



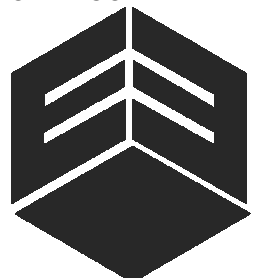


sweetgreen

3101 W. EXPOSITION BLVD.  
LOS ANGELES, CALIFORNIA 90018

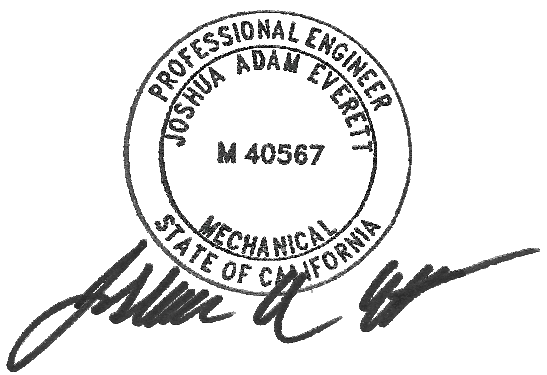
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ENGINEER OF RECORD:



EVERGREEN ENGINEERING, INC.  
1509 BUCK TRAIL LANE  
WORTHINGTON, OH 43085  
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STAMP:



11/18/2024

PROJECT INFORMATION:  
LAGUNA NIGUEL

PROJECT INFORMATION:  
27221 LA PAZ ROAD  
SUITE K  
LAGUNA NIGUEL, CA 92677

DRAWN BY: BRW  
CHECKED BY: XXX  
PROJECT MANAGER: XXX  
SG DESIGN MANAGER: XXX  
SG CONSTR. MANAGER: XXX  
PROJECT NO: XXXXXX  
TEMPLATE VERSION: 12/31/2024

REVISIONS  
REV. DATE DESCRIPTION

MECHANICAL  
SPECIFICATIONS

M-011

SECTION 23 34 33 - AIR CURTAINS

PART 1 - GENERAL

1. SECTION REQUIREMENTS

- A. SUBMITTALS: PROVIDE SHOP DRAWINGS INDICATING THE HEATING WATTAGE, ELECTRICAL CHARACTERISTICS, AIRFLOW CHARACTERISTICS, DIMENSIONS, WEIGHTS AND ACCESSORIES.
B. WARRANTY: PROVIDE MANUFACTURER'S WARRANTY EFFECTIVE FOR FIVE YEARS FOR UNHEATED UNITS, AND TWO YEARS FOR HEATED UNITS. THE GENERAL CONTRACTOR SHALL PROVIDE A 12 MONTH WARRANTY ON ALL WORKMANSHIP.

PART 2 - PRODUCTS

1. MANUFACTURERS: AS NOTED IN THE MECHANICAL SCHEDULES.

2. CHARACTERISTICS, PROVIDED WITH:

- A. CABINET: ALUMINIZED STEEL CABINET WITH STAINLESS STEEL RIVETED CONSTRUCTION AND WHITE POWDER COATED FINISH.
B. MOUNTING: PROVIDE WALL OR SUSPENDED MOUNTING AS REQUIRED.
C. SERVICE ACCESS: REMOVABLE SCREEN AND REMOVABLE BOTTOM ACCESS PANEL.
D. MOTORS: DIRECT DRIVE, RESILIENT MOUNTED, RATED FOR CONTINUOUS DUTY WITH INTERNAL THERMAL-OVERLOAD PROTECTION AND PERMANENTLY LUBRICATED SEALED BALL BEARINGS.
E. FANS: BALANCED, FORWARD CURVED CROSS FLOW MADE OF ALUMINUM.
F. DISCHARGE NOZZLES: PROVIDE UNIFORM VELOCITY ACROSS WIDTH OF AIR CURTAIN.
G. INLET: PROVIDED WITH PERFORATED PATTERN SCREEN.
H. HEATING ELEMENTS (WHEN NOTED ON PLANS): UL-APPROVED, FACTORY-MOUNTED, FACTORY WIRED, THERMALLY PROTECTED, IN GALVANIZED STEEL FRAME. HELICAL COIL DESIGN WITH THERMAL CUTOFF.
I. PROVIDE ALL ACCESSORIES AS NOTED IN THE SCHEDULES.
3. CONTROLS:
A. MANUAL SWITCH: FACTORY INSTALLED "FAN-OFF-FAN & HEAT" AND "HIGH-LOW" SWITCHES.
B. CONTROL PACKAGE: AIR CURTAIN SHALL TURN ON WHEN DOOR IS OPENED AND SHUT OFF WHEN DOOR IS CLOSED.
C. OUTDOOR AIR TEMPERATURE SENSOR (WHEN PROVIDED WITH A HEATING ELEMENT AND INDICATED ON PLANS).

PART 3 - EXECUTION

1. INSTALLATION

- A. INSTALL AIR CURTAIN WHERE INDICATED ON DRAWINGS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE CLEARANCE TO PERMIT SERVICING AND MAINTENANCE.
B. INSTALL LEVEL, PLUMB AND AS CLOSE AS PRACTICAL TO TOP OF OPENING AND FACE OF WALL.
C. INSTALL ALL ACCESSORIES.

2. CONNECTIONS

- A. CONNECT ELECTRICAL WIRING IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS.
B. GROUND EQUIPMENT IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS.

3. FIELD QUALITY AND CONTROL

- A. TEST AND OPERATE AIR CURTAIN TO VERIFY PERFORMANCE AS INDICATED.

4. ADJUSTING

- A. ADJUST MOTOR AND FAN SPEED TO PERFORM AS INDICATED.
B. ADJUST NOZZLES TO DEFLECT AIR OUTWARD UNLESS NOTED OTHERWISE.

(END OF SECTION 23 34 33)

SECTION 23 37 13 - GRILLES, REGISTERS & DIFFUSERS

PART 1 - GENERAL

1. SECTION REQUIREMENTS

- A. SUBMITTALS: NONE REQUIRED.

PART 2 - PRODUCTS

- 1. GRILLES: MANUFACTURER, MODEL, MATERIAL, FINISH, MOUNTING AND ACCESSORIES SHALL BE AS NOTED IN THE MECHANICAL SCHEDULES. NO SUBSTITUTIONS SHALL BE PERMITTED.
2. REGISTERS: MANUFACTURER, MODEL, MATERIAL, FINISH, MOUNTING AND ACCESSORIES SHALL BE AS NOTED IN THE MECHANICAL SCHEDULES. NO SUBSTITUTIONS SHALL BE PERMITTED.
3. DIFFUSERS: MANUFACTURER, MODEL, MATERIAL, FINISH, MOUNTING AND ACCESSORIES SHALL BE AS NOTED IN THE MECHANICAL SCHEDULES. NO SUBSTITUTIONS SHALL BE PERMITTED, UNLESS OTHERWISE NOTED. ALL CEILING DIFFUSERS SHALL BE FOUR-WAY.

PART 3 - EXECUTION

1. INSTALLATION

- A. INSTALL GRILLES, REGISTERS & DIFFUSERS LEVEL AND PLUMB.
B. INSTALL GRILLES, REGISTERS & DIFFUSERS AS INDICATED. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION.
C. INSTALL GRILLES, REGISTERS & DIFFUSERS WITH AIRTIGHT CONNECTIONS TO DUCTS AND TO ALLOW SERVICE AND MAINTENANCE OF DAMPERS, EXTRACTORS AND OTHER ACCESSORIES.
D. ALL AIR DEVICE COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC OR SHEET METAL UNTIL THE FINAL START-UP OF THE HEATING COOLING AND VENTILATION EQUIPMENT.
E. WHEN INDICATED ON THE PLANS, PAINT THE GRILLES, REGISTERS & DIFFUSERS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH AN ENAMEL PAINT, COLOR AS INDICATED.
F. AFTER INSTALLATION, ADJUST REGISTERS & DIFFUSERS TO AIR PATTERNS (IF NOTED) OR AS DIRECTED BY THE TENANT'S CONSTRUCTION MANAGER PRIOR TO STARTING AIR BALANCING.

(END OF SECTION 23 37 13)

SECTION 23 74 16 - PACKAGED ROOFTOP AIR-CONDITIONING UNITS

PART 1 - GENERAL

1. SECTION REQUIREMENTS

- A. SUBMITTALS: PROVIDE SHOP DRAWINGS INDICATING THE DIMENSIONS, WEIGHTS, REQUIRED CLEARANCES, COMPONENTS, EFFICIENCIES, CAPACITIES, ELECTRICAL CHARACTERISTICS AND LOCATION AND SIZE OF EACH FIELD CONNECTION FOR EACH RTU.
B. WARRANTY: SUBMIT A WRITTEN WARRANTY, SIGNED BY THE MANUFACTURER AGREEING TO REPAIR OR REPLACE COMPONENTS OF RTUS THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN 5 YEARS OF SUBSTANTIAL COMPLETION.

