

CALIFORNIA GREEN BUILDING STANDARDS CODE

5.410 BUILDING MAINTENANCE AND OPERATION

5.410.4 TESTING AND ADJUSTING:

Testing and adjusting of systems installed shall be required for buildings less than 10,000 square feet or new systems to swerve an addition or alteration subject to Section 303.1.

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. HVAC systems and controls
2. Indoor and outdoor lighting and controls
3. Water heating systems
4. Renewable energy systems
5. Landscape irrigation systems
6. 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.

5.410.4.4 REPORTING:

After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 OPERATION AND MAINTENANCE MANUAL:

Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O&M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

5.410.4.5.1 INSPECTIONS AND REPORTS:

Include a copy of all inspection verifications and reports required by the enforcing agency.

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 air filters immediately prior to occupancy, or, if the building is occupied alteration, at the conclusion of construction.

5.504.3 COVERING OF DUCT OPENINGS 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 ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal, or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may collect in the system.

5.508 OUTDOOR AIR QUALITY

5.508.1 OZONE DEPLETION AND GREENHOUSE GAS REDUCTIONS:

Installations of HVAC, refrigeration, and fire suppression equipment shall comply with Section 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.

SECTION 15732 - PACKAGED ROOFTOP AIR-CONDITIONING UNITS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data and Shop Drawings.
- B. Comply with ASHRAE 15.
- C. EER: Equal to or greater than prescribed by ASHRAE 90.1, "Energy Efficient Design of New Building, except Low Rise Residential Buildings."
- D. Warranties: Submit a written warranty, signed by the manufacturer, agreeing to the repair or replacement of components that fail within 5 years of Substantial Completion.

PART 2 - PRODUCTS

2.1 PACKAGED UNITS, 5 TO 20 TONS

- A. Factory assembled and tested, consisting of compressors, condensers, evaporator coils, condenser and evaporator fans, refrigeration and temperature controls, filters, and dampers.
 1. Refer to Rooftop Heating/Cooling Unit Schedule on drawing M200 for capacities, and manufacturers.
 2. Evaporator Fans: Belt driven, forward curved centrifugal.
 3. Exhaust/Relief Fans: Direct drive, forward curved centrifugal or propeller.
 4. Condenser Fans: Direct drive propeller.
 5. Refrigerant Coils: Aluminum fins and copper coil.
 6. Compressors: Serviceable hermetic or fully hermetic, with safety controls, hot gas bypass, and timed off controls.
 7. Heat Exchangers: Gas fired, with gas controls, electronic ignition, high limit cutout, and forced draft proving switch.
 8. Economizer controls (Low-Leak Comparative Enthalpy, 100% capacity).
 9. Low ambient controls.
 10. Smoke Detectors: Photoelectric.
 11. Operating Controls: Two stage heating and two stage cooling on units 8-1/2 tons and over.
 12. Roof curb.
 13. Control Wiring from T-stat to rooftop unit: Shall be 18ga / 7 conductor, rated for plenum applications.
 14. Control Wiring from T-stat to remote sensor: Shall be a separate 18ga / 2 conductor shielded, rated for plenum applications.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install units level and plumb and firmly anchored.
- B. Connect gas piping to burner with pipe same size as gas train inlet, and provide union with sufficient clearance for burner removal and service.
- C. Connect to supply and return hydronic piping with shutoff valve and union or flange at each connection.
- D. Install ducts to termination in roof mounting frames. Terminate return air duct through roof structure.
- E. Connect units to wiring systems and to ground.

END OF SECTION 15732

SECTION 15810 - DUCTS AND ACCESSORIES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data for fire and smoke dampers.
- B. Comply with NFPA 90A for systems serving spaces more than 25,000 cu. ft. in volume or building Types II, IV, and V construction more than 3 stories in height.
- C. Comply with NFPA 90B for systems serving spaces in 1 or 2 family dwellings or serving spaces less than 25,000 cu. ft..
- D. Comply with NFPA 96, "Ventilation Control and Fire Protection of Commercial Cooking Operations," for kitchen hood ducts.
- E. Comply with UL 181 and UL 181A for ducts and closures.
- F. Testing, Adjusting, and Balancing Agency Qualifications: AABC certified (to be furnished by Tenant).

PART 2 - PRODUCTS

2.1 DUCTS

- A. Spiral Duct: Spiral Lock Seam, without insulation, G90 galvanized finish, ASTM A-653/G92
 1. Basis of Design Manufacturers: Lindab SPIROsafe, alternates to the basis of design must be submitted for review.
 2. Fittings: Factory produced standing seam construction with internal sealing. Fittings with a major axis of 36" or smaller shall be 20 gauge. Fittings with a major axis of 37"-48" shall be 18 gauge.
- B. Galvanized Steel Sheet: Forming steel, ASTM A 653/653M, G90 coating designation.
- C. Duct Liner: ASTM C 1071, Type II, with an airstream surface coated with a temperature resistant coating. Thickness: 1-1/2 inch. R-value : 8.
 1. Adhesive: ASTM C 916, Type I.
 2. Mechanical Fasteners: Galvanized steel pin, length as required to penetrate liner plus a 1/8 inch projection maximum into the airstream.
- D. Joint and Seam Tape: Comply with UL 181A.
- E. Joint and Seam Sealant: Comply with UL 181A.
- F. Rectangular Metal Duct Fabrication: Comply with SMACNA's "HVAC Duct Construction Standard" for metal thickness, reinforcing types and intervals, tie rod applications, and joint types and intervals.

2.2 ACCESSORIES

- A. Volume-Control Dampers: Factory fabricated volume control dampers, complete with required hardware and accessories. Single blade and multiple opposed blade, standard leakage rating, and suitable for horizontal or vertical applications.
- B. Fire Dampers: Factory-fabricated fire dampers, complete with required hardware and accessories. UL labeled according to UL 555, "Fire Dampers".
- C. Flexible Connectors: Flame retardant or noncombustible fabrics, coatings, and adhesives complying with UL 181, Class 1.
- D. Flexible Ducts: Factory fabricated, insulated, round duct, with an outer jacket enclosing 2 inch thick, glass fiber insulation, R-value: 6.0, around a continuous inner liner.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Duct System Pressure Class: Construct and install each duct system with 2 inch positive and negative duct pressure classifications.
- B. Conceal ducts from view in finished and occupied spaces. Except where noted as exposed.
- C. Avoid passing through electrical equipment spaces and enclosures.
- D. Support and connect metal ducts according to SMACNA's "HVAC Duct Construction Standard".
- E. Install duct accessories according to applicable portions of details of construction as shown in SMACNA standards.
- F. Install liner and/or insulation on ductwork per the material schedule on sheet M010.
- G. Install volume control dampers in lined duct with methods to avoid damage to liner and to avoid erosion of duct liner.
- H. Install fire and smoke dampers according to manufacturer's UL approved written instructions.
- I. Install fusible links in fire dampers.
- J. Provide saddle taps at tees for exposed ductwork.

3.2 TESTING, ADJUSTING, AND BALANCING

- A. The Tenant will supply an independent balance agent to to balance and adjust the HVAC installation. The balance agent will be responsible for any pulley or belt changes required.
- B. The GC is to have trained staffed available during the balancing to correct issues noted by the balance agent.
- C. The balance agent is to balance airflow within distribution systems, including submains, branches, and terminals to indicated quantities +/- 10%. The hood exhaust system shall be balanced to a tolerance of -0+10% and the make-up air system to a tolerance of -10+0%.
- D. The balance agent is to supply a copy of the balance report to the Tenant, engineer and general contractor for review.

END OF SECTION 15810

SECTION 15855 - DIFFUSERS, REGISTERS, AND GRILLES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: None.

PART 2 - PRODUCTS

2.1 OUTLETS AND INLETS

- A. All air terminal devices:
 1. Refer to Grills, Registers, and Diffusers Schedule for equipment schedule
 2. Manufacturer: As scheduled (NO SUBSTITUTIONS)
 3. Material: As scheduled.
 4. Finish: As scheduled.
 5. Mounting: As scheduled.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Coordinate location and installation with duct installation and installation of other ceiling and wall mounted items.
- B. Locate ceiling diffusers, registers, and grilles, as indicated on the architectural "reflected ceiling plans." Unless otherwise indicated, locate units in center of acoustical ceiling panels.

END OF SECTION 15855

HVAC MATERIAL SCHEDULE		
CATEGORY	APPLICATION	ALLOWABLE MATERIAL
DUCT	EXPOSED SUPPLY	RECT. LINED OR ROUND AS SHOWN, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED RETURN	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED GEN. EXHAUST	RECTANGULAR OR ROUND AS SHOWN, NO EXPOSED DUCT-SEALING MASTIC
	CONCEALED, SUPPLY	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, RETURN	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, GEN. EXHAUST	RECT. OR ROUND AS SHOWN
	CONCEALED, TYPE I HOOD EXHAUST	RECTANGULAR 16 GA. BLACK IRON W/ WRAP OR UL 1978 FACTORY-MANUFACTURED DUCT W/ WRAP (SUBMIT SHOP DRAWINGS FOR FACTORY-MANUFACTURED DUCT PRIOR TO ORDERING FOR APPROVAL)

HVAC GENERAL NOTES

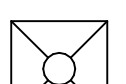
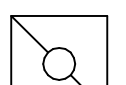
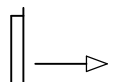


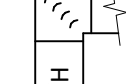
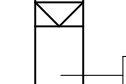
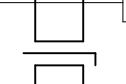
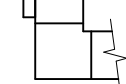

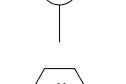
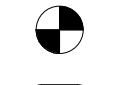
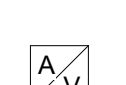
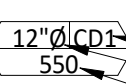
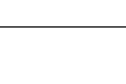

