SECTION 23 00 00 - MECHANICAL GENERAL REQUIREMENTS

PART 1 - GENERAL
1. THE TERM “TENANT,” “TENANT'S CONSTRUCTION MANAGER,” “OWNER,” OR “OWNER'S CONSTRUCTION MANAGER” SHALL REFER TO SWEETGREEN.
2. THE GENERAL CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO PROVIDE A COMPLETE WORKING SYSTEM AND AS DESCRIBED IN THESE DRAWINGS.
3. THE GENERAL CONTRACTOR SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS. EACH SUB-CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF DRAWINGS ON SITE DURING THE CONSTRUCTION PROCESS.
4. COORDINATE WORK AS REQUIRED WITH THE LANDLORD. THE GENERAL CONTRACTOR SHALL UTILIZE LANDLORD-REQUIRED CONTRACTORS AT THE GENERAL CONTRACTOR'S EXPENSE.

PART 2 - PRODUCTS
1. PRODUCTS SHALL BE AS DESCRIBED IN THE DRAWINGS AND AS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM.

PART 3 - EXECUTION
1. UNLESS DIMENSIONS HAVE BEEN PROVIDED, THE DRAWINGS ARE DIAGRAMMATIC IN NATURE, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND REQUIRED EQUIPMENT. THEY SHALL NOT BE SCALED. COORDINATE WITH THE ARCHITECTURAL DRAWINGS, TENANT VENDORS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CUTSHEETS AS REQUIRED.
2. COMPLETE ALL WORK IN COMPLIANCE WITH THE CODES LISTED ON SHEET G-001 INCLUDING ALL LOCAL AMENDMENTS, ALL RELEVANT NFPA CODES AND STANDARDS AND SMACNA STANDARDS.
   A. VERIFY ALL CODE REQUIREMENTS AND LOCAL AMENDMENTS WITH THE AUTHORITY HAVING JURISDICTION PRIOR TO BID.
   B. WHEN THERE IS A DISCREPANCY BETWEEN THE ADOPTED CODES AND THESE DRAWINGS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
3. COORDINATE WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND ARRANGE ALL INSPECTIONS AS REQUIRED.
4. MAINTAIN A CLEAN CONSTRUCTION SITE DURING CONSTRUCTION. CLEAN SCRAP MATERIAL AND REMOVE FROM SITE DAILY AND MAINTAIN WORKING AREA IN AN ORDERLY FASHION.
5. PROVIDE SUBMITTALS AS NOTED IN THESE SPECIFICATIONS AND AS REQUESTED BY THE TENANT'S CONSTRUCTION MANAGER.
   A. ALL SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE TENANT'S CONSTRUCTION MANAGER.
   B. SHOP DRAWINGS SHALL BE SUBMITTED TO ALLOW FOR FIVE BUSINESS DAYS OF REVIEW TIME WITHOUT IMPACT TO THE PROJECT SCHEDULE.
6. PROVIDE REQUESTS FOR INFORMATION TO THE TENANT'S CONSTRUCTION MANAGER.
   A. REQUESTS FOR INFORMATION SHALL PROVIDE A DETAILED DESCRIPTION OF THE SITE CONDITION OR DISCREPANCY AND THE CONTRACTORS PROPOSED REMEDY.
   B. REQUESTS FOR INFORMATION SHALL BE SUBMITTED TO ALLOW FOR FIVE BUSINESS DAYS OF REVIEW TIME.
7. UPON COMPLETION OF WORK, THE GENERAL CONTRACTOR SHALL PROVIDE THE TENANT'S CONSTRUCTION MANAGER WITH A BOUND RECORD OF ALL MECHANICAL EQUIPMENT UTILIZED IN THE JOB. THE GENERAL CONTRACTOR SHALL PROVIDE THE SAME INFORMATION IN AN ELECTRONIC FORMAT AS DIRECTED BY THE OWNER. THE BINDER SHALL CONTAIN:
   A. COVER SHEET INDICATING THE PROJECT NAME, ADDRESS AND TURNOVER DATE.
   B. COMPANY NAME AND CONTACT INFORMATION OF THE CONTRACTORS UTILIZED FOR THE MECHANICAL SCOPE OF WORK.
   C. CUTSHEETS, INSTALLATION MANUALS AND MAINTENANCE REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT.
8. UPON COMPLETION OF WORK, THE GENERAL CONTRACTOR SHALL PROVIDE THE TENANT'S CONSTRUCTION MANAGER A FULL SET OF DRAWINGS WITH ANY DEVIATIONS FROM THE DRAWINGS INDICATED IN RED INK.

(END OF SECTION 23 00 00)

SECTION 23 05 93 - TESTING, ADJUSTING AND BALANCING FOR HVAC

PART 1 - GENERAL
1. QUALITY ASSURANCE: ALL TESTING AND BALANCING WORK SHALL BE COMPLETED BY AN INDEPENDENT CONTRACTOR AT THE GENERAL CONTRACTOR'S EXPENSE, CERTIFIED BY NEBB OR TABB AS A T&B TECHNICIAN. BALANCE THE SYSTEM IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING STANDARDS.

PART 2 - PRODUCTS: N/A

PART 3 - EXECUTION
1. AIR SYSTEMS
   A. PROVIDE ALL LABOR AND MATERIALS REQUIRED TO BALANCE THE SYSTEM AS NOTED ON THE PLANS.
   B. FAN SYSTEMS SHALL BE ADJUSTED SUCH THAT THE LOWEST FAN SPEED IS UTILIZED TO DELIVER THE REQUIRED CFM TO THE AIR TERMINALS.
   C. ADJUST DAMPERS AS REQUIRED TO BALANCE THE SUPPLY, RETURN AND EXHAUST DEVICES TO 10% OF THE DESIGN RATES. ADJUST THE OUTSIDE AIR DAMPER AS REQUIRED TO OBTAIN THE MINIMUM OUTSIDE AIR REQUIREMENTS AS NOTED IN THE SCHEDULES.
   D. RECORD THE OPERATING VOLTAGE, AMPACITY, SUPPLY/RETURN SYSTEM STATIC PRESSURES, SUPPLY/MIXED AIR TEMPERATURES (BOTH HEATING AND COOLING) AND FINAL FAN RPM.
   E. VERIFY SYSTEM CONTROLS ARE FUNCTIONING AS INTENDED.
2. REPORTING
   A. THE TEST AND BALANCE AGENT SHALL PREPARE A REPORT INCLUDING THE FINAL VALUES OF THE AIR AND WATER SYSTEM BALANCING, SYSTEM DIAGRAMS, AND SYSTEM NOTES.
   B. THE GENERAL CONTRACTOR SHALL REVIEW THE FINAL BALANCE REPORT PRIOR TO SENDING TO THE TENANT'S CONSTRUCTION MANAGER.
   C. PROVIDE T&B REPORT TO THE LANDLORD AND THE AUTHORITY HAVING JURISDICTION AS REQUIRED.

(END OF SECTION 23 05 93)

SECTION 23 07 13 - DUCT INSULATION

PART 1 - GENERAL
1. INSULATION SHALL BE PROVIDED ON THE FOLLOWING DUCT SERVICES:
   A. INDOOR, CONCEALED SUPPLY AND OUTDOOR AIR.
   B. INDOOR, CONCEALED RETURN.
   C. INDOOR, CONCEALED OVEN AND WAREWASH EXHAUST FROM AIR TERMINAL TO PENETRATION OF BUILDING EXTERIOR.
   D. INDOOR, CONCEALED GENERAL EXHAUST FROM AIR TERMINAL TO PENETRATION OF BUILDING EXTERIOR.
   E. OUTDOOR, SUPPLY AND RETURN.
2. QUALITY ASSURANCE
   A. INSULATION INSTALLED INDOORS SHALL HAVE A FLAME-SPREAD INDEX OF 25 OR LESS, AND SMOKE-DEVELOPED INDEX OF 50 OR LESS.
   B. INSULATION INSTALLED OUTDOORS SHALL HAVE A FLAME-SPREAD INDEX OF 75 OR LESS, AND SMOKE-DEVELOPED INDEX OF 150 OR LESS.

PART 2 - PRODUCTS
1. INTERIOR DUCTWORK SHALL HAVE FLEXIBLE FIBERGLASS DUCT WRAP LAMINATED TO FOIL REINFORCED KRAFT VAPOR BARRIER FACING WITH 2” STAPLING FLANGE AND AN INSTALLED THICKNESS OF 1-1/2" WITH AN R-VALUE OF 6.0.
2. EXTERIOR DUCTWORK SHALL BE INSULATED WITH 2" THICK RIGID INSULATION WITH A MINIMUM R-VALUE OF 12.0, PROTECTED WITH ROOFING MEMBRANE.

PART 3 - EXECUTION
1. PREPARATION: CLEAN AND DRY SURFACES. REMOVE MATERIALS THAT WILL ADVERSELY AFFECT INSULATION APPLICATION.
2. GENERAL INSTALLATION REQUIREMENTS:
   A. INSTALL INSULATION ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
   B. INSTALL INSULATION AND ACCESSORIES AND FINISHES WITH SMOOTH, STRAIGHT AND EVEN SURFACES; FREE OF VOIDS THROUGHOUT THE LENGTH OF DUCT AND FITTINGS.
   C. INSTALL ACCESSORIES COMPATIBLE WITH INSULATION MATERIALS AND SUITABLE FOR THE SERVICE. ACCESSORIES SHALL NOT CORRODE, SOFTEN OR OTHERWISE ATTACK INSULATION OR JACKET IN EITHER WET OR DRY STATE.
   D. INSTALL INSULATION WITH LONGITUDINAL SEAMS AT TOP OF HORIZONTAL RUNS. LONGITUDINAL SEAMS AND END JOINTS SHALL BE TIGHT. BOND SEAMS AND JOINTS WITH ADHESIVE RECOMMENDED BY INSULATION MANUFACTURER TO MAINTAIN VAPOR BARRIER INTEGRITY.
   E. APPLY ADHESIVES, MASTICS AND SEALANTS AT MANUFACTURER'S RECOMMENDED COVERAGE RATE.
   F. CUT INSULATION IN A MANNER TO AVOID COMPRESSING INSULATION MORE THAN 75 PERCENT ITS NOMINAL THICKNESS.
3. PENETRATIONS
   A. ROOF PENETRATIONS: INSTALL INSULATION CONTINUOUSLY THROUGH ROOF PENETRATIONS. FOR APPLICATIONS REQUIRING ONLY INDOOR INSULATION, TERMINATE INSULATION ABOVE ROOF SURFACE AND SEAL WITH JOINT SEALANT. FOR APPLICATIONS REQUIRING INDOOR AND OUTDOOR INSULATION, INSTALL INSULATION FOR OUTDOOR APPLICATIONS TIGHTLY JOINED TO INDOOR INSULATION ENDS. SEAL JOINT WITH JOINT SEALANT.
   B. WALL PENETRATIONS: INSTALL INSULATION CONTINUOUSLY THROUGH WALL PENETRATIONS. FOR APPLICATIONS REQUIRING ONLY INDOOR INSULATION, TERMINATE INSULATION OUTSIDE OF WALL SURFACE AND SEAL WITH JOINT SEALANT. FOR APPLICATIONS REQUIRING INDOOR AND OUTDOOR INSULATION, INSTALL INSULATION FOR OUTDOOR APPLICATIONS TIGHTLY JOINED TO INDOOR INSULATION ENDS. SEAL JOINT WITH JOINT SEALANT.
   C. INTERIOR WALLS: INSTALL INSULATION CONTINUOUSLY THROUGH WALLS AND PARTITIONS THAT ARE NOT FIRE RATED. TERMINATE INSULATION AT FIRE DAMPER SLEEVES FOR FIRE-RATED WALL AND PARTITION PENETRATIONS. EXTERNALLY INSULATE THE DAMPER SLEEVES TO MATCH ADJACENT INSULATION AND OVERLAP DUCT INSULATION AT LEAST 2 INCHES.

(END OF SECTION 23 07 13)

SECTION 23 31 13 - METAL DUCTS

PART 1 - GENERAL
1. SECTION INCLUDES
   A. RECTANGULAR DUCTS AND FITTINGS
   B. ROUND DUCTS AND FITTINGS
   C. DOUBLE-WALL DUCTWORK AND FITTINGS
   D. FLAT-OVAL DUCTS AND FITTINGS
   E. SHEET METAL MATERIALS
   F. SEALANTS AND GASKETS
   G. HANGERS AND SUPPORTS
2. PERFORMANCE REQUIREMENTS
   A. DUCT CONSTRUCTION, INCLUDING SHEET METAL THICKNESS, SEAM AND JOINT CONSTRUCTION, REINFORCEMENTS AND HANGERS/SUPPORTS SHALL COMPLY WITH THE LATEST VERSION OF SMACNA'S “HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.”
   B. DUCT HANGERS AND SUPPORTS SHALL WITHSTAND THE EFFECTS OF GRAVITY LOADS AND STRESSES WITHIN LIMITS UNDER CONDITIONS DESCRIBED IN SMACNA'S “HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.”
   C. SURFACES IN CONTACT WITH THE AIRSTREAM SHALL COMPLY WITH REQUIREMENTS IN ANSI/ASHRAE 62.1.
3. SECTION REQUIREMENTS
   A. SUBMITTALS: NONE REQUIRED.

PART 2 - PRODUCTS
1. RECTANGULAR DUCTS AND FITTINGS:
   A. COMPLY WITH SMACNA'S “HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE” BASED ON INDICATED STATIC-PRESSURE CLASS UNLESS NOTED OTHERWISE.
   B. TRAVERSE JOINTS: SELECT JOINT TYPES AND FABRICATE ACCORDING TO SMACNA'S “HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE,” FIGURE 2-1 FOR STATIC-PRESSURE CLASS, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT SUPPORT INTERVALS AND OTHER PROVISIONS AS REQUIRED.
   C. LONGITUDINAL SEAMS: SELECT SEAM TYPES AND FABRICATE ACCORDING TO SMACNA'S “HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE,” FIGURE 2-2 FOR STATIC-PRESSURE CLASS, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT SUPPORT INTERVALS AND OTHER PROVISIONS AS REQUIRED.
   D. ELBOWS, TRANSITIONS, OFFSETS, BRANCH CONNECTIONS, AND OTHER DUCT CONSTRUCTION: SELECT TYPES AND FABRICATE ACCORDING TO SMACNA'S “HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE,” CHAPTER 4 FOR STATIC-PRESSURE CLASS, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT SUPPORT INTERVALS AND OTHER PROVISIONS AS REQUIRED.
2. ROUND DUCTS AND FITTINGS:
   A. SPIRAL LOCK SEAM, WITHOUT INSULATION.
   B. BASIS OF DESIGN: LINDAB SAFE SINGLE WALL DUCTS AND FITTINGS. ALTERNATES BY MCGILL AIRFLOW. ALL DUCTWORK SHALL BE PREPPED AND READY TO RECEIVE PAINT.
3. FLAT-OVAL DUCTS AND FITTINGS
   A. SPIRAL LOCK SEAM, WITHOUT INSULATION.
   B. BASIS OF DESIGN: LINDAB FOSR FLAT-OVAL SPIRAL DUCTS AND FITTINGS. ALTERNATES BY MCGILL AIRFLOW. ALL DUCTWORK SHALL BE PREPPED AND READY TO RECEIVE PAINT.
4. DOUBLE-WALL DUCTWORK AND FITTINGS
   A. SPIRAL LOCK SEAM, WITH 1" INSULATION THICKNESS.
   B. BASIS OF DESIGN: LINDAB SAFE DOUBLE WALL DUCTS AND FITTINGS. ALTERNATES BY MCGILL AIRFLOW.
4. MATERIALS: GALVANIZED SHEET STEEL. COMPLY WITH ASTM A 653/A 653M. G90 COATING DESIGNATION.
5. SEALANTS AND GASKETS:
   A. MAXIMUM FLAME-SPREAD INDEX: 25 (WHEN TESTED ACCORDING TO UL 723).
   B. MAXIMUM SMOKE-DEVELOPED INDEX: 50 (WHEN TESTED ACCORDING TO UL 723).
   C. TWO-PART TAPE SEALING SYSTEM: PROVIDE 3” TAPE CONSTRUCTED OF WOVEN COTTON FIBER IMPREGNATED WITH MINERAL GYPSUM AND MODIFIED ACRYLIC/SILICONE TO FORM A HARD, DURABLE AIRTIGHT SEAL. SEALANT SHALL BE A MODIFIED STYRENE ACRYLIC. COMPATIBLE WITH GALVANIZED SHEET STEEL. WATER, MOLD AND MILDEW RESISTANT. VOC CONTENT OF 250g/L OR LESS.
   D. WATER BASED JOINT AND SEAM SEALANT: BRUSH ON WITH MINIMUM OF 65% SOLIDS CONTENT. MINIMUM SHORE A HARDNESS OF 20. COMPATIBLE WITH GALVANIZED SHEET STEEL. WATER, MOLD AND MILDEW RESISTANT. VOC CONTENT OF 75g/L (LESS WATER).
6. HANGERS AND SUPPORT:
   A. RECTANGULAR DUCTWORK: HANGER RODS SHALL BE CADMIUM-PLATED STEEL RODS AND NUTS. STRAP AND ROD SIZE SHALL COMPLY WITH SMACNA'S “HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE,” TABLE 5-1. SECURE TO DUCT WITH SHEET METAL SCREWS COMPATIBLE WITH DUCT MATERIALS.
   B. ROUND DUCTWORK: SUPPORT WITH AIRCRAFT CABLE COMPLYING WITH ASTM A 603. CONNECT ENDS WITH CADMIUM-PLATED STEEL ASSEMBLIES WITH BRACKETS, SWIVEL AND BOLTS DESIGNED FOR DUCT HANGER SERVICE.
   C. EXTERIOR DUCTWORK SHALL BE PROVIDED WITH DUCT SUPPORTS, SPACED PER THE MANUFACTURER'S RECOMMENDATIONS.