PART 2 - PRODUCTS

1. DESCRIPTION

- A. ASHRAE COMPLIANCE: COMPLY WITH ASHRAE 15 FOR REFRIGERATION SAFETY.
B. ENERGY COMPLIANCE: COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE ENERGY CODE LISTED ON THE COVER SHEET.
C. ELECTRICAL COMPONENTS, DEVICES AND ACCESSORIES SHALL BE LABELED AND LISTED AS DEFINED IN NFPA 70 BY A QUALIFIED TESTING AGENCY.
2. MANUFACTURERS: AS NOTED IN THE MECHANICAL SCHEDULES. ALTERNATES BY YORK OR HARRIER. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL STRUCTURAL, ELECTRICAL AND OTHER REQUIREMENTS RESULTING FROM THE SUBSTITUTION. ALL CHANGE ORDERS RESULTING IN THE USE OF AN ALTERNATE SHALL BE PAID FOR BY THIS CONTRACTOR.
3. CHARACTERISTICS, PROVIDED WITH:
A. CASING: GALVANIZED STEEL AND FACTORY-PAINTED FINISH, LINED WITH NEOPRENE-COATED FIBERGLASS. HINGED DOORS WITH TOOLLESS OPERATION.
B. SUPPLY AIR FAN: BELT DRIVEN, FORWARD CURVED CENTRIFUGAL.
C. CONDENSER-COIL FAN: PROPELLER, MOUNTED ON SHAFT OF PERMANENTLY LUBRICATED MOTOR.
D. SUPPLY-AIR REFRIGERANT COIL: ALUMINUM-PLATE FIN AND SEAMLESS COPPER TUBE IN STEEL CASING. CAPACITIES AS NOTED IN MECHANICAL SCHEDULES.
E. OUTDOOR-AIR REFRIGERANT COIL: ALUMINUM-PLATE FIN AND SEAMLESS COPPER TUBE IN STEEL CASING. AMBIENT TEMPERATURE AS NOTED IN MECHANICAL SCHEDULES.
F. ELECTRIC HEATING COIL: FACTORY PROVIDED. CAPACITY AND STEPS AS NOTED IN THE MECHANICAL SCHEDULES.
G. COMPRESSORS: HERMETIC, SCROLL MOUNTED ON VIBRATION ISOLATORS. REFER TO MECHANICAL SCHEDULES FOR NUMBER OF CIRCUITS.
H. GAS FURNACE: NATURAL GAS FIRED WITH CONTROLS, ELECTRONIC IGNITION, HIGH LIMIT CUTOFF AND PROVING SWITCH. CAPACITIES AS NOTED IN THE MECHANICAL SCHEDULES.
I. DAMPERS: PROVIDE WITH OUTDOOR AIR, RETURN AIR AND BAROMETRIC RELIEF DAMPERS. MODULATING MOTORS WITH ADJUSTABLE MINIMUM POSITION. COMPLY WITH ENERGY CODE REQUIREMENTS.
J. FILTERS: FILTER RACK WITH MERV 13 FILTERS.
K. ELECTRICAL CONNECTIONS: SINGLE POINT OF CONNECTION WITH UNIT-MOUNTED DISCONNECT SWITCH AND CONTROL-CIRCUIT TRANSFORMER WITH BUILT-IN OVERCURRENT PROTECTION.
L. ECONOMIZER: AS NOTED IN THE MECHANICAL SCHEDULES.
M. ACCESSORIES: AS NOTED IN THE MECHANICAL SCHEDULES.
4. CONTROLS:
A. SCHEDULED OPERATION: OCCUPIED AND UNOCCUPIED PERIODS ON SEVEN-DAY CLOCK WITH A MINIMUM OF TWO PROGRAMMABLE PERIODS PER DAY.
B. SUPPLY FAN OPERATION: AS NOTED IN THE SEQUENCE OF OPERATIONS.
C. REFRIGERANT CIRCUIT OPERATION: AS NOTED IN THE SEQUENCE OF OPERATIONS.
D. GAS FURNACE / ELECTRIC HEATING COIL OPERATION: AS NOTED IN THE SEQUENCE OF OPERATIONS.
E. OUTDOOR-AIR DAMPER OPERATION: AS NOTED IN THE SEQUENCE OF OPERATIONS.

PART 3 - EXECUTION

1. INSTALLATION

- A. ROOF CURB: INSTALL ON ROOF STRUCTURE, LEVEL, SECURE, PER STRUCTURAL DETAILS AND PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
B. UNIT SUPPORT: INSTALL UNIT LEVEL ON STRUCTURAL CURBS PER STRUCTURAL DETAILS AND PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
C. PROVIDE LABELING FOR ALL HVAC EQUIPMENT USING ENGRAVED PHENOLIC PLATES OR AS REQUIRED BY THE LANDLORD.

2. CONNECTIONS

- A. COMPLY WITH DUCT INSTALLATION REQUIREMENTS SPECIFIED IN OTHER HVAC SECTIONS. DRAWINGS INDICATE GENERAL ARRANGEMENTS OF DUCTS.
B. INSTALL DUCTS TO TERMINATION TO TOP OF ROOF CURB. REMOVE ROOF DECKING ONLY AS REQUIRED FOR PASSAGE OF DUCTS. DO NOT CUT OUT DECKING UNDER ENTIRE ROOF CURB. CONNECT SUPPLY AND RETURN DUCTS TO RTUS WITH FLEXIBLE DUCT CONNECTORS.
C. INSTALL CONDENSATE DRAIN WITH TRAP AND INDIRECT CONNECTION AS NOTED ON THE PLANS.
D. WHERE INSTALLING PIPING ADJACENT TO RTUS, ALLOW SPACE FOR SERVICE AND MAINTENANCE.
E. CONNECT GAS PIPING TO BURNER, FULL SIZE OF GAS TRAIN INLET, CONNECT WITH UNION, SHUTOFF VALVE AND DIRT LEG WITH SUFFICIENT CLEARANCE FOR BURNER REMOVAL AND SERVICE.
F. CONNECT ELECTRICAL WIRING IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS.
G. GROUND EQUIPMENT IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS.

3. FIELD QUALITY CONTROL

- A. AFTER INSTALLING RTUS, TEST UNITS FOR COMPLIANCE WITH REQUIREMENTS.
B. INSPECT AND REMOVE SHIPPING BOLTS, BLOCKS, TIE-DOWN STRAPS AND ANY OTHER SHIPPING RELATED MATERIALS INSIDE OR OUTSIDE OF THE UNIT PRIOR TO OPERATION.
C. CONFIRM PROPER MOTOR ROTATION AND UNIT OPERATIONS.
D. TEST AND ADJUST CONTROLS AND SAFETIES. REPLACE DAMAGED AND MALFUNCTIONING CONTROLS AND EQUIPMENT.
E. OPERATIONAL TEST: AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, START UNITS TO CONFIRM PROPER MOTOR ROTATION AND UNIT OPERATION.
F. CLEAN FILTER HOUSINGS AND CHANGE FILTERS PRIOR TO AIR BALANCE AND IMMEDIATELY PRIOR TO TURNOVER.

(END OF SECTION 23 74 16)

STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: sweetgreen - Laguna Niguel  
 Report Page: (Page 3 of 12)  
 Date Prepared: 2024-07-31 15:19:10-04:00

**F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)**

**Space Conditioning System Information**

System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
RTU-2 / RTU-3	2	Single zone	Alteration		<input type="checkbox"/>

**Dry System Equipment Sizing (Includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)**

Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a) & 170.2(c)3a	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available <sup>1</sup> 140.4(a) and 170.2(c)1	Equipment Sizing per Mechanical Schedule (kBtu/h)		Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
				Heating Output <sup>2,3</sup>	Cooling Output <sup>2,3</sup>		
RTU-1	Furnace + AC	AC, air cooled, single pkg + warm-air central furnace, gas-fired	Yes	162	162	0	81
RTU-2 / RTU-3	Furnace + AC	AC, air cooled, single pkg + warm-air central furnace, gas-fired	Yes	97.2	97.2	0	53.3

<sup>1</sup> FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are exempt.  
<sup>2</sup> It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.  
<sup>3</sup> If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.

<sup>4</sup> Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).

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 Report Generated: 2024-07-31 12:19:14

STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: sweetgreen - Laguna Niguel  
 Report Page: (Page 2 of 12)  
 Date Prepared: 2024-07-31 15:19:10-04:00

**C. COMPLIANCE RESULTS**

This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Summary	01	02	03	04	05	06	07	08	09	
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4	AND	Fans/Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	(See Table M)			
Yes	AND	AND	Yes	AND	Yes	AND	Yes	AND	Yes	

**Mandatory Measures Compliance (See Table Q for Details)** COMPLIES

**D. EXCEPTIONAL CONDITIONS**  
 This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.  
 The permit applicant has indicated on Table J that ventilation calculations have been attached or included elsewhere on the plans.

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

**F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)**

**Space Conditioning System Information**

System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
RTU-1	1	Single zone	Alteration		<input type="checkbox"/>

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 Report Version: 2022.0.000  
 Schema Version: rev 20220101  
 Compliance ID: 215718-0724-0007  
 Report Generated: 2024-07-31 12:19:14

STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: sweetgreen - Laguna Niguel  
 Report Page: (Page 1 of 12)  
 Date Prepared: 2024-07-31 15:19:10-04:00

**A. GENERAL INFORMATION**

01 Project Location (city)	Laguna Niguel	04 Total Conditioned Floor Area	2879.7
02 Climate Zone	6	05 Total Unconditioned Floor Area	0
03 Occupancy Types Within Project:		06 # of Stories (Habitable Above Grade)	1

• Restaurant

**B. PROJECT SCOPE**  
 This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b) and 180.2(b)2 for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
<input checked="" type="checkbox"/> Heating Air System	<input type="checkbox"/> Water Economizer	<input checked="" type="checkbox"/> Air Economizer
<input checked="" type="checkbox"/> Cooling Air System	<input type="checkbox"/> Pumps	<input type="checkbox"/> Electric Resistance Heat
Mechanical Controls	<input type="checkbox"/> System Piping	<input checked="" type="checkbox"/> Fan Systems
<input checked="" type="checkbox"/> Mechanical Controls (existing to remain, altered or new)	<input type="checkbox"/> Cooling Towers	<input checked="" type="checkbox"/> Ductwork (existing to remain, altered or new)
	<input type="checkbox"/> Chillers	<input checked="" type="checkbox"/> Ventilation
	<input type="checkbox"/> Boilers	<input type="checkbox"/> Zonal Systems/ Terminal Boxes

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 Report Generated: 2024-07-31 12:19:14

STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: sweetgreen - Laguna Niguel  
 Report Page: (Page 6 of 12)  
 Date Prepared: 2024-07-31 15:19:10-04:00

**H. FAN SYSTEMS & AIR ECONOMIZERS**

This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	RTU-1	RTU-2 / RTU-3	Quantity	Fan System Status	Alteration	System Zoning	Multi-zone VAV systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	2,400	Site Elevation	380	Economizer	Differential Enthalpy
RTU-2 / RTU-3	Supply	1													

<sup>1</sup> FOOTNOTES: Fans serving spaces with design background noise goals below NC35  
<sup>2</sup> Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.  
<sup>3</sup> Fan system allowance includes fan system base allowance.  
<sup>4</sup> Filter pressure loss can only be counted once per fan system.  
<sup>5</sup> Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.  
<sup>6</sup> Computer room economizers must meet requirements of 140.9(a) and will be documented on the NRCC-PRC-E document.