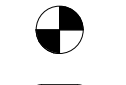
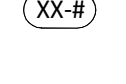
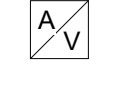
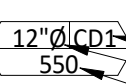
- A. GENERAL NOTES APPLY TO HVAC SHEETS.
- B. WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING APPLICABLE SECTIONS OF NFPA, THE MECHANICAL CODE, AND ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE PERMITS ASSOCIATED WITH THE WORK. OBTAIN INSPECTIONS REQUIRED BY CODE. SEE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.
- C. CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS.
- D. COORDINATE WORK WITH THE WORK OF OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND OF THE EXISTING CONDITIONS AT THE PROJECT SITE.
- E. DRAWINGS FOR THE MECHANICAL WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWING SHALL NOT BE SCALED FOR EXACT MEASUREMENTS; REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, OFFSETS, ACCESSORIES, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
- F. DUCT DIMENSIONS ON PLANS INDICATE DIMENSIONS OF INTERNAL FREE AREA.
- G. PERFORATED CEILING DIFFUSERS SHALL BE 4-WAY UNLESS NOTED OTHERWISE.
- H. COORDINATE ROOF WORK WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
- I. UNLESS NOTED OTHERWISE RECTANGULAR DUCT ELBOWS GREATER THAN 45° SHALL BE MITERED ELBOWS WITH DOUBLE-THICKNESS TURNING VANES AND RECTANGULAR DUCT ELBOWS 45° OR LESS SHALL BE RADIUS ELBOWS WITH AN INSIDE RADIUS OF AT LEAST 1/2 THE WIDTH OF THE DUCT.
- J. REPLACE AIR FILTERS WITH NEW, CLEAN MERV 13 AIR FILTERS AT TURNOVER.
- K. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
- L. PROVIDE LABELING CALLED FOR IN THE HVAC DRAWINGS USING ENGRAVED PHENOLIC PLATES.
- M. PROVIDE P3000 12 GA. UNISTRUT WITH PG FINISH FOR DUCT SUPPORTS AND OTHER UNISTRUT IN AREAS EXPOSED TO VIEW. SLOTTED UNISTRUT AND OTHER UNISTRUT WITH HOLES IS NOT ACCEPTABLE.

HVAC ABBREVIATIONS

- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- CD CEILING DIFFUSER
- CU CONDENSING UNIT
- (E) EXISTING
- EF EXHAUST FAN
- ER EXHAUST REGISTER
- EXT'G EXISTING
- HD HOOD
- MUA MAKEUP AIR UNIT
- OBD BLADE DAMPER
- RG RETURN GRILLE
- RTU ROOFTOP UNIT
- SR SUPPLY REGISTER
- VSC VARIABLE SPEED CONTROL

- COZAS TENANT'S CO2 ALARM SUPPLIER
- GC GENERAL CONTRACTOR
- HES TENANT'S HVAC EQUIPMENT SUPPLIER
- HS TENANT'S HOOD SUPPLIER
- KES TENANT'S KITCHEN EQUIPMENT SUPPLIER
- TAB TENANT'S TEST AND BALANCE VENDOR
- TCC TENANT'S CABLING CONTRACTOR
- TDC TENANT'S DUCT CLEANER
- TEMS TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
- TLS TENANT'S LIGHT/LAMP SUPPLIER
- TMB TENANT'S MENU BOARD SUPPLIER
- TMS TENANT'S MILLWORK SUPPLIER
- TP TENANT'S PHONE SUPPLIER
- TRS TENANT'S RAILING SUPPLIER
- TSV TENANT'S SIGN VENDOR
- TUV TENANT'S UV SANITIZER SUPPLIER
- WCS TENANT'S WALK-IN COOLER SUPPLIER
- WHS TENANT'S WATER HEATER SUPPLIER

HVAC SYMBOLS

-  CEILING DIFFUSER
-  CEILING-MOUNTED RETURN OR EXHAUST REGISTER
-  SUPPLY REGISTER
-  RETURN GRILLE
-  FLEXIBLE DUCT
-  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
-  GRIDPOINT THERMOSTAT
-  GRIDPOINT ZONE SENSOR MODULE
-  GRIDPOINT SUPPLY PROBE
-  PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
-  CONNECT TO EXISTING
-  EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M600 FOR EQUIPMENT INFORMATION
-  AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET
-  GRILL, REGISTER, OR DIFFUSER TAG: TAG NECK SIZE AIRFLOW [CFM]

Consultant:



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 7450 ELK GROVE BLVD.
 ELK GROVE, CA 95757

Issue Record:	Permit Submittal
05/06/2022	
07/14/2022	BID SET
08/16/2022	CONSTRUCTION SET

Revisions:	

Drawn:	Checked:
JEJ	CIK

Project No.
2201060

Contents:

HVAC SPECIFICATIONS

M010

STATE OF CALIFORNIA
Mechanical Systems
 NRCC-MCH-E (Created 09/2020) CALIFORNIA ENERGY COMMISSION NRCC-MCH-E

CERTIFICATE OF COMPLIANCE
 Project Name: The Ridge Report Page: Page 1 of 12
 Project Address: 7450 Elk Grove Blvd. Date Prepared: 05-02-2022

A. GENERAL INFORMATION
 01 Project Location (city): Elk Grove 04 Total Conditioned Floor Area: 2,400
 02 Climate Zone: 12 05 Total Unconditioned Floor Area: 0
 03 Occupancy Types Within Project: 06 # of Stories (Habitable Above Grade): 1
 Office (B) Non-refrigerated Warehouse (S) Healthcare Facility (I)
 Hotel/Motel Guest Rooms (R-1) School (E) Other (Write in): Restaurant (A-2)
 High-Rise Residential (R-2/R-3) Relocatable Class Bldg (E) Other (Write in): Restaurant (A-2)

B. PROJECT SCOPE
 Table Instructions: Include any mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4, or §141.0(b)(2) for alterations.
 My project consists of (check all that apply)
 01 Heating Air System Air System(s) 03 Wet System Components Water Economizer 04 Air Economizer Electric Resistance Heat
 Cooling Air System Pumps Hydronic System Piping Fan Systems
 Mechanical Controls (existing to remain, altered or new) Cooling Towers Ductwork (existing to remain, altered or new)
 Chillers Ventilation Zonal Systems/ Terminal Boxes
 Boilers

C. COMPLIANCE RESULTS
 Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES WITH EXCEPTIONAL CONDITIONS" refer to Table D for guidance.
 01 System Summary §110.1, §140.4, §140.4(f) 02 Pumps §140.4(k) 03 Fans/Economizers §140.4(c), §140.4(e) 04 System Controls §110.2, §120.2, §140.4(i) 05 Ventilation §120.1 06 Terminal Box Controls §140.4(d) 07 Distribution §120.3, §140.4(i) 08 Cooling Towers §110.2(e)(2) 09 Compliance Results
 (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 AND Yes AND **COMPLIES**
 Mandatory Measures Compliance (See Table Q for Details) **COMPLIES**

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> September 2020

STATE OF CALIFORNIA
Mechanical Systems
 NRCC-MCH-E (Created 09/2020) CALIFORNIA ENERGY COMMISSION NRCC-MCH-E

CERTIFICATE OF COMPLIANCE
 Project Name: The Ridge Report Page: Page 4 of 12
 Project Address: 7450 Elk Grove Blvd. Date Prepared: 05-02-2022

J. VENTILATION AND INDOOR AIR QUALITY
 Table Instructions: Complete the following Table to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(e)(3) for all nonresidential, high-rise residential and hotel/motel 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 Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
 02 Check this box if the project includes Nonresidential or Hotel/Motel spaces
 Check this box if the project includes new or altered high-rise residential dwelling units
 03 Check the box if the project is using natural ventilation in any spaces to meet required ventilation rates per §120.1(c)(2).
 Nonresidential and Hotel/Motel Ventilation Systems
 System Name: RTU-1 System Design OA CFM Air Flow: 500 System Design Transfer Air CFM: 0 Air Filtration per §120.1(c) and §141.0(b)(2)
 08 Space Name or Item Tag: Kitchen Occupancy Type: Kitchen (cooking) Conditioned Floor Area (ft²): 1,200 # of showerheads / toilets: 180 # of people: 840 Required Min OA CFM: 180 Provided per §120.1(c)(4) DCV or Occupant Sensor Controls per §120.1(d)(3), §120.1(d)(5) & §120.2(e)(3)
 Kitchen Kitchen (cooking) 1,200 180 840 180 3,150
 Office Office space 50 1 15 150
 17 Total System Required Min OA CFM: 195 18 Ventilation for this System Complies? Yes

K. TERMINAL BOX CONTROLS
 This Section Does Not Apply

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> September 2020

STATE OF CALIFORNIA
Mechanical Systems
 NRCC-MCH-E (Created 09/2020) CALIFORNIA ENERGY COMMISSION NRCC-MCH-E

CERTIFICATE OF COMPLIANCE
 Project Name: The Ridge Report Page: Page 7 of 12
 Project Address: 7450 Elk Grove Blvd. Date Prepared: 05-02-2022

L. DISTRIBUTION (DUCTWORK AND PIPING)
 Table Instructions: Complete the following tables to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(f) for duct leakage testing.
 Duct Leakage Sealing
 The answers to the questions below apply to the following duct system(s): RTU-1&2 Duct leakage testing triggered for these systems? No
 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 ft² of conditioned floor area.
 14 No The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:
 Outdoors
 In a space directly under a roof that has a U-factor greater than the U-factor of the ceiling, or if the roof does not meet the requirements of §140.3(a)(1)B or if the roof has fixed vents or openings to the outside/unconditioned spaces
 In an unconditioned crawlspace
 In other unconditioned spaces
 15 No The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
 16 No 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 Duct system shall be sealed in accordance with the California Mechanical Code.
M. COOLING TOWERS
 This Section Does Not Apply
N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Table Instructions: 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/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/
 YES NO Form/Title Systems To Be Field Verified Field Inspector Pass Fail
 NRCC-MCH-01-E - Must be submitted for all buildings.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> September 2020

