

MECHANICAL SYMBOL LIST

* This is a standard list and not all symbols and abbreviations may be used.

<p>DUCTWORK</p> <p>☒ ⊗ SUPPLY AIR</p> <p>⊗ ⊗ RETURN OR EXHAUST AIR</p> <p>⊗ ⊗ OUTSIDE AIR</p> <p>⊗/⊗ POINT OF CONNECTION/DEMOLITION</p> <p>⊗ AC-1 ROOM THERMOSTAT</p> <p>⊗ AC-1 EQUIPMENT IDENTIFICATION</p> <p>12x12 CD-1 DIFFUSER OR GRILLE IDENTIFICATION</p> <p>DAMPERS</p> <p>FD VOLUME DAMPER</p> <p>FD FIRE DAMPER</p> <p>CFSD FIRE/SMOKE DAMPER</p> <p>SD SMOKE DAMPER</p> <p>MD MOTORIZED DAMPER</p> <p>DUCTWORK FITTINGS</p> <p>MITERED ELBOW WITH TURNING VANES</p> <p>RADIUSED ELBOW</p> <p>RECTANGULAR MAIN WITH ROUND BRANCH</p> <p>RECTANGULAR MAIN WITH RECTANGULAR BRANCH</p> <p>CONCENTRIC SQUARE TO ROUND</p> <p>ECCENTRIC TRANSITION, RECTANGULAR OR ROUND</p> <p>NON-SYMMETRICAL WYE</p> <p>SYMMETRICAL WYE</p> <p>RECTANGULAR DUCT RISER</p> <p>ROUND DUCT RISER</p> <p>RECTANGULAR DUCT DROP</p> <p>ROUND DUCT DROP</p> <p>RECTANGULAR OFFSET LESS THAN 15°</p> <p>RECTANGULAR OFFSET MORE THAN 15°</p> <p>ROUND WYE</p> <p>EX EXTRACTOR</p> <p>BELLMOUTH</p> <p>ROUND DUCT WITH ROUND BRANCH</p> <p>CONCENTRIC TRANSITION, RECTANGULAR OR ROUND</p> <p>ACOUSTICALLY LINED DUCT (SIZES SHOWN ARE NET INSIDE)</p>	<p>—HWR— HEATING WATER RETURN</p> <p>—HWSR— HEATING WATER SUPPLY AND RETURN</p> <p>—CHWS— CHILLED WATER SUPPLY</p> <p>—CHWR— CHILLED WATER RETURN</p> <p>—CHWSR— CHILLED WATER SUPPLY AND RETURN</p> <p>—C— STEAM CONDENSATE RETURN</p> <p>—RS— REFRIGERANT SUCTION</p> <p>—RL— REFRIGERANT LIQUID</p> <p>PIPING VALVES</p> <p>— VALVE, GENERAL</p> <p>— VALVE</p> <p>— GATE VALVE</p> <p>— PRESSURE REDUCING VALVE</p> <p>— MOTORIZED, 2-WAY VALVE</p> <p>— CHECK VALVE</p> <p>— QUARTER TURN VALVE</p> <p>— GLOBE VALVE</p> <p>— BALANCING VALVE</p> <p>— MOTORIZED, 3-WAY VALVE</p> <p>PIPING FITTINGS</p> <p>— PIPE RISE</p> <p>— PIPE DROP</p> <p>— TEE UP ON PIPE</p> <p>— TEE DOWN ON PIPE</p> <p>— CONTINUATION</p> <p>— CAP</p> <p>— UNION</p> <p>— PIPE BELOW GRADE</p> <p>— PIPE REMOVED IN DEMOLITION</p> <p>— CONCENTRIC REDUCER</p> <p>— ECCENTRIC REDUCER</p> <p>— FLOW DIRECTION</p> <p>— HOSE BIBB</p> <p>— PUMP</p> <p>— PRESSURE GAUGE WITH COCK</p> <p>— THERMOMETER</p> <p>— PIPE TO DRAIN</p> <p>— AIR SEPARATOR</p> <p>— TEMPERATURE SENSOR</p> <p>— BACKFLOW PREVENTER</p> <p>— PRESSURE