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 Report Generated: 2024-07-31 12:19:14

STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: sweetgreen - Laguna Niguel  
 Report Page: (Page 5 of 12)  
 Date Prepared: 2024-07-31 15:19:10-04:00

**H. FAN SYSTEMS & AIR ECONOMIZERS**

This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	RTU-1	RTU-2 / RTU-3	Quantity	Fan System Status	Alteration	System Zoning	Multi-zone VAV systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	4,000	Site Elevation	380	Economizer	Differential Enthalpy
RTU-1	Supply	1													

<sup>1</sup> FOOTNOTES: Fans serving spaces with design background noise goals below NC35  
<sup>2</sup> Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.  
<sup>3</sup> Fan system allowance includes fan system base allowance.  
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 Report Version: 2022.0.000  
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 Report Generated: 2024-07-31 12:19:14

STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: sweetgreen - Laguna Niguel  
 Report Page: (Page 4 of 12)  
 Date Prepared: 2024-07-31 15:19:10-04:00

**F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)**

**Dry System Equipment Efficiency (Other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)**

Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Design Efficiency		Efficiency Unit		Design Efficiency	
				Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Design Efficiency		
RTU-1	>=65kBtu cooling/ <225kBtu heating		AFUE	0.8	0.81	EER	11	11	14.6
RTU-2 / RTU-3	>=65kBtu cooling/ <225kBtu heating		AFUE	0.8	0.81	EER	11	11	14.6

**G. PUMPS**  
 This section does not apply to this project.

Generated Date/Time: Documentation Software: Energy Code Ace  
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 Report Version: 2022.0.000  
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 Compliance ID: 215718-0724-0007  
 Report Generated: 2024-07-31 12:19:14

STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: sweetgreen - Laguna Niguel  
 Report Page: (Page 9 of 12)  
 Date Prepared: 2024-07-31 15:19:10-04:00

**L. DISTRIBUTION (DUCTWORK AND PIPING)**

01	02	03	04	05	06	07	08	09	10
11	No	The scope of the project includes only duct systems serving healthcare facilities							
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.							
13	Yes	The space conditioning system serves less than 5,000 ft <sup>2</sup> of conditioned floor area.							
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system.							
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.							
16	Yes	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.							
17	Yes	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A							
18	Yes	All ductwork is an extension of an existing duct system							
19	No	Ductwork serving individual dwelling unit							
20	No	< 25 ft of new or replacement space conditioning ducts installed							
21	R-6	Duct Insulation R-value							
22	Yes	Ductwork Existing To Remain							
23	Yes	Duct System Connected To Altered Space Conditioning System							

**M. COOLING TOWERS**  
 This section does not apply to this project.

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 Report Version: 2022.0.000  
 Schema Version: rev 20220101  
 Compliance ID: 215718-0724-0007  
 Report Generated: 2024-07-31 12:19:14

**K. TERMINAL BOX CONTROLS**  
 This section does not apply to this project.

**L. DISTRIBUTION (DUCTWORK AND PIPING)**

This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing.

01	02	03	04	05	06	07	08	09	10

**Duct Leakage Testing**  
 The answers to the questions below apply to the following duct systems: Modified duct systems: NR/ Common Use: Duct leakage testing shall not exceed 15% per NA7.5.3 required for these systems? No

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 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance  
 Report Version: 2022.0.000  
 Schema Version: rev 20220101  
 Compliance ID: 215718-0724-0007  
 Report Generated: 2024-07-31 12:19:14

**Fan Energy Index (FEI)**

01	02	03
Name or Item Tag	FEI Exception	FEI
RTU-1	Embedded Fan Regulated under 110.2 or 110.1	
RTU-2 / RTU-3	Embedded Fan Regulated under 110.2 or 110.1	

**I. SYSTEM CONTROLS**

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D, 170.2(c)4L or requirements in 141.0(b)2, 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09	10
System Name	System Zoning	Conditioned Floor Area Being Served (ft <sup>2</sup> )	Thermostats 110.2(b) & (c), 120.2(a), 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12, 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D	Direct Digital Control (DDC) per 120.2
RTU-1, RTU-2, RTU-3	Single zone	<= 25,000 ft <sup>2</sup>	Setback	NA: 7 day per 120.2(e)1	NA: Single Zone	DR Tstat per 110.12	NA: Single Zone	NA: Auto-closing doors	NA: Single Zone

<sup>1</sup> FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

**J. VENTILATION AND INDOOR AIR QUALITY**

This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1, 120.2(c)3B, 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and dining/nightclub/160.2, 160.3(a)3D, 170.2(a)4N, 170.2(a)4D for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflow may be shown on the plans or the calculations can be presented in a spreadsheet.

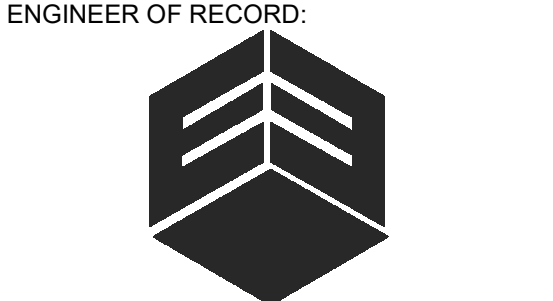
01	02	03
<input checked="" type="checkbox"/>	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.	
<input type="checkbox"/>	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces	
<input type="checkbox"/>	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2.	

Generated Date/Time: Documentation Software: Energy Code Ace  
 CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance  
 Report Version: 2022.0.000  
 Schema Version: rev 20220101  
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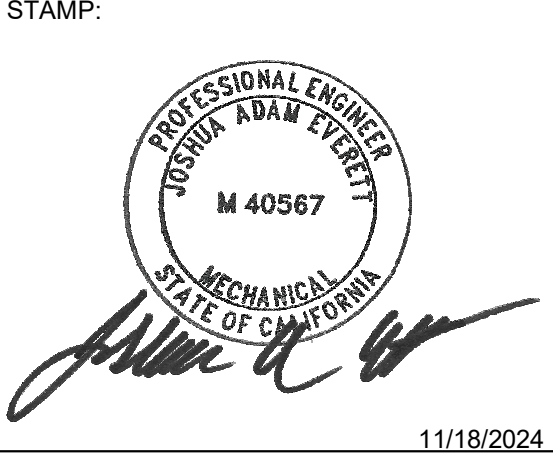


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EVER ENGINEERING, INC.  
 1509 BUCK TRAIL LANE  
 WORTHINGTON, OH 43085  
 www.everengineering.com



11/18/2024

PROJECT INFORMATION:  
**LAGUNA NIGUEL**  
 PROJECT INFORMATION:  
**27221 LA PAZ ROAD SUITE K LAGUNA NIGUEL, CA 92677**

DRAWN BY: Author  
 CHECKED BY: Checker  
 PROJECT MANAGER: XXX  
 SG DESIGN MANAGER: XXX  
 SG CONSTR. MANAGER: XXX  
 PROJECT NO: XXXXXX  
 TEMPLATE VERSION: 12/31/2024


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 REV. DATE DESCRIPTION

ENERGY COMPLIANCE FORMS

M-020

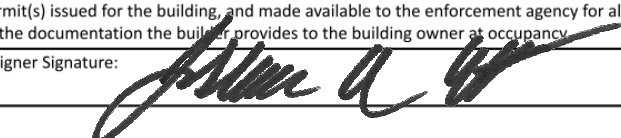
**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Joshua Everett	Documentation Author Signature: 
Company: Everj Engineering, Inc.	Signature Date: 07/31/2024
Address: 1509 Buck trail lane City/State/Zip: Worthington / OH / 43085	CA HERS Certification Identification (if applicable): Phone: 614-349-8054

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

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

Responsible Designer Name: Joshua Everett	Responsible Designer Signature: 
Company: Everj Engineering, Inc.	Date Signed: 07/31/2024
Address: 1509 Buck trail lane City/State/Zip: Worthington / OH / 43085	License: 40567 Phone: 614-349-8054

**Q. MANDATORY MEASURES DOCUMENTATION LOCATION**

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01	02
Compliance with Mandatory Measures documented through MCH	Plan sheet or construction document location
Mandatory Measures Note Block	No
03	04
Mandatory Measure	Plan sheet or construction document location
Heating Equipment Efficiency per 110.1	M-300
Cooling Equipment Efficiency per 110.1	M-300
Furnace Standby Loss Control per 110.2(d)	N/A
Duct Insulation per 120.4	M-010
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)	N/A
The air duct and plenum system is designed per 120.4(a)-(f)	M-010
Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of ASHRAE 62.2	N/A

**N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at <https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4>

Form/Title
NRCC-MCH-01-E - Must be submitted for all buildings

**O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at <https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4>

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	
NRCA-MCH-05-A - Air Economizer Controls	RTU-1, RTU-2 / RTU-3
NRCA-MCH-07-A Supply Fan Variable Flow Controls	RTU-2 / RTU-3
NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	RTU-1, RTU-2 / RTU-3

**P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**

There are no NRCV forms required for this project.