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D. EXCEPTIONAL CONDITIONS
 This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.
 Table H indicates a Fan Power System Index that exceeds the maximum allowed per §140.4(c). Please revise to demonstrate compliance. Selections made in Table O have been changed by the permit applicant. See Table E. Additional Remarks for permit applicant's explanation.
E. ADDITIONAL REMARKS
 This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.
F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
 Table Instructions: Complete the following equipment schedules to show compliance with mandatory requirements found in §110.1 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b) and §140.4(c) or §141.0(b)(2) for alterations.
 Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)
 01 Name or Item Tag: RTU-1 Equipment Category per Tables 110.2: Unitary AC/Condensers Equipment Type per Tables 110.2 & Title 20: AC, air cooled, package (3 phase) Smallest Size Available* §140.4(a): Yes Heating Output*^{1,2}: 150 Per Design (kBtu/h): 120 Supp. Heating Output (kBtu/h): 0 Sensible Heat Design (kBtu/h): 72 Rated (kBtu/h): 90 Total Heating Load (kBtu/h): 29.2 Total Sensible Cooling Load (kBtu/h): 71.7
 RTU-2 Unitary AC/Condensers AC, air cooled, package (3 phase) Yes 200 160 0 93 106 63.6 85.2
¹ 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). Healthcare facilities are exempt.
² It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
 If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
³ Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).
 Table Continued

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Table Continued

J. VENTILATION AND INDOOR AIR QUALITY
 Table Instructions: Complete the following Table to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(e)(3) for all nonresidential, high-rise residential and hotel/motel 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 Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
 02 Check this box if the project includes Nonresidential or Hotel/Motel spaces
 Check this box if the project includes new or altered high-rise residential dwelling units
 03 Check the box if the project is using natural ventilation in any spaces to meet required ventilation rates per §120.1(c)(2).
 Nonresidential and Hotel/Motel Ventilation Systems
 System Name: RTU-1 System Design OA CFM Air Flow: 500 System Design Transfer Air CFM: 0 Air Filtration per §120.1(c) and §141.0(b)(2)
 08 Space Name or Item Tag: Kitchen Occupancy Type: Kitchen (cooking) Conditioned Floor Area (ft²): 1,200 # of showerheads / toilets: 180 # of people: 840 Required Min OA CFM: 180 Provided per §120.1(c)(4) DCV or Occupant Sensor Controls per §120.1(d)(3), §120.1(d)(5) & §120.2(e)(3)
 Kitchen Kitchen (cooking) 1,200 180 840 180 3,150
 Office Office space 50 1 15 150
 17 Total System Required Min OA CFM: 195 18 Ventilation for this System Complies? Yes

K. TERMINAL BOX CONTROLS
 This Section Does Not Apply

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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Table Instructions: 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/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/
 YES NO Form/Title Systems To Be Field Verified Field Inspector Pass Fail
 NRCC-MCH-02-A Outdoor Air Must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.
 NRCC-MCH-03-A Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".
 NRCC-MCH-04-A Air Distribution Duct Leakage
 NRCC-MCH-05-A Air Economizer Controls
 NRCC-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)(3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.
 NRCC-MCH-07-A Supply Fan Variable Flow Controls
 NRCC-MCH-08-A Valve Leakage Test
 NRCC-MCH-09-A Supply Water Temperature Reset Controls
 NRCC-MCH-10-A Hydronic System Variable Flow Controls
 NRCC-MCH-11-A Automatic Demand Shed Controls

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Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))
 01 Name or Item Tag: RTU-1 Size Category (Btu/h): >65,000 and <135,000 Rating Condition (°F): Heating Mode Efficiency Unit: Min Efficiency Required per Tables 110.2/Title 20: 82 Design Efficiency: EER 11.2 12.5 I.E.E.R. 11.2 14.3
 RTU-2 >65,000 and <135,000 82 EER 11.2 12.4 I.E.E.R. 11.2 14.3

G. PUMPS
 This Section Does Not Apply

H. FAN SYSTEMS & AIR ECONOMIZERS
 Table Instructions: Complete the following Table for fan systems to demonstrate compliance with prescriptive requirements found in §140.4(c), §140.4(e) and §140.4(m). First document the system details, then add fans within that system to document compliance with fan power requirements. 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 Economizer: Differential Enthalpy Economizer Controls: Design per §140.4(e) and (m) System Fan Type: Constant Volume
 01 Fan Name or Item Tag: RTU-1 Fan Function: Supply Qty: 1 Maximum Design Supply Airflow (CFM): 3,400 HP Unit: Nameplate HP Design HP: 3 Fan Power Pressure Drop Adjustment - Table 140.4-B Device: Design Airflow through Device (CFM) Calculated Adjustment (in H2O)
 Total System Design Supply Airflow (CFM): 3,400 Total System Design (BHP): 3 Maximum System Fan Power (BHP):

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Table Continued

J. VENTILATION AND INDOOR AIR QUALITY
 Table Instructions: Complete the following Table to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(e)(3) for all nonresidential, high-rise residential and hotel/motel 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 Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
 02 Check this box if the project includes Nonresidential or Hotel/Motel spaces
 Check this box if the project includes new or altered high-rise residential dwelling units
 03 Check the box if the project is using natural ventilation in any spaces to meet required ventilation rates per §120.1(c)(2).
 Nonresidential and Hotel/Motel Ventilation Systems
 System Name: RTU-2 System Design OA CFM Air Flow: 1,000 System Design Transfer Air CFM: 0 Air Filtration per §120.1(c) and §141.0(b)(2)
 08 Space Name or Item Tag: Dining Occupancy Type: Cafeteria/ fast-food dining Conditioned Floor Area (ft²): 803 # of showerheads / toilets: 401.5 # of people: 3,950 Required Min OA CFM: 401.5 Provided per §120.1(c)(4) DCV or Occupant Sensor Controls per §120.1(d)(3), §120.1(d)(5) & §120.2(e)(3)
 Dining Cafeteria/ fast-food dining 803 401.5 3,950 401.5 3,950
 Restroom Toilet (private)-cont. exh. 200 4 30 100 200
 17 Total System Required Min OA CFM: 431.5 18 Ventilation for this System Complies? Yes

K. TERMINAL BOX CONTROLS
 This Section Does Not Apply

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> September 2020

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O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
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 NRCA-MCH-12-A FDD for Packaged Direct Expansion Units
 NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units
 NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance NOTE: This form does not automatically move to "Yes". If Distributed Energy Storage DX AC Systems are included in the scope, permit applicant should move this form to "Yes".
 NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance NOTE: This form does not automatically move to "Yes". If Chilled Water Storage, Ice-on-Coil Internal Melt, Ice-on-Coil External Melt, Ice Harvesting, Brine, Ice-Slurry, Eutectic Salt, Chlorate Hydrate Slurry (CHS), Cryogenic or Encapsulated (Ice-Ball) Systems are included in the scope, permit applicant should move this form to "Yes".
 NRCA-MCH-16-A Supply Air Temperature Reset Controls
 NRCA-MCH-17-A Condenser Water Temperature Reset Controls
 NRCA-MCH-18 Energy Management Control Systems
 NRCA-MCH-19 Occupancy Sensor Controls
 NRCA-MCH-20 Multi-Family Ventilation
 NRCA-MCH-21 Multi-Family Envelope Leakage

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Consultant:

 4635 Trueman Blvd, Suite 250
 Hilliard, Ohio 43026
 Phone: (614) 751-9610
 Fax: (614) 552-5240
 Contact: Rich Jones
 (614) 328-2022
 RTJones@nationalengineering.com

FOR CONSTRUCTION

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STORE NO.: 4311
 THE RIDGE
 7450 ELK GROVE BLVD.
 ELK GROVE, CA 95757

Issue Record:
 05/06/2022 PERMIT SUBMITTAL
 07/14/2022 BID SET
 08/16/2022 CONSTRUCTION SET

Revisions:
 1 06/02/2022 BUILDING REVIEW

Drawn: Checked:
 JEJ CIK

Project No:
 2201060

Contents:

MECHANICAL TITLE
 24 COMPLIANCE

M020

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P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
 Table Instructions: 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 completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Providers registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-MCH-04-H Dust Leakage Test NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-MCH-24 Enclosure Air Leakage Worksheet NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-MCH-27 High-rise Residential NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-MCH-32 Local Mechanical Exhaust NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>

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Q. MANDATORY MEASURES DOCUMENTATION LOCATION
 Table Instructions: Indicate where mandatory measures are documented in the plan set or construction documentation. For any mandatory measures that do not apply, mark the plan sheet or construction document location as "N/A", any active cells that are left blank will result in non-compliance in Table C.

01		02	
Plan sheet or construction document location			
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block:	Yes		M010

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Richard T. Jones, PE
 Signature Date: 05-02-22
 Company: National Engineering, Ltd.
 Address: 4635 Trueman Blvd, Suite 250
 City/State/Zip: Hilliard, OH 43026
 Phone: 614-751-9610

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:
 1. The information provided on this Certificate of Compliance is true and correct.
 2. 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).
 3. 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.
 4. 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.
 5. 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 builder provides to the building owner at occupancy.

