

**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 fall 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-653/924  
 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**

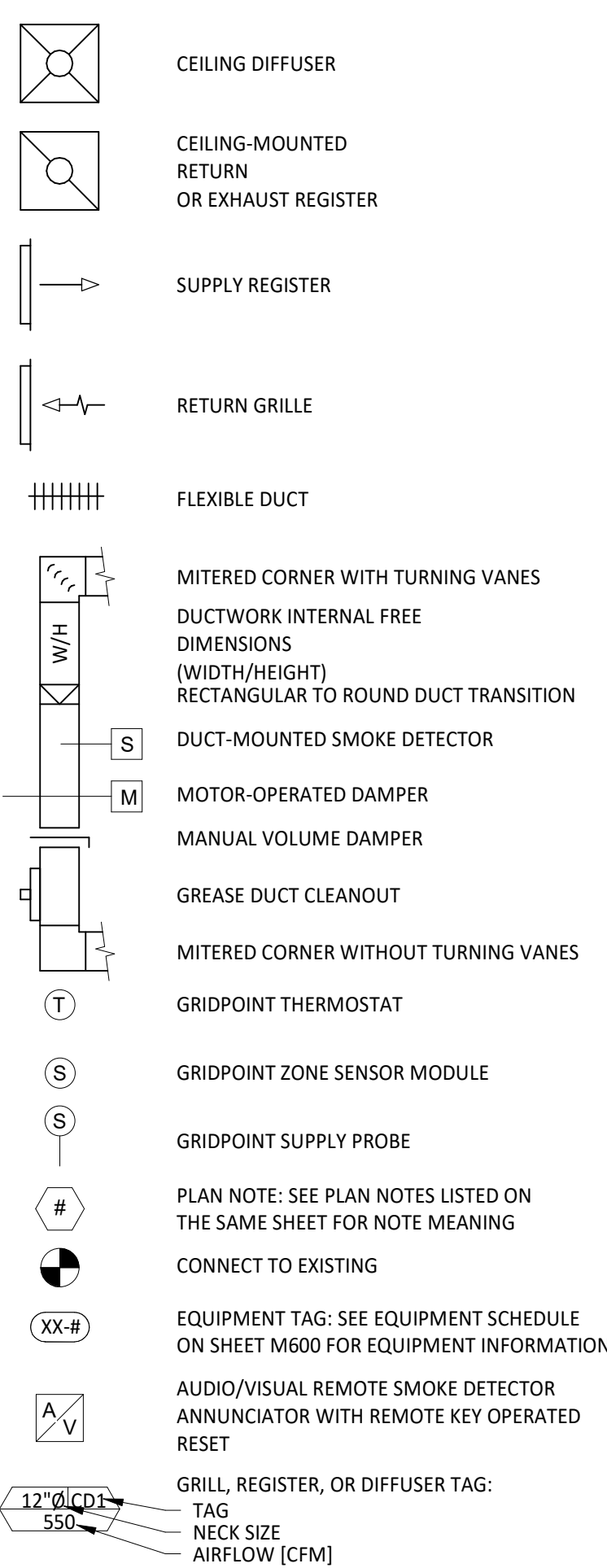
**HVAC MATERIAL SCHEDULE**

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 ABBREVIATIONS**

AFF ABOVE FINISHED FLOOR  
 AFG ABOVE FINISHED GRADE  
 CD CEILING DIFFUSER  
 CU CONDENSING UNIT  
 (E) EXISTING  
 EF EXHAUST FAN  
 ER EXHAUST REGISTER  
 EXTG 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**



**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 RADIUSSED 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.

Consultant:  
  
 4635 Trueman Blvd, Suite 250  
 Hilliard, Ohio 43026  
 Phone: (614) 751-9610  
 Fax: (614) 552-5240  
 Contact: Jason Underwood (614)202-3816  
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STORE NO.: 3811  
 BLUE OAKS PLAZA  
 1980 BLUE OAKS BOULEVARD, SUITE 110  
 ROSEVILLE, CA 95747

Issue Record:

Issue Record	Permit Set
1/14/2021	Permit Set
05/05/2022	Construction Set

Revisions:

Revisions	

Drawn: JRA Checked: RTJ

Project No. 2102015

Contents:

**HVAC SPECIFICATIONS**

**M010**





STATE OF CALIFORNIA  
**Domestic Water Heating System**  
 NRCC-PLB-E (Created 10/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE  
 Project Name: Blue Oaks Plaza Report Page: Page 1 of 6  
 Project Address: 1980 Blue Oaks Boulevard, Suite 110, Roseville, CA 95747 Date Prepared: 1/14/2022

**A. GENERAL INFORMATION**

01 Project Location (city) Roseville, CA 02 Climate Zone 3

03 Occupancy Types Within Project (select all that apply):  
 Nonresidential  High-Rise Residential  Hotel/ Motel  
 State Building  Healthcare Facility  Other (Write in): Restaurant (A-2)

**B. PROJECT SCOPE**

Table Instructions: Include any domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in §140.5, §150.1(c)(8), and §141.0(a), or §141.0(b)(2) for additions or alterations. Solar water heating systems should be documented on the NRCC-SRA compliance document. Combined hydronic water heating systems should be documented on the NRCC-MCH compliance document.

03 My project consists of (check all that apply):  
 New System (DHW system being installed for the first time in newly constructed building) System Type<sup>1</sup> Central System (serving nonresidential spaces) Equipment  Distribution  Controls  
 System Alteration (equipment, distribution or controls) Equipment  Distribution  Controls

<sup>1</sup> FOOTNOTE: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.  
<sup>2</sup> Dwelling units refers to hotel/ motel guest rooms and units in a high-rise residential occupancy.

**C. COMPLIANCE RESULTS**

Table Instructions: Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.

01	02	03	04	Compliance Results
Domestic Hot Water Equipment (See Table F)	Distribution Systems (See Table G)	Controls (See Table H)		
Yes	Yes	Yes		COMPLIES

STATE OF CALIFORNIA  
**Domestic Water Heating System**  
 NRCC-PLB-E (Created 10/20) CALIFORNIA ENERGY COMMISSION

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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.  
 No exceptional conditions apply to this project.

**E. ADDITIONAL REMARKS**

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

**F. DOMESTIC HOT WATER EQUIPMENT**

Table Instructions: Complete the following table to demonstrate compliance with mandatory equipment requirements in §110.1 and §110.3. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in §150.1(c)(8) must also be demonstrated and with §150.2 for addition and alteration scopes.

Equipment Schedule: Central Systems

07	08	09	10	11	12	13	14	15
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Rated Efficiency (%)	Minimum Efficiency Required (%)	Efficiency Unit	Designed Standby Loss <sup>1</sup>	Maximum Standby Loss <sup>1</sup>
DWH-1	Gas Instantaneous Water Heater	0	199	95	80	Et		
DWH-2	Gas Instantaneous Water Heater	0	199	95	80	Et		

<sup>1</sup> FOOTNOTE: For gas water heaters/boilers, standby loss is in BTUH. For electric storage water heaters, standby loss is in %/hr.

**Water Heating Equipment All Occupancies**

Yes	No	Not Applicable	Requirement
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unfired storage tank insulation shall have Internal + External ≥ R-16 OR External ≥ R-12. Label required per §110.3(c)(3)
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per §110.3(c)(5)
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Isolation valves for instantaneous water heater with input rating > 6.8 kBtu/h or 2 kW has been specified per §110.3(c)(6)

**G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM**

Table Instructions: Complete the following table to demonstrate compliance for nonresidential occupancies with distribution requirements in §120.3 and §140.5. For high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements in §110.3(c), §120.3, §150.0, §150.1.

Table Continued

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

STATE OF CALIFORNIA  
**Domestic Water Heating System**  
 NRCC-PLB-E (Created 10/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE  
 Project Name: Blue Oaks Plaza Report Page: Page 5 of 6  
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**K. 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/NRCV/](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/)

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCV-PLB-21-H High-rise Residential Central Hot Water Distribution HERS Verification	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCV-PLB-22-H High-rise Residential Individual Dwelling Unit Hot Water Distribution HERS Verification	<input type="checkbox"/>	<input type="checkbox"/>

STATE OF CALIFORNIA  
**Domestic Water Heating System**  
 NRCC-PLB-E (Created 10/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE  
 Project Name: Blue Oaks Plaza Report Page: Page 3 of 6  
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Table Continued

**Recirculation Loops in Central Systems Serving Dwelling Units or Nonresidential Spaces**

	Yes	No	Not Applicable	Requirement
01	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Air release valve or vertical pump installation per §110.3(c)(4A)
02	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Check valve or similar located between recirculation pump and water heating equipment to prevent backflow per §110.3(c)(4B)
03	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Hose bibb installed between pump and equipment and isolation valve between hose bibb and equipment per §110.3(c)(4C)
04	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Isolation valves on both sides of the pump per §110.3(c)(4D)
05	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cold water and recirculation loop piping shall not be connected to the hot water storage tank drain port per §110.3(c)(4E)
06	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Check valve installed on cold water supply between hot water system and next closest tee on cold water supply per §110.3(c)(4F)
07	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	For central systems serving multiple dwelling units, design includes two or more recirculation loops serving separate dwelling units per §150.1(c)(8)(ii) unless building has ≤ 8 dwelling units.

**Mandatory Pipe Insulation All Occupancies**

For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per §120.3:  
 - Recirculating system piping, including supply and return piping of the water heater  
 - The first 8 ft of hot and cold outlet piping for a nonrecirculating storage system  
 - Pipes that are externally heated  
 Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per §120.3(b) and §150.0(i)(3)

**TABLE 120.3-A PIPE INSULATION THICKNESS**

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft² per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)		
			<1	1 to <1.5	1.5 to <4
105-140	0.22-0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11

**H. DOMESTIC HOT WATER SYSTEM CONTROLS**

Table Instructions: Complete the following table to demonstrate compliance with controls requirements in §110.3 for all occupancies. For high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements in §150.1(c)(8).

Yes	No	Not Applicable	Requirement
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Table Continued

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

STATE OF CALIFORNIA  
**Domestic Water Heating System**  
 NRCC-PLB-E (Created 10/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE  
 Project Name: Blue Oaks Plaza Report Page: Page 6 of 6  
 Project Address: 1980 Blue Oaks Boulevard, Suite 110, Roseville, CA 95747 Date Prepared: 1/14/2022

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

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

Documentation Author Name: Richard T. Jones, PE Documentation Author Signature: *[Signature]*

Company: National Engineering, Ltd. Signature Date: 1/14/2022

Address: 4635 Trueman Blvd. Suite 250 CEJA/HERS Certification Identification (if applicable):

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:

- 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 builder provides to the building owner at occupancy.

Responsible Designer Name: Richard T. Jones, PE Responsible Designer Signature: *[Signature]*

Company: National Engineering, Ltd. Date Signed: 1/14/2022

Address: 4635 Trueman Blvd. Suite 250 License: 30376

City/State/Zip: Hilliard, OH 43026 Phone: 614-751-9610

Consultant:



4635 Trueman Blvd. Suite 250  
 Hilliard, Ohio 43026  
 Phone: (614) 751-9610  
 Fax: (614) 552-5240  
 Contact: Jason Underwood  
 (614)202-3816  
 Junderwood@NationalEngineering.com

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STORE NO.: 3811  
 BLUE OAKS PLAZA  
 1980 BLUE OAKS BOULEVARD, SUITE 110  
 ROSEVILLE, CA 95747

Issue Record:

Issue Record	Permit Set
1/14/2021	Permit Set
05/05/2022	Construction Set

Revisions:

Revisions	Checked:
JRA	RTJ

Project No:  
 2102015

Contents:  
 MECHANICAL TITLE  
 24 COMPLIANCE

M022









**REVISIONS**

**CAPTIVEAIRE**  
Highmoda Group

4475 Progress Park Rd., Raleigh, NC 27617-1700 (919) 276-2200 FAX: (919) 276-2201 EMAIL: capt@captivaire.com

CHIPOTLE BLUE OAKS PLAZA #3811  
ROSEVILLE, CA, 95747

DATE: 1/26/2022  
DWG.#: S294934  
DRAWN BY: JPB-40  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

SHEET NO. 5

**FEATURES:**

- DIRECT DRIVE CONSTRUCTION
- NO BELTDRIVES
- ROOF MOUNTED FAN
- SAFETY BEZEL
- STAINLESS STEEL CONSTRUCTION
- SPEED CONTROL

**DETAILS:**

- 1. CURB: 18" HIGH, 12" WIDE, 12" DEEP
- 2. ROOF MOUNTED FAN: 18" HIGH, 12" WIDE, 12" DEEP
- 3. SAFETY BEZEL: 18" HIGH, 12" WIDE, 12" DEEP
- 4. STAINLESS STEEL CONSTRUCTION
- 5. SPEED CONTROL

**INSTALLATION:**

BACKDRAFT DAMPER INSTALLATION

AIR FLOW

BACKDRAFT DAMPER

ROOF OPENING

**REVISIONS**

**CAPTIVEAIRE**  
Highmoda Group

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CHIPOTLE BLUE OAKS PLAZA #3811  
ROSEVILLE, CA, 95747

DATE: 1/26/2022  
DWG.#: S294934  
DRAWN BY: JPB-40  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

SHEET NO. 6

**FEATURES:**

- DIRECT DRIVE CONSTRUCTION
- NO BELTDRIVES
- ROOF MOUNTED FAN
- SAFETY BEZEL
- STAINLESS STEEL CONSTRUCTION
- SPEED CONTROL

**DETAILS:**

- 1. CURB: 18" HIGH, 12" WIDE, 12" DEEP
- 2. ROOF MOUNTED FAN: 18" HIGH, 12" WIDE, 12" DEEP
- 3. SAFETY BEZEL: 18" HIGH, 12" WIDE, 12" DEEP
- 4. STAINLESS STEEL CONSTRUCTION
- 5. SPEED CONTROL

**INSTALLATION:**

BACKDRAFT DAMPER INSTALLATION

AIR FLOW

BACKDRAFT DAMPER

ROOF OPENING

**REVISIONS**

**CAPTIVEAIRE**  
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CHIPOTLE BLUE OAKS PLAZA #3811  
ROSEVILLE, CA, 95747

DATE: 1/26/2022  
DWG.#: S294934  
DRAWN BY: JPB-40  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

SHEET NO. 7

**Wiring Diagrams:**

- Main Wiring
- Control Panel Wiring
- Fan Motor Wiring

**REVISIONS**

**CAPTIVEAIRE**  
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CHIPOTLE BLUE OAKS PLAZA #3811  
ROSEVILLE, CA, 95747

DATE: 1/26/2022  
DWG.#: S294934  
DRAWN BY: JPB-40  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING

SHEET NO. 8

**Wiring Diagrams:**

- Main Wiring
- Control Panel Wiring
- Fan Motor Wiring

FOR REFERENCE ONLY

Consultant:

**NATIONAL ENGINEERING**

4635 Trueman Blvd, Suite 250  
Hilliard, Ohio 43026  
Phone: (614) 751-9610  
Fax: (614) 552-5240  
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Underwood@NationalEngineering.com

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Revisions:

1	02/25/2022	CITY COMMENTS
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Drawn: JRA  
Checked: RTJ

Project No.: 2102015

Contents:

CAPTIVEAIRE HOOD DRAWINGS

SHEET 2