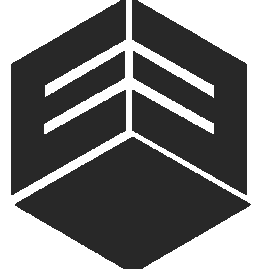


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11/18/2024

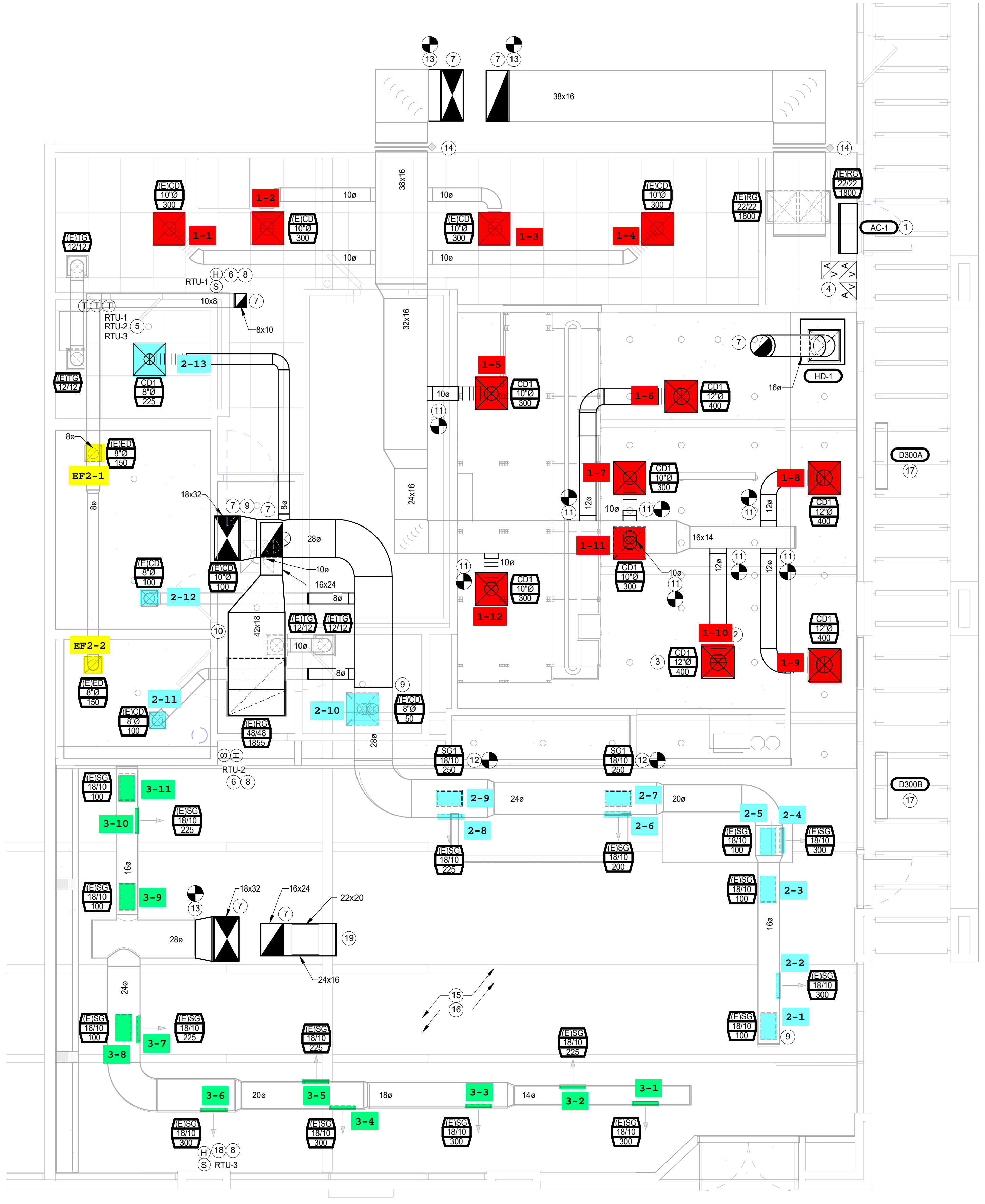
PROJECT INFORMATION:  
**LAGUNA NIGUEL**  
 PROJECT INFORMATION:  
**27221 LA PAZ ROAD**  
**SUITE K**  
**LAGUNA NIGUEL, CA 92677**

DRAWN BY: Author  
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 PROJECT MANAGER: XXX  
 SG DESIGN MANAGER: XXX  
 SG CONSTR. MANAGER: XXX  
 PROJECT NO: XXXXXX  
 TEMPLATE VERSION: 12/31/2024

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 REV. DATE DESCRIPTION

ENERGY COMPLIANCE FORMS

M-021



**HVAC PLAN**  
 1/4" = 1'-0"  
 TRUE PLAN NORTH

**CODED NOTES**

1. INSTALL EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTION AND PER THE STRUCTURAL DETAILS.
2. PROVIDE SUPPLY DIFFUSER CONNECTION PER DETAIL 1/SHEET M-400.
3. REFER TO THE ARCHITECTURAL RCP FOR CEILING MOUNTED EQUIPMENT LOCATION, TYPICAL.
4. PROVIDE AUDIOVISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET. WIRE A UNIT BACK TO EACH SMOKE DETECTOR. MOUNT UNIT 60" AFF. TYPICAL.
5. PROVIDE HONEYWELL TH8321R1001 THERMOSTATS WITH LOCKABLE COVERS (HONEYWELL CG511A1000 OR EQUAL) FOR THE MECHANICAL EQUIPMENT AT THIS LOCATION AT 48" AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THE AREA AND EXTEND WIRING TO REMOTE TEMPERATURE SENSOR AND UNITS. LABEL EACH THERMOSTAT ACCORDINGLY. COORDINATE THERMOSTAT LOCATION WITH WALL-MOUNTED EQUIPMENT SO THAT THE THERMOSTATS ARE NOT BLOCKED BY SHELVING, COAT RACKS OR DOORS.
6. INSTALL THE TEMPERATURE SENSOR FOR THE HVAC EQUIPMENT NOTED AT THIS LOCATION AT 5'-0" AFF. COORDINATION LOCATION WITH EQUIPMENT AND WALL MOUNTED FIXTURES AS REQUIRED SUCH THAT THE SENSOR IS NOT BLOCKED.
7. DUCTWORK TO/FROM ROOF. REFER TO SHEET M-200 FOR CONTINUATION.
8. INSTALL THE REMOTE HUMIDISTAT FOR THE HVAC EQUIPMENT NOTED AT THIS LOCATION IMMEDIATELY ABOVE THE TEMPERATURE SENSOR. COORDINATION LOCATION WITH EQUIPMENT AND WALL-MOUNTED FIXTURES AS REQUIRED SUCH THAT THE SENSOR IS NOT BLOCKED. ADJUST THE SENSOR FOR A DEADBAND TO ENERGIZE HOT GAS REHEAT WHEN THE HUMIDITY EXCEEDS 60% RELATIVE HUMIDITY AND TO DE-ENERGIZE WHEN THE HUMIDITY DROPS BELOW 50%.
9. RELOCATE THE EXISTING DUCTWORK AND DIFFUSERS TO LOCATION SHOWN. PROVIDE ADDITIONAL DUCTWORK FROM THE UNIT AS NECESSARY. FIELD-VERIFY INITIAL LOCATION AND COORDINATE WITH SITE CONDITIONS AS NECESSARY.
10. PROVIDE DUCTWORK FROM THE ROOFTOP UNIT AND CONNECT TO THE EXISTING RETURN GRILLE. FIELD-VERIFY EXACT LOCATION.
11. CONNECT TO THE EXISTING SUPPLY-AIR DUCTWORK IN APPROXIMATE LOCATION SHOWN. FIELD-VERIFY EXACT LOCATION.
12. PROVIDE DUCT-MOUNTED DIFFUSER ON EXISTING DUCTWORK. FABRICATE THE CONNECTION TO MATCH THE EXISTING GRILLE CONNECTIONS. PAINT TO MATCH EXISTING DUCTWORK/AIR DEVICES.
13. CONNECT TO THE EXISTING SUPPLY/RETURN AIR DUCTWORK. PROVIDE ALL DUCTWORK, TRANSITIONS AND ALL MATERIAL AND LABOR AS NECESSARY TO CONNECT TO THE EXISTING SYSTEM. FIELD-VERIFY EXACT LOCATION.
14. EXISTING FIRE DAMPER TO REMAIN. FIELD-VERIFY THAT THE INSTALLATION MEETS THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND THE CONDITION OF THE FUSIBLE LINK. REPAIR/REPLACE AS NECESSARY.
15. EXISTING AIR DEVICES THROUGHOUT TO REMAIN WHERE INDICATED WITH HALFTONE LINEWEIGHT. CLEAN FACEPLATES AND VERIFY ALL DAMPER FUNCTION. ENSURE AIRFLOW IS AS NOTED. REPAIR/REPLACE AS REQUIRED.
16. EXISTING DUCTWORK TO REMAIN WHERE INDICATED IN HALFTONE LINEWEIGHT. CLEAN ALL EXPOSED DUCTWORK.
17. EXISTING PATIO HEATER TO REMAIN. VERIFY THE CONDITION OF THE BURNER AND VALVE-TRAIN. REPAIR/REPLACE ALL DEFECTIVE PARTS TO RETURN TO A 'LIKE NEW' STATE.
18. INSTALL THE TEMPERATURE SENSOR FOR THE HVAC EQUIPMENT NOTED AT THIS LOCATION. IN AN INSULATED BOX, AT 5'-0" AFF. COORDINATION LOCATION WITH EQUIPMENT AND WALL-MOUNTED FIXTURES AS REQUIRED SUCH THAT THE SENSOR IS NOT BLOCKED.
19. PROVIDE DUCTWORK HELD TIGHT TO STRUCTURE ABOVE. PROVIDE OPENING, SIZED AS INDICATED ON THE TOP OF THE DUCTWORK AND PROVIDE 1"x1" WIRE MESH COVERING. BALANCE AS INDICATED IN THE SCHEDULES.