Responsible Designer Name: Richard T. Jones, PE
 Signature Date: 05-02-22
 Company: National Engineering, Ltd.
 Address: 4635 Trueman Blvd, Suite 250
 City/State/Zip: Hilliard, OH 43026
 License: 30376
 Phone: 614-751-9610

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A. GENERAL INFORMATION

01 Project Location (city)	Elk Grove	04 Total Conditioned Floor Area	2,400
02 Climate Zone	12	05 Total Unconditioned Floor Area	0
03 Occupancy Types Within Project:		06 # of Stories (Habitable Above Grade)	1
<input type="checkbox"/> Office	<input type="checkbox"/> Retail	<input type="checkbox"/> Non-refrigerated Warehouse	
<input type="checkbox"/> Hotel/ Motel	<input type="checkbox"/> School	<input type="checkbox"/> Healthcare Facility	
<input type="checkbox"/> High-Rise Residential	<input type="checkbox"/> Relocatable Class Bldg	<input checked="" type="checkbox"/> Other (Write In):	Restaurant (A-2)

B. PROJECT SCOPE
 Table Instructions: Include any process systems listed below within the scope of the permit application that are demonstrating compliance with mandatory requirements in §120.6 or prescriptive requirements in §140.9.
 My project consists of (check all that apply):

01		02	
<input type="checkbox"/> Refrigerated Spaces <3,000 R ² Total (no Title 24, Pt 6 requirements)	<input type="checkbox"/> Elevator Lighting & Ventilation Controls (mandatory §120.6(i))	<input type="checkbox"/> Refrigerated Spaces ≥3,000 R ² Total (mandatory §120.6(a))	<input type="checkbox"/> Escalator & Moving Walkway Speed Controls (mandatory §120.6(a))
<input type="checkbox"/> Food Stores > 8,000 R ² cfa (mandatory §120.6(b))	<input type="checkbox"/> Computer Rooms > 20W/ft ² Power Density (prescriptive §140.9(a))	<input type="checkbox"/> Enclosed Parking Garage Exhaust ≥ 10,000 cfm (mandatory §120.6(c))	<input checked="" type="checkbox"/> Commercial Kitchen Ventilation/Exhaust (prescriptive §140.9(b))
<input type="checkbox"/> Newly Installed Process Boilers (mandatory §120.6(d))	<input type="checkbox"/> Laboratory Exhaust/Factory Exhaust & Fume Hood (prescriptive §140.9(c))	<input type="checkbox"/> Compressed Air Systems Combined HP ≥ 25 (mandatory §120.6(e))	

FOOTNOTES: These building features can comply using the performance method. If using the performance method for these features, compliance should be demonstrated on the NRCC-PRF-E compliance document.

C. COMPLIANCE RESULTS
 Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

01	02	03	04	05	06	07	08	09	10	11
Refrigerated Warehouse/Space §120.6(a)	Commercial Refrigeration Exhaust §120.6(b)	Parking Garage Exhaust §120.6(c)	Process Boilers Exhaust §120.6(d)	Compressed Air Systems §120.6(e)	Elevators §120.6(f)	Escalators & Moving Walkways §120.6(g)	Computer Rooms §140.9(a)	Commercial Kitchens §140.9(b)	Laboratory Exhaust §140.9(c)	Compliance Results
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	(See Table M)	(See Table N)	(See Table O)	Yes
										COMPLIES

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D. LABORATORY AND FACTORY EXHAUST AND FUME HOODS
 This Section Does Not Apply

P. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Table Instructions: 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/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-PRC-01-E Covered Process	<input type="checkbox"/>	<input type="checkbox"/>

Q. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
 Table Instructions: 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/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-PRC-01-F Compressed Air Systems	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-PRC-02-F Kitchen Exhaust	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-PRC-03-F Garage Exhaust	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-PRC-04-F Refrigerated Warehouses - Evaporator Fan Motor Controls	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-PRC-05-F Refrigerated Warehouses - Evaporator Condenser Controls	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-PRC-06-F Refrigerated Warehouses - Air Cooled Condenser Controls	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-PRC-16-F Refrigerated Warehouses - Adiabatic Condenser Controls	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-PRC-07-F Refrigerated Warehouses - Variable Speed Compressor	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-PRC-08-F Refrigerated Warehouses - Electric Resistance Underlab Heating System	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-PRC-12-F Elevator Lighting & Ventilation Controls	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-PRC-13-F Escalators & Moving Walkways Speed Controls	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-PRC-14-F Lab Exhaust Ventilation Systems	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-PRC-15-F Fume Hood Automatic Sash Closure Systems	<input type="checkbox"/>	<input type="checkbox"/>

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E. EXCEPTIONAL CONDITIONS
 This table is auto-filled with unedited comments because of selections made or data entered in tables throughout the form.
 No exceptional conditions apply to this project.

F. REFRIGERATED WAREHOUSE/SPACES
 This Section Does Not Apply

G. COMMERCIAL REFRIGERATION
 This Section Does Not Apply

H. ENCLOSED PARKING GARAGE EXHAUST
 This Section Does Not Apply

I. PROCESS BOILER
 This Section Does Not Apply

J. COMPRESSED AIR SYSTEMS
 This Section Does Not Apply

K. ELEVATOR LIGHTING AND VENTILATION
 This Section Does Not Apply

L. ESCALATORS AND MOVING WALKWAYS SPEED CONTROLS
 This Section Does Not Apply

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Process Systems
 NRCC-PRC-E (Created 01/21)
 CERTIFICATE OF COMPLIANCE
 Project Name: The Ridge
 Project Address: 7450 Elk Grove Blvd.
 Report Page: Page 3 of 5
 Date Prepared: 05-02-2022

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> September 2020

M. COMPUTER ROOM SYSTEM SUMMARY
 This Section Does Not Apply

N. COMMERCIAL KITCHEN EXHAUST AND VENTILATION
 Table Instructions: Complete the following table to demonstrate compliance with prescriptive requirements found in §140.9(b). Requirements only apply to new hoods or replacement hoods being installed as part of the permitted scope. Existing hoods not being replaced, or any hoods within a healthcare facility do not need to meet requirements.

Kitchen Ventilation §140.9(b)2

01	02	03	04	05	06	07	08
<input type="checkbox"/>	<input type="checkbox"/>	Existing kitchen hoods not being replaced as part of an addition or alteration (do not need to meet requirements)					
Requirements							
Replacement Air to Hood Compliance Method §140.9(b)1A							
02 Providing replacement air directly to the hood(s) that does not exceed 10% of the hood(s) exhaust rate.							
Mechanically cooled or heated makeup air delivered to any space with a kitchen hood is designed per §140.9(b)2A to not exceed the greater of:							
03 The supply flow required to meet the space heating and cooling load							
05 The kitchen/dining facility has a total Type I and Type II kitchen hood exhaust airflow rate > 5,000 cfm and is designed to have one of the following per §140.9(b)2B: NA: Not a kitchen/dining facility having a total Type I and Type II kitchen hood exhaust airflow rate > 5,000 cfm							

Kitchen Exhaust: Airflow Rate §140.9(b)2

01	02	03	04	05	06	07	08
Kitchen Name or Tag	Kitchen	Compliance Method per §140.9(b)1B	NA: Kitchen/dining facility has a total Type I and Type II hood exhaust rate < 5,000 cfm.				
Name or Item Tag	Hood Type*	Hood Style	Hood Length (ft)	Equipment Duty	Design Hood Exhaust Rate (CFM)	Max Hood Exhaust Rate Allowed (CFM)	
HD-1	Type I				3,200		

*** FOOTNOTE: Type II hoods do not have a max hood exhaust air rate per Part 6 §140.9(b)1B.**

STATE OF CALIFORNIA
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O. LABORATORY AND FACTORY EXHAUST AND FUME HOODS
 This Section Does Not Apply

P. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
 Table Instructions: 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/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-PRC-01-F Compressed Air Systems	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-PRC-02-F Kitchen Exhaust	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-PRC-03-F Garage Exhaust	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-PRC-04-F Refrigerated Warehouses - Evaporator Fan Motor Controls	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-PRC-05-F Refrigerated Warehouses - Evaporator Condenser Controls	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-PRC-06-F Refrigerated Warehouses - Air Cooled Condenser Controls	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-PRC-16-F Refrigerated Warehouses - Adiabatic Condenser Controls	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-PRC-07-F Refrigerated Warehouses - Variable Speed Compressor	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-PRC-08-F Refrigerated Warehouses - Electric Resistance Underlab Heating System	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-PRC-12-F Elevator Lighting & Ventilation Controls	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-PRC-13-F Escalators & Moving Walkways Speed Controls	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-PRC-14-F Lab Exhaust Ventilation Systems	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-PRC-15-F Fume Hood Automatic Sash Closure Systems	<input type="checkbox"/>	<input type="checkbox"/>

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CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> September 2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Richard T. Jones, PE
 Signature Date: 05-02-2022
 Company: National Engineering, Ltd.
 Address: 4635 Trueman Blvd, Suite 250
 City/State/Zip: Hilliard, OH 43026
 Phone: 614-751-9610

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:
 1. The information provided on this Certificate of Compliance is true and correct.
 2. 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).
 3. 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.
 4. 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.
 5. 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 builder provides to the building owner at occupancy.