RELIEF VALVE</p> <p>— T&P RELIEF VALVE WITH PIPE TO DRAIN</p> <p>— EXPANSION TANK</p> <p>— EXPANSION JOINT</p> <p>— PRESSURE SENSOR</p> <p>— FLOW SWITCH</p> <p>— SHOCK ABSORBER</p> <p>— HEAT EXCHANGER</p> <p>— WATER METER</p> <p>— EXPANSION LOOP</p> <p>— MANUAL AIR VENT</p> <p>— AUTOMATIC AIR VENT</p> <p>— TEST PORT (PETE'S PLUG OR EQUAL)</p> <p>PIPING SYSTEMS</p> <p>—HWS— HEATING WATER SUPPLY</p>	<p>HP HEAT PUMP</p> <p>HP HORSEPOWER</p> <p>HTG HEATING</p> <p>HTR HEATER</p> <p>HWC HOT WATER COIL</p> <p>ID INSIDE DIAMETER</p> <p>IE INVERT ELEVATION</p> <p>IN INCHES</p> <p>KW KILOWATT</p> <p>LAT LEAVING AIR TEMPERATURE</p> <p>LBS POUNDS</p> <p>LH LATENT HEAT</p> <p>LWT LEAVING WATER TEMPERATURE</p> <p>MA MIXED AIR</p> <p>MAX MAXIMUM</p> <p>MBH THOUSAND BTU'S PER HOUR</p> <p>MD MOTORIZED DAMPER</p> <p>MH MOUNTING HEIGHT</p> <p>MIN MINIMUM</p> <p>MS MOTOR STARTER</p> <p>MW MAKE-UP WATER</p> <p>(N) NEW</p> <p>N/A NOT APPLICABLE</p> <p>NC NOISE CRITERIA</p> <p>NIC NOT IN CONTRACT</p> <p>NO. NUMBER</p> <p>NOP NORMALLY OPEN</p> <p>NTS NOT TO SCALE</p> <p>OA OUTSIDE AIR</p> <p>OBD OPPOSED BLADE DAMPER</p> <p>OC ON CENTER</p> <p>OD OUTSIDE DIAMETER</p> <p>P PUMP</p> <p>PD PRESSURE DROP</p> <p>PH PHASE</p> <p>PRV PRESSURE REDUCING VALVE</p> <p>PSI POUNDS PER SQUARE INCH</p> <p>QTY QUANTITY</p> <p>(R) REMOVE</p> <p>(RL) RELOCATE</p> <p>R RISE</p> <p>RA RETURN AIR</p> <p>REF REFRIGERANT</p> <p>RET RETURN</p> <p>RH RELATIVE HUMIDITY</p> <p>(E) EXISTING</p> <p>RL REFRIGERANT LIQUID</p> <p>RLD RELIEF DAMPER</p> <p>RPM REVOLUTIONS PER MINUTE</p> <p>RS REFRIGERANT SUCTION</p> <p>SA SUPPLY AIR</p> <p>SEER SEASONAL ENERGY EFFICIENCY RATING</p> <p>EL ELEVATION</p> <p>ELECT ELECTRICAL</p> <p>EWI ENTERING WATER TEMPERATURE</p> <p>EXH EXHAUST</p> <p>F FAHRENHEIT</p> <p>FA FACE AREA</p> <p>FC FAN COIL</p> <p>FC FLEXIBLE CONNECTOR</p> <p>FD FIRE DAMPER</p> <p>FF FOULING FACTOR</p> <p>FLA FULL LOAD AMPS</p> <p>FM FLOW METER</p> <p>FPI FINS PER INCH</p> <p>FPM FEET PER MINUTE</p> <p>FPS FEET PER SECOND</p> <p>FS FLOW SWITCH</p> <p>FT FEET</p> <p>FVEL FACE VELOCITY</p> <p>GAL GALLONS</p> <p>GPH GALLONS PER HOUR</p> <p>GPM GALLONS PER MINUTE</p> <p>HD HEAD</p> <p>W/WO WITHOUT</p>
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GENERAL SEISMIC NOTES