PART 3 - EXECUTION
1. INSTALLATION
   A. DRAWING PLANS, SCHEMATICS AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF DUCTWORK ROUTING. COORDINATE INSTALLATION WITH WORK OF ALL OTHER TRADES AND EXISTING CONDITIONS. ACCOMMODATE DUCT HANGER, RODS, INSULATION AND OTHER REQUIREMENTS AS REQUIRED.
   B. INSTALL DUCTS ACCORDING TO SMACNA'S “HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE” IN MAXIMUM PRACTICAL LENGTHS WITH FEWEST POSSIBLE JOINTS.
   C. UNLESS NOTED OTHERWISE, INSTALL DUCTS PARALLEL AND PERPENDICULAR TO BUILDING LINES.
   D. INSTALL DUCTS WITH CLEARANCES AS REQUIRED TO ACCOMMODATE THE INSTALLATION OF INSULATION.
   E. INSTALLATION OF EXPOSED DUCTWORK: PROTECT DUCTWORK FROM DAMAGE. REPAIR/REPLACE ALL DAMAGED SECTIONS AND FINISHED WORK. TRIM SEALANTS FLUSH WITH METAL. CREATE A SMOOTH AND UNIFORM EXPOSED BEAD. DO NOT USE TWO-PART TAPING SYSTEM. MAINTAIN CONSISTENCY, SYMMETRY AND UNIFORMITY IN THE INSTALLATION.
2. DUCT SEALING: CONSTRUCT DUCTS WITH 2 INCH POSITIVE AND NEGATIVE DUCT PRESSURE CLASSIFICATIONS.
3. HANGER AND SUPPORT INSTALLATION: COMPLY WITH SMACNA'S “HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE,” CHAPTER 5. HANGERS EXPOSED TO VIEW SHALL BE AIRCRAFT IN ACCORDANCE WITH THE MECHANICAL DETAILS.
4. CONNECTIONS: MAKE CONNECTIONS TO EQUIPMENT WITH FLEXIBLE CONNECTORS COMPLYING WITH SECTION 23 33 00 “AIR DUCT ACCESSORIES.” COMPLY WITH SMACNA'S “HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE” FOR BRANCH, OUTLET AND INLET, AND TERMINAL UNIT CONNECTIONS.
5. CLEANING: CLEAN ALL EXISTING DUCTWORK TO REMAIN PRIOR TO TESTING, ADJUSTING AND BALANCING. REMOVE ALL SURFACE CONTAMINANTS AND DEPOSITS ON AIR OUTLETS AND INLETS PRIOR TO PUNCH.
6. PROVIDE AIR BALANCE IN ACCORDANCE WITH SECTION 23 05 93 “TESTING, ADJUSTING, AND BALANCING FOR HVAC.”
7. DUCT ELBOWS
   A. RECTANGULAR: PROVIDE HOLLOW-FORMED, DOUBLE-THICKNESS TURNING VANES OR RADIUSED ELBOWS WITH INSIDE RADIUS NO SMALLER THAN 1/2 OF THE DUCT WIDTH.
   B. ROUND DUCT ELBOWS: PROVIDE RADIUSED ELBOWS WITH AN INSIDE RADIUS NO SMALLER THAN 1/2 OF THE DUCT WIDTH.
8. BRANCH CONFIGURATION
   A. RECTANGULAR: COMPLY WITH SMACNA'S “HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE,” FIGURE 4-6. RECTANGULAR MAIN TO RECTANGULAR BRANCH SHALL BE A 45-DEGREE ENTRY. RECTANGULAR MAIN TO ROUND BRANCH SHALL BE A SPIN-IN FITTING.
   B. ROUND: COMPLY WITH SMACNA'S “HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE,” FIGURE 3-5 AND FIGURE 3-6. PROVIDE 90 DEGREE TAP.

(END OF SECTION 23 31 13)

SECTION 23 33 00 - AIR DUCT ACCESSORIES

PART 1 - GENERAL
1. SECTION INCLUDES
   A. BACKDRAFT AND PRESSURE RELIEF DAMPERS
   B. MANUAL VOLUME DAMPERS
   C. CONTROL DAMPERS
   D. FIRE DAMPERS
   E. TURNING VANES
   F. FLEXIBLE CONNECTORS
   G. DUCT ACCESSORY HARDWARE
2. SECTION REQUIREMENTS
   A. SUBMITTALS: NONE REQUIRED.

PART 2 - PRODUCTS
1. COMPLY WITH NFPA 90A AND WITH NFPA 90B.
2. COMPLY WITH SMACNA'S “HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE” FOR ACCEPTABLE MATERIALS, THICKNESS AND DUCT CONSTRUCTION METHODS UNLESS NOTED OTHERWISE. SHEET METAL MATERIALS SHALL BE FREE FROM PITTING, SEAM MARKS, ROLLER MARKS, STAINS, DISCOLORATIONS AND OTHER IMPERFECTIONS.
3. GALVANIZED SHEET STEEL: COMPLY WITH ASTM A 653/A 653M. G90 COATING DESIGNATION.
4. BACKDRAFT AND PRESSURE RELIEF DAMPERS: GRAVITY BALANCED. AS SPECIFIED ON THE PLANS.
5. MANUAL VOLUME DAMPERS: STANDARD LEAKAGE RATING WITH LINKAGE OUTSIDE OF AIRFRAME. SUITABLE FOR HORIZONTAL OR VERTICAL APPLICATIONS
   A. FRAME: HAT SHAPED WITH MITERED AND WELDED CORNERS. FLANGELESS FRAMES FOR INSTALLING IN DUCTS.
   B. BLADES: RECTANGULAR DAMPERS SHALL BE MULTIPLE BLADES WITH OPPOSED-BLADE DESIGN. ROUND DAMPERS SHALL BE SINGLE BLADE.
   C. BLADE AXLES: GALVANIZED STEEL.
   D. BEARINGS: MOLDED SYNTHETIC.
   E. TIE BARS AND BRACKETS: GALVANIZED STEEL.
   F. JACKSHAFT: 1/2" DIAMETER CONSTRUCTED OF GALVANIZED STEEL WITHIN PIPE-BEARING ASSEMBLY WITH SUPPORTS. LENGTH AND NUMBER OF MOUNTINGS AS REQUIRED.
   G. HARDWARE: ZINC-PLATED, DIE CAST CORE WITH DIAL HANDLE AND A LOCKING NUT.
6. CONTROL DAMPERS
   A. FRAME: HAT SHAPED WITH MITERED AND WELDED CORNERS. FLANGELESS FRAMES FOR INSTALLING IN DUCTS.
   B. BLADES: RECTANGULAR DAMPERS SHALL BE MULTIPLE BLADES WITH OPPOSED-BLADE DESIGN. ROUND DAMPERS SHALL BE SINGLE BLADE. BLADE EDGING SHALL BE REPLACEABLE RUBBER SEALS.
   C. BLADE AXLES: 1/2" DIAMETER. BLADE LINKAGE HARDWARE OF ZINC-PLATED STEEL AND BRASS; ENDS SEALED AGAINST BLADE BEARING.
   D. BEARINGS: MOLDED SYNTHETIC.
7. FIRE DAMPERS
   A. TYPE: STATIC; RATED AND LABELED ACCORDING TO UL 555.
   B. CLOSING RATINGS IN DUCTS UP TO 4” STATIC PRESSURE CLASS AND MAXIMUM 2,000 FPM VELOCITY.
   C. FIRE RATING: 1-1/2 HOURS, OR AS NOTED IN THE SCHEDULES.
   D. FRAME: CURTAIN TYPE WITH BLADES INSIDE AIRSTREAM. CONSTRUCTED OF GALVANIZED STEEL.
   E. MOUNTING SLEEVE: FACTORY FURNISHED.
   F. MOUNTING ORIENTATION: AS NOTED ON PLANS.
   G. BLADES: INTERLOCKING, CONSTRUCTED OF GALVANIZED STEEL.
   H. HEAT-RESPONSIVE DEVICE: 165 DEGREE F RATED FUSIBLE LINK OR AS NOTED IN THE SCHEDULES.
8. TURNING VANES: CURVED BLADES OF GALVANIZED SHEET STEEL. PROVIDED WITH SUPPORT BARS PERPENDICULAR TO BLADE SET SUITABLE FOR DUCT MOUNTING. COMPLY WITH SMACNA'S “HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE." SINGLE WALL CONSTRUCTION.
9. FLEXIBLE CONNECTORS: CONSTRUCTED OF FLAME-RETARDANT OR NONCOMBUSTIBLE FABRIC. FABRIC SHALL BE A GLASS FABRIC, DOUBLE COATED WITH NEOPRENE. COMPLY WITH UL 181 CLASS 1. FACTORY-FABRICATED WITH A FABRIC STRIP 3-1/2 INCHES WIDE ATTACHED TO TWO STRIPS OF 2-3/4 INCH THICK GALVANIZED SHEET STEEL.

PART 3 - EXECUTION
1. INSTALLATION
   A. INSTALL DUCT ACCESSORIES ACCORDING TO APPLICABLE DETAILS IN SMACNA'S “HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE.”
   B. INSTALL VOLUME DAMPERS AT POINTS NOTED ON PLANS AND AS REQUIRED FOR SYSTEM BALANCING. WHERE DAMPERS ARE INSTALLED IN DUCTS WITH DUCT LINER, INSTALL DAMPERS WITH HAT CHANNELS OF SAME DEPTH AS LINER AND TERMINATE LINER WITH NOSING AT HAT CHANNEL.
   C. WHERE DAMPERS ARE INSTALLED IN WRAPPED DUCT, PROVIDE INSULATION STAND-OFF'S AS REQUIRED.
   D. SET DAMPERS TO FULLY OPEN POSITION BEFORE TESTING, ADJUSTING AND BALANCING.
   E. INSTALL TEST HOLES AT FAN INLETS AND OUTLETS AND WHERE REQUIRED FOR TESTING AND BALANCING PURPOSES.
   F. INSTALL FIRE DAMPERS ACCORDING TO UL LISTING.
   G. INSTALL FLEXIBLE CONNECTORS TO CONNECT DUCTS TO EQUIPMENT.
2. TESTS AND INSPECTIONS
   A. OPERATE DAMPERS TO VERIFY FULL RANGE OF MOVEMENT.
   B. OPERATE FIRE DAMPERS TO VERIFY FULL RANGE OF MOVEMENT AND VERIFY THAT PROPER HEAT-RESPONSE DEVICE IS INSTALLED.
   C. INSPECT TURNING VANES FOR PROPER AND SECURE INSTALLATION.

(END OF SECTION 23 33 00)

SECTION 23 33 46 - FLEXIBLE DUCTS

PART 1 - GENERAL
1. SECTION REQUIREMENTS
   A. SUBMITTALS: NONE REQUIRED.

PART 2 - PRODUCTS
1. COMPLY WITH NFPA 90A AND NFPA 90B.
2. COMPLY WITH SMACNA'S “HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE” FOR ACCEPTABLE MATERIALS, MATERIAL THICKNESS AND DUCT CONSTRUCTION METHODS UNLESS NOTED OTHERWISE.
3. COMPLY WITH ASTM E 96/E 96M.
4. INSULATED, FLEXIBLE DUCT UL 181, CLASS 1. FACTORY FABRICATED AND INSULATED. PROVIDED WITH INTERIOR LINER, FIBROUS-GLASS INSULATION AND VAPOR-BARRIER FILM.
   A. PRESSURE RATING: 10” W.G. POSITIVE.
   B. MAXIMUM VELOCITY: 4,000 FPM
   C. INSULATION R-VALUE: R6.0
5. FLEXIBLE DUCT CONNECTORS SHALL BE NYLON STRAPS IN SIZES 3 THROUGH 18 INCHES TO SUIT DUCT SIZE.

PART 3 - EXECUTION
1. INSTALLATION
   A. INSTALL FLEXIBLE DUCTS ACCORDING TO APPLICABLE DETAILS IN SMACNA'S “HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.”
   B. INSTALL IN INDOOR APPLICATIONS ONLY. FLEXIBLE DUCTWORK IS ONLY PERMITTED TO CONNECT TO SUPPLY-AIR GRILLES, REGISTERS AND DIFFUSERS. MAXIMUM LENGTH SHALL BE 60 INCHES.
   C. CONNECT FLEXIBLE DUCTS TO METAL DUCTS WITH DRAW BANDS AND TAPE.
   D. INSTALL DUCTS FULLY EXTENDED.
   E. DO NOT BEND DUCTS ACROSS SHARP CORNERS.
   F. BENDS OF FLEXIBLE DUCTING SHALL NOT EXCEED A MINIMUM OF ONE DUCT DIAMETER.
   G. AVOID CONTACT WITH METAL FIXTURES, WATER LINES, PIPES, ADJACENT DUCTWORK OR CONDUIT.
   H. INSTALL FLEXIBLE DUCTS IN A DIRECT LINE, WITHOUT SAGS, TWISTS OR TURNS.
   I. SUSPEND FLEXIBLE DUCTS WITH BANDS 1-1/2 INCHES WIDE AND SPACED A MAXIMUM OF 48 INCHES APART. PROVIDE ADDITIONAL SUPPORT AT BENDS. DUCTS MAY REST ON CEILING JOISTS OR TRUSS SUPPORTS. SPACING BETWEEN THESE ELEMENTS SHALL NOT EXCEED 48 INCHES.

(END OF SECTION 23 33 46)

SECTION 23 34 00 - SQUARE INLINE FANS

PART 1 - GENERAL
1. SECTION REQUIREMENTS
   A. SUBMITTALS: PROVIDE SHOP DRAWINGS INDICATING THE DIMENSIONS, WEIGHTS, REQUIRED CLEARANCES, COMPONENTS, ELECTRICAL CHARACTERISTICS, CFM, STATIC PRESSURE AND FAN CURVE.
   B. WARRANTY: SUBMIT A WRITTEN WARRANTY, SIGNED BY THE MANUFACTURER AGREEING TO REPAIR OR REPLACE COMPONENTS OF FANS THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN THE MANUFACTURER'S STANDARD WARRANTY PERIOD.

PART 2 - PRODUCTS
1. DESCRIPTION
   A. INLINE TYPE FAN WITH SQUARE INLET AND OUTLET DESIGNED FOR FLOOR-MOUNTING OR HUNG INSTALLATIONS IN-LINE WITH DUCTWORK WITH CENTRIFUGAL OR MIXED-FLOW WHEEL.
2. MANUFACTURERS: AS NOTED IN THE MECHANICAL SCHEDULES. NO SUBSTITUTIONS SHALL BE PERMITTED.
3. CHARACTERISTICS. PROVIDED WITH:
   A. FAN: CONSTRUCTED OF CORROSION RESISTANT STEEL, DIRECT DRIVEN, SQUARE INLINE BLOWER.
   B. HOUSING: CONSTRUCTED OF HEAVY-GAUGE GALVANIZED STEEL OR STAINLESS STEEL FOR UL762 LISTED FANS. SIDE PANELS SHALL BE REMOVEABLE FOR SERVICE ACCESS.
   C. WHEEL: BACKWARD INCLINED, NON-OVERLOADING, ALL-ALUMINUM WHEEL. BALANCED IN ACCORDANCE WITH AMCA STANDARD 204-96.
   D. MOTOR: VOLTAGE AS NOTED IN THE MECHANICAL SCHEDULES. MOTOR SHALL HAVE PERMANENTLY LUBRICATED BALL BEARINGS, SUPPLIED WITH A MOTOR COVER.
   E. ACCESSORIES: AS NOTED ON THE MECHANICAL SCHEDULES.