Responsible Designer Name: Richard T. Jones, PE
 Signature Date: 05-02-22
 Company: National Engineering, Ltd.
 Address: 4635 Trueman Blvd, Suite 250
 City/State/Zip: Hilliard, OH 43026
 License: 30376
 Phone: 614-751-9610

Add Responsible Person Remove Last

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> January 2021

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> January 2021

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> January 2021

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Issue Record:
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Revisions:

Drawn: JEJ
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Project No:
 2201060

Contents:

MECHANICAL TITLE
 24 COMPLIANCE

M021

VIROGUARD SCHEDULE

TAG	QUANTITY	DESCRIPTION	DUCT CONNECTION SIZE	FAN	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER
VG-1	1	VIROGUARD HOOD EXHAUST FAN ROOFTOP CONTAINMENT SYSTEM	18" X 18"	CAPTIVE-AIRE DU240HFA	TDC	GC	ENVIROMATIC

AIR DOOR SCHEDULE

TAG	OPENING WIDTH	AIRFLOW			ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
		MAX FPM	AVG FPM	CFM	MOCP	FLA	V/P/H			MANUFACTURER	MODEL	
AD-1	36"	3600	2116	1036	20 A	3.4 A	120/1/60	HES	GC	BERNER	SLC07	

GRILLS, REGISTERS, AND DIFFUSERS SCHEDULE

TAG	DESCRIPTION	FACE SIZE	MATERIAL	FINISH	MOUNTING	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		NOTES
								MANUFACTURER	MODEL	
BS1	BATHROOM AIR PURIFICATION UNIT	5.44" X 16"	ALUMINUM	STAINLESS STEEL	GYP CEILING	TUV	GC	RGF ENVIRONMENTAL GROUP	BRU ASSEMBLY	SEE ELECTRICAL SHEETS FOR CONNECTION INFORMATION
CD1	PERFORATED CEILING DIFFUSER	24" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE INTEGRAL OBD
CD2	PERFORATED CEILING DIFFUSER	12" X 12"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	4320A TYPE S	PROVIDE INTEGRAL OBD, REMOVE 4-WAY DEFLECTOR
CD4	PERFORATED CEILING DIFFUSER	12" X 12"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	4320A TYPE S	PROVIDE INTEGRAL OBD
ER1	PERFORATED CEILING EXHAUST	12" X 12"	ALUMINUM	WHITE	GYP CEILING	GC	GC	NAILOR	4330R TYPE S	PROVIDE INTEGRAL OBD
RG1	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4330R TYPE L	
RG2	0" FIXED BLADE RETURN GRILLE	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	NAILOR	51FH	
SR1	ADJUSTABLE TURBO NOZZLE	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	SEIHO	NT14	PROVIDE FACE-ACCESSIBLE OBD
SR2	ADJUSTABLE TURBO NOZZLE	SEE NECK SIZE	ALUMINUM	MILL	DUCT	GC	GC	SEIHO	NTX-12R	PROVIDE FACE-ACCESSIBLE OBD

FAN SCHEDULE

TAG	DRIVE TYPE	EXHAUST FLOW [CFM]	E.S.P. [in W.C.]	WEIGHT [lbs]	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
EF-1	DIRECT	3200 CFM	1.20 in-wg	400	3 HP	208/3/60	HS	GC	CAPTIVE-AIRE	DU240HFA	FURNISHED WITH DISCONNECT AND VENTED ROOF CURB
EF-2	DIRECT	150 CFM	0.60 in-wg	100	0.18 HP	120/1/60	HS	GC	CAPTIVE-AIRE	DR12HFA	FURNISHED WITH DISCONNECT, VARIABLE SPEED CONTROLLER, BACKDRAFT DAMPER AND ROOF CURB

AIR BALANCE SCHEDULE

Tag	Supply Flow [CFM]	Return Flow [CFM]	Exhaust Flow [CFM]	Subtotal [CFM]
EF-1	0	0	3200	-3200
EF-2	0	0	150	-150
MAU-1	1950	0	0	1950
RTU-1	3400	2900	0	500
RTU-2	4000	3000	0	1000
Net Pressurization [CFM]				100

MAKEUP AIR UNIT SCHEDULE

TAG	DESCRIPTION	AIRFLOW		INPUT [MBH]	HEATING CAPACITY		EAT	APPROXIMATE WEIGHT [lbs]	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
		SUPPLY FLOW [CFM]	E.S.P. [in. W.C.]		OUTPUT [MBH]	MAXIMUM TURNDOWN			MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
MAU-1	MAKEUP AIR UNIT	1950	0.80	225	220	12.5:1	34 °F	650	2 HP	208/3/60	HS	GC	CAPTIVE-AIRE	A1-D.250-15D	FURNISHED WITH DISCONNECT, ROOF CURB, SCREEN INTAKE, AND WASHABLE ALUMINUM FILTERS

CONDENSING UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY [TONS]	NUMBER OF COMPRESSORS	NUMBER OF CIRCUITS	REFRIGERANT TYPE	REFRIGERANT CHARGE	WEIGHT	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
								MOCP	FLA	V/P/H			MANUFACTURER	MODEL	
CU-1	WALK-IN COOLER REMOTE CONDENSING UNIT	--	1	1	R-404A		200	15 A	7.2 A	208/3/60	WCS	GC	EVERIDGE	RFO130E4SEAALNT	FURNISHED WITH WALK-IN COOLER
CU-2	ICE MAKER - REMOTE CONDENSER	--	0	1	R-404A	11 lbs 7.4 oz	100			120/1/60	KES	GC	-	-	FURNISHED WITH ICE MAKER
CU-3	ICE MAKER - REMOTE CONDENSER	--	0	1	R-404A	11 lbs 7.4 oz	100			120/1/60	KES	GC	-	-	FURNISHED WITH ICE MAKER

CONTROL FUNCTIONS

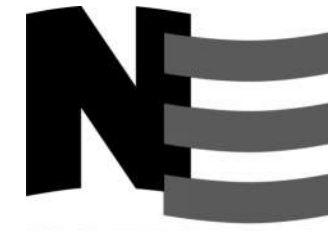
- A. THE MAIN COOKING EXHAUST FAN AND MAKE-UP AIR UNIT SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.
- B. THE TEMPERATURE IN EACH ZONE IS CONTROLLED BY SPACE TEMPERATURE SENSORS CONNECTED TO THE THERMOSTATS LOCATED IN THE OFFICE. ALL ZONES SHALL OPERATE WITH CONTINUOUS FAN OPERATION DURING OCCUPIED TIMES AND INTERMITTENTLY AS NEEDED TO MAINTAIN SET POINTS DURING UNOCCUPIED TIMES. OUTSIDE AIR DAMPERS SHALL BE OPEN CONTINUOUSLY WHEN EITHER IN OCCUPIED MODE OR WHEN THE HOOD SYSTEM IS ON AND SHALL BE CLOSED DURING UNOCCUPIED PERIODS.
- C. THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM.

KITCHEN HOOD SCHEDULE

TAG	DESCRIPTION	MAX COOKING TEMP.	EXHAUST PLENUM					PERFORATED SUPPLY PLENUMS										BASIS FOR DESIGN		REMARKS						
			AIRFLOW [CFM]	SP [in. W.C.]	DUCT COLLARS			SP [in. W.C.]	SUPPLY PLENUM LENGTH	SUPPLY PLENUM WIDTH	MAU PLENUM			AC PLENUM		NUMBER OF LIGHT FIXTURES	APPROXIMATE WEIGHT [lbs]	FURNISHED BY	INSTALLED BY		MANUFACTURER	MODEL				
					NO.	WIDTH	LENGTH				NO.	WIDTH	LENGTH	NO.	DIAMETER											
HD-1	TYPE I CANOPY HOOD WITH PERFORATED MAU AND AC SUPPLY PLENUMS	600°F	3200	0.86	2	10"	15"	14' - 3"	4' - 3"	0.2	15' - 3"	22"	1950	3	10"	28"	800	7	8"	10	1200	HS	GC	CAPTIVE-AIRE	5424 ND-2-ACPSF-F	MAT'L: 18 GA. TYPE 430 SS. PROVIDE WITH 16" TALL HE SS FILTERS, INTEGRAL UTILITY CABINET, ANSUL SYSTEM, DUCT COLLAR TEMPERATURE SENSOR, PREWIRE PACKAGE, SPARE FIRE SYSTEM DRY CONTACT, AND 4-POLE 20A CONTACTOR

ROOFTOP UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY [TONS]	EER	AIRFLOW			NET COOLING CAPACITY				HEATING CAPACITY			# OF COMPRESSORS	# OF CIRCUITS	REFRIG. TYPE	REFRIG. CHARGE	APPROX. WEIGHT [lbs]	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS	
				TOTAL [CFM]	OA [CFM]	ESP [in. W.C.]	TOTAL [MBH]	SENSIBLE [MBH]	EAT [DEG. F]	COND. EAT [DEG. F]	INPUT [MBH]	OUTPUT [MBH]	EAT [DEG. F]						MOCP	FLA	V/P/H			MANUFACTURER	MODEL		
RTU-1	KITCHEN ROOFTOP UNIT	8.5	12.5	3400	500	0.8	90	72	77	64	99	150	120	63	2	2	R-410A	6.3/4.9	1500	50 A	42.0 A	208/3/60	HES	GC	TRANE	YHC102	FURNISHED WITH LOW LEAK COMP. ENTHALPY ECON., BAROMETRIC RELIEF, FAULT DETECTION AND DIAGNOSTICS (FDD) SYSTEM, SUP. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, M.O.D., MERV-13 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, & UNIT-MOUNTED CONVENIENCE RECEPTACLE
RTU-2	DINING ROOM ROOFTOP UNIT	10	12.4	4000	1000	0.8	106	93	80	65	100	200	160	59	2	2	R-410A	7.1/5.0	1900	60 A	48.0 A	208/3/60	HES	GC	TRANE	YHC120	FURNISHED WITH LOW LEAK COMP. ENTHALPY ECON., BAROMETRIC RELIEF, FAULT DETECTION AND DIAGNOSTICS (FDD) SYSTEM, SUP. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, M.O.D., MERV-13 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, & UNIT-MOUNTED CONVENIENCE RECEPTACLE

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Revisions:
 1 06/02/2022 BUILDING REVIEW