- A. PIPING AND DUCTWORK DISTRIBUTION SYSTEMS SHALL BE BRACED TO SYSTEM THE FORCES PRESCRIBED IN ASCE 7-05 SECTION 13.3 AS DEFINED IN ASCE 7-05 SECTION 13.6.8, 13.6.7, AND 13.6.5.5, ITEM 6, RESPECTIVELY.
- B. THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS WITH AN OPA #, SUCH AS MASON INDUSTRIES (OPA 349), OR ISAT (OPA 485) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.
- C. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. WHERE THEY DO NOT COMPLY WITH THE REQUIREMENT ON DETAIL T/SS.2.
- D. ALL MECHANICAL EQUIPMENT SHALL BE ANCHORED OR BRACED TO MEET THE HORIZONTAL AND VERTICAL FORCES PRESCRIBED IN THE 2007 CBC, SECTION 1614A.1.13 AND ASCE 7-05 SECTIONS 13.3, 13.4 & 13.6. THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNED TO RESIST THE FORCES PRESCRIBED ABOVE, BUT NEED NOT BE DETAILED ON THE PLANS:
 1. EQUIPMENT WEIGHTING LESS THAN 400 POUNDS SUPPORT DIRECTLY ON THE FLOOR OR ROOF.
 2. FURNITURE REQUIRED TO BE ATTACH IN ACCORDANCE WITH PART 2, TITLE 24, C.C.R.
 3. TEMPORARY OR REMOVABLE EQUIPMENT.
 4. EQUIPMENT WEIGHTING LESS THAN 20 POUNDS SUPPORT BY VIBRATION ISOLATORS.
 5. EQUIPMENT WEIGHTING LESS THAN 20 POUNDS SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM WALL.
- E. FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL/ELECTRICAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.
- F. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. WHERE THEY DO NOT COMPLY WITH THE REQUIREMENT ON DETAIL T/SS.2.
- G. REFER TO STRUCTURAL DRAWINGS FOR CONCRETE ANCHOR TYPE AND INSTALLATION REQUIREMENTS.
- H. ALL PIPING AND CONDUIT CROSSING BUILDING SEISMIC SEPARATIONS SHALL BE PROVIDED WITH APPROVED FLEXIBLE CONNECTORS.
- I. SHOP DRAWINGS SHOWING ALL BRACING LOCATIONS AND DETAILS OF CONNECTIONS ARE REQUIRED FOR ALL SYSTEMS, INCLUDING PRE-APPROVED SYSTEMS.
- J. A COPY OF THE BRACING SYSTEMS INSTALLATION MANUAL SHALL BE ON THE JOB SITE PRIOR TO STARTING THE INSTALLATION OF THE HANGERS AND/OR BRACES. SUBMIT APPLICABLE DETAILS FOR REVIEW AND APPROVAL.
- K. LATERAL SUPPORT FOR PIPES AND DUCTS SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST ADDITION OF THE "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING SYSTEMS" BY SMACNA.