**SYMBOLS & ABBREVIATIONS**

**HVAC SYMBOLS**

	MITERED CORNER WITH TURNING VANES		THERMOSTAT
	DUCTWORK INTERNAL FREE DIMENSIONS (WIDTH/HEIGHT)		REMOTE TEMPERATURE SENSOR
	RECTANGULAR TO ROUND DUCT TRANSITION		PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
	DUCT-MOUNTED SMOKE DETECTOR		CONNECT TO EXISTING
	MOTOR-OPERATED DAMPER		EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M-300 FOR EQUIPMENT INFORMATION
	MANUAL VOLUME DAMPER		AUDIOVISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET
	MITERED CORNER WITHOUT TURNING VANES		TAG NECK SIZE AIRFLOW (CFM)
	CEILING DIFFUSER		
	CEILING-MOUNTED RETURN OR EXHAUST REGISTER		
	SUPPLY REGISTER		
	RETURN REGISTER		
	FLEXIBLE DUCT		

**HVAC ABBREVIATIONS**

(E)	EXISTING
(R)	RELOCATED
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
BC	BLOWER COIL
CD	CEILING DIFFUSER
CU	CONDENSING UNIT
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ER	EXHAUST REGISTER
EXTG	EXISTING
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
OB	BLADE DAMPER
PL	PLENUM
RG	RETURN GRILLE
RTU	ROOFTOP UNIT
SD	SLOT DIFFUSER
SG	SUPPLY GRILLE
SR	SUPPLY REGISTER
VSC	VARIABLE SPEED CONTROL
WSHP	WATER SOURCE HEAT PUMP



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 1509 BUCK TRAIL LANE  
 WORTHINGTON, OH 43085  
 www.everengineering.com

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 11/18/2024

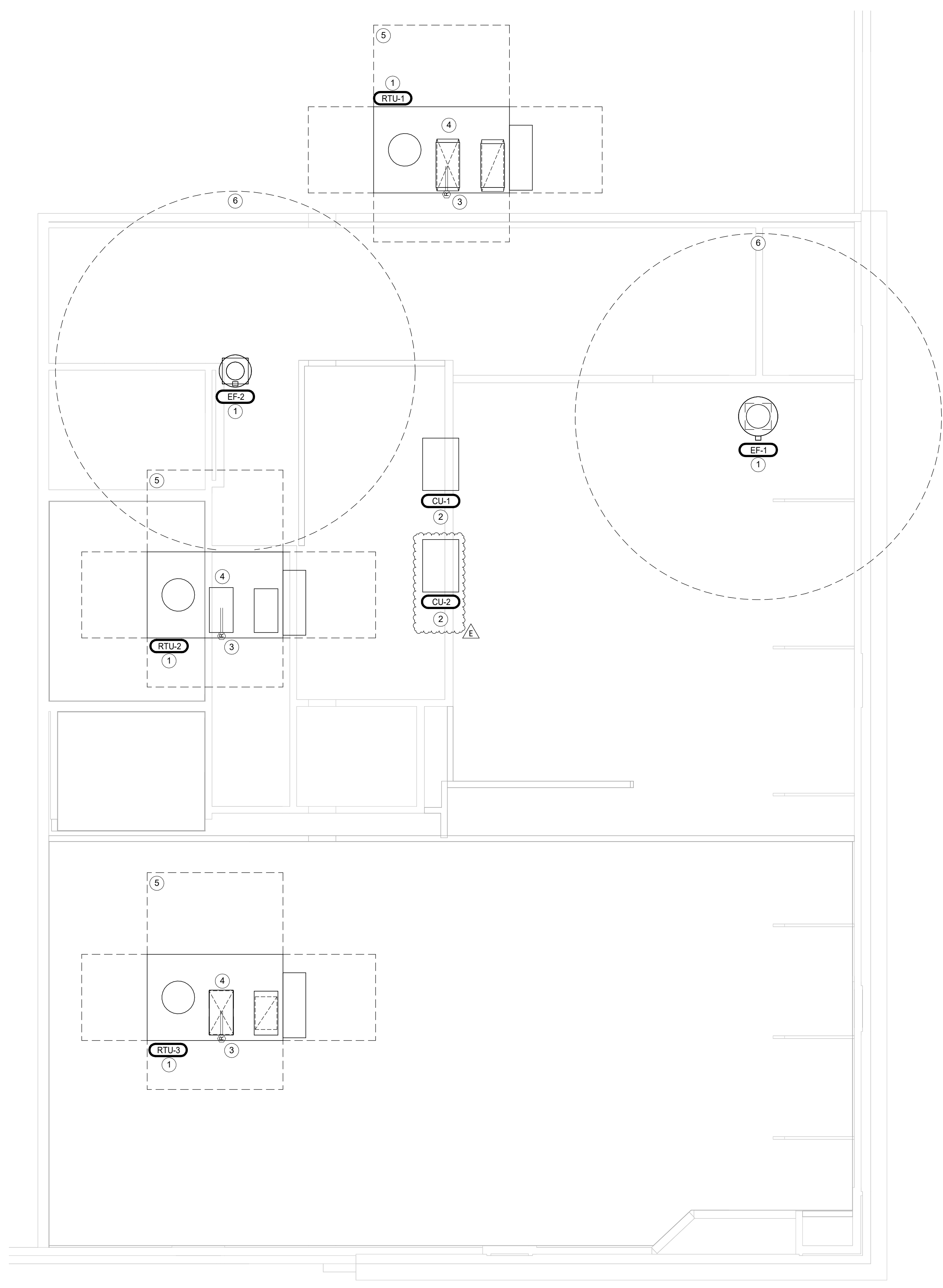
PROJECT INFORMATION:  
**LAGUNA NIGUEL**  
 27221 LA PAZ ROAD  
 SUITE K  
 LAGUNA NIGUEL, CA 92677

DRAWN BY: XXX  
 CHECKED BY: XXX  
 PROJECT MANAGER: XXX  
 SG DESIGN MANAGER: XXX  
 SG CONSTR. MANAGER: XXX  
 PROJECT NO: XXXXXX  
 TEMPLATE VERSION: 12/31/2024

REV.	DATE	DESCRIPTION

**HVAC PLAN**

**M-100**



**HVAC ROOF PLAN**  
 1/4" = 1'-0"

**GENERAL NOTES**

- 1 REPLACE THE EXISTING HVAC UNIT IN PLACE PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE CURBS, AND MODIFY ROOFING AS REQUIRED. WHEN REQUIRED BY THE LANDLORD, ROOFING SHALL BE COMPLETED BY THE LANDLORD'S ROOFER AT THE GENERAL CONTRACTOR'S EXPENSE.
- 2 COORDINATE MOUNTING LOCATION FOR WALK-IN COOLER CONDENSING UNIT, CU-1 ON THE ROOF WITH THE KITCHEN EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. ENSURE ALL CLEARANCE REQUIREMENTS FOR THE UNIT ARE MAINTAINED THROUGH CONSTRUCTION. PROVIDE ROOF RAILS AND INSTALL THE UNIT ON THE ROOF AS REQUIRED BY THE KITCHEN EQUIPMENT SUPPLIER. KITCHEN EQUIPMENT SUPPLIER SHALL PROVIDE LINESET, SPECIALTIES AND MAKE ALL FINAL CONNECTIONS BETWEEN THE CONDENSING UNIT AND EVAPORATOR COIL. COORDINATE WITH THE EQUIPMENT SUPPLIER AND PROVIDE PENETRATIONS AS NECESSARY.
- 3 THE GENERAL CONTRACTOR SHALL FURNISH A REME HALO AIR PURIFICATION SYSTEM AND REQUIRED TRANSFORMER, PURCHASED THROUGH SWEETGREEN'S VENDOR (NATIONAL TAB, CONTACT WILL TURNBOUGH [855-682-6822, EXT 4.2] [WILL@NATIONALTAB.COM]) AND INSTALL SYSTEM IN THE SUPPLY AIR PLENUM AND PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. ADJUST AS REQUIRED FOR THE SUPPLY AIRFLOW.
- 4 THE HVAC EQUIPMENT SHALL BE FURNISHED WITH AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE SUPPLY AIR STREAM. UPON DETECTION OF SMOKE, THE SUPPLY AIR FAN SHALL DE-ENERGIZE. COORDINATE ALL REQUIREMENTS WITH THE LANDLORD AND ALARM PROVIDER
- 5 MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCE ZONES. NO DUCTWORK, PIPING, CONDUIT OR OTHER SYSTEMS SHALL BE PERMITTED IN THIS AREA. COORDINATE WITH SITE CONDITIONS AND WORK OF OTHER TRADES AS REQUIRED. TYPICAL.
- 6 MAINTAIN A MINIMUM OF 10' CLEARANCE FROM THE DISCHARGE OF THE EXHAUST FAN AND ALL VENTILATION-AIR INTAKES.