Drawn: JEJ
 Checked: CJK

Project No:
 2201060

Contents:
 HVAC SCHEDULES

M600

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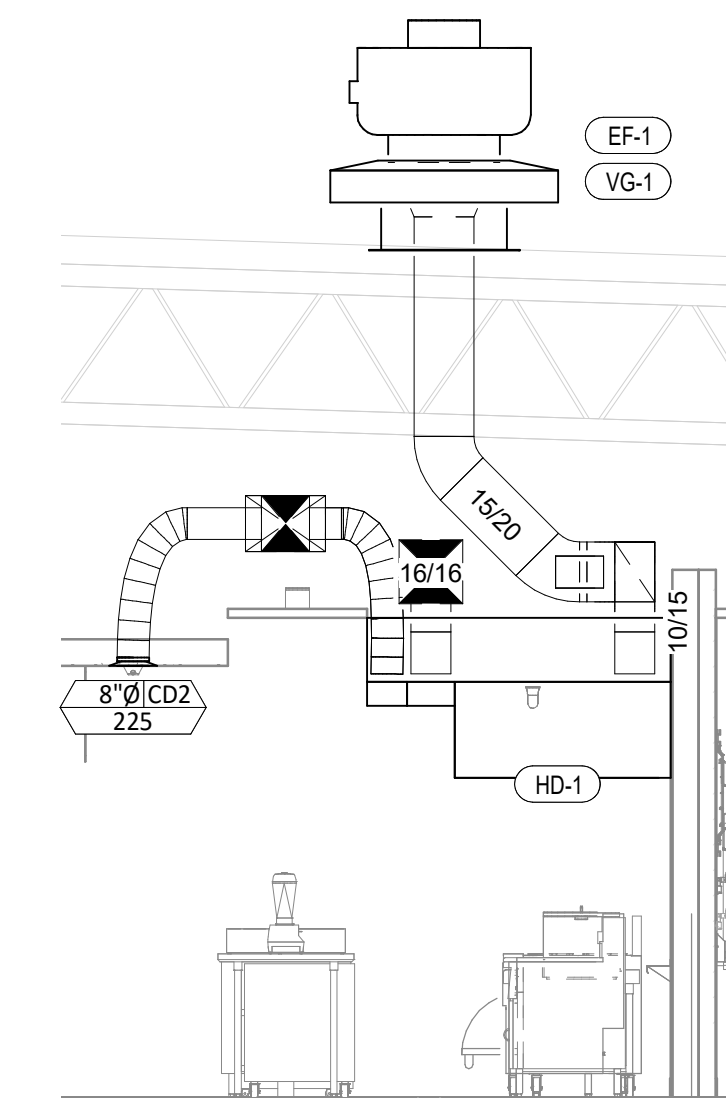
Revisions:	
2	06/08/2022 FIRE REVIEW

Drawn: JEJ
 Checked: CIK

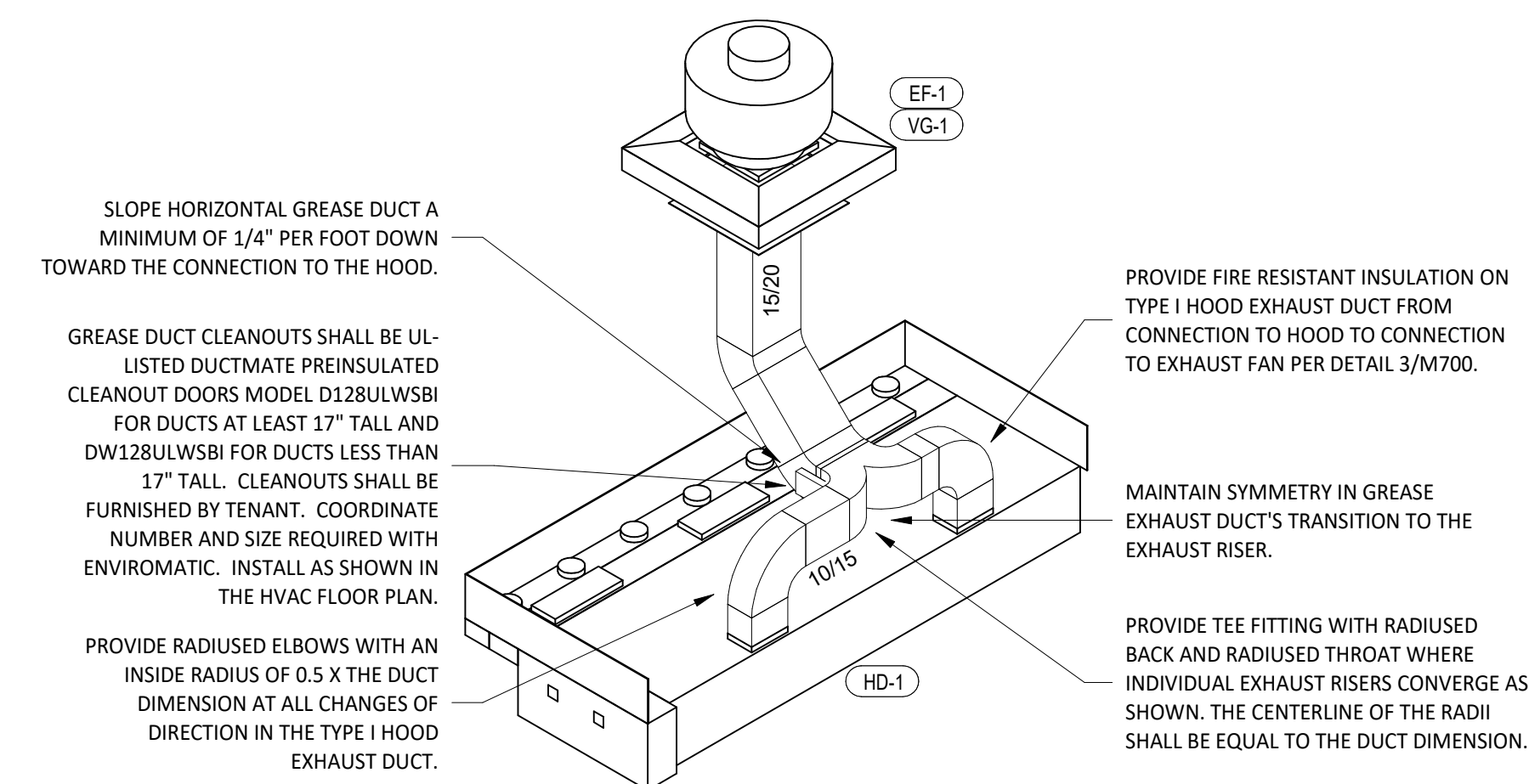
Project No:
 2201060

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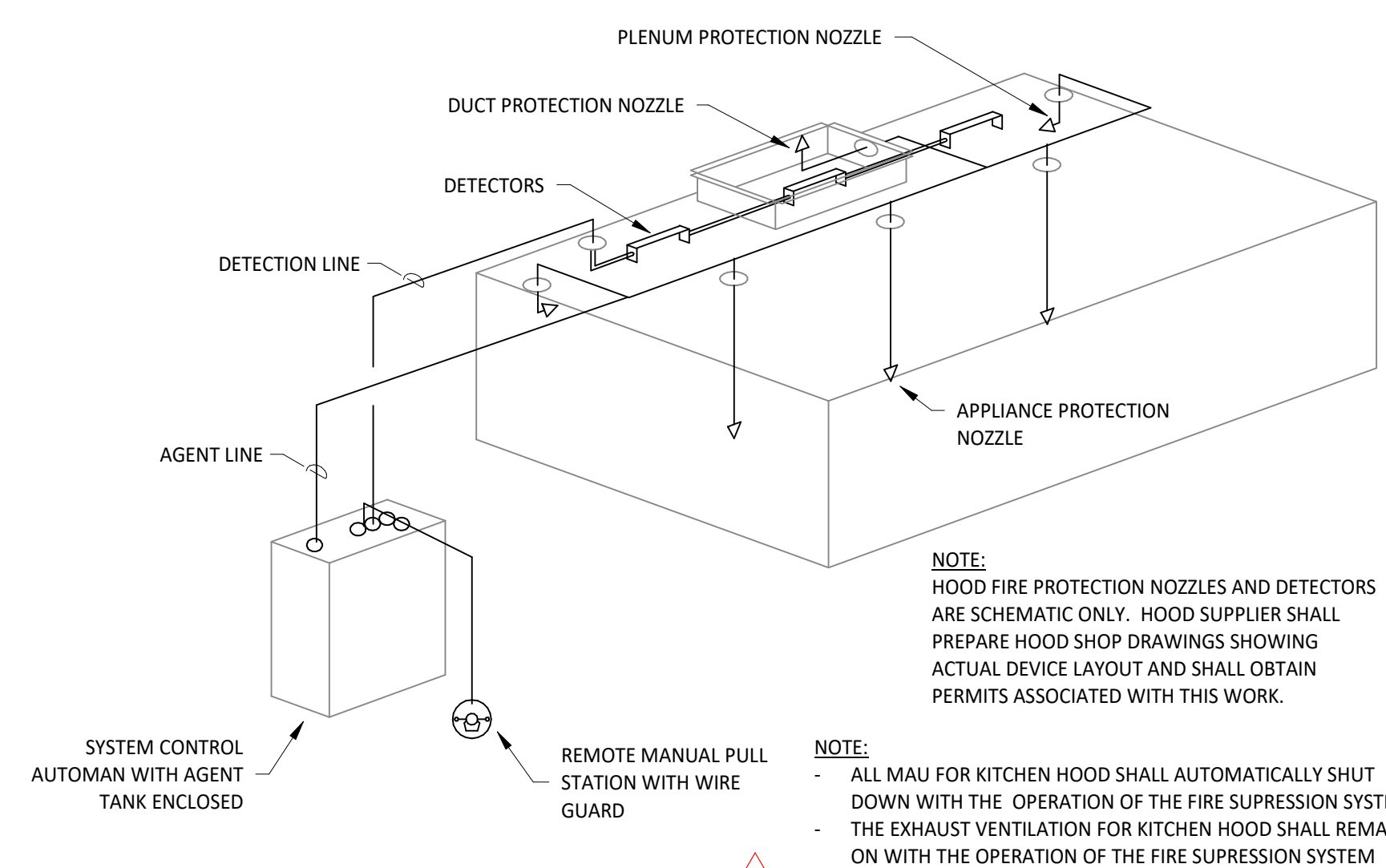
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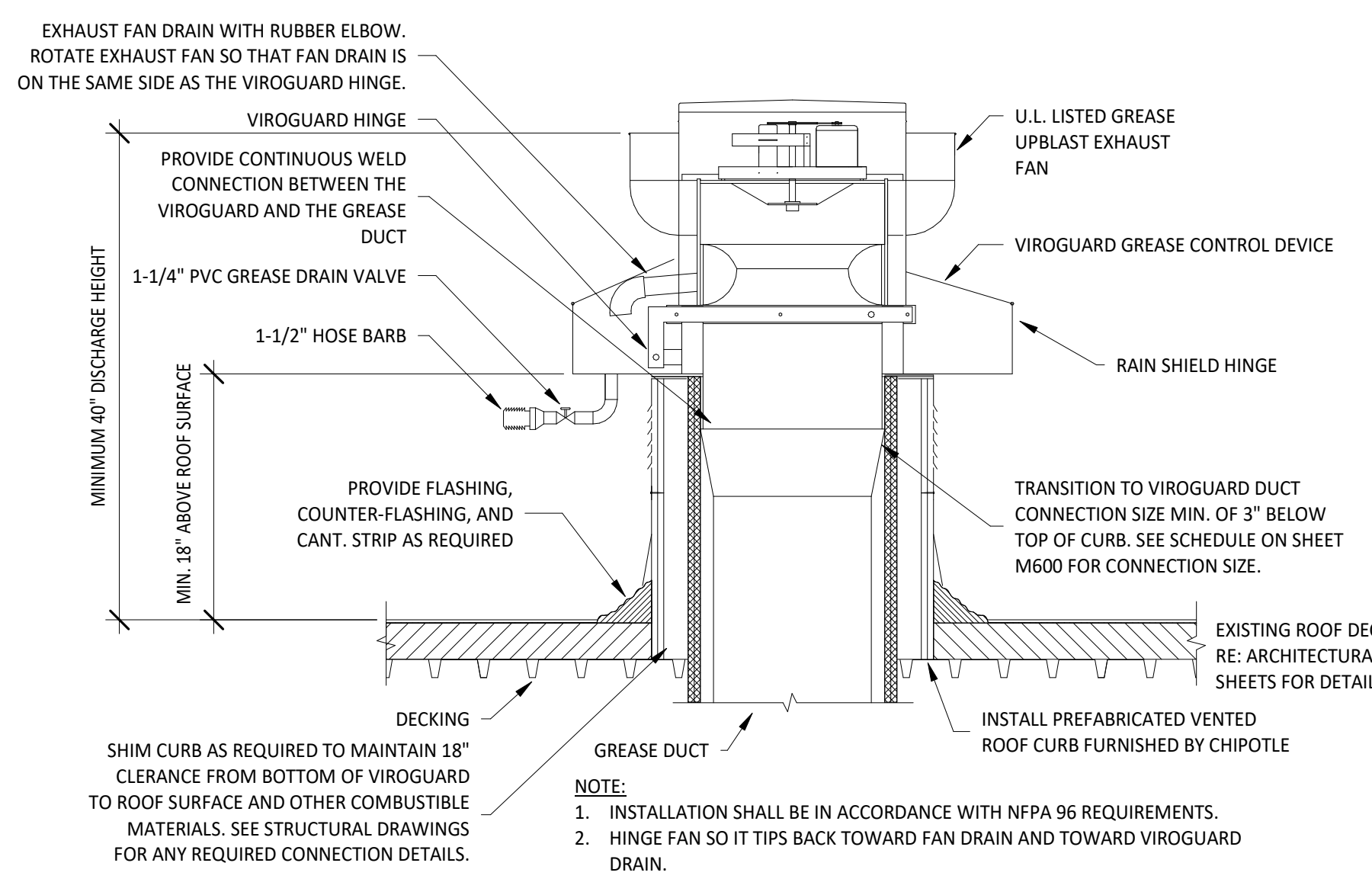
7 DUCT SECTION AT HOOD
 1/4" = 1'-0"