PART 3 - EXECUTION
1. INSTALLATION
   A. SUSPEND THE INLINE FAN FROM STRUCTURE WITH NEOPRENE-TYPE VIBRATION ISOLATORS AS NOTED IN THE STRUCTURAL DRAWINGS.
2. CONNECTIONS
   A. COMPLY WITH DUCT INSTALLATION REQUIREMENTS SPECIFIED IN OTHER HVAC SECTIONS. DRAWINGS INDICATE GENERAL ARRANGEMENTS OF DUCTS.
   B. WHERE INSTALLING ADJACENT TO OTHER BUILDING SYSTEMS, ALLOW SPACE FOR SERVICE AND MAINTENANCE.
   C. CONNECT DUCTWORK TO FAN WITH FLEXIBLE DUCT CONNECTORS.
   D. CONNECT ELECTRICAL WIRING IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS.
   E. GROUND EQUIPMENT IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS.
3. FIELD QUALITY CONTROL
   A. AFTER INSTALLING FANS, TEST UNITS FOR COMPLIANCE WITH REQUIREMENTS.
   B. CONFIRM PROPER MOTOR ROTATION AND UNIT OPERATIONS.
   C. OPERATIONAL TEST: AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, START UNITS TO CONFIRM PROPER MOTOR ROTATION AND UNIT OPERATION.

(END OF SECTION 23 34 00)

HVAC GENERAL NOTES

A GENERAL NOTES APPLY TO ALL 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 SHEET G-001 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 LANDLORD AND THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION. UTILIZE THE LANDLORD’S ROOFING CONTRACTOR AT THE GENERAL CONTRACTOR’S EXPENSE WHEN REQUIRED.
I UNLESS NOTED OTHERWISE RECTANGULAR DUCT ELBOWS SHALL BE MITERED ELBOWS WITH DOUBLE-THICKNESS TURNING VANES.
J REPLACE AIR FILTERS WITH NEW, CLEAN MERV8 FILTERS AT TURNOVER.
K THE TERM "FURNISH" OR "SUPPLY" 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 A FINAL REPORT FOR THE TESTING AND ADJUSTMENTS OF ALL NEW SYSTEMS FROM ALL DISCIPLINES SHALL BE COMPLETED WITH FINAL APPROVAL BY THE FIELD INSPECTOR. THIS REPORT SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.
M TESTING AND BALANCING OF THE MECHANICAL SYSTEMS TO BE COMPLETED BY NATIONALTAB AT THE GENERAL CONTRACTOR’S EXPENSE. THE CONTRACTOR SHALL CONTRACT WITH, SCHEDULE AND SUPERVISE/ASSIST NATIONALTAB AS REQUIRED. REFER TO THE COVER SHEET, OR CONTACT SWEETGREEN’S CONSTRUCTION MANAGER FOR CONTACT INFORMATION.
N ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, OR SHEET METAL UNTIL THE FINAL START UP OF THE HEATING, COOLING, AND VENTILATION EQUIPMENT.
O REFER TO THE TRANE NATIONAL ACCOUNT INFORMATION BLOCKS FOR REPRESENTATIVE CONTACT INFORMATION.
P CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY UNIT CONFIGURATIONS, COORDINATE DELIVERY WITH TRANE, RECEIVE AND UNLOAD EQUIPMENT, INSPECT EQUIPMENT AND PROPERLY INSTALL EQUIPMENT INCLUDING FIELD-INSTALLED ITEMS. PROVIDE EQUIPMENT STARTUP AND 1ST YEAR LABOR WARRANTY AND ADMINISTRATION.
Q PROVIDE LABELING FOR ALL HVAC EQUIPMENT USING ENGRAVED PHENOLIC PLATES OR AS REQUIRED BY THE LANDLORD.
R PROVIDE FIRESTOPPING, FIRE DAMPERS, AND SLEEVES AND ALL OTHER ITEMS NECESSARY TO MAINTAIN THE FIRE RATING OF ALL RATED PARTITIONS WHERE DUCTWORK, PIPING, LINESET OR OTHER SYSTEMS PENETRATE RATED PARTITIONS.

sweetgreen

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CONSTRUCTION ISSUE SET

06/12/2023

PROJECT INFORMATION:
PRUNEYARD

PROJECT INFORMATION:
1875 SOUTH BASCOM AVENUE
SUITE #450 AND #470
CAMPBELL, CA 95008

DRAWN BY:	JAE
CHECKED BY:	JAE
PROJECT MANAGER:	JAE
SG DESIGN MANAGER:	KD
SG CONSTR. MANAGER:	JD
PROJECT NO:	220042
TEMPLATE VERSION: 05/20/2022	

REVISIONS

REV.	DATE	DESCRIPTION

MECHANICAL SPECIFICATIONS

M-010

6/6/2023 11:27:36 AM

HVAC GENERAL NOTES

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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 SHEET G-001 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 LANDLORD AND THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION. UTILIZE THE LANDLORD'S ROOFING CONTRACTOR AT THE GENERAL CONTRACTOR'S EXPENSE WHEN REQUIRED.

I UNLESS NOTED OTHERWISE RECTANGULAR DUCT ELBOWS SHALL BE MITERED ELBOWS WITH DOUBLE-THICKNESS TURNING VANES.

J REPLACE AIR FILTERS WITH NEW, CLEAN MERV8 FILTERS AT TURNOVER.

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L A FINAL REPORT FOR THE TESTING AND ADJUSTMENTS OF ALL NEW SYSTEMS FROM ALL DISCIPLINES SHALL BE COMPLETED WITH FINAL APPROVAL BY THE FIELD INSPECTOR. THIS REPORT SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.

M TESTING AND BALANCING OF THE MECHANICAL SYSTEMS TO BE COMPLETED BY NATIONALTAB AT THE GENERAL CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL CONTRACT WITH, SCHEDULE AND SUPERVISE/ASSIST NATIONALTAB AS REQUIRED. REFER TO THE COVER SHEET, OR CONTACT SWEETGREEN'S CONSTRUCTION MANAGER FOR CONTACT INFORMATION.

N ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, OR SHEET METAL UNTIL THE FINAL START UP OF THE HEATING, COOLING, AND VENTILATION EQUIPMENT.

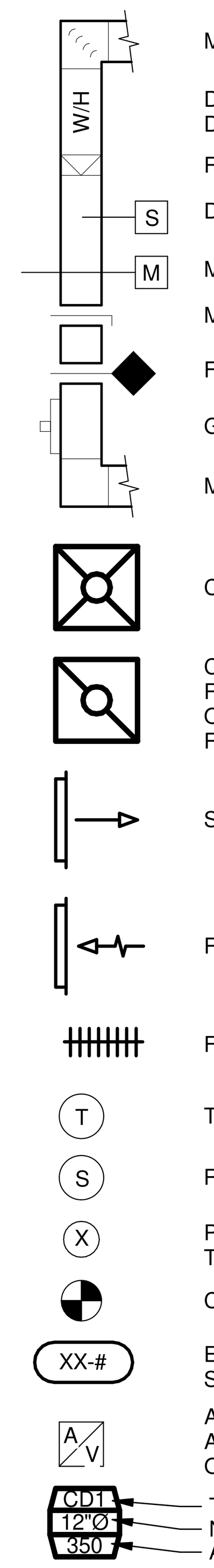
O REFER TO THE TRANE NATIONAL ACCOUNT INFORMATION BLOCKS FOR REPRESENTATIVE CONTACT INFORMATION.

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

Q PROVIDE LABELING FOR ALL HVAC EQUIPMENT USING ENGRAVED PHENOLIC PLATES OR AS REQUIRED BY THE LANDLORD.

R PROVIDE FIRESTOPPING, FIRE DAMPERS, AND SLEEVES AND ALL OTHER ITEMS NECESSARY TO MAINTAIN THE FIRE RATING OF ALL RATED PARTITIONS WHERE DUCTWORK, PIPING, LINESET OR OTHER SYSTEMS PENETRATE RATED PARTITIONS.

HVAC SYMBOLS



MITERED CORNER WITH TURNING VANES

DUCTWORK INTERNAL FREE DIMENSIONS (WIDTH/HEIGHT)

RECTANGULAR TO ROUND DUCT TRANSITION

DUCT-MOUNTED SMOKE DETECTOR

MOTOR-OPERATED DAMPER

MANUAL VOLUME DAMPER

FIRE DAMPER

GREASE DUCT CLEANOUT

MITERED CORNER WITHOUT TURNING VANES

CEILING DIFFUSER

CEILING-MOUNTED RETURN OR EXHAUST REGISTER

SUPPLY REGISTER

RETURN REGISTER

FLEXIBLE DUCT

THERMOSTAT

REMOTE TEMPERATURE SENSOR

PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING

CONNECT TO EXISTING

EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M-300 FOR EQUIPMENT INFORMATION

AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET

TAG
NECK SIZE
AIRFLOW [CFM]

HVAC ABBREVIATIONS

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

SECTION 23 34 33 - AIR CURTAINS

PART 1 - GENERAL
1. SECTION REQUIREMENTS
   A. SUBMITTALS: PROVIDE SHOP DRAWINGS INDICATING THE HEATING WATTAGE, ELECTRICAL CHARACTERISTICS, AIRFLOW CHARACTERISTICS, DIMENSIONS, WEIGHTS AND ACCESSORIES.
   B. WARRANTY: PROVIDE MANUFACTURER'S WARRANTY EFFECTIVE FOR FIVE YEARS FOR UNHEATED UNITS, AND TWO YEARS FOR HEATED UNITS. THE GENERAL CONTRACTOR SHALL PROVIDE A 12 MONTH WARRANTY ON ALL WORKMANSHIP.

PART 2 - PRODUCTS
1. MANUFACTURERS: AS NOTED IN THE MECHANICAL SCHEDULES.
2. CHARACTERISTICS. PROVIDED WITH:
   A. CABINET: ALUMINIZED STEEL CABINET WITH STAINLESS STEEL RIVETED CONSTRUCTION AND WHITE POWDER COATED FINISH.
   B. MOUNTING: PROVIDE WALL OR SUSPENDED MOUNTING AS REQUIRED.
   C. SERVICE ACCESS: REMOVABLE SCREEN AND REMOVABLE BOTTOM ACCESS PANEL.
   D. MOTORS: DIRECT DRIVE, RESILIENT MOUNTED, RATED FOR CONTINUOUS DUTY WITH INTERNAL THERMAL-OVERLOAD PROTECTION AND PERMANENTLY LUBRICATED SEALED BALL BEARINGS.
   E. FANS: BALANCED, FORWARD CURVED CROSS FLOW MADE OF ALUMINUM.
   F. DISCHARGE NOZZLES: PROVIDE UNIFORM VELOCITY ACROSS WIDTH OF AIR CURTAIN.
   G. INLET: PROVIDED WITH PERFORATED PATTERN SCREEN.
   H. HEATING ELEMENTS (WHEN NOTED ON PLANS): UL-APPROVED, FACTORY-MOUNTED, FACTORY WIRED, THERMALLY PROTECTED, IN GALVANIZED STEEL FRAME. HELICAL COIL DESIGN WITH THERMAL CUTOUT.
   I. PROVIDE ALL ACCESSORIES AS NOTED IN THE SCHEDULES.
3. CONTROLS:
   A. MANUAL SWITCH: FACTORY INSTALLED "FAN-OFF-FAN & HEAT" AND "HIGH-LOW" SWITCHES.
   B. CONTROL PACKAGE: AIR CURTAIN SHALL TURN ON WHEN DOOR IS OPENED AND SHUT OFF WHEN DOOR IS CLOSED.
   C. OUTDOOR AIR TEMPERATURE SENSOR (WHEN PROVIDED WITH A HEATING ELEMENT AND INDICATED ON PLANS).

PART 3 - EXECUTION
1. INSTALLATION
   A. INSTALL AIR CURTAIN WHERE INDICATED ON DRAWINGS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE CLEARANCE TO PERMIT SERVICING AND MAINTENANCE.
   B. INSTALL LEVEL, PLUMB AND AS CLOSE AS PRACTICAL TO TOP OF OPENING AND FACE OF WALL.
   C. INSTALL ALL ACCESSORIES.
2. CONNECTIONS
   A. CONNECT ELECTRICAL WIRING IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS.
   B. GROUND EQUIPMENT IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS.
3. FIELD QUALITY AND CONTROL
   A. TEST AND OPERATE AIR CURTAIN TO VERIFY PERFORMANCE AS INDICATED.
4. ADJUSTING
   A. ADJUST MOTOR AND FAN SPEED TO PERFORM AS INDICATED.
   B. ADJUST NOZZLES TO DEFLECT AIR OUTWARD UNLESS NOTED OTHERWISE.

(END OF SECTION 23 34 33)

SECTION 23 37 13 - GRILLES, REGISTERS & DIFFUSERS

PART 1 - GENERAL
1. SECTION REQUIREMENTS
   A. SUBMITTALS: NONE REQUIRED.

PART 2 - PRODUCTS
1. GRILLES: MANUFACTURER, MODEL, MATERIAL, FINISH, MOUNTING AND ACCESSORIES SHALL BE AS NOTED IN THE MECHANICAL SCHEDULES. NO SUBSTITUTIONS SHALL BE PERMITTED.
2. REGISTERS: MANUFACTURER, MODEL, MATERIAL, FINISH, MOUNTING AND ACCESSORIES SHALL BE AS NOTED IN THE MECHANICAL SCHEDULES. NO SUBSTITUTIONS SHALL BE PERMITTED.
3. DIFFUSERS: MANUFACTURER, MODEL, MATERIAL, FINISH, MOUNTING AND ACCESSORIES SHALL BE AS NOTED IN THE MECHANICAL SCHEDULES. NO SUBSTITUTIONS SHALL BE PERMITTED.

PART 3 - EXECUTION
1. INSTALLATION
   A. INSTALL GRILLES, REGISTERS & DIFFUSERS LEVEL AND PLUMB.
   B. INSTALL GRILLES, REGISTERS & DIFFUSERS AS INDICATED. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION.
   C. INSTALL GRILLES, REGISTERS & DIFFUSERS WITH AIRTIGHT CONNECTIONS TO DUCTS AND TO ALLOW SERVICE AND MAINTENANCE OF DAMPERS, EXTRACTORS AND OTHER ACCESSORIES.
   D. WHEN INDICATED ON THE PLANS, PAINT THE GRILLES, REGISTERS & DIFFUSERS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH AN ENAMEL PAINT, COLOR AS INDICATED.
   E. AFTER INSTALLATION, ADJUST REGISTERS & DIFFUSERS TO AIR PATTERNS (IF NOTED) OR AS DIRECTED BY THE TENANT'S CONSTRUCTION MANAGER PRIOR TO STARTING AIR BALANCING.

(END OF SECTION 23 37 13)

SECTION 23 81 29 - VARIABLE REFRIGERANT FLOW SYSTEMS

PART 1 - GENERAL
1. SECTION REQUIREMENTS
   A. SUBMITTALS: PROVIDE SHOP DRAWINGS INDICATING THE DIMENSIONS, WEIGHTS, REQUIRED CLEARANCES, COMPONENTS, EFFICIENCIES, CAPACITIES, ELECTRICAL CHARACTERISTICS AND LOCATION AND SIZE OF EACH FIELD CONNECTION FOR EACH INDOOR AND OUTDOOR UNIT.
   B. WARRANTY: SUBMIT A WRITTEN WARRANTY, SIGNED BY THE MANUFACTURER AGREEING TO REPAIR OR REPLACE COMPONENTS OF THE SYSTEM FOR A PERIOD OF ONE YEAR. COMPRESSORS SHALL HAVE A WARRANTY OF SEVEN YEARS.