**SYMBOLS & ABBREVIATIONS**

**HVAC SYMBOLS**

- MITERED CORNER WITH TURNING VANES
- DUCTWORK INTERNAL FREE DIMENSIONS (WIDTH/HEIGHT)
- RECTANGULAR TO ROUND DUCT TRANSITION
- DUCT-MOUNTED SMOKE DETECTOR
- MOTOR-OPERATED DAMPER
- MANUAL VOLUME DAMPER
- GREASE DUCT CLEANOUT
- MITERED CORNER WITHOUT TURNING VANES
- CEILING DIFFUSER
- CEILING-MOUNTED RETURN OR EXHAUST REGISTER
- SUPPLY REGISTER
- RETURN REGISTER
- FLEXIBLE DUCT
- THERMOSTAT
- REMOTE TEMPERATURE SENSOR
- PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
- CONNECT TO EXISTING
- EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M-300 FOR EQUIPMENT INFORMATION
- AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET
- TAG, NECK SIZE, AIRFLOW [CFM]

**HVAC ABBREVIATIONS**

- (E) EXISTING
- (R) RELOCATED
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AHU AIR HANDLING UNIT
- BC BLOWER COIL
- CD CEILING DIFFUSER
- CU CONDENSING UNIT
- EF EXHAUST FAN
- EG EXHAUST GRILLE
- ER EXHAUST REGISTER
- EXTG EXISTING
- GC GENERAL CONTRACTOR
- HES TENANT'S HVAC EQUIPMENT SUPPLIER
- KES TENANT'S KITCHEN EQUIPMENT SUPPLIER
- OBD BLADE DAMPER
- PL PLENUM
- RG RETURN GRILLE
- RTU ROOFTOP UNIT
- SD SLOT DIFFUSER
- SG SUPPLY GRILLE
- SR SUPPLY REGISTER
- VSC VARIABLE SPEED CONTROL
- WSHP WATER SOURCE HEAT PUMP

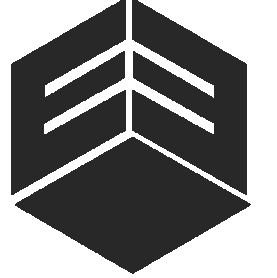


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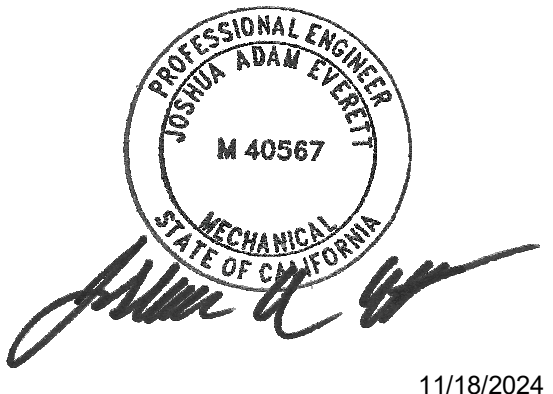
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STAMP:



11/18/2024

PROJECT INFORMATION:  
**LAGUNA NIGUEL**  
 PROJECT INFORMATION:  
**27221 LA PAZ ROAD**  
**SUITE K**  
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DRAWN BY: XXX  
 CHECKED BY: XXX  
 PROJECT MANAGER: XXX  
 SG DESIGN MANAGER: XXX  
 SG CONSTR. MANAGER: XXX  
 PROJECT NO: XXXXXX  
 TEMPLATE VERSION: 12/31/2024

REVISIONS  
 REV. DATE DESCRIPTION  
 E 12/12/2024 IFC

**HVAC ROOF PLAN**

**M-200**

### TRANE NATIONAL ACCOUNT - HVAC SYSTEM INFORMATION

EQUIPMENT SHALL BE PROCURED THROUGH A TRANE NATIONAL ACCOUNT. CONTACT THE TRANE NATIONAL ACCOUNT TEAM FOR HVAC SYSTEM INFORMATION:

TIM SMITH  
(920)-455-9261  
TIM.SMITH@TRANE.COM

- HVAC EQUIPMENT IS OWNER PURCHASED AND ASSIGNED TO THE INSTALLING CONTRACTOR.

- INSTALLING CONTRACTOR RESPONSIBLE TO VERIFY UNIT CONFIGURATIONS, COORDINATE DELIVERY WITH TRANE, RECEIVE & UNLOAD EQUIPMENT, INSPECT EQUIPMENT, PROPERLY INSTALL EQUIPMENT INCLUDING FIELD INSTALLED ITEMS, STARTUP, AND 1ST YEAR LABOR WARRANTY & ADMINISTRATION.

- ANY CHANGES OR VARIATION TO THE EQUIPMENT PACKAGE THAT WOULD AFFECT THE HVAC EQUIPMENT PACKAGE SHOULD BE BROUGHT TO THE ATTENTION OF THE TRANE NATIONAL ACCOUNT TEAM AT THE TIME OF QUOTATION.

### AIR BALANCE SCHEDULE

TAG	SUPPLY AIRFLOW (CFM)	RETURN AIRFLOW (CFM)	OUTSIDE AIRFLOW (CFM)	EXHAUST AIRFLOW (CFM)	SUBTOTAL (CFM)
EF-1	0	0	0	1090	-1090
EF-2	0	0	0	300	-300
RTU-1	4000	3600	400	0	400
RTU-2	2400	1855	545	0	545
RTU-3	2400	1855	545	0	545
NET PRESSURIZATION (CFM):					100

### MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALLOWABLE MATERIAL
DUCT	EXPOSED, SUPPLY	ROUND AS SHOWN, PAINTED TO MATCH ROOF DECK.
	EXPOSED, RETURN	ROUND AS SHOWN, PAINTED TO MATCH ROOF DECK.
	EXPOSED, VENTILATION AIR	DOUBLE-WALL INSULATED ROUND AS SHOWN, PAINTED TO MATCH ROOF DECK.
	CONCEALED, SUPPLY	RECTANGULAR OR ROUND AS SHOWN, INSULATED.
	CONCEALED, RETURN	RECTANGULAR OR ROUND AS SHOWN, INSULATED.
	CONCEALED, GEN. EXHAUST	RECTANGULAR OR ROUND AS SHOWN, INSULATED.
	CONCEALED, VENTILATION AIR	RECTANGULAR OR ROUND AS SHOWN, INSULATED.

### EXHAUST CALCULATIONS (PER TABLE 403.7 OF THE 2022 CALIFORNIA MECHANICAL CODE)

ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	NUMBER OF FIXTURES	FIXTURE BASED		AREA BASED			PROVIDED EXHAUST (CFM)
				EXHAUST AIRFLOW RATE (CFM)	REQUIRED EXHAUST (CFM)	AREA (SF)	Ra	REQUIRED EXHAUST (CFM)	
112	NORTH RR	RESTROOM	2	-50	-100	116.7	0	0	-150
113	SOUTH RR	RESTROOM	2	-50	-100	65.2	0	0	-150
115, 117, 120	KITCHEN	KITCHEN (COOKING)	0	0	0	1094	-0.7	-765.8	-1050

### VENTILATION CALCULATIONS, RTU-2 & RTU-3 (PER TABLE 402.1 OF THE 2022 CALIFORNIA MECHANICAL CODE)

ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	ROOM AREA (SF)	OCCUPANT BASED				AREA BASED			ZONE OUTDOOR AIRFLOW (CFM)
				OCCUPANT DENSITY	OCCUPANTS	Rp	VENTILATION (CFM)	Ra	VENTILATION (CFM)	EFFECTIVENESS	
116	DINING	DINING ROOM	1203.5	70	85	7.5	637.5	0.18	216.6	0.8	1067.7
118	OPERATIONS ROOM	STORAGE	44.9	2	1	5	5.0	0.06	2.7	0.8	9.6
121	RR VESTIBULE	CORRIDOR	82.7	0	0	0	0.0	0.06	5.0	0.8	6.2
										REQUIRED AIRFLOW (CFM)	1083.5
										PROVIDED AIRFLOW (CFM)	1090.0

### VENTILATION CALCULATIONS, RTU-1 (PER TABLE 402.1 OF THE 2022 CALIFORNIA MECHANICAL CODE)

ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	ROOM AREA (SF)	OCCUPANT BASED				AREA BASED			ZONE OUTDOOR AIRFLOW (CFM)
				OCCUPANT DENSITY	OCCUPANTS	Rp	VENTILATION (CFM)	Ra	VENTILATION (CFM)	EFFECTIVENESS	
115	WAREWASH PANEL AREA	STORAGE	212.6	2	1	5	5.0	0.06	12.8	0.8	22.2
114	OFFICE	OFFICE (ENCLOSED)	60.1	5	1	5	5.0	0.06	3.6	0.8	10.8
115, 117, 120	KITCHEN	KITCHEN (COOKING)	1094.0	20	22	7.5	165.0	0.12	131.3	0.8	370.4
										REQUIRED AIRFLOW (CFM)	370.4
										PROVIDED AIRFLOW (CFM)	400.0

### PATIO HEATER SCHEDULE

TAG	DESCRIPTION	GAS INPUT (BTU/H)	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	REMARKS
D300A	GAS-FIRED INFRARED PATIO HEATER	34,000	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING PATIO HEATER TO REMAIN
D300B	GAS-FIRED INFRARED PATIO HEATER	34,000	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING PATIO HEATER TO REMAIN
D300C	GAS-FIRED INFRARED PATIO HEATER	34,000	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING PATIO HEATER TO REMAIN
D300D	GAS-FIRED INFRARED PATIO HEATER	34,000	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING PATIO HEATER TO REMAIN
D300E	GAS-FIRED INFRARED PATIO HEATER	34,000	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING PATIO HEATER TO REMAIN
D300F	GAS-FIRED INFRARED PATIO HEATER	34,000	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING PATIO HEATER TO REMAIN
D300G	GAS-FIRED INFRARED PATIO HEATER	34,000	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING PATIO HEATER TO REMAIN

### GRILLS, REGISTERS, AND DIFFUSERS SCHEDULE

TAG	DESCRIPTION	FACE SIZE	MATERIAL	FINISH	MOUNTING	SUPPLIER	INSTALLER	MANUFACTURER	MODEL	REMARKS
CD1	PLAQUE FACE DIFFUSER	24" x 24"	ALUMINUM	WHITE	<varies>	GC	GC	TITUS	OMNI-AA	<varies>
ER4	PERFORATED CEILING EXHAUST	24" x 24"	ALUMINUM	WHITE	GYPSUM BOARD	GC	GC	TITUS	PAR-AA	
SG1	DOUBLE DIRECTIONAL SUPPLY REGISTER	REFER TO NECK SIZE	ALUMINUM	WHITE	SURFACE	GC	GC	TITUS	272RL	PROVIDE INTEGRAL OBD

### RECIRCULATING HOOD SCHEDULE

TAG	DESCRIPTION	MAX COOKING TEMP.	EXHAUST PLENUM AIRFLOW (CFM)	APPROXIMATE WEIGHT (lbs)	SUPPLIER	INSTALLER	ELECTRICAL DATA		BASIS FOR DESIGN		REMARKS
							WATTS	V/PH	MANUFACTURER	MODEL	
HD-1	VENTLESS CANOPY RECIRCULATING HOOD	N/A	415	175	KES	KES	170 W	120/160	RATIONAL	60.76.177	UL 710B COOKING APPLIANCE WITH A GREASE DISCHARGE LESS THAN 5.0 E-06 KG/CUBIC METER WHERE OPERATED WITH A TOTAL AIRFLOW OF 500 CFM

### FAN SCHEDULE

TAG	EXHAUST AIRFLOW (CFM)	E.S.P. (IN. W.C.)	DRIVE TYPE	MOTOR POWER (HP)	WEIGHT (LB)	ELECTRICAL				SUPPLIER	INSTALLER	MANUFACTURER	MODEL	REMARKS
						MCA (A)	MCCP (A)	V/PH						
EF-1	1090	0.6	DIRECT	0.50	125	10.5	15	120/160	GC	GC	CAPTIVEAIRE	DU50HFA	FURNISHED WITH DISCONNECT, SPEED CONTROLLER, BACKDRAFT DAMPER AND ROOF CURB.	
EF-2	300	0.6	DIRECT	0.25	100	3.7	15	120/160	GC	GC	CAPTIVEAIRE	DR12HFA	FURNISHED WITH DISCONNECT, SPEED CONTROLLER, BACKDRAFT DAMPER AND ROOF CURB.	

### AIR CURTAIN SCHEDULE

TAG	DESCRIPTION	OPENING WIDTH	AIRFLOW			ELECTRICAL				SUPPLIER	INSTALLER	MANUFACTURER	MODEL	REMARKS
			MAX VELOCITY (FPM)	AVERAGE VELOCITY (FPM)	AIRFLOW (CFM)	MCCP (A)	MCA (A)	V/PH						
AC-1	KITCHEN DOOR AIR DOOR	36"	3600	2118	1036	15	3.4	120/160	GC	GC	BERNER	MAX1036A	FURNISHED WITH DOOR-ACTIVATED SWITCH	

### CONDENSING UNIT SCHEDULE

TAG	DESCRIPTION	PAIRED WITH	NUMBER OF COMPRESSORS	REFRIGERANT TYPE	WEIGHT (LB)	ELECTRICAL				SUPPLIER	INSTALLER	MANUFACTURER	MODEL	REMARKS
						MCCP	FLA	V/PH						
CU-1	WALK-IN COOLER REMOTE CONDENSING UNIT	N/A	1	R448A	280	25	16.3	208/160	KES	GC / KES	BY KES	BY KES	FURNISHED WITH THE WALK-IN COOLER.	
CU-2	WALK-IN COOLER REMOTE CONDENSING UNIT	N/A	1	R448A	280	25	16.3	208/160	KES	GC / KES	BY KES	BY KES	FURNISHED WITH THE WALK-IN COOLER.	

### ROOFTOP UNIT SCHEDULE

TAG	DESCRIPTION	COOLING CAPACITY (TONS)	EER	AIRFLOW				COOLING				HEATING				ELECTRICAL										REMARKS		
				TOTAL (CFM)	RETURN (CFM)	OA (CFM)	E.S.P. (IN. W.C.)	NET TOTAL (MBH)	NET SENSIBLE (MBH)	EAT (DEG. F)	DB	WB	OAT (DEG. F)	INPUT (BTU/H)	OUTPUT (BTU/H)	EAT (DEG. F)	NUMBER OF COMPRESSORS	NUMBER OF CIRCUITS	REFRIGERANT CHARGE (LB)	WEIGHT (LB)	MCCP (A)	MCA (A)	V/PH	SUPPLIER	INSTALLER		MANUFACTURER	MODEL
RTU-1	KITCHEN ROOFTOP UNIT	10.0	11.0	4000	3600	400	0.8	108.8	81.0	75.3	64.1	101.0	200,000	162,000	56.5	2	1	10.7	1600	70	54.0	208/360	OWNER	GC	TRANE	YSJ-120	FURNISHED WITH HOT GAS REHEAT WITH REMOTE HUMIDISTAT, COMPARATIVE ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF AND FAULT DETECTION AND DIAGNOSTICS, MULTI-SPEED FAN, HINGED PANELS, SMOKE DETECTOR IN THE SUPPLY-AIR STREAM, MERV 13 FILTER, HAIL GUARD, DISCONNECT, UNPOWERED CONVENIENCE RECEPTACLE, AND 14" ROOF CURB.	
RTU-2	DINING ROOM ROOFTOP UNIT	6.0	1.0	2400	1855	545	0.8	68.1	53.3	78.2	65.0	101.0	120,000	97,200	62.4	2	1	10.3	1625	50	38.0	208/360	OWNER	GC	TRANE	YSJ-072	FURNISHED WITH HOT GAS REHEAT WITH REMOTE HUMIDISTAT, COMPARATIVE ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF AND FAULT DETECTION AND DIAGNOSTICS, MULTI-SPEED FAN, HINGED PANELS, SMOKE DETECTOR IN THE SUPPLY-AIR STREAM, MERV 13 FILTER, HAIL GUARD, DISCONNECT, UNPOWERED CONVENIENCE RECEPTACLE, AND 14" ROOF CURB.	
RTU-3	DINING ROOM ROOFTOP UNIT	6.0	1.0	2400	1855	545	0.8	68.1	53.3	78.5	65.0	101.0	120,000	97,200	62.4	2	1	10.3	1625	50	38.0	208/360	OWNER	GC	TRANE	YSJ-072	FURNISHED WITH HOT GAS REHEAT WITH REMOTE HUMIDISTAT, COMPARATIVE ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF AND FAULT DETECTION AND DIAGNOSTICS, MULTI-SPEED FAN, HINGED PANELS, SMOKE DETECTOR IN THE SUPPLY-AIR STREAM, MERV 13 FILTER, HAIL GUARD, DISCONNECT, UNPOWERED CONVENIENCE RECEPTACLE, AND 14" ROOF CURB.	

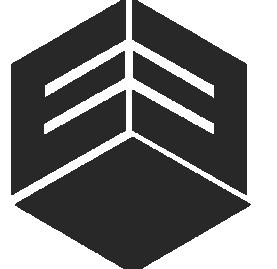


sweetgreen

3101 W. EXPOSITION BLVD.  
LOS ANGELES, CALIFORNIA 90018

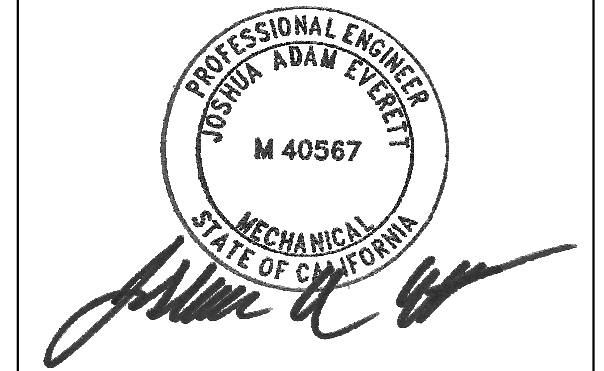
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ENGINEER OF RECORD:



EVER ENGINEERING, INC.  
1509 BUCK TRAIL LANE  
WORTHINGTON, OH 43085  
www.everengineering.com

STAMP:



11/18/2024

PROJECT INFORMATION:  
**LAGUNA NIGUEL**  
27221 LA PAZ ROAD  
SUITE K  
LAGUNA NIGUEL, CA 92677

DRAWN BY: XXX  
CHECKED BY: XXX  
PROJECT MANAGER: XXX  
SG DESIGN MANAGER: XXX  
SG CONSTR. MANAGER: XXX  
PROJECT NO: XXXXXX  
TEMPLATE VERSION: 12/31/2024

REVISIONS  
REV. DATE DESCRIPTION  
E 12/12/2024 IFC

HVAC SCHEDULES

M-300

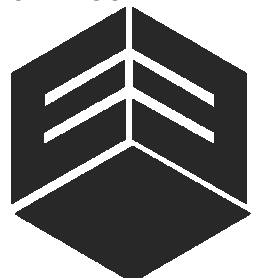


sweetgreen

3101 W. EXPOSITION BLVD.  
LOS ANGELES, CALIFORNIA 90018

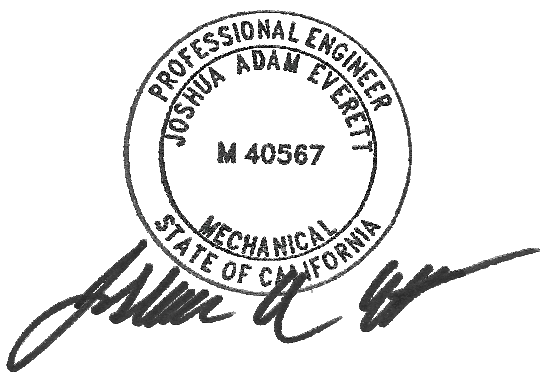
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ENGINEER OF RECORD:



EVER ENGINEERING, INC.  
1509 BUCK TRAIL LANE  
WORTHINGTON, OH 43085  
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STAMP:



11/18/2024

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LAGUNA NIGUEL, CA 92677**

DRAWN BY: XXX  
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SG DESIGN MANAGER: XXX  
SG CONSTR. MANAGER: XXX  
PROJECT NO: XXXXXX  
TEMPLATE VERSION: 12/31/2024

REVISIONS  
REV. DATE DESCRIPTION

HVAC DETAILS

M-400

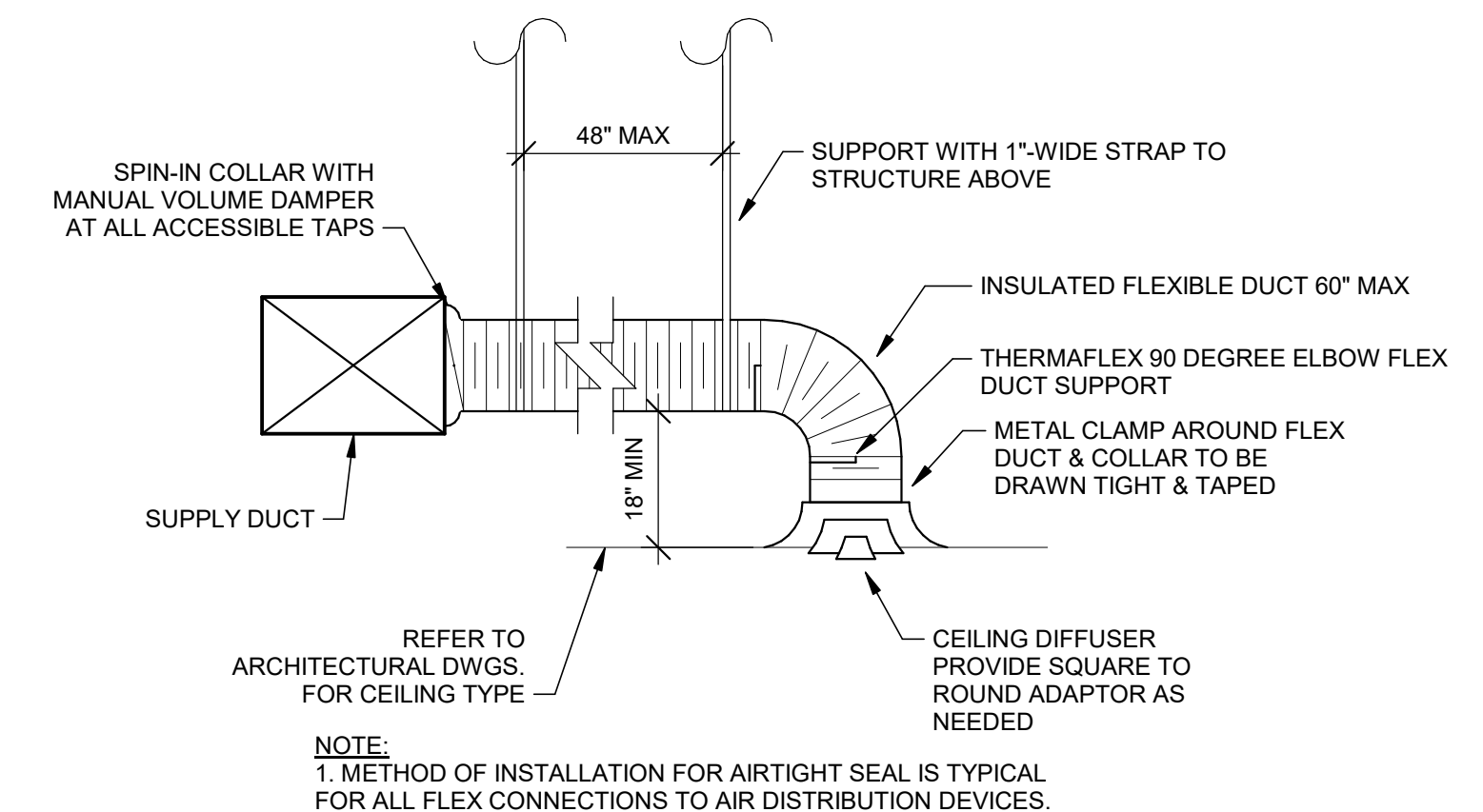
### SEQUENCE OF OPERATIONS RTU-1 THRU RTU-3

**OCCUPIED MODE:**  
**FAN OPERATION/OUTSIDE AIR DAMPER:** WHEN SCHEDULED BY THE THERMOSTAT TO BE IN OCCUPIED MODE, THE ROOFTOP UNIT FAN SHALL START AND RUN CONTINUOUSLY AND THE OUTSIDE AIR DAMPERS SHALL MODULATE TO THE MINIMUM POSITION.  
**HEATING:** ON A FALL IN SPACE TEMPERATURE BELOW THE SETPOINT OF 70 DEGREES (ADJUSTABLE) THE FIRST STAGE OF HEATING SHALL BE ENERGIZED TO MAINTAIN THE SETPOINT. UPON A CONTINUED FALL IN SPACE TEMPERATURE, THE SECOND STAGE SHALL BE ENERGIZED (WHERE APPLICABLE) TO MAINTAIN THE SETPOINT.  
**COOLING:** ON A RISE IN SPACE TEMPERATURE ABOVE THE SETPOINT OF 72 DEGREES (ADJUSTABLE), WHEN THE ENTHALPY OF THE OUTSIDE AIR IS FAVORABLE, THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN UP TO 100% TO PROVIDE COOLING FOR THE SPACE. WHEN THE ENTHALPY OF THE OUTSIDE AIR IS NOT FAVORABLE, OR THERE IS A SUDDEN DEMAND FOR SPACE COOLING, THE OUTSIDE AIR DAMPER SHALL MODULATE TO THE MINIMUM POSITION AND THE COOLING SHALL BE ENERGIZED AS REQUIRED TO MAINTAIN THE SETPOINT.  
**DEHUMIDIFICATION:** UPON A SIGNAL FROM THE HUMIDISTAT THAT DEHUMIDIFICATION IS REQUIRED, THE COOLING COIL SHALL BE ENERGIZED TO SATISFACTORILY DEHUMIDIFY THE AIR AND THE HOT GAS REHEAT COIL SHALL BE ENGAGED AS REQUIRED TO MAINTAIN THE SPACE SETPOINT.  
**UNOCCUPIED MODE:**  
**FAN OPERATION/OUTSIDE AIR DAMPER:** WHEN SCHEDULED BY THE THERMOSTAT TO BE IN UNOCCUPIED MODE, THE ROOFTOP UNIT FANS ARE TO BE OFF AND THE OUTSIDE AIR DAMPERS SHALL REMAIN CLOSED.  
**HEATING:** ON A FALL IN SPACE TEMPERATURE BELOW THE SETPOINT OF 55 DEGREES (ADJUSTABLE) THE ROOFTOP UNIT FAN SHALL START AND THE FIRST STAGE OF HEATING SHALL BE ENERGIZED TO MAINTAIN THE SETPOINT. UPON A CONTINUED FALL IN SPACE TEMPERATURE, THE SECOND STAGE SHALL BE ENERGIZED (WHERE APPLICABLE) TO MAINTAIN THE SETPOINT.  
**COOLING:** ON A RISE IN SPACE TEMPERATURE ABOVE THE SETPOINT OF 85 DEGREES (ADJUSTABLE) THE ROOFTOP UNIT FAN SHALL START. WHEN THE ENTHALPY OF THE OUTSIDE AIR IS FAVORABLE, THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN UP TO 100% TO PROVIDE COOLING FOR THE SPACE. WHEN THE ENTHALPY OF THE OUTSIDE AIR IS NOT FAVORABLE, OR THERE IS A SUDDEN DEMAND FOR SPACE COOLING, THE OUTSIDE AIR DAMPER SHALL REMAIN IN THE CLOSED POSITION AND THE COOLING SHALL BE ENERGIZED AS REQUIRED TO MAINTAIN THE SETPOINT.  
**DEHUMIDIFICATION:** UPON A SIGNAL FROM THE HUMIDISTAT THAT DEHUMIDIFICATION IS REQUIRED THE ROOFTOP UNIT FAN SHALL START. THE COOLING COIL SHALL BE ENERGIZED TO SATISFACTORILY DEHUMIDIFY THE AIR AND THE HOT GAS REHEAT COIL SHALL BE ENGAGED AS REQUIRED TO MAINTAIN THE SPACE SETPOINT.  
**EMERGENCY MODE:**  
**FAN OPERATION/OUTSIDE AIR DAMPER:** UPON A SIGNAL FROM THE SMOKE DETECTOR IN THE RETURN AIR STREAM OR THE FIRE ALARM SYSTEM, THE FAN SHALL STOP AND THE OUTSIDE AIR DAMPER SHALL CLOSE.

### SEQUENCE OF OPERATIONS EF-1 & EF-2

**OCCUPIED MODE:**  
**FAN OPERATION:** WHEN SCHEDULED BY THE TIME CLOCK TO BE IN OCCUPIED MODE, THE EXHAUST FAN IS TO START AND RUN CONTINUOUSLY.  
**UNOCCUPIED MODE:**  
**FAN OPERATION:** WHEN SCHEDULED BY THE TIME CLOCK TO BE IN UNOCCUPIED MODE, THE EXHAUST FAN SHALL REMAIN OFF.  
**EMERGENCY MODE:**  
**FAN OPERATION/OUTSIDE AIR DAMPER:** UPON A SIGNAL FROM THE FIRE ALARM SYSTEM, THE FAN SHALL STOP.

2 SEQUENCE OF OPERATIONS  
N.T.S.



1 DIFFUSER CONNECTION  
N.T.S.