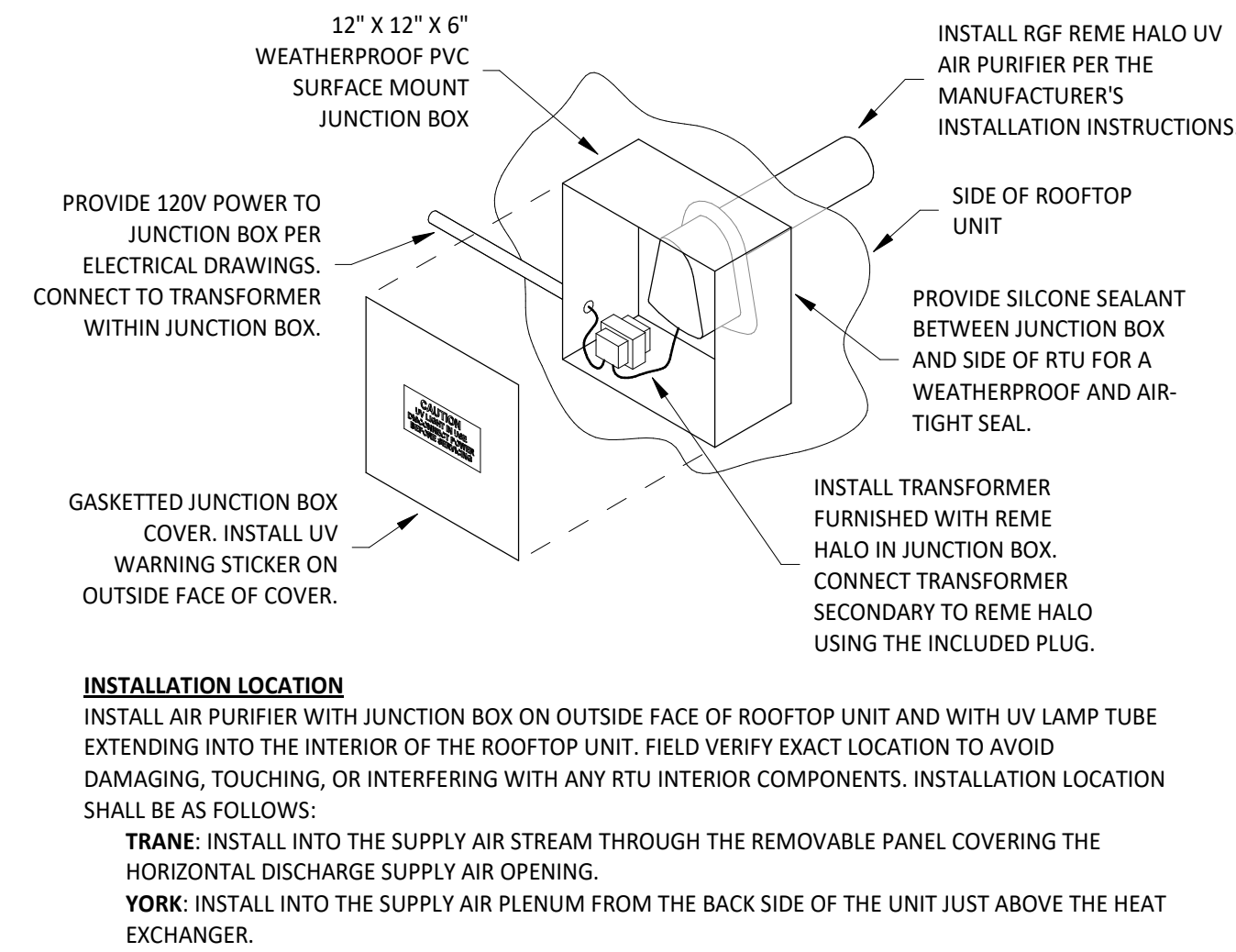
8 HOOD EXHAUST ISOMETRIC
 N.T.S.



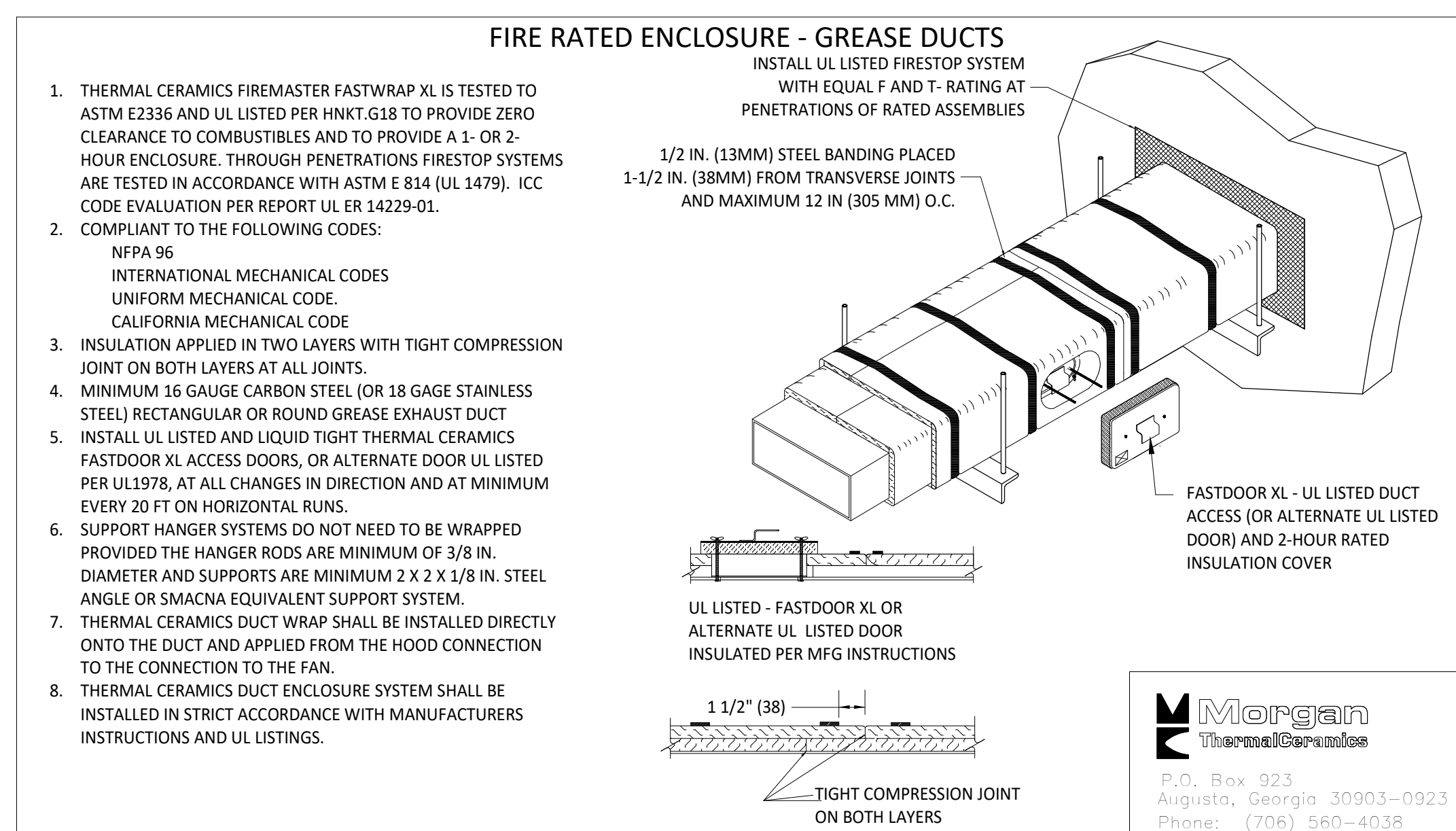
4 FIRE SUPPRESSION SYSTEM SCHEMATIC
 N.T.S.



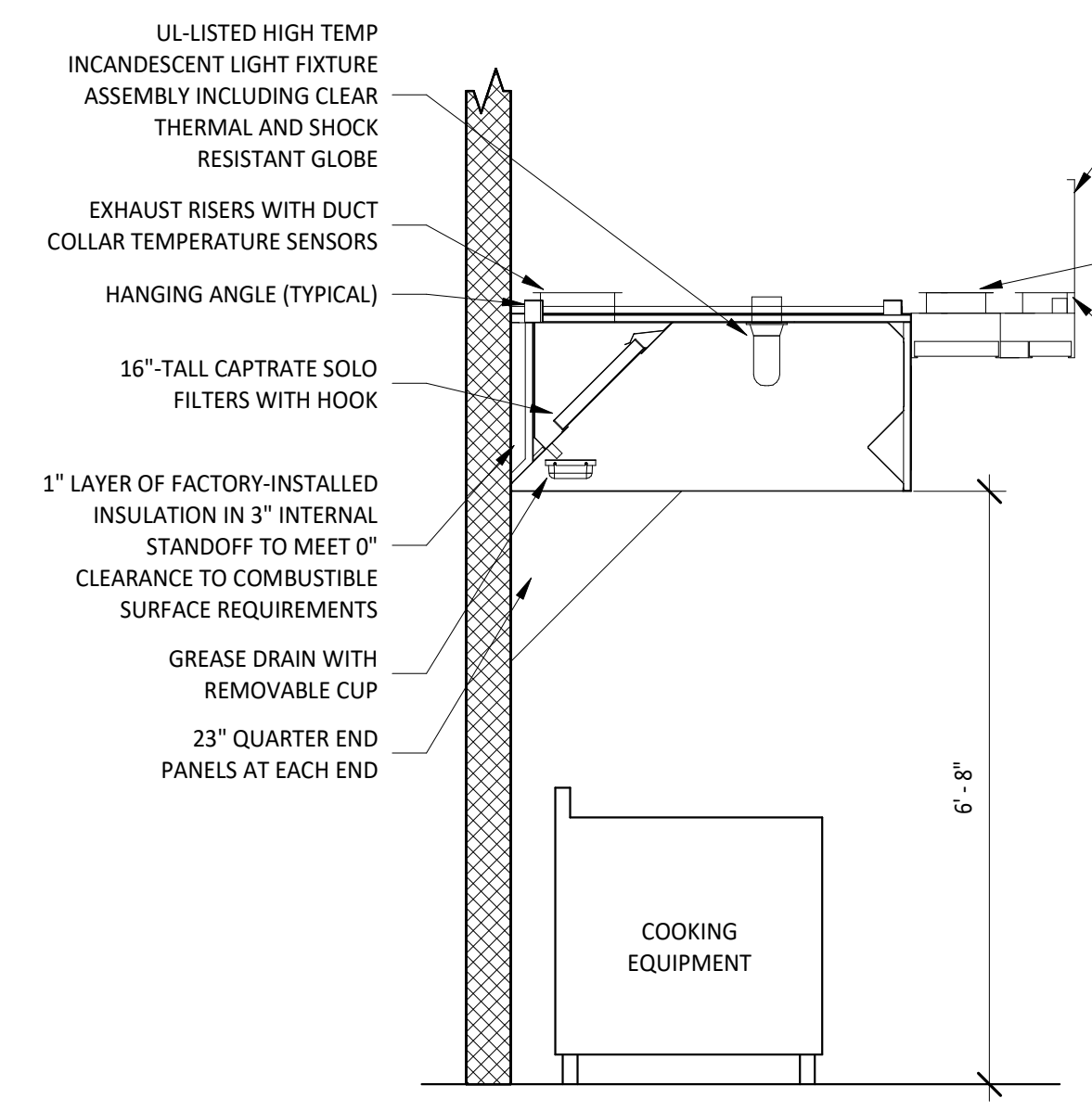
5 GREASE EXHAUST FAN
 N.T.S.



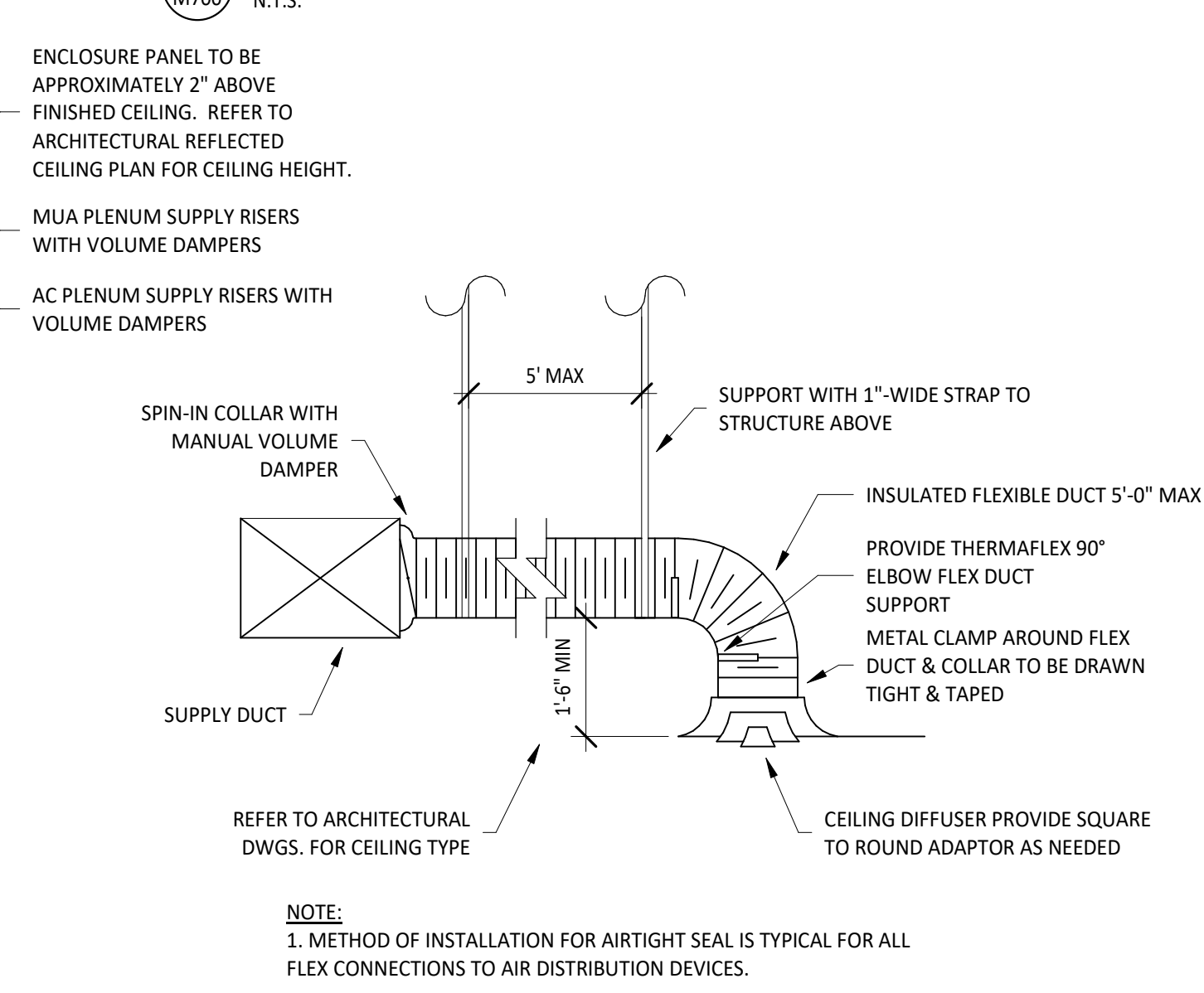
6 UV AIR PURIFIER INSTALLATION
 N.T.S.



3 FIREMASTER DUCT WRAP - UL HNKT-G18
 N.T.S.



2 HOOD SECTION VIEW
 N.T.S.



1 DIFFUSER CONNECTION
 N.T.S.