GENERAL MECHANICAL NOTES

- A. COORDINATE EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES WITH LIGHTING LAYOUT, CEILING TILE PATTERN AND WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- B. PROVIDE MANUAL VOLUME DAMPERS TO FACILITATE PROPER BALANCE OF THE AIR DISTRIBUTION SYSTEM. VOLUME DAMPER AT DIFFUSERS AND REGISTERS SHALL NOT BE USED FOR AIR BALANCING.
- C. SEAL ALL OPENINGS AROUND PIPING AND DUCTWORK PENETRATING FIRE RESISTIVE RATED WALLS AND FLOORS TO MAINTAIN RATING INTEGRITY.
- D. COORDINATE EXACT LOCATION OF CEILING, WALL OR FLOOR ACCESS PANELS FOR FIRE, SMOKE OR COMBINATION FIRE SMOKE DAMPERS AND VOLUME DAMPERS WITH ARCHITECT.
- E. COORDINATE LOCATION OF CEILING ACCESS PANEL FOR EACH FURNACE LOCATED IN THE NON-DEMOUNTABLE CEILING AREA.
- F. FLEXIBLE SUPPLY DUCT LENGTH SHALL BE MAXIMUM 5'-0". MINIMUM RADIUS SHALL BE 1.5 TIMES DIAMETER OF DUCT.
- G. PROVIDE MANUAL VOLUME DAMPER REMOTE REGULATOR AT INACCESSIBLE CEILING. SIMILAR TO YOUNG REGULATOR.
- H. COORDINATE EXACT LOCATION OF CORE DRILLING, CUTTING OF FLOOR SLAB, OR WALLS OF THE BUILDING WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- I. PROVIDE ACCESS DOOR FOR ALL EQUIPMENT, VALVES AND CLEANOUTS WHICH REQUIRE ACCESS FOR ADJUSTMENT OR SERVICING, AND WHICH ARE LOCATED IN OTHERWISE INACCESSIBLE LOCATIONS. OPENINGS SHALL BE LARGE ENOUGH TO PERMIT MAINTENANCE AND ADJUSTMENT OF THE DEVICE.
- J. DUCTS STORED ON THE CONSTRUCTION SITE SHALL BE PROTECTED AND ISOLATED FROM DUST CONTAMINATION.
- K. PITCH PIPELINES AS REQUIRED FOR PROPER DRAINAGE AND ELIMINATION OF AIR.
- L. PROVIDE CONDENSATE DRAIN PIPING WITH DRAINAGE FITTINGS FOR ALL COOLING COILS AND ROUTE TO A NEAREST APPROVED RECEIVER. SEE PLUMBING DRAWINGS.
- M. MANUFACTURERS NAMES FOR PRODUCTS LISTED ON DRAWINGS ARE BASIS OF DESIGN. SEE SPECIFICATIONS FOR EQUIVALENT MANUFACTURERS.
- N. THE PROJECT DESIGN SHOWN ON THE DRAWINGS AND SPECIFIC ITEMS REFERENCED IN THE SPECIFICATIONS IS IN COMPLIANCE WITH THE CODES AND ORDINANCES LISTED IN DIVISION 23 SPECIFICATIONS.
- O. PROVIDE SEISMIC ANCHORAGE AND BRACING FOR MECHANICAL EQUIPMENT, PIPING AND DUCTWORK. SEE "GENERAL SEISMIC NOTES" FOR DETAIL REQUIREMENTS.
- P. COORDINATE WITH DIVISION 26 CONTRACTOR FOR LOCATION OF POWER AND LOCAL DISCONNECTS FOR COMBINATION FIRE/SMOKE DAMPERS.
- Q. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE THE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- R. PREPARE SHOP DRAWINGS FOR INSTALLATION OF ALL NEW WORK BEFORE INSTALLATION TO VERIFY COORDINATION BETWEEN TRADES.
- S. KEEP CUTTING TO THE MINIMUM REQUIRED FOR PROPER EXECUTION OF WORK. BE RESPONSIBLE FOR ALL CUTTING AND PATCHING NECESSARY FOR THE COMPLETION OF WORK. NO CUTTING SHALL BE PERFORMED WITHOUT THE APPROVAL OF THE ARCHITECT.
- T. PROVIDE OFFSETS, ELBOWS AND TRANSITIONS IN DUCTWORK AND PIPING AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
- U. VERIFY ALL CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. PROVIDE TRANSITIONS FOR FINAL CONNECTION TO EQUIPMENT. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF WORK.
- V. VERIFY DIFFUSERS, GRILLES, AND REGISTER MOUNTING FRAME TYPES WITH CEILING TYPE AND CONFIGURATION.
- W. PROVIDE DUCT ACCESS DOORS FOR FIRE/SMOKE DAMPERS AND SMOKE DETECTORS.
- X. FLEXIBLE DUCT SHALL BE USED FOR DIFFUSER AND REGISTER PLACEMENT ONLY, IN LENGTHS OF 8 FT MAXIMUM.
- Y. PAINT FLAT BLACK THE INSIDE OF ALL DUCT WORK VISIBLE THROUGH DIFFUSERS, GRILLES, AND REGISTERS.
- Z. FIRE-SAFE PIPE AND DUCTWORK PENETRATIONS OF ALL FIRE RATED AND SMOKE RESISTIVE CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND DETAILS OF ALL PENETRATION AND FIRE-SAFING REQUIREMENTS.
- AA. INSTALL ALL EQUIPMENT LEVEL AND PLUMB. PROVIDE BLOCKING AND HARDWARE AS REQUIRED.
- AB. PROVIDE HANGER, SUPPORT AND SWAY BRACES FOR ALL DUCTWORK, PIPING AND EQUIPMENT AS REQUIRED BY THE LATEST EDITION OF THE SMACNA GUIDELINES.
- AC. DUCT SYSTEMS SHALL BE BALANCED TO CFM ON DRAWINGS. FANS SHALL BE FIELD TESTED TO PROVED COMPLIANCE WITH SCHEDULED FAN PERFORMANCE, AIR FLOW AT DESIGN STATIC PRESSURE.
- AD. ALL WORK AND MATERIALS SHALL BE IN COMPLIANCE WITH THE SPECIFICATIONS IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DRAWINGS AND THE SPECIFICATIONS, THE MOST STRINGENT SHALL GOVERN.
- AE. INSTALL ALL PIPING AND DUCTWORK TO BEST SUIT FIELD CONDITIONS AND COORDINATE WITH OTHER TRADES. THE DRAWINGS ARE DIAGRAMMATIC, AND SHALL NOT BE SCALED TO DETERMINE THE EXACT LOCATIONS OF THE PIPING OR DUCTWORK.
- AF. PROVIDE UNIONS OR FLANGES AT EACH SIDE OF CONTROL VALVES. EVERY PIPING ASSEMBLY SHALL BE MADE SUCH THAT EVERY VALVE AND EVERY PIECE OF EQUIPMENT IS EASILY REMOVABLE. WELDED OR SOLDERED-JOINT VALVES ARE EXEMPT FROM THIS REQUIREMENT.
- AG. PROVIDE 1-IN AIR GAP AT ALL DRAIN CONNECTIONS.
- AH. FLUSH HYDRONIC PIPING PER DISTRICT STANDARD PROCEDURE, INCLUDING: DISPERSE AN ALKALINE AGENT WITH PHOSPHATE INHIBITOR AND LET IT CIRCULATE FOR MINIMUM 48 HOURS, THEN THE LINE IS FLUSHED OUT WITH FRESH WATER AGAIN, THEN A CORROSION INHIBITOR IS ADDED. PERFORM INDUSTRIAL WATER TESTING. IF THE BACKBONE HAS BEEN STAGNANT FOR AN EXTENDED PERIOD, FURTHER CIRCULATION WITH THE ALKALINE AGENT MAY BE NEEDED, AS PER THE RESULTS OF THE TEST.

