PER NFPA 72, TABLE 7.5.4.4.2.

F. ACTIVATION OF GUESTROOM SMOKE SENSOR SHALL IMMEDIATELY AND AUTOMATICALLY ACTIVATE AN ALARM IN THE DETECTOR SOUNDER BASE AND SEND A SUPERVISORY SIGNAL TO THE FIRE ALARM PANEL. MULTIPLE SMOKE DETECTORS IN A SINGLE UNIT SHALL BE INTERCONNECTED.

G. THE CONTRACTOR HAS TO DOUBLE-CHECK THE NUMBERS AND POSITIONS OF HEARING-IMPAIRED AND ADA /ACCESSIBLE ROOMS ON THE ARCHITECTURAL PLANS. THE CONTRACTOR SHALL INSTALL ALL FIRE ALARM DEVICES (DETECTORS, HORNS, STROBES, DOORBELLS, etc.) ACCORDING TO THE FRANCHISE AND CODES REQUIREMENTS.

H. PROVIDE FIRE ALARM MOCK-UP OF ONE ROOM OF EACH GUEST ROOM TYPE FOR OWNER, FRANCHISE, INTERIOR DESIGNER, AND CITY INSPECTOR APPROVAL PRIOR TO PROCEEDING WITH ALL ROOMS.

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JAN. 15, 2026

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Project #:	2502
Issue Date:	01-15-2026
Principal Architect:	Sid Parekh
Sr Project Architecture Tech:	Marco T. Yanes

CONSTRUCTION DOCUMENTS

REVISIONS:

No.	Description	Date

Panama City Beach, FL

??? S Thomas Dr, Panama City Beach, FL 32408, USA

STUDIO**RES**

SHEET TITLE:
FIRE ALARM TYPICAL GUESTROOM PLAN

SHEET NUMBER:

FA3.0