PART 2 - PRODUCTS
1. DESCRIPTION
   A. A VARIABLE CAPACITY, HEAT PUMP HEAT RECOVERY AIR CONDITIONING SYSTEM CAPABLE OF SIMULTANEOUS HEATING AND COOLING.
   B. SYSTEM SHALL CONSISTS OF AN OUTDOOR UNIT, BRANCH CIRCUIT CONTROLLER, MULTIPLE INDOOR UNITS AND AN INTEGRAL DIRECT DIGITAL CONTROLS SYSTEM.
   C. EACH INDOOR UNIT, OR GROUP THEREOF SHALL BE ABLE TO OPERATE IN EITHER COOLING OR HEATING MODE INDEPENDENTLY OF OTHER UNITS/GROUPS AND SHALL BE CAPABLE OF CHANGING MODE WITH NO INTERRUPTION TO SYSTEM FUNCTION.
   D. ENERGY COMPLIANCE: COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE ENERGY CODE LISTED ON THE COVER SHEET.
   E. ELECTRICAL COMPONENTS, DEVICES AND ACCESSORIES SHALL BE LABELED AND LISTED AS DEFINED IN NFPA 70 BY A QUALIFIED TESTING AGENCY.
2. MANUFACTURERS: AS NOTED IN THE MECHANICAL SCHEDULES. ALTERNATES BY DAIKIN OR PANASONIC. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL STRUCTURAL, ELECTRICAL AND OTHER REQUIREMENTS RESULTING FROM THE SUBSTITUTION. ALL CHANGE ORDERS RESULTING IN THE USE OF AN ALTERNATE SHALL BE PAID FOR BY THIS CONTRACTOR.
3. OUTDOOR UNIT CHARACTERISTICS:
   A. AN AIR-COOLED, DIRECT EXPANSION MULTI-ZONE UNIT SPECIFICALLY FOR USE WITH VRF COMPONENTS.
   B. UNITS SHALL BE EQUIPPED WITH A SINGLE, INVERTER-DRIVEN SCROLL TYPE, HERMETIC, MULTI-PORT COMPRESSOR. THE CAPACITY OF THE COMPRESSOR SHALL BE VARIABLE, WITH A MINIMUM TURNDOWN NOT GREATER THAN 15%.
   C. UNIT SHALL BE FACTORY ASSEMBLED, PIPED AND WIRED AND RUN TESTED AT THE FACTORY.
   D. OUTDOOR UNITS MAY BE COMPRISED OF MULTIPLE MODULES, CONNECTED VIA A TWINNING KIT INSTALLED IN THE FIELD.
   E. ALL LINESETS TO THE INDOOR UNITS SHALL BE INSULATED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
   F. THE OUTDOOR UNIT SHALL HAVE AN ACCUMULATOR WITH REFRIGERANT LEVEL SENSORS AND CONTROLS. UNITS SHALL ACTIVELY CONTROL LIQUID LEVEL VIA LINEAR EXPANSION VALVES.
   G. THE OUTDOOR UNIT SHALL HAVE A HIGH-EFFICIENCY OIL SEPARATOR.
   H. UNIT SHALL DEFROST ALL CIRCUITS SIMULTANEOUSLY DURING LOW-AMBIENT TEMPERATURES (BELOW 23 DEGREES F.). WHILE IN HOT GAS DEFROST, THE SYSTEM SHALL SLOW THE INDOOR UNIT FAN SPEED TO MAINTAIN A HIGH DISCHARGE AIR TEMPERATURE.
   I. THE OUTDOOR UNIT SHALL BE FURNISHED WITH A 20 GAUGE HOT DIPPED GALVANIZED SNOW/HAIL GUARD.
   J. THE OUTDOOR UNIT SHALL BE FURNISHED WITH A FOUR-LEGGED OUTDOOR MOUNTING SYSTEM FROM THE MANUFACTURER.
   K. UNIT CASING SHALL BE GALVANIZED STEEL, BONDERIZED AND FINISHED.
   L. OUTDOOR UNIT FAN SHALL BE DIRECT DRIVE WITH A VARIABLE SPEED PROPELLER. FAN SHALL HAVE INHERENT PROTECTION WITH PERMANENTLY LUBRICATED BEARINGS. FANS SHALL BE PROVIDED WITH A RAISED GUARD TO PREVENT CONTACT WITH MOVING PARTS.
   M. OUTDOOR COIL SHALL BE A 4-SIDED COIL, ELEVATED AT LEAST 12" FROM THE BASE OF THE UNIT. COIL SHALL BE CORRUGATED PLATE FINS ON COPPER TUBING WITH FACTORY-APPLIED CORROSION RESISTANT FINISH. UNCOATED ALUMINUM COIL/FINS ARE NOT ALLOWED.
   N. UNIT SHALL HAVE PREWIRED PLUGS FOR OPTIONAL PANEL HEATERS.
   O. UNIT POWER SHALL BE AS NOTED IN THE EQUIPMENT SCHEDULES.
   P. CONTROL CIRCUITING BETWEEN THE INDOOR UNITS, BRANCH CIRCUIT CONTROLLER AND THE OUTDOOR UNIT SHALL BE 24V DC COMPLETED USING 2-CONDUCTOR, TWISTED PAIR SHIELDED CABLE.
4. REFRIGERANT AND REFRIGERANT PIPING
   A. R410A REFRIGERANT SHALL BE REQUIRED FOR SYSTEMS.
   B. POLYOLESTER (POE) OIL SHALL BE REQUIRED FOR SYSTEMS.
   C. REFRIGERANT PIPING SHALL BE PHOSPHORUS DEOXIDIZED COPPER WITH A THICKNESS AS DEFINED BY THE MANUFACTURER'S RECOMMENDATIONS.
   D. ALL PIPING SHALL BE INSULATED WITH 1/2" CLOSED-CELL INSULATION WITH A FLAME-SPREAD INDEX OF LESS THAN 25, AND A SMOKE-DEVELOPMENT INDEX OF LESS THAN 50. R-VALUE SHALL BE 3.0 OR GREATER.
   E. ALL REFRIGERANT PIPING CONNECTIONS SHALL BE BRAZED.
5. BRANCH CIRCUIT (BC) CONTROLLERS
   A. BC CONTROLLERS SHALL INCLUDE MULTIPLE BRANCHES TO ALLOW SIMULTANEOUS HEATING AND COOLING.
   B. BC CONTROLLERS SHALL BE EQUIPPED WITH A CIRCUIT BOARD THAT INTERFACES TO THE CONTROLS SYSTEM AND SHALL PERFORM ALL FUNCTIONS NECESSARY FOR OPERATION.
   C. THE UNIT CASING SHALL BE FABRICATED OF GALVANIZED STEEL.
   D. EACH CABINET SHALL HOUSE A LIQUID-GAS SEPARATOR AND MULTIPLE REFRIGERATION CONTROL VALVES AND TWO TUBE-IN-TUBE HEAT EXCHANGERS.
   E. REFRIGERANT SERVICE SHUT OFF VALVES SHALL BE FIELD-PROVIDED FOR EACH BRANCH TO ALLOW SERVICE TO INDOOR UNITS WITHOUT OPERATION TO OVERALL SYSTEM.
   F. BC CONTROLLERS SHALL HAVE INTEGRAL RESIN DRAIN PAN.
   G. UNIT POWER SHALL BE AS NOTED IN THE EQUIPMENT SCHEDULES.
   H. CONTROL CIRCUITING BETWEEN THE INDOOR UNITS, BRANCH CIRCUIT CONTROLLER AND THE OUTDOOR UNIT SHALL BE 24V DC COMPLETED USING 2-CONDUCTOR, TWISTED PAIR SHIELDED CABLE.
6. FOUR-WAY CEILING-RECESSED CASSETTE UNITS WITH GRILLE.
   A. 4-WAY CEILING-RECESSED CASSETTES WITH GRILL FOR 2'X2' GRID SHALL BE FACTORY ASSEMBLED, WIRED AND RUN TESTED, CONTAINED WITH FACTORY WIRING, PIPING, ELECTRONIC MODULATING LINEAR EXPANSION DEVICE, CONTROL BOARD AND FAN MOTOR.
   B. UNIT CABINET SHALL BE CONSTRUCTED TO FIT IN A STANDARD 24" SQUARE CEILING GRID WITH PROVISIONS FOR A FIELD-INSTALLED OUTSIDE AIR INTAKE AND FOUR-WAY GRILLE WITH SELECTABLE TWO, THREE OR FOUR-WAY BLOW.
   C. INDOOR FAN SHALL BE DIRECT DRIVEN, BALANCED AND WITH PERMANENTLY LUBRICATED BEARINGS AND FOUR SPEED SETTINGS.
   D. UNIT SHALL BE FURNISHED WITH A WASHABLE RETURN AIR FILTER.
   E. COIL SHALL BE CONSTRUCTED OF SMOOTH PLATE FINS ON COPPER TUBING WITH INNER GROOVES.
   F. UNIT POWER SHALL BE AS NOTED IN THE EQUIPMENT SCHEDULES.
   G. CONTROL CIRCUITING BETWEEN THE INDOOR UNITS, BRANCH CIRCUIT CONTROLLER AND THE OUTDOOR UNIT SHALL BE 24V DC COMPLETED USING 2-CONDUCTOR, TWISTED PAIR SHIELDED CABLE.
7. HIGH-STATIC, CEILING-CONCEALED, DUCTED INDOOR UNITS
   A. FACTORY-ASSEMBLED, WIRED AND RUN TESTED, CONTAINING FACTORY WIRING, PIPING, ELECTRONIC MODULATING LINEAR EXPANSION DEVICE, CONTROL CIRCUIT BOARD AND MOTOR.
   B. UNIT CABINET SHALL BE CEILING-CONCEALED, DUCTED WITH A FIXED REAR RETURN.
   C. FAN SHALL BE DYNAMICALLY BALANCED, DIRECT DRIVEN BY A SINGLE MOTOR WITH PERMANENTLY LUBRICATED BEARINGS.
   D. FILTER BOX SHALL BE FURNISHED WITH ALL UNITS.
   E. COIL SHALL BE CONSTRUCTED OF SMOOTH PLATE FINS ON COPPER TUBING WITH INNER GROOVES.
   F. UNIT POWER SHALL BE AS NOTED IN THE EQUIPMENT SCHEDULES.
   G. CONTROL CIRCUITING BETWEEN THE INDOOR UNITS, BRANCH CIRCUIT CONTROLLER AND THE OUTDOOR UNIT SHALL BE 24V DC COMPLETED USING 2-CONDUCTOR, TWISTED PAIR SHIELDED CABLE.

PART 3 - EXECUTION
1. INSTALLATION
   A. OUTDOOR UNITS: INSTALL OUTDOOR UNITS ON MANUFACTURER'S FURNISHED STANDS.
   B. INDOOR UNITS: INSTALL UNITS LEVEL FROM STRUCTURE, ON NEOPRENE TYPE VIBRATION ISOLATORS AS NOTED ON THE STRUCTURAL DRAWINGS.
2. CONNECTIONS
   A. COMPLY WITH DUCT INSTALLATION REQUIREMENTS SPECIFIED IN OTHER HVAC SECTIONS. DRAWINGS INDICATE GENERAL ARRANGEMENTS OF DUCTS.
   B. CONNECT SUPPLY AND RETURN AIR DUCTS WITH FLEXIBLE DUCT CONNECTORS AS NOTED IN SECTION 23 33 00.
   C. INSTALL CONDENSATE DRAIN WITH TRAP AND INDIRECT CONNECTION AS NOTED ON THE PLANS AND PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
   D. CONNECT REFRIGERANT PIPING PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
   E. INSTALL PIPING AND DUCTWORK ADJACENT TO EQUIPMENT TO ALLOW SPACE FOR SERVICE AND MAINTENANCE .
   F. CONNECT CONTROLS WIRING TO THE THERMOSTAT, TEMPERATURE SENSOR AND UNIT AS DESCRIBED IN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
   G. CONNECT ELECTRICAL WIRING IN ACCORDANCE WITH THE ELECTRICAL SPECIFICATIONS.
3. FIELD QUALITY CONTROL
   A. AFTER INSTALLING ALL EQUIPMENT, TEST UNITS FOR COMPLIANCE WITH REQUIREMENTS.
   B. INSPECT AND REMOVE SHIPPING BOLTS, BLOCKS AND TIE-DOWN STRAPS.
   C. CONFIRM PROPER MOTOR ROTATION AND UNIT OPERATIONS.
   D. TEST AND ADJUST CONTROLS AND SAFETIES. REPLACE DAMAGED AND MALFUNCTIONING CONTROLS AND EQUIPMENT.
   E. OPERATIONAL TEST: AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, START UNITS TO CONFIRM PROPER MOTOR ROTATION AND UNIT OPERATION.
   F. CLEAN FILTER HOUSINGS AND CHANGE FILTERS PRIOR TO AIR BALANCE AND IMMEDIATELY PRIOR TO TURNOVER.

(END OF SECTION 23 81 29)

sg

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CONSTRUCTION ISSUE SET

06/12/2023

PROJECT INFORMATION:
PRUNEYARD

PROJECT INFORMATION:
1875 SOUTH BASCOM AVENUE
SUITE #450 AND #470
CAMPBELL, CA 95008

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CHECKED BY:	JAE
PROJECT MANAGER:	JAE
SG DESIGN MANAGER:	KD
SG CONSTR. MANAGER:	JD
PROJECT NO:	220042
TEMPLATE VERSION: 05/20/2022	

REVISIONS

REV.	DATE	DESCRIPTION

MECHANICAL SPECIFICATIONS

M-011

6/6/2023 11:27:37 AM

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

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: sweetgreen - Pruneyard	Report Page:	Page 2 of 13
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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(k) or §141.0(b)2 for alterations.

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)

01	02	03	04	05	06	07	08	09	10	11
				Equipment Sizing per Mechanical Schedule (kBtu/h) §140.4 (a&b)						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
Name or Item Tag	Equipment Category per Tables 110.2	Equipment Type per Tables 110.2 & Title 20	Smallest Size Available[1] §140.4(a)	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
AHU-1	Variable Refrigerant Flow	VRF heat pump, air cooled	Yes	59,100	54,000	0	33,500	35,800	7,550	25,900
AHU-2	Variable Refrigerant Flow	VRF heat pump, air cooled	Yes	59,100	54,000	0	33,500	35,800	7,550	25,900
AHU-3	Variable Refrigerant Flow	VRF heat pump, air cooled	Yes	59,100	54,000	0	33,500	35,800	24,800	30,500
AHU-4	Variable Refrigerant Flow	VRF air conditioners, air cooled	Yes	44,300	40,000	0	25,100	28,800	13,600	17,500

Table Continued

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
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01	02	03	04	05	06	07	08
						Fan Power Pressure Drop Adjustment - Table 140.4-B	
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Device	Design Airflow through Device (CFM)
AHU-1-AHU-3	Supply	3	1,380	Nameplate HP	0.333		
						Calculated Adjustment (in H_2O)	

Total System Design Supply Airflow (CFM):	4,140	Total System Design (B)HP:	1	**Maximum System Fan Power (B)HP:**	
System Name: AHU-4	**Economizer:[1]** NA: ≤ 54 kBtu/h cooling	**Economizer Controls:**		**System Fan Type:**	Constant Volume

01	02	03	04	05	06	07	08
						Fan Power Pressure Drop Adjustment - Table 140.4-B	
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Device	Design Airflow through Device (CFM)
AHU-4	Supply	1	900	Nameplate HP	0.333		
						Calculated Adjustment (in H_2O)	

Total System Design Supply Airflow (CFM):	900	Total System Design (B)HP:	0.33	**Maximum System Fan Power (B)HP:**	
System Name: EF-1	**Economizer:[1]** NA: System operates @ 100% OSA	**Economizer Controls:**		**System Fan Type:**	Constant Volume

01	02	03	04	05	06	07	08
						Fan Power Pressure Drop Adjustment - Table 140.4-B	
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Device	Design Airflow through Device (CFM)
EF-1	Exhaust	1	750	Nameplate HP	0.5		
						Calculated Adjustment (in H_2O)	

Table Continued

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

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
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This document is used to demonstrate compliance for 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.

A. GENERAL INFORMATION

01	Project Location (city)	Campbell	04	Total Conditioned Floor Area	2,522
02	Climate Zone	4	05	Total Unconditioned Floor Area	
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	

☐ Office (B)	☐ Retail (M)	☐ Non-refrigerated Warehouse (S)
☐ Hotel/ Motel Guest Rooms (R-1)	☐ School (E)	☐ Healthcare Facility (I)
☐ High-Rise Residential (R-2/R-3)	☐ Relocatable Class Bldg (E)	☑ Other (Write In): Restaurant

[1] *FOOTNOTES: Climate zone can be determined on the California Energy Commission's website at http://www.energy.ca.gov/maps/renewable/building_climate_zones.html*

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	02	03
Air System(s)	Wet System Components	Dry System Components
☑ Heating Air System	☐ Water Economizer	☐ Air Economizer
☑ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ Hydronic System Piping	☑ Fan Systems
☑ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☑ Ductwork (existing to remain, altered or new)
	☐ Chillers	☑ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

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
System Summary §110.1, §110.2, §140.4	AND	Pumps §140.4(k)	AND	Fans/ Economizers §140.4(c), §140.4(e)	AND	System Controls §110.2, §120.2, §140.4(f)	AND	Ventilation §120.1	AND	Terminal Box Controls §140.4(d)	AND	Distribution §120.3, §140.4(l)	AND	Cooling Towers §110.2(e)2	**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		AND	Yes	AND		**COMPLIES**
Mandatory Measures Compliance (See Table Q for Details)															**COMPLIES**

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

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Table Continued

[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 excepted.*
[2] *It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*
[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*
[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).*

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01	02	03	04	05	06	07	08	09
		Heating Mode				Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Min Efficiency Required per Tables 110.2/ Title 20	Design Efficiency	Efficiency Unit	Min Efficiency Required per Tables 110.2/ Title 20	Design Efficiency
AHU-1	≥135,000 and <240,000	47°Fdb/43°Fwb OSA	COP	3.2	3.8	EER	10.6	11.6
						IEER	13.9	21.6
AHU-2	≥135,000 and <240,000	47°Fdb/43°Fwb OSA	COP	3.2	3.8	EER	10.6	11.6
						IEER	13.9	21.6
AHU-3	≥135,000 and <240,000	47°Fdb/43°Fwb OSA	COP	3.2	3.8	EER	10.6	11.6
						IEER	13.9	21.6
AHU-4	<65,000				9	SEER	13	16

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:	AHU-1 thru AHU-3	**Economizer:[1]**	NA: ≤ 54 kBtu/h cooling	**Economizer Controls:**		**System Fan Type:**	Constant Volume

Table Continued

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06/12/2023

PROJECT INFORMATION:
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PROJECT INFORMATION:
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PROJECT MANAGER: JAE
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SG CONSTR. MANAGER: JD
PROJECT NO: 220042
TEMPLATE VERSION: 05/20/2022

REVISIONS
REV. DATE DESCRIPTION

ENERGY COMPLIANCE FORMS

M-020

6/6/2023 11:27:38 AM

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

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
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SF-2	Supply	1	200	Nameplate HP	0.5	Calculated Adjustment (in H_2O)	

Total System Design Supply Airflow (CFM):	200	Total System Design (B)HP:	0.5	**Maximum System Fan Power (B)HP:**	

[1] FOOTNOTE: Computer room economizers must meet requirements of §140.9[a] and will be documented on the NRCC-PRC-E document.
[2] The unit used for HP must be consistent for all fans within a system.

