

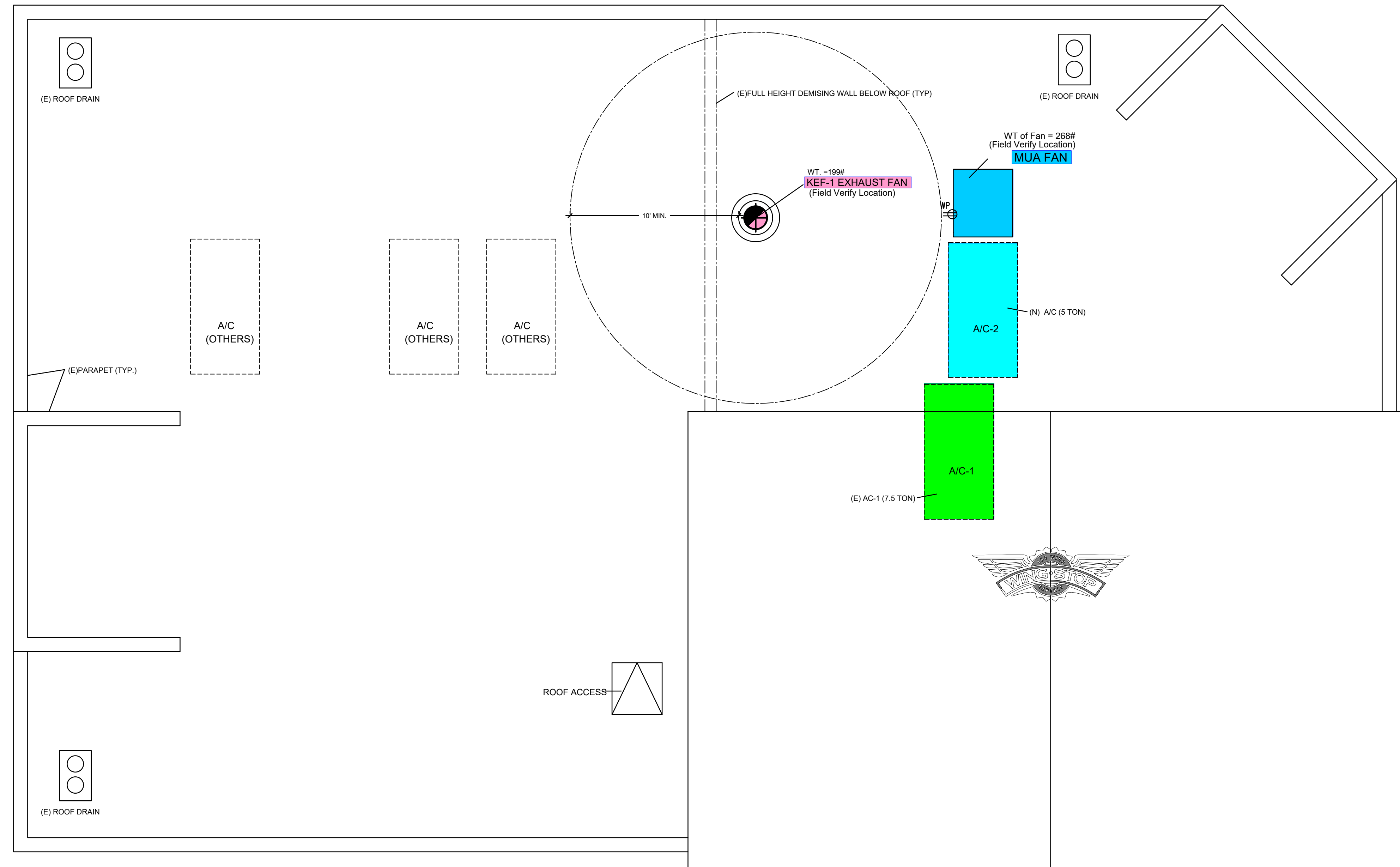
NOTE: EXHAUST OUTLETS SERVING GREASE DUCT SYSTEMS:

ROOF OUTLETS SHALL MEET THE FOLLOWING REQUIREMENTS:

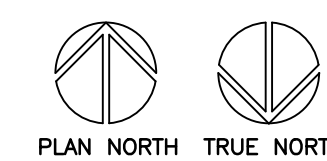
1. SHALL BE MINIMUM 24 INCHES ABOVE THE ROOF SURFACE WITH AIRFLOW DIRECTED UPWARDS.
3. SHALL BE MINIMUM 10 FEET FROM AIR INTAKE OPENING INCLUDING A/C UNITS, AIR INTAKE OPENINGS, WINDOWS, ETC.
3. SHALL BE MINIMUM 10 FEET ABOVE ADJOINING GRADE.
4. SHALL BE MINIMUM 10 FEET AWAY FROM PARTS OF THE SAME BUILDING INCLUDING PARAPETS, EQUIPMENT SCREENS, ROOF PUP OUT, ETC. AND ADJACENT/ ADJOINING BUILDINGS.

NOTE: UP BLAST GREASE EXHAUST FANS SHALL HAVE A HINGED BASE FOR CLEANING AT ROOF LEVEL.

NOTE: A 10' MINIMUM CLEARANCE IS REQUIRED FROM ALL PLUMBING AND EXHAUST VENTS TO AIR INTAKE VENTS.

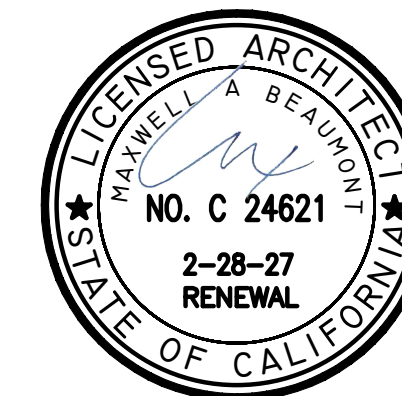


NOTE: A 10' MINIMUM CLEARANCE IS REQUIRED FROM ALL PLUMBING AND EXHAUST VENTS TO AIR INTAKE VENTS.



ROOF EQUIPMENT PLAN

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



REV. DATE	NO.
06-06-2025	1

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DWG DATE:
03/10/25

DRAWN BY:
EAL

EQUIPMENT
ROOF PLAN

M.I

2022 CAL GREEN REQUIREMENTS:
5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)(3) for additional testing requirements of specific systems.

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse systems.

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards, the National Environmental Balancing Bureau Procedural Standards, Associated Air Balance Council National Standards or as approved by the enforcing agency.

SECTION 5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992. Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

Notes:

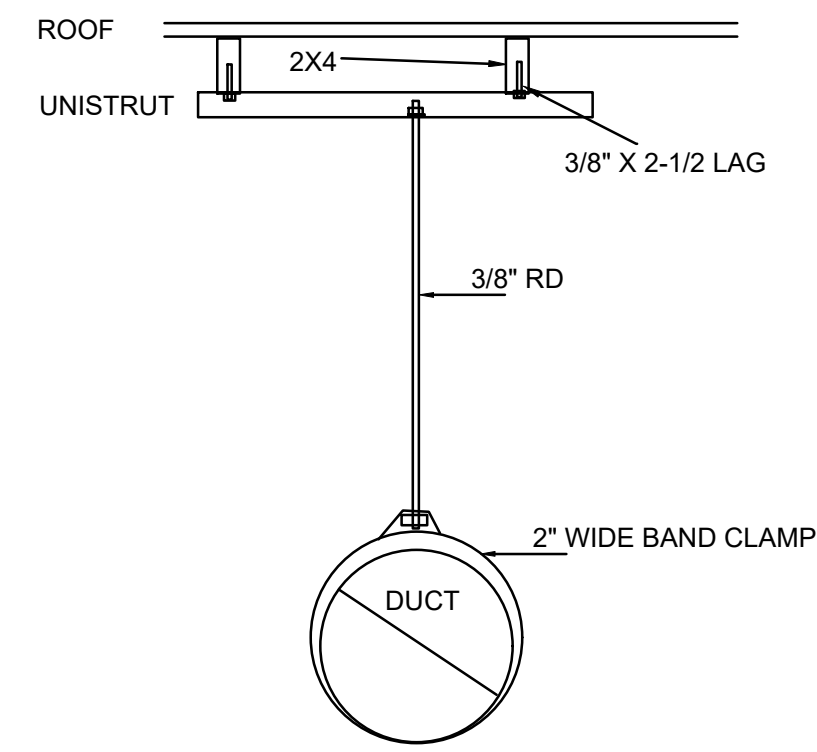
1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.



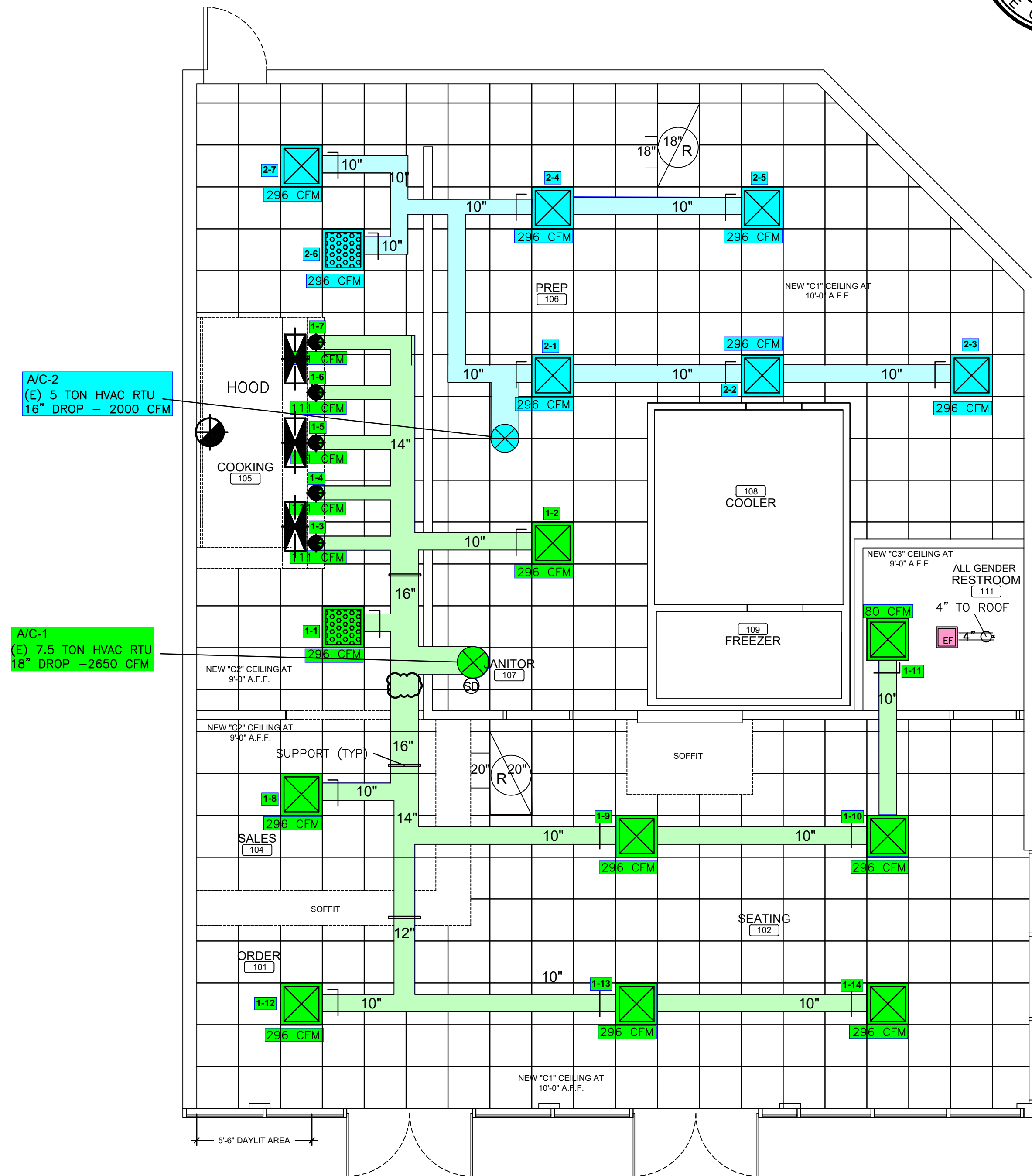
DUCT SUPPORT DETAIL
NTS

SYMBOL LEGEND			
MK. SYMBOL	SPECIFICATIONS	MOUNTING HT.	NOTES
EF	EXHAUST FAN: BROAN #HD80 80CFM SUPPLIER: MELETO ELECTRICAL SUPPLY	MOUNT TO SCHEDULED GYP CEILING	STANDARD WHITE COVER
	LAY-IN HVAC 2X2 SUPPLY REGISTER PROVIDED BY HVAC CONTRACTOR	MOUNT TO SCHEDULED ACOUSTICAL CEILING	SUPPLY REGISTERS AND EXPOSED DUCT TO BE PAINTED P6
N/A	LAY-IN HVAC 2X2 PERFORATED SUPPLY REGISTER PROVIDED BY HVAC CONTRACTOR	MOUNT TO SCHEDULED ACOUSTICAL CEILING LOCATED NEAR HOOD ONLY	SUPPLY REGISTERS AND EXPOSED DUCT TO BE PAINTED P6
N/A	HVAC SUPPLY REGISTER AT ROUND DUCT	MOUNT TO SCHEDULED DUCT AT A MINIMUM OF 8'-0" A.F.F., DUCT SUPPORTS SHALL BE STANDARD HVAC STYLE 2" WIDTH	SUPPLY REGISTERS AND EXPOSED DUCT TO BE PAINTED P6
	MUA PERFORATED SUPPLY PLENUM (AT HOOD)		
	AC PERFORATED SUPPLY PLENUM (AT HOOD)		
	2X4 RETURN REGISTER		
		SMOKE DETECTOR IN SUPPLY LINE IN AC-1 (MUST BE IN COMPLIANCE WITH CFC 907.3.1)	

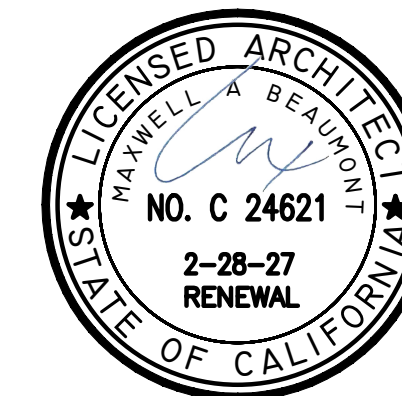
HVAC SCHEDULE

(E)AC-1	7.5 TON HVAC RTU ELECTRICAL - 208 V/3 Ph/60 Hz, 8.7 KW HEATING - 200,000 BTU SUPPLY AIR - 2650 CFM
(N)AC-2	5 TON HVAC RTU ELECTRICAL - 208 V/3 Ph/60 Hz, 8.7 KW HEATING - 200,000 BTU SUPPLY AIR - 2000 CFM

AIR BALANCE SCHEDULE:						
UNIT MARK	HVAC AIR	HVAC OUTSIDE AIR	MAKE-UP AIR	EXHAUST AIR	RETURN AIR	NOTES
AC-1	2650 CFM	500	-	-	-	EXISTING
AC-2	2000 CFM	300 CFM	-	-	-	
MUA	-	-	1998 CFM	-	-	
KEF-1	-	-	-	2475 CFM	-	
EF-1	-	-	-	80 CFM	-	
BLDG. TOTAL	4650 CFM	800 CFM	1998 CFM	2555 CFM	2443 CFM	NET 0 CFM
				MAKE UP:		
				A/C UNITS OUTSIDE AIR INTAKE	+800	
				FAN MAKE UP:	+1998	
					2798 CFM	
				EXHAUST:		
				HOOD EXHAUST	-2475	
				GENERAL EXHAUST	-80	
					2555 CFM	
				BALANCE RESULTS:		
				MAKE-UP	+2555	
				EXHAUST	-2555	
					0 CFM	



HVAC PLAN
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HVAC
FLOOR PLAN

M.2