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- GENERAL NOTES**
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 2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicates drawings have been released for construction.
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REMARKS	DATE
ADDENDUM NO. 1	09/18/09

DRAWING STATUS <input type="checkbox"/> DSA PLAN CHECK <input type="checkbox"/> DSA BACK CHECK <input type="checkbox"/> BIDDING (BID #66593) <input type="checkbox"/> CONSTRUCTION	DATE 08/28/08 07/22/09 09/18/09
FILE NO. 41-C1 GENERATION STAMP DIV. OF THE STATE ARCHITECT 01- 110074 AC FLS SS DATE	

BUILDINGS 5 & 6
RENOVATIONS

San Mateo County Community
College District

BID ADDENDA

CAÑADA COLLEGE

4200 Farm Hill Boulevard
Redwood City, CA 94061

MECHANICAL LEGENDS,
NOTES, ABBREVIATIONS
AND DRAWING INDEX

Date 08/28/08	Drawing Number M0.1
Scale AS NOTED	Project Number 07013

TITLE 24 2005 MANDATORY MEASURES

CERTIFICATE OF COMPLIANCE (Part 1 of 2) MECH-1-C

PROJECT NAME: Canada College DATE: 8/26/2008

PROJECT ADDRESS: 4200 Farm Hill Boulevard Redwood City

PRINCIPAL DESIGNER - MECHANICAL: Interface Engineering Inc. TELEPHONE: 415-489-7240

DOCUMENTATION AUTHOR: INTERFACE ENGINEERING TELEPHONE: (916) 288-6200

GENERAL INFORMATION

DATE OF PLANS: 2008 BUILDING CONDITIONED FLOOR AREA: 32,695 sq. ft. CLIMATE ZONE: 3

BUILDING TYPE: NONRESIDENTIAL HIGH RISE RESIDENTIAL HOTEL/MOTEL/GUEST ROOM

PHASE OF CONSTRUCTION: NEW CONSTRUCTION ADDITION ALTERATION UNCONDITIONED (File Affidavit)

METHOD OF MECHANICAL COMPLIANCE: PRESCRIPTIVE PERFORMANCE

PROOF OF ENVELOPE COMPLIANCE PREVIOUS ENVELOPE PERMIT ENVELOPE COMPLIANCE ATTACHED

STATEMENT OF COMPLIANCE

This Certificate of Compliance lists the building features and performance specifications needed to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to building mechanical requirements.

The documentation preparer hereby certifies that the documentation is accurate and complete.