I. SYSTEM CONTROLS

Table Instructions: Complete the following Table to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4[f] and [n] or requirements in §141.0[b]2E for altered space conditioning systems.

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft^2)	Thermostats §110.2(b) & (c)[1], §120.2(a) or §141.0(b)2E	Shut-Off Controls §120.2(e)	Isolation Zone Controls §120.2(g)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §140.4(f)	Window Interlocks per §140.4(n)
AHU-1	single zone	≤ 25,000 ft^2	Setback Thermostat	Auto Timeswitch	NA: Single Zone	EMCS	NA: Single Zone	NA: No operable windows
AHU-2	single zone	≤ 25,000 ft^2	Setback Thermostat	Auto Timeswitch	NA: Single Zone	EMCS	NA: Single Zone	NA: No operable windows
AHU-3	single zone	≤ 25,000 ft^2	Setback Thermostat	Auto Timeswitch	NA: Single Zone	EMCS	NA: Single Zone	NA: No operable windows
AHU-4	single zone	≤ 25,000 ft^2	Setback Thermostat	Auto Timeswitch	NA: Single Zone	EMCS	NA: Single Zone	NA: No operable windows

[1] FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.
*[2] NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.*
EX: System 1: SA Temp Reset: Exempt because zones compliant with §140.4(d); EXCEPTION 1 to §140.4(f)

STATE OF CALIFORNIA
Mechanical Systems
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Table Continued

Total System Design Supply Airflow (CFM):	750	Total System Design (B)HP:	0.5	**Maximum System Fan Power (B)HP:**	
System Name:	EF-2	**Economizer:[1]**	NA: System operates @ 100% OSA	**Economizer Controls:**	**System Fan Type:** Constant Volume

01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
EF-2	Exhaust	1	250	Nameplate HP	0.5		
						Calculated Adjustment (in H_2O)	

Total System Design Supply Airflow (CFM):	250	Total System Design (B)HP:	0.5	**Maximum System Fan Power (B)HP:**	
System Name:	SF-1	**Economizer:[1]**	NA: System operates @ 100% OSA	**Economizer Controls:**	**System Fan Type:** Constant Volume

01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)
SF-1	Supply	1	820	Nameplate HP	0.5		
						Calculated Adjustment (in H_2O)	

Total System Design Supply Airflow (CFM):	820	Total System Design (B)HP:	0.5	**Maximum System Fan Power (B)HP:**	
System Name:	SF-2	**Economizer:[1]**	NA: System operates @ 100% OSA	**Economizer Controls:**	**System Fan Type:** Constant Volume

01	02	03	04	05	06	07	08
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit[2]	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B	
						Device	Design Airflow through Device (CFM)

Table Continued

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

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
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Project Address: 1875 South Bascom Ave., Suite 450 and 470	Date Prepared:	09/30/2022

Table Continued

		☐	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)1B 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/NRCI/

YES	NO	Form/Title	Systems To Be Field Verified	Field Inspector	
				Pass	Fail
◉		NRCI-MCH-01-E - Must be submitted for all buildings.		☐	☐

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

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
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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]3B 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 airflows 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.

[1] FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system.
[2] Air filtration requirements apply to the following three system types per §120.1(c)1A: space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.
[3] Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.
[4] See Standards Tables 120.1-A and 120.1-B
[5] For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.
[6] §120.2[e]3 requires systems serving rooms that are required by §130.1[c] to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft^2 or smaller, multipurpose rooms less than 1,000ft^2, classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1[c].

K. TERMINAL BOX CONTROLS

This Section Does Not Apply

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[l] for duct leakage testing.

Duct Leakage Sealing

The answers to the questions below apply to the following duct system(s):			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 ft^2 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:		

Table Continued

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06/12/2023

PROJECT INFORMATION:
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PROJECT INFORMATION:
1875 SOUTH BASCOM AVENUE SUITE #450 AND #470 CAMPBELL, CA 95008

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PROJECT MANAGER:	JAE
SG DESIGN MANAGER:	KD
SG CONSTR. MANAGER:	JD
PROJECT NO:	220042

TEMPLATE VERSION: 05/20/2022

REVISIONS
REV. DATE DESCRIPTION

ENERGY COMPLIANCE FORMS

M-021

6/6/2023 11:27:39 AM

○	◉	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units		☐	☐
○	◉	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance		☐	☐
○	◉	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 Harvester, Brine, Ice-Slurry, Eutectic Salt, Clathrate Hydrate Slurry (CH5), Cryogenic or Encapulated (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		☐	☐

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/NRCA/

YES	NO	Form/Title	Systems To Be Field Verified	Field Inspector Pass	Field Inspector Fail
◉	○	NRCA-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.*		☐	☐
○	◉	NRCA-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".*		☐	☐
○	◉	NRCA-MCH-04-A Air Distribution Duct Leakage		☐	☐
○	◉	NRCA-MCH-05-A Air Economizer Controls		☐	☐
○	◉	NRCA-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.		☐	☐
○	◉	NRCA-MCH-07-A Supply Fan Variable Flow Controls		☐	☐
○	◉	NRCA-MCH-08-A Valve Leakage Test		☐	☐
○	◉	NRCA-MCH-09-A Supply Water Temperature Reset Controls		☐	☐
○	◉	NRCA-MCH-10-A Hydronic System Variable Flow Controls		☐	☐
○	◉	NRCA-MCH-11-A Automatic Demand Shed Controls		☐	☐

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: No	

03	04
Mandatory Measure	Plan sheet or construction document location
Heating Equipment Efficiency per §110.1	M-300
Cooling Equipment Efficiency per §110.1	M-300
Furnace Standby Loss Control per §110.2(d)	N/A
Duct Insulation per §120.4	M-010
Heating Hot Water Equipment Efficiency per §110.1	N/A
Cooling Chilled and Condenser Water Equipment Efficiency per §110.1	N/A
Open and Closed Circuit Cooling Towers conductivity of flow-based controls per §110.2(e)1	N/A
Open and Closed Circuit Cooling Towers Flow Meter with analog output per §110.2(e)3	N/A
Open and Closed Circuit Cooling Towers Overflow Alarm per §110.2(e)4	N/A
Open and Closed Circuit Cooling Towers Efficient Drift Eliminators per §110.2(e)5	N/A
Pipe Insulation per §120.3(b)	N/A
Combustion air shutoff, combustion air fan controls and stack design and controls for boilers per §120.9	N/A
Heat Pump with Supplementary Electric Resistance Heater Controls per §110.2(b)	N/A
The air duct and plenum system is designed per §120.4(a)-(f)	M-010
Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of ASHRAE 62.2	N/A

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/NRCV/

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
○	◉	NRCV-MCH-04-H Duct Leakage Test *NOTE: Must be completed by a HERS Rater*	☐	☐
○	◉	NRCV-MCH-24 Enclosure Air Leakage Worksheet *NOTE: Must be completed by a HERS Rater*	☐	☐
○	◉	NRCV-MCH-27 High-rise Residential *NOTE: Must be completed by a HERS Rater*	☐	☐
○	◉	NRCV-MCH-32 Local Mechanical Exhaust *NOTE: Must be completed by a HERS Rater*	☐	☐

sg

sweetgreen

3101 W. EXPOSITION BLVD.
LOS ANGELES, CALIFORNIA 90018

ENGINEER OF RECORD:

EVERJ ENGINEERING, INC.
1509 BUCK TRAIL LANE
WORTHINGTON, OH 43085
614-349-8054
www.everjengineering.com

STAMP:

CONSTRUCTION ISSUE SET

06/12/2023

PROJECT INFORMATION:
PRUNEYARD

PROJECT INFORMATION:
1875 SOUTH BASCOM AVENUE SUITE #450 AND #470 CAMPBELL, CA 95008

DRAWN BY:	JAE
CHECKED BY:	JAE
PROJECT MANAGER:	JAE
SG DESIGN MANAGER:	KD
SG CONSTR. MANAGER:	JD
PROJECT NO:	220042

TEMPLATE VERSION: 05/20/2022

REVISIONS
REV. DATE DESCRIPTION

ENERGY COMPLIANCE FORMS

M-022

6/6/2023 11:27:40 AM

STATE OF CALIFORNIA
Process Systems
NRCC-PRC-E (Created 01/21) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PRC-E

Table Instructions: Include any process systems that are within the scope of the permit application and are demonstrating compliance with mandatory requirements in §120.6, or prescriptive requirements in §140.9. This compliance document is used for newly constructed, addition and alteration projects.

Project Name: sweetgreen - Pruneyard	Report Page: Page 1 of 6
Project Address: 1875 South Bascom Ave., Suite 450 and 470	Date Prepared: 09/30/2022

A. GENERAL INFORMATION

01	Project Location (city)	Campbell	04	Total Conditioned Floor Area	2,522
02	Climate Zone	4	05	Total Unconditioned Floor Area	
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	

☐ Office	☐ Retail	☐ Non-refrigerated Warehouse	
☐ Hotel/ Motel	☐ School	☐ Healthcare Facility	
☐ High-Rise Residential	☐ Relocatable Class Bldg	☑ Other (Write In):	Restaurant

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
☐ Refrigerated Spaces <3,000 ft² Total (no Title 24, Pt 6 requirements)	☐ Elevator Lighting & Ventilation Controls (mandatory §120.6(f))
☐ Refrigerated Spaces ≥3,000 ft² Total (mandatory §120.6(a))	☐ Escalator & Moving Walkway Speed Controls (mandatory §120.6(g))
☐ Food Stores > 8,000 ft² cfa (mandatory §120.6(b))	☐ Computer Rooms > 20W/ft² Power Density (prescriptive §140.9(a))[1]
☐ Enclosed Parking Garage Exhaust ≥ 10,000 cfm (mandatory §120.6(c))	☑ Commercial Kitchen Ventilation/Exhaust (prescriptive §140.9(b))[1]
☐ Newly Installed Process Boilers (mandatory §120.6(d))	☐ Laboratory Exhaust/Factory Exhaust & Fume Hood (prescriptive §140.9(c))[1]
☐ Compressed Air Systems Combined HP > 25 (mandatory §120.6(e))	

[1] *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 §120.6(b)	Parking Garage Exhaust §120.6(c)	Process Boilers §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**

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

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: sweetgreen - Pruneyard	Report Page: Page 13 of 13
Project Address: 1875 South Bascom Ave., Suite 450 and 470	Date Prepared: 09/30/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Joshua Everett, P.E.	Documentation Author Signature:	
Company:	Everj Engineering, Inc.	Signature Date:	10/12/2022
Address:	1509 Buck trail Lane	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Worthington/OH/43085	Phone:	240-319-0822

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:	Joshua Everett, P.E.	Responsible Designer Signature:	
Company :	Everj Engineering, Inc.	Date Signed:	10/12/2022
Address:	1509 Buck trail Lane	License:	40567
City/State/Zip:	Worthington/OH/43085	Phone:	240-319-0822

STATE OF CALIFORNIA
Process Systems
NRCC-PRC-E (Created 01/21) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PRC-E

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Project Name: sweetgreen - Pruneyard	Report Page: Page 3 of 6
Project Address: 1875 South Bascom Ave., Suite 450 and 470	Date Prepared: 09/30/2022

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	☐	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 Not providing replacement air directly to the hood(s)

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 hood exhaust flow minus the available transfer air from adjacent spaces.

04	Location that is supplying transfer air:	Kitchen / Dining

05 The kitchen /dining facility has a total Type I and Type II kitchen hood exhaust airflow rate > 5000 cfm and is dign 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	Kitchen Name or Tag	Hot Prep	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.		
02	03	04	05	06	07	08
Name or Item Tag	Hood Type[1]	Hood Style	Hood Length (ft)	Equipment Duty	Design Hood Exhaust Rate (CFM)	Max Hood Exhaust Rate Allowed (CFM)
HD-2	Type II				750	

Table Continued

STATE OF CALIFORNIA
Process Systems
NRCC-PRC-E (Created 01/21) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PRC-E

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Project Name: sweetgreen - Pruneyard	Report Page: Page 2 of 6
Project Address: 1875 South Bascom Ave., Suite 450 and 470	Date Prepared: 09/30/2022

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. 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

sg

sweetgreen

3101 W. EXPOSITION BLVD.
LOS ANGELES, CALIFORNIA 90018

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WORTHINGTON, OH 43085
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06/12/2023

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PROJECT INFORMATION:
1875 SOUTH BASCOM AVENUE
SUITE #450 AND #470
CAMPBELL, CA 95008

DRAWN BY:	JAE
CHECKED BY:	JAE
PROJECT MANAGER:	JAE
SG DESIGN MANAGER:	KD
SG CONSTR. MANAGER:	JD
PROJECT NO:	220042

TEMPLATE VERSION: 05/20/2022

REVISIONS

REV.	DATE	DESCRIPTION

ENERGY COMPLIANCE FORMS

M-023

6/6/2023 11:27:41 AM

STATE OF CALIFORNIA
Process Systems
NRCC-PRC-E (Created 01/21) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PRC-E
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Project Name: sweetgreen - Pruneyard	Report Page: Page 5 of 6
Project Address: 1875 South Bascom Ave., Suite 450 and 470	Date Prepared: 09/30/2022

○	◉	NRCA-PRC-13-F Escalators & Moving Walkways Speed Controls	☐	☐
○	◉	NRCA-PRC-14-F Lab Exhaust Ventilation Systems	☐	☐
○	◉	NRCA-PRC-15-F Fume Hood Automatic Sash Closure Systems	☐	☐

STATE OF CALIFORNIA
Process Systems
NRCC-PRC-E (Created 01/21) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PRC-E
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Project Name: sweetgreen - Pruneyard	Report Page: Page 4 of 6
Project Address: 1875 South Bascom Ave., Suite 450 and 470	Date Prepared: 09/30/2022

Table Continued

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

O. LABORATORY AND FACTORY EXHAUST AND FUME HOODS

This Section Does Not Apply

P. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
◉	○	NRCI-PRC-01-E Covered Process	☐	☐

Q. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
○	◉	NRCA-PRC-01-F Compressed Air Systems	☐	☐
◉	○	NRCA-PRC-02-F Kitchen Exhaust	☐	☐
○	◉	NRCA-PRC-03-F Garage Exhaust	☐	☐
○	◉	NRCA-PRC-04-F Refrigerated Warehouses - Evaporator Fan Motor Controls	☐	☐
○	◉	NRCA-PRC-05-F Refrigerated Warehouses - Evaporative Condenser Controls	☐	☐
○	◉	NRCA-PRC-06-Refrigerated Warehouses - Air Cooled Condenser Controls	☐	☐
○	◉	NRCA-PRC-16-Refrigerated Warehouses - Adiabatic Condenser Controls	☐	☐
○	◉	NRCA-PRC-07 Refrigerated Warehouses - Variable Speed Compressor	☐	☐
○	◉	NRCA-PRC-08-F Refrigerated Warehouses - Electric Resistance Underslab Heating System	☐	☐
○	◉	NRCA-PRC-12-F Elevator Lighting & Ventilation Controls	☐	☐

STATE OF CALIFORNIA
Process Systems
NRCC-PRC-E (Created 01/21) CALIFORNIA ENERGY COMMISSION

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Project Name: sweetgreen - Pruneyard	Report Page: Page 6 of 6
Project Address: 1875 South Bascom Ave., Suite 450 and 470	Date Prepared: 09/30/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Joshua Everett, P.E.	Documentation Author Signature:	
Company:	Everj Engineering, Inc.	Signature Date:	10/12/2022
Address:	1509 Buck Trail Lane	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Worthington/OH/43085	Phone:	240-319-0822

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)**
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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:	Joshua Everett, P.E.	Responsible Designer Signature:	
Company :	Everj Engineering, Inc.	Date Signed:	10/12/2022
Address:	1509 Buck Trail Lane	License:	40567
City/State/Zip:	Worthington/OH/43085	Phone:	240-319-0822

Add Responsible Person | Remove Last

sg

sweetgreen
3101 W. EXPOSITION BLVD.
LOS ANGELES, CALIFORNIA 90018

ENGINEER OF RECORD:
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WORTHINGTON, OH 43085
614-349-8054
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STAMP:

CONSTRUCTION ISSUE SET

06/12/2023

PROJECT INFORMATION:
PRUNEYARD

PROJECT INFORMATION:
1875 SOUTH BASCOM AVENUE SUITE #450 AND #470 CAMPBELL, CA 95008

DRAWN BY:	JAE
CHECKED BY:	JAE
PROJECT MANAGER:	JAE
SG DESIGN MANAGER:	KD
SG CONSTR. MANAGER:	JD
PROJECT NO:	220042

TEMPLATE VERSION: 05/20/2022

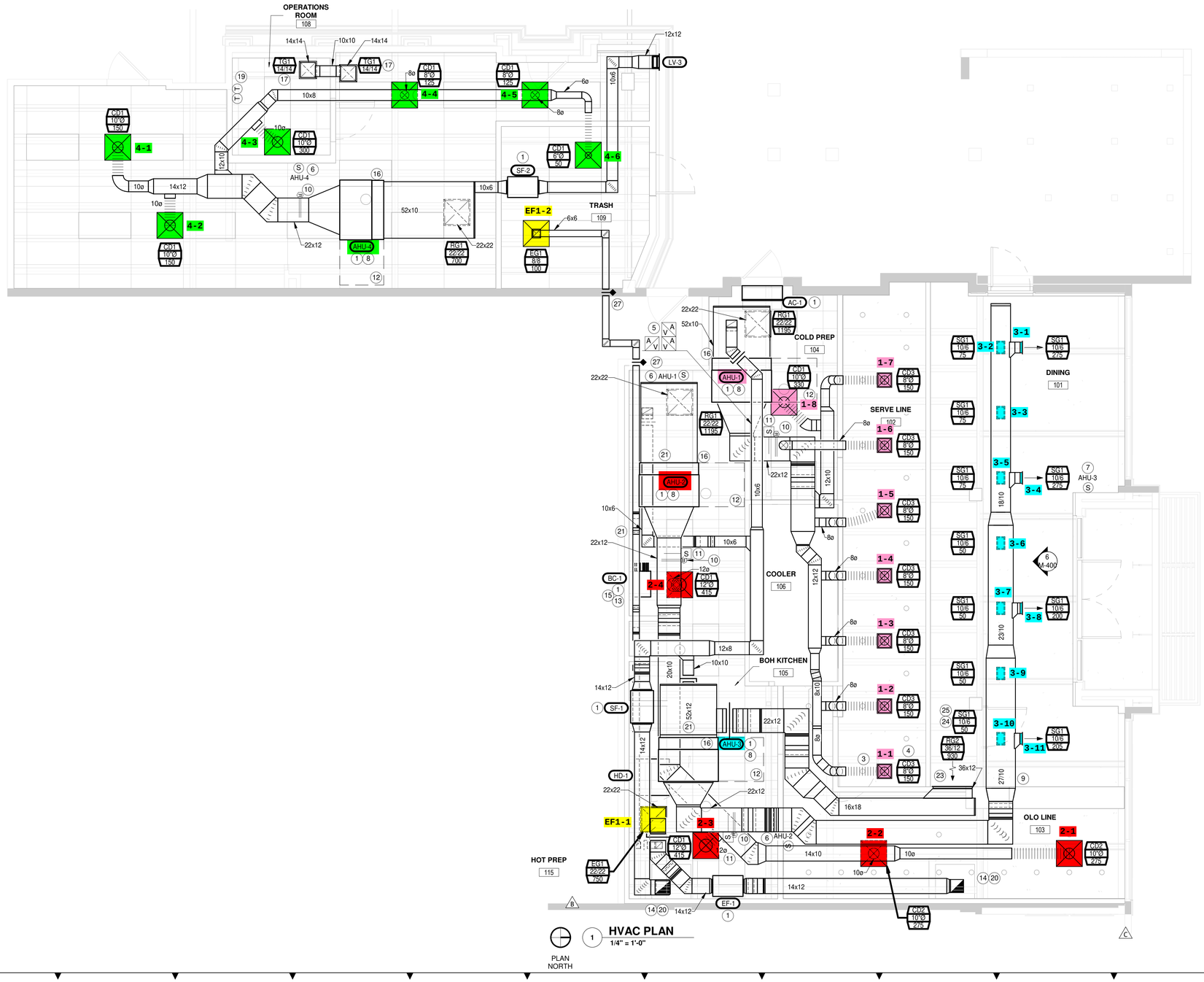
REVISIONS

REV.	DATE	DESCRIPTION

ENERGY COMPLIANCE FORMS

M-024

6/6/2023 11:27:42 AM



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

CODED NOTES

1 INSTALL EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTION AND PER THE STRUCTURAL DETAILS.
3 PROVIDE SUPPLY DIFFUSER CONNECTION PER DETAIL 1/SHEET M-400.
4 REFER TO THE ARCHITECTURAL RCP FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
5 PROVIDE AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET. WIRE A UNIT BACK TO EACH SMOKE DETECTOR. MOUNT UNIT 60" AFF. TYPICAL.
6 INSTALL THE TEMPERATURE SENSOR FOR THE HVAC EQUIPMENT NOTED AT THIS LOCATION AT 5'-0" AFF. COORDINATION LOCATION WITH EQUIPMENT AND WALL-MOUNTED FIXTURES AS REQUIRED SUCH THAT THE SENSOR IS NOT BLOCKED.
7 INSTALL THE TEMPERATURE SENSOR IN AN INSULATED JUNCTION BOX FOR THE HVAC EQUIPMENT NOTED AT THIS LOCATION AT 5'-0" AFF. COORDINATION LOCATION WITH EQUIPMENT AND WALL-MOUNTED FIXTURES AS REQUIRED SUCH THAT THE SENSOR IS NOT BLOCKED.
8 REFER TO DETAIL 3/SHEET M-400 FOR AIR HANDLER INSTALLATION DETAILS.
9 PROVIDE EXPOSED DUCTWORK AS SHOWN, PER THE SPECIFICATIONS AND PER DETAIL 2/SHEET M-400.
10 THE GENERAL CONTRACTOR SHALL FURNISH A REME HALO AIR PURIFICATION SYSTEM AND REQUIRED TRANSFORMER, PURCHASED THROUGH SWEETGREEN'S VENDOR (NATIONAL TAB) AND INSTALL SYSTEM IN THE SUPPLY AIR DUCTWORK AND PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. ADJUST AS REQUIRED FOR THE SUPPLY AIRFLOW.
11 THE GENERAL CONTRACTOR SHALL PROVIDE A DUCT-MOUNTED SMOKE DETECTOR IN THE SUPPLY AIR STREAM. UPON DETECTION OF SMOKE, THE SUPPLY AIR FAN SHALL DE-ENERGIZE. COORDINATE ALL REQUIREMENTS WITH THE LANDLORD AND ALARM PROVIDER.
12 MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCE ZONES. NO DUCTWORK, PIPING, CONDUIT OR OTHER SYSTEMS SHALL BER PERMITTED IN THIS AREA. COORDINATE WITH SITE CONDITIONS AND WORK OF OTHER TRADES AS REQUIRED. TYPICAL.
13 INSTALL THE OWNER-FURNISHED REFRIGERANT PIPING BETWEEN THE ROOF-MOUNTED CONDENSING UNIT AND THE BRANCH CONTROLLER. REFER TO THE HVAC VENDOR'S SHOP DRAWINGS FOR MORE INFORMATION. COORDINATE LINESET PATHWAY WITH THE LANDLORD AND SITE CONDITIONS AS REQUIRED. COORDINATE LINESET LENGTH AND QUANTITYS REQUIRED WITH THE OWNER'S NATIONAL ACCOUNT REPRESENTATIVE PRIOR TO EQUIPMENT SHIPPING.
14 APPROXIMATE LOCATION OF CHASE TO ROOF. PROVIDE SUPPORTS WITHIN THE CHASE AS REQUIRED FOR DUCTWORK PER SMACNA STANDARDS AND FOR REFRIGERANT PIPING.
15 INSTALL THE OWNER-FURNISHED REFRIGERANT PIPING BETWEEN THE BRANCH CONTROLLER AND THE AIR HANDLING UNITS. REFER TO THE VENDOR'S SHOP DRAWINGS FOR MORE INFORMATION. COORDINATE LINESET LENGTH AND QUANTITYS REQUIRED WITH THE OWNER'S NATIONAL ACCOUNT REPRESENTATIVE PRIOR TO EQUIPMENT SHIPPING.
16 INSTALL THE OWNER-FURNISHED FILTER BOX FOR THE AIR HANDLING UNIT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
17 PROVIDE DUCTED TRANSFER GRILLE IN LOCATION AS SHOWN.
18 NOT USED.
19 INSTALL THE OWNER-FURNISHED MAIN CONTROLLER FOR THE HVAC SYSTEM SERVING SPACE 450 AND THE HVAC SYSTEM SERVING SPACE 470 NOTED AT THIS LOCATION AT 48" AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THE AREA AND EXTEND CONTROLS WIRING AS NOTED IN THE TRANE SHOP DRAWINGS. COORDINATE CONTROLLER LOCATION WITH WALL-MOUNTED EQUIPMENT SO THAT THE THERMOSTATS ARE NOT BLOCKED BY SHELVING, COAT RACKS OR DOORS.
20 PROVIDE DUCTWORK TO/FROM THE SECOND STORY SPACE THROUGH A SHAFT IN THE APPROXIMATE LOCATION SHOWN. PROVIDE FIRE DAMPERS WITH RATINGS NO LESS THAN ANY FIRE RATED PARTITIONS THAT ARE BEING PENETRATED AS REQUIRED AND PER CODE. PROVIDE ALL ACCESS DOORS AS REQUIRED.
21 ALL DUCTWORK ROUTED UNDER AND ADJACENT TO THE AIR-HANDLING EQUIPMENT SHALL BE JOINED WITH GASKETS AND CLAMPING FLANGES AT EITHER END OF THE AIR HANDLING UNIT TO FACILITATE REMOVAL/REINSTALLATION IN THE EVENT OF SERVICE REQUIREMENTS ON THE EQUIPMENT.
22 NOT USED.
23 INSTALL RETURN GRILLE AS TIGHT TO THE STRUCTURE ABOVE AS POSSIBLE. INSTALL GRILLE WITH BLADES ANGLED UP SO THAT THE INTERIOR OF THE DUCTWORK IS NOT VISIBLE IN THE DINING ROOM.
24 INSTALL AIR DEVICE MOUNTED FLUSH TO THE DUCTWORK WITH NO TAKEOFF. TYPICAL.
25 PAINT INTERIOR OF DUCTWORK VISIBLE THROUGH THE AIR DEVICES IN THE DINING ROOM BLACK. TYPICAL.
26 NOT USED.
27 PROVIDE A DYNAMIC, TYPE B, FIRE DAMPER IN AN ACCESSIBLE LOCATION IN THE EXHAUST-AIR DUCT. FIELD-VERIFY RATING OF WALL. DAMPER SHALL HAVE A RATING NO LESS THAN THE RATING OF THE WALL. INSTALL IN ACCORDANCE WITH DETAIL X/SHEET M200, THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, THE MECHANICAL CODE AND AS REQUIRED BY THE LOCAL AHJ.

sweetgreen
3101 W. EXPOSITION BLVD.
LOS ANGELES, CALIFORNIA 90018

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STAMP:

CONSTRUCTION ISSUE SET

06/12/2023

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SUITE #450 AND #470
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PROJECT MANAGER:	JAE
SG DESIGN MANAGER:	KD
SG CONSTR. MANAGER:	JD
PROJECT NO:	220042

TEMPLATE VERSION: 05/20/2022

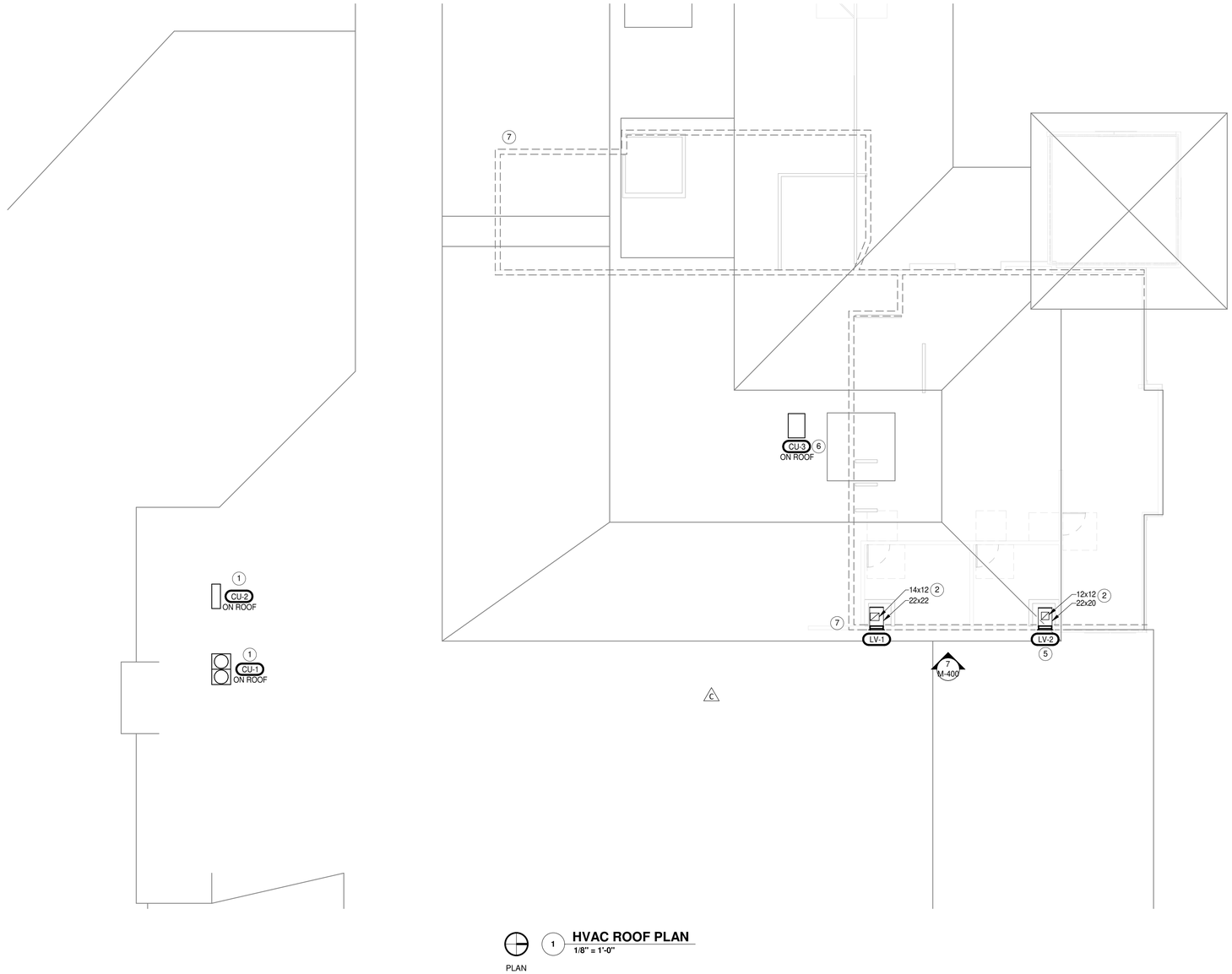
REVISIONS

REV.	DATE	DESCRIPTION
B	02/07/2023	PLAN CHECK COMMENTS
C	04/19/2023	VE REVISIONS

HVAC PLAN

M-100

6/6/2023 11:27:46 AM



1 **HVAC ROOF PLAN**
1/8" = 1'-0"

GENERAL NOTES

1 INSTALL EQUIPMENT MOUNTED ON STANDS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

C 2 DUCTWORK UP/DOWN FROM MAIN LEVEL. REFER TO SHEET M-100 FOR CONTINUATION.

3 NOT USED.

4 NOT USED.

5 MAINTAIN A 10'-0" SEPARATION FROM EXHAUST TERMINATION AND ALL MECHANICAL AIR INTAKES AND OTHER OPERABLE OPENINGS INTO THE BUILDING. FIELD-VERIFY EXACT TERMINATION LOCATION.

6 COORDINATE MOUNTING LOCATION FOR WALK-IN COOLER CONDENSING UNIT, CU-3 ON THE ROOF WITH THE KITCHEN EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. ENSURE ALL CLEARANCE REQUIREMENTS FOR THE UNIT ARE MAINTAINED THROUGH CONSTRUCTION. INSTALL THE CONDENSING UNIT ON THE ROOF PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. KITCHEN EQUIPMENT SUPPLIER SHALL PROVIDE LINESET, SPECIALTIES AND MAKE ALL FINAL CONNECTIONS BETWEEN THE CONDENSING UNIT AND EVAPORATOR COIL.

7 DASHED LINE REPRESENTS SWEETGREEN'S SPACES BELOW.

sg

sweetgreen

3101 W. EXPOSITION BLVD.
LOS ANGELES, CALIFORNIA 90018

ENGINEER OF RECORD:

EVERJ ENGINEERING, INC.
1509 BUCK TRAIL LANE
WORTHINGTON, OH 43085
614-349-8054
www.everjengineering.com

STAMP:

CONSTRUCTION ISSUE SET

06/12/2023

PROJECT INFORMATION:
PRUNEYARD

PROJECT INFORMATION:
1875 SOUTH BASCOM AVENUE SUITE #450 AND #470 CAMPBELL, CA 95008

DRAWN BY:	JAE
CHECKED BY:	JAE
PROJECT MANAGER:	JAE
SG DESIGN MANAGER:	KD
SG CONSTR. MANAGER:	JD
PROJECT NO:	220042

TEMPLATE VERSION: 05/20/2022

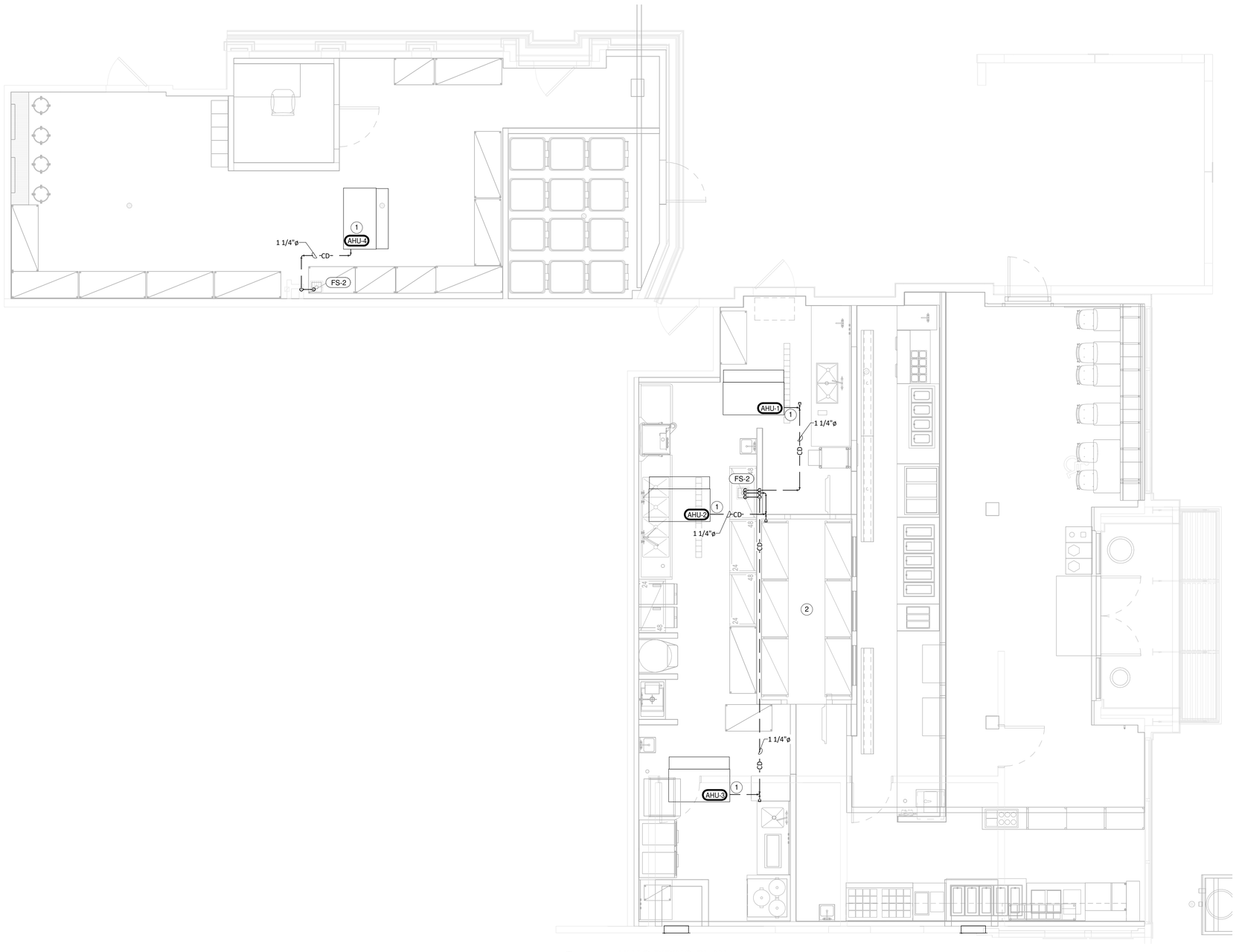
REVISIONS

REV.	DATE	DESCRIPTION
C	04/19/2023	VE REVISIONS

HVAC ROOF PLAN

M-101

6/6/2023 11:27:48 AM



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

PLAN NORTH

CODED NOTES

1 PROVIDE CONDENSATE DRAIN FROM THE MECHANICAL EQUIPMENT AS SHOWN. PER DETAIL 3/SHEET M-400 AND PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE INDIRECT DRAIN PER DETAIL 5/SHEET P-400. ALL DRAIN PIPING SHALL BE CONCEALED ABOVE CEILINGS AND WITHIN FRAMED WALLS UNLESS OTHERWISE NOTED.

2 REFER TO SANITARY WASTE AND VENT PLAN FOR WALK-IN COOLER CONDENSATE DRAIN ROUTING.

SYMBOLS & ABBREVIATIONS

HVAC PIPING SYMBOLS

- ELBOW UP
- ELBOW DOWN
- CWS — CONDENSER WATER SUPPLY
- CWR — CONDENSER WATER RETURN
- CHWS — CHILLED WATER SUPPLY
- CHWR — CHILLED WATER RETURN
- HWS — HOT WATER SUPPLY
- HWR — HOT WATER RETURN
- CD — CONDENSATE DRAIN
- (X) — PLAN NOTE: SEE KEYNOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
- CONNECT TO EXISTING
- RPBP — REDUCED PRESSURE ZONE BACKFLOW PREVENTER
- XX-# — EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M-300 FOR EQUIPMENT INFORMATION
- VALVE
- SOLENOID-OPERATED VALVE
- CHECK VALVE
- CIRCUIT-SETTER BALANCE VALVE RATED FOR POTABLE WATER
- BTU — BTU METER

HVAC PIPING ABBERVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
BC	BLOWER COIL
CD	CONDENSATE DRAIN
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
EXTG	EXISTING
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
RTU	ROOFTOP UNIT
WSHP	WATER SOURCE HEAT PUMP

sg

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PROJECT NO:	220042

TEMPLATE VERSION: 05/20/2022

REVISIONS

REV.	DATE	DESCRIPTION

HVAC PIPING PLAN

M-200

6/6/2023 11:27:50 AM

TRANE NATIONAL ACCOUNT - HVAC SYSTEM INFORMATION

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

DEREK VAN RIPER
(714)227-9366
DEREK.VANRIPER@TRANE.COM

DANNY SCHEER
(866)986-4822
DAN.SCHEER@TRANETECHNOLOGIES.COM

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

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

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

MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALLOWABLE MATERIAL
DUCT	EXPOSED, SUPPLY	ROUND AS SHOWN. PAINTED TO MATCH ROOF DECK.
	EXPOSED, GEN. EXHAUST	DOUBLE-WALL INSULATED ROUND AS SHOWN. PAINTED TO MATCH ROOF DECK.
	EXPOSED, VENTILATION AIR	DOUBLE-WALL INSULATED ROUND AS SHOWN. PAINTED TO MATCH ROOF DECK.
	CONCEALED, SUPPLY	RECTANGULAR OR ROUND AS SHOWN. INSULATED.
	CONCEALED, RETURN	RECTANGULAR OR ROUND AS SHOWN. INSULATED.
	CONCEALED, GEN. EXHAUST	RECTANGULAR OR ROUND AS SHOWN. INSULATED.
	CONCEALED, VENTILATION AIR	RECTANGULAR OR ROUND AS SHOWN. INSULATED
PIPING	CONDENSATE DRAINS	SCHEDULE 40 PVC PIPE AND FITTINGS.

AIR BALANCE SCHEDULE, SPACE 450

TAG	SUPPLY AIRFLOW (CFM)	RETURN AIRFLOW (CFM)	OUTSIDE AIR AIRFLOW (CFM)	EXHAUST AIRFLOW (CFM)	SUBTOTAL (CFM)
AHU-1	1380	1195	185	0	185
AHU-2	1380	1195	185	0	185
AHU-3	1380	930	450	0	450
EF-1	0	0	0	750	-750
NET PRESSURIZATION (CFM)					70

EXHAUST CALCULATIONS, SPACE 450

CATEGORY	AREA (SF)	EXHAUST RATE (CFM / SF)	EXHAUST REQUIRED (CFM)	EXHAUST PROVIDED (CFM)
KITCHEN	1062	0.7	-743.1	-750

VENTILATION CALCULATIONS, SPACE 450

CATEGORY	AREA (SF)	OCCUPANT DENSITY (# / 1000 SF)	OCCUPANCY BY AREA (PEOPLE)	AIR RATE (CFM)		VENTILATION REQUIRED (CFM)		VENTILATION REQUIRED (CFM)	VENTILATION PROVIDED (CFM)
				CFM / PERSON	CFM / SF	OCCUPANCY	FLOOR AREA		
DINING	500.7	70	36	7.5	0.18	270	90.1	360.1	450
KITCHEN	1061.5	20	22	7.5	0.12	165	127.4	292.4	370

AIR BALANCE SCHEDULE, SPACE 470

TAG	SUPPLY AIRFLOW (CFM)	RETURN AIRFLOW (CFM)	OUTSIDE AIR AIRFLOW (CFM)	EXHAUST AIRFLOW (CFM)	SUBTOTAL (CFM)
AHU-4	900	700	200	0	200
EF-1	0	0	0	100	-100
NET PRESSURIZATION (CFM)					100

VENTILATION CALCULATIONS, SPACE 470

CATEGORY	AREA (SF)	OCCUPANT DENSITY (# / 1000 SF)	OCCUPANCY BY AREA (PEOPLE)	AIR RATE (CFM)		VENTILATION REQUIRED (CFM)		VENTILATION REQUIRED (CFM)	VENTILATION PROVIDED (CFM)
				CFM / PERSON	CFM / SF	OCCUPANCY	FLOOR AREA		
BREAK AREA	105.9	25	3	5	0.06	15	6.4	21.4	21.4
OFFICE	56.0	5	1	5	0.06	5	3.4	8.4	67
STORAGE	650.0	2	2	5	0.12	10	78.0	88.0	111.6

GRILLS, REGISTERS, AND DIFFUSERS SCHEDULE

TAG	DESCRIPTION	FACE SIZE	MATERIAL	FINISH	MOUNTING	SUPPLIER	INSTALLER	MANUFACTURER	MODEL	REMARKS
CD1	PERFORATED CEILING DIFFUSER	24" x 24"	STEEL	WHITE	LAY-IN	GC	GC	TITUS	PCS	PROVIDE INTEGRAL OBD
CD2	PERFORATED CEILING DIFFUSER	24" x 24"	STEEL	WHITE	GYPSUM BOARD	GC	GC	TITUS	PCS	PROVIDE INTEGRAL OBD
CD3	PERFORATED CEILING DIFFUSER	12" x 12"	STEEL	WHITE	GYPSUM BOARD	GC	GC	TITUS	PCS	PROVIDE INTEGRAL OBD
EG1	PERFORATED CEILING RETURN	24" x 24"	STEEL	WHITE	LAY-IN	GC	GC	TITUS	PAR	
RG1	PERFORATED CEILING RETURN	24" x 24"	STEEL	WHITE	LAY-IN	GC	GC	TITUS	PAR	
RG2	3/4" SPACING, 35° DEGREE DEFLECTION RETURN GRILLE	36"x14"	STEEL	WHITE	GYPSUM BOARD	GC	GC	TITUS	350RL	
SG1	DOUBLE DIRECTIONAL SUPPLY REGISTER	12" x 8"	STEEL	WHITE	SURFACE	GC	GC	TITUS	300RL	PROVIDE INTEGRAL OBD
TG1	PERFORATED CEILING RETURN	16"x16"	STEEL	WHITE	LAY-IN	GC	GC	TITUS	PAR	

C REMOVED CD4 AND ED1

BRANCH CONTROLLER SCHEDULE

TAG	DESCRIPTION	NUMBER OF PORTS	ELECTRICAL			SUPPLIER	INSTALLER	MANUFACTURER	MODEL	REMARKS
			MOCP (A)	MCA	V/P/H					
BC-1	SPACE 450 BRANCH CONTROLLER	4	15	0.4	208/1/60	OWNER	GC	DAIKIN	BSFH4Q54TVJ	

RECIRCULATING HOOD SCHEDULE

TAG	DESCRIPTION	MAX COOKING TEMP.	EXHAUST PLENUM AIRFLOW [CFM]	APPROXIMATE WEIGHT [LB]	SUPPLIER	INSTALLER	ELECTRICAL DATA		BASIS FOR DESIGN		REMARKS
							WATTS	V/P/H	MANUFACTURER	MODEL	
HD-1	VENTLESS CANOPY RECIRCULATING HOOD	N/A	415	175	KES	KES	170 W	120/1/60	RATIONAL	60.76.177	

FAN SCHEDULE

TAG	EXHAUST AIRFLOW (CFM)	E.S.P. (IN. W.C.)	DRIVE TYPE	MOTOR POWER (HP)	WEIGHT (LB)	ELECTRICAL			SUPPLIER	INSTALLER	MANUFACTURER	MODEL	REMARKS
						MCA (A)	MOCP (A)	V/P/H					
EF-1	850	1.0	DIRECT	0.75	175	11.2	20	120/1/60	GC	GC	CAPTIVE-AIRE	SIF11DD	FURNISHED WITH SPEED CONTROLLER, BACKDRAFT DAMPER AND VIBRATION ISOLATION MOUNTS
SF-1	820	1.0	DIRECT	0.50	175	7.9	15	120/1/60	GC	GC	CAPTIVE-AIRE	SIF13DD-HE	FURNISHED WITH SPEED CONTROLLER, BACKDRAFT DAMPER AND VIBRATION ISOLATION MOUNTS
SF-2	200	1.0	DIRECT	0.75	175	11.2	20	120/1/60	GC	GC	CAPTIVE-AIRE	SIF11DD	FURNISHED WITH SPEED CONTROLLER, BACKDRAFT DAMPER AND VIBRATION ISOLATION MOUNTS

LOUVER SCHEDULE

TAG	DESCRIPTION	SIZE		AIRFLOW		MATERIAL	FINISH	SUPPLIER	INSTALLER	MANUFACTURER	MODEL	SPECIAL REMARKS
		FACE SIZE (W" x H")	FREE AREA (SF)	TOTAL AIRFLOW (CFM)	PRESSURE DROP (IN W.C.)							
LV-1	VENTILATION AIR LOUVER	22"x22"	1.60	820	0.04	ALUMINUM	TO MATCH EXISTING	GC	GC	RUSKIN	ELF6375DX	FURNISHED WITH BIRD SCREEN AND MOUNTING SYSTEM COMPATIBLE WITH THE EXISTING BUILDING CONSTRUCTION.
LV-2	EXHAUST AIR LOUVER	22"x20"	1.38	850	0.04	ALUMINUM	TO MATCH EXISTING	GC	GC	RUSKIN	ELF6375DX	FURNISHED WITH BIRD SCREEN AND MOUNTING SYSTEM COMPATIBLE WITH THE EXISTING BUILDING CONSTRUCTION.
LV-3	VENTILATION AIR LOUVER	12"x12"	0.30	200	0.07	ALUMINUM	TO MATCH EXISTING	GC	GC	RUSKIN	ELF6375DX	FURNISHED WITH BIRD SCREEN AND MOUNTING SYSTEM COMPATIBLE WITH THE EXISTING BUILDING CONSTRUCTION.

C REMOVED TYPE II HOOD SCHEDULE

AIR CURTAIN SCHEDULE

TAG	DESCRIPTION	OPENING WIDTH	AIRFLOW			ELECTRICAL			SUPPLIER	INSTALLER	MANUFACTURER	MODEL	REMARKS
			MAX VELOCITY (FPM)	AVERAGE VELOCITY (FPM)	AIRFLOW (CFM)	MOCP (A)	MCA (A)	V/P/H					
AC-1	KITCHEN AIR CURTAIN	36"	5560	1205	1205	15	3.4	120/1/60	GC	GC	POWERED AIRE	CLD-1-36	FURNISHED WITH DOOR-ACTIVATED SWITCH

CONDENSING UNIT SCHEDULE

TAG	DESCRIPTION	PAIRED WITH	NOMINAL CAPACITY (TONS)	NUMBER OF COMPRESSORS	REFRIGERANT TYPE	WEIGHT (LB)	ELECTRICAL			SUPPLIER	INSTALLER	MANUFACTURER	MODEL	REMARKS
							MOCP (A)	MCA (A)	V/P/H					
CU-1	SPACE 450 CONDENSING UNIT	AHU-1 AHU-2 AHU-3	12	1	R410A	850	70	58.3	208/3/60	OWNER	GC	DAIKIN	REYQ144XATJB	FURNISHED WITH 24" STANDS AND COATED COIL
CU-2	SPACE 470 CONDENSING UNIT	AHU-4	4	1	R410A	200	35	29.1	208/1/60	OWNER	GC	DAIKIN	RXTQ48TAVJU	FURNISHED WITH 24" STANDS AND COATED COIL
CU-3	WALK-IN COOLER REMOTE CONDENSING UNIT	N/A	0	1	R448A	260	25	16.3	208/1/60	KES B	KES / GC	BY KES	BY KES	FURNISHED WITH THE WALK-IN COOLER.

AIR HANDLING UNIT SCHEDULE

TAG	DESCRIPTION	COOLING CAPACITY (TONS)	EER	AIRFLOW				COOLING				HEATING				ELECTRICAL			SUPPLIER	INSTALLER	MANUFACTURER	MODEL	REMARKS
				TOTAL (CFM)	RETURN (CFM)	OA (CFM)	E.S.P. (IN W.C.)	NET TOTAL (MBH)	NET SENSIBLE (MBH)	EAT (DEG. F)		EAT (DEG. F)	TOTAL (MBH)	LAT (DEG. F)	WEIGHT (LB)	MOCP (A)	MCA (A)	V/P/H					
										DB	WB												
AHU-1	KITCHEN AIR-HANDLING UNIT	4	11.6	1380	1195	185	0.8	44.8	33.5	76.0	65.5	65.2	59.1	104.1	165	15	3.4	208/1/60	OWNER	GC	DAIKIN	FXMQ48PBVJU	FURNISHED WITH INTEGRAL CONDENSATE PUMP WITH 18" OF LIFT, FILTER BOX WITH MERV13 FILTERS AND REMOTE SENSORS AS NOTED ON THE PLANS.
AHU-2	KITCHEN AIR-HANDLING UNIT	4	11.6	1380	1195	185	0.8	44.8	33.5	76.0	65.5	65.2	59.1	104.1	165	15	3.4	208/1/60	OWNER	GC	DAIKIN	FXMQ48PBVJU	FURNISHED WITH INTEGRAL CONDENSATE PUMP WITH 18" OF LIFT, FILTER BOX WITH MERV13 FILTERS AND REMOTE SENSORS AS NOTED ON THE PLANS.
AHU-3	DINING ROOM AIR-HANDLING UNIT	4	11.6	1380	930	450	0.8	44.8	33.5	78.7	65.1	58.2	59.1	97.1	165	15	3.4	208/1/60	OWNER	GC	DAIKIN	FXMQ48PBVJU	FURNISHED WITH INTEGRAL CONDENSATE PUMP WITH 18" OF LIFT, FILTER BOX WITH MERV13 FILTERS AND REMOTE SENSORS AS NOTED ON THE PLANS.
AHU-4	SPACE 470 AIR-HANDLING UNIT	3	11.6	900	700	200	0.8	33.6	25.1	77.5	62.6	62.0	44.3	106.7	165	15	2.9	208/1/60	OWNER	GC	DAIKIN	FXMQ36PBVJU	FURNISHED WITH INTEGRAL CONDENSATE PUMP WITH 18" OF LIFT, FILTER BOX WITH MERV13 FILTERS AND REMOTE SENSORS AS NOTED ON THE PLANS.

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REVISIONS

REV.	DATE	DESCRIPTION
B	02/07/2023	PLAN CHECK COMMENTS
C	04/19/2023	VE REVISIONS

HVAC SCHEDULES

M-300

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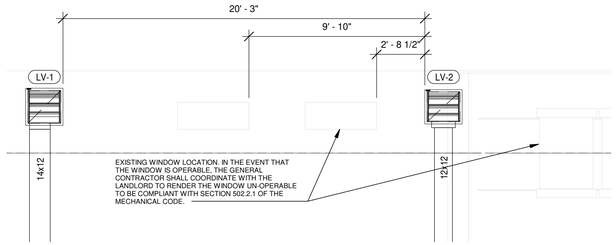
REMOVED HOOD ELEVATIONS AND ROOF-MOUNTED DUCTWORK DETAIL

C



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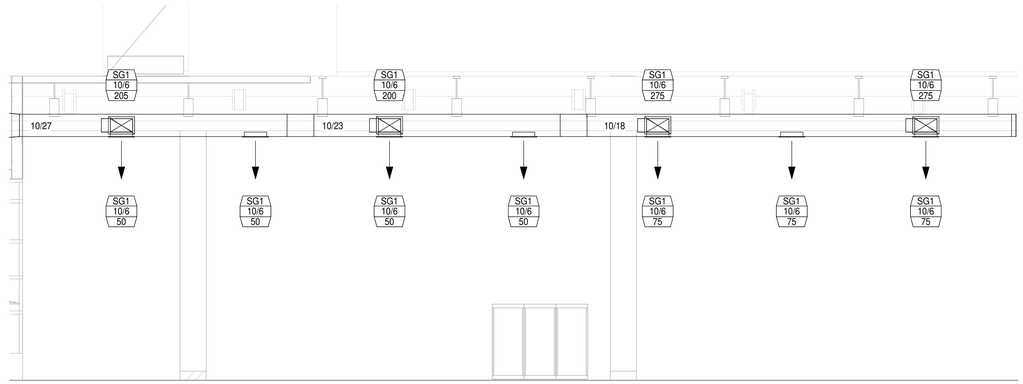
7 **H-LOUVER ELEVATION**
N.T.S.



6 **DINING ROOM HVAC ELEVATION**
N.T.S.

SEQUENCE OF OPERATIONS CU-1 & AHU-1 THRU AHU-3

GENERAL:
THE VRF SYSTEM SHALL BE A HEAT PUMP, HEAT RECOVERY SYSTEM CAPABLE OF SIMULTANEOUS HEATING AND COOLING. THE CONDENSING UNIT SHALL MODULATE CAPACITY AS REQUIRED TO SATISFY THE AIR HANDLING UNIT DEMAND. THE BRANCH CIRCUIT CONTROLLER SHALL PROVIDE CONTROL TO THE SYSTEM AS REQUIRED.

OCCUPIED MODE:
FAN OPERATION/OUTSIDE AIR DAMPER: WHEN SCHEDULED BY THE TIME CLOCK TO BE IN OCCUPIED MODE, THE AIR HANDLER FANS ARE TO START AND RUN CONTINUOUSLY SF-1 SHALL BE ENERGIZED.
HEATING: ON A FALL IN SPACE TEMPERATURE BELOW THE SETPOINT OF 70 DEGREES (ADJUSTABLE) THE AIR HANDLING UNIT SHALL BE SWITCHED TO HEATING MODE AND THE HEATING CAPACITY SHALL MODULATE UP TO MAXIMUM TO MAINTAIN THE TEMPERATURE SETPOINT
COOLING: ON A RISE IN SPACE TEMPERATURE ABOVE THE SETPOINT OF 72 DEGREES (ADJUSTABLE) THE AIR HANDLING UNIT SHALL BE SWITCHED TO COOLING MODE AND THE COOLING CAPACITY SHALL MODULATE UP TO MAXIMUM TO MAINTAIN THE TEMPERATURE SETPOINT.

UNOCCUPIED MODE:
FAN OPERATION/OUTSIDE AIR DAMPER: WHEN SCHEDULED BY THE TIME CLOCK TO BE IN UNOCCUPIED MODE, THE AIR HANDLER FANS ARE TO BE OFF AND SF-1 SHALL REMAIN DE-ENERGIZED.
HEATING: ON A FALL IN SPACE TEMPERATURE BELOW THE SETPOINT OF 55 DEGREES (ADJUSTABLE) THE AIR HANDLING UNIT FAN SHALL START AND THE UNIT SHALL BE SWITCHED TO HEATING MODE AND THE HEATING CAPACITY SHALL MODULATE UP TO MAXIMUM TO MAINTAIN THE TEMPERATURE SETPOINT.
COOLING: ON A RISE IN SPACE TEMPERATURE ABOVE THE SETPOINT OF 85 DEGREES (ADJUSTABLE) THE AIR HANDLING UNIT FAN SHALL START AND THE UNIT SHALL BE SWITCHED TO COOLING MODE AND THE COOLING CAPACITY SHALL MODULATE UP TO MAXIMUM TO MAINTAIN THE TEMPERATURE SETPOINT.

EMERGENCY MODE:
FAN OPERATION/OUTSIDE AIR DAMPER: UPON A SIGNAL FROM THE FIRE ALARM SYSTEM, THE FAN SHALL STOP AND THE OUTSIDE AIR DAMPER SHALL CLOSE.

SEQUENCE OF OPERATIONS CU-2 & AHU-4

OCCUPIED MODE:
FAN OPERATION/OUTSIDE AIR DAMPER: WHEN SCHEDULED BY THE TIME CLOCK TO BE IN OCCUPIED MODE, THE AIR HANDLER FANS ARE TO START AND RUN CONTINUOUSLY AND SF-2 SHALL BE ENERGIZED.
HEATING: ON A FALL IN SPACE TEMPERATURE BELOW THE SETPOINT OF 70 DEGREES (ADJUSTABLE) THE SYSTEM SHALL BE SWITCHED TO HEATING MODE AND THE HEATING CAPACITY SHALL MODULATE UP TO MAXIMUM TO MAINTAIN THE TEMPERATURE SETPOINT
COOLING: ON A RISE IN SPACE TEMPERATURE ABOVE THE SETPOINT OF 72 DEGREES (ADJUSTABLE) THE SYSTEM SHALL BE SWITCHED TO COOLING MODE AND THE COOLING CAPACITY SHALL MODULATE UP TO MAXIMUM TO MAINTAIN THE TEMPERATURE SETPOINT.

UNOCCUPIED MODE:
FAN OPERATION/OUTSIDE AIR DAMPER: WHEN SCHEDULED BY THE TIME CLOCK TO BE IN UNOCCUPIED MODE, THE AIR HANDLER FANS ARE TO BE OFF AND SF-2 SHALL REMAIN DE-ENERGIZED.
HEATING: ON A FALL IN SPACE TEMPERATURE BELOW THE SETPOINT OF 55 DEGREES (ADJUSTABLE) THE AIR HANDLING UNIT FAN SHALL START AND THE SYSTEM SHALL BE SWITCHED TO HEATING MODE AND THE HEATING CAPACITY SHALL MODULATE UP TO MAXIMUM TO MAINTAIN THE TEMPERATURE SETPOINT.
COOLING: ON A RISE IN SPACE TEMPERATURE ABOVE THE SETPOINT OF 85 DEGREES (ADJUSTABLE) THE AIR HANDLING UNIT FAN SHALL START AND THE SYSTEM SHALL BE SWITCHED TO COOLING MODE AND THE COOLING CAPACITY SHALL MODULATE UP TO MAXIMUM TO MAINTAIN THE TEMPERATURE SETPOINT.

EMERGENCY MODE:
FAN OPERATION/OUTSIDE AIR DAMPER: UPON A SIGNAL FROM THE FIRE ALARM SYSTEM, THE FAN SHALL STOP AND THE OUTSIDE AIR DAMPER SHALL CLOSE.

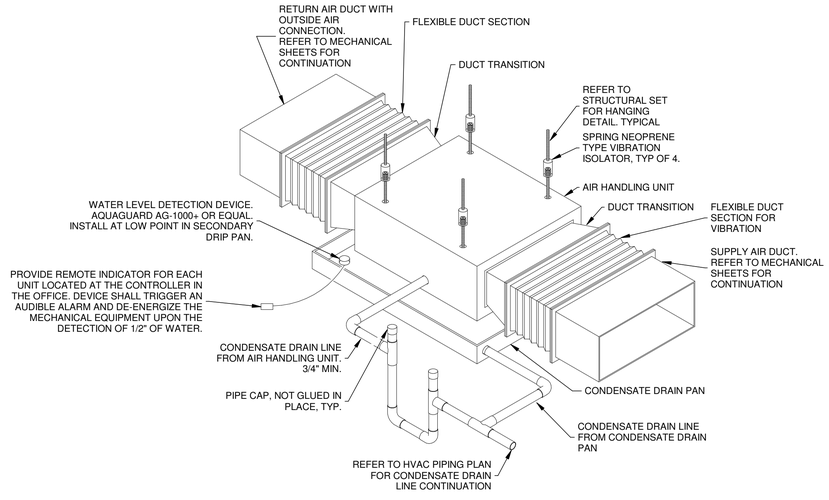
SEQUENCE OF OPERATIONS EF-1 & EF-2

OCCUPIED MODE:
FAN OPERATION: WHEN SCHEDULED BY THE TIME CLOCK TO BE IN OCCUPIED MODE, THE EXHAUST FAN IS TO START AND RUN CONTINUOUSLY.

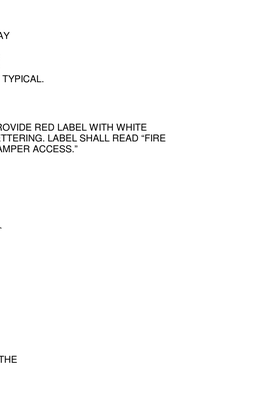
UNOCCUPIED MODE:
FAN OPERATION: WHEN SCHEDULED BY THE TIME CLOCK TO BE IN UNOCCUPIED MODE, THE EXHAUST FAN SHALL REMAIN OFF.

EMERGENCY MODE:
FAN OPERATION/OUTSIDE AIR DAMPER: UPON A SIGNAL FROM THE FIRE ALARM SYSTEM, THE FAN SHALL STOP.

4 **SEQUENCE OF OPERATIONS**
N.T.S.

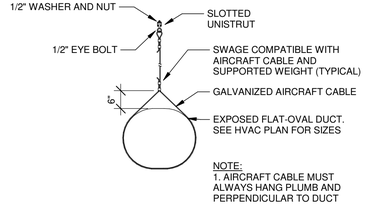


3 **AIR HANDLING UNIT INSTALLATION DETAIL**
N.T.S.

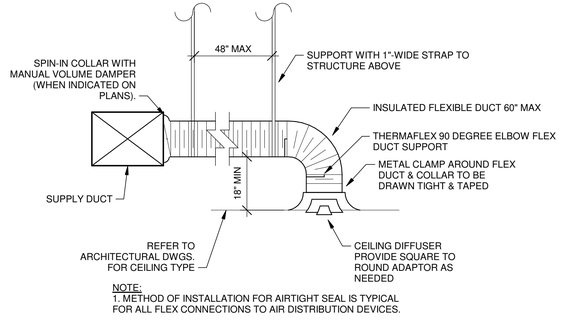


NOTES:
- "H" DIMENSION SHALL BE 2" SMALLER THAN THE DUCT HEIGHT.
- COORDINATE LOCATION OF THE ACCESS DOOR AND ACCESSIBILITY WITH WORK OF OTHER TRADES AND SITE CONDITIONS.

5 **FIRE DAMPER DETAIL**
N.T.S.



2 **EXPOSED DUCTWORK SUPPORT**
N.T.S.



1 **DIFFUSER CONNECTION**
N.T.S.

6/6/2023 11:27:56 AM

sg

sweetgreen

3101 W. EXPOSITION BLVD.
LOS ANGELES, CALIFORNIA 90018

ENGINEER OF RECORD:
EVERJ ENGINEERING, INC.
1509 BUCK TRAIL LANE
WORTHINGTON, OH 43085
614-349-8054
www.everjengineering.com

STAMP:

CONSTRUCTION ISSUE SET

06/12/2023

PROJECT INFORMATION:
PRUNEYARD

PROJECT INFORMATION:
1875 SOUTH BASCOM AVENUE
SUITE #450 AND #470
CAMPBELL, CA 95008

DRAWN BY:	JAE
CHECKED BY:	JAE
PROJECT MANAGER:	JAE
SG DESIGN MANAGER:	KD
SG CONSTR. MANAGER:	JD
PROJECT NO:	220042

TEMPLATE VERSION: 05/20/2022

REVISIONS

REV.	DATE	DESCRIPTION
C	04/19/2023	VE REVISIONS

HVAC DETAILS

M-400