DOCUMENTATION AUTHOR: Omar Hawit SIGNATURE: [Signature] DATE: 1/21/09

The Principal Mechanical Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the mechanical requirements contained in the applicable parts of Sections 100, 101, 102, 110 through 115, 120 through 125, 142, 144, and 145.

The plans & specifications meet the requirements of Part 1 (Sections 100-103a).

The installation certificates meet the requirements of Part 1 (10-103a 3).

The operation & maintenance information meets the requirements of Part 1 (10-103c).

Please check ONE (These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)

I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer, or mechanical engineer or I am a licensed architect.

I affirm that I am eligible under the exemption to Division 3 of the Business and Professions Code by Section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.

I affirm that I am eligible under the exemption to Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described pursuant to Business and Professions Code sections 5537, 5538, and 6737.1.

PRINCIPAL MECHANICAL DESIGNER - NAME: Interface Engineering Inc. SIGNATURE: [Signature] DATE: 1/21/09 LIC. # 35761

INSTRUCTIONS TO APPLICANT

MECH-1-C: Certificate of Compliance, Part 1, 2, 3 of 3 are required on plans for all submittals.

MECH-2-C: Air/Water/Service/Water Pools Requirements, Part 1 of 3, 2 of 3, 3 of 3 are required for all submittals, but may be on plans.

MECH-3-C: Mechanical Ventilation and Reheat is required for all submittals with mechanical ventilation, but may be on plans.

MECH-4-C: HVAC Misc. Prescriptive Requirements is required for all prescriptive submittals, but may be on plans.

MECH-5-C: Mechanical Equipment Details are required for all performance submittals.

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CERTIFICATE OF COMPLIANCE (Part 2 of 2) MECH-1-C

PROJECT NAME: Canada College DATE: 8/26/2008

Designer: [Name]

This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for mechanical systems. The designer is required to check the boxes by all acceptance tests that apply and list all equipment that requires an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems to be tested in parentheses. The N1 number designates the Section in the Appendix of the Nonresidential ACM Manual that describes the test. Also indicate the person responsible for performing the tests (i.e. the installing contractor, design professional or an agent selected by the owner). Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

Building Departments:

SYSTEM ACCEPTANCE: Before an occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance.

In addition a Certificate of Acceptance, MECH-1-A Form shall be submitted to the building department that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of Section 10-103(b) and Title 24 Part 6.

STATEMENT OF COMPLIANCE

MECH-2-A: Ventilation System Acceptance Document
-Variable Air Volume Systems Outdoor Air Acceptance
-Constant Air Volume Systems Outdoor Air Acceptance
Equipment requiring acceptance testing: _____
Test required on all new systems both New Construction and Retrofit.

MECH-3-A: Packaged HVAC Systems Acceptance Document
Equipment requiring acceptance testing: _____
Test required on all new systems both New Construction and Retrofit. Units with economizers that are installed at the factory and certified with the commission do not require equipment testing but do require construction inspection.

MECH-4-A: Air-Side Economizer Acceptance Document
Equipment requiring acceptance testing: _____
Test required on all new systems both New Construction and Retrofit. Units with economizers that are installed at the factory and certified with the commission do not require equipment testing but do require construction inspection.

MECH-5-A: Air Distribution Acceptance Document
Equipment requiring acceptance testing: _____
This test required if the unit serves 1,000 SF of space or less and 25% or more of the ducts are in unconditioned or semi-conditioned space (i.e. attic). New systems that meet the above requirements. Retrofit systems that meet the above requirements and either return ducts, replace ducts or contain the ductwork out.

MECH-6-A: Demand Control Ventilation Acceptance Document
Equipment requiring acceptance testing: _____
All new DCV controls installed on new or existing packaged systems must be tested.

MECH-7-A: Supply Fan Variable Flow Control Acceptance Document
Equipment requiring acceptance testing: _____
All new VAV fan volume controls installed on new or existing systems must be tested.

MECH-8-A: Hydronic System Control Acceptance Document
-Variable Flow Controls: Applies to chilled and hot water systems.
-Automatic Isolation Controls: Applies to new boilers and chillers and the primary pumps are connected to a common header.
-Supply Water Temperature Reset Controls: Applies to new constant flow chilled and hot water systems that have a design capacity greater than or equal to 500,000 Btu/hr.
-Water-loop Heat Pump Controls: Applies to all new water-loop heat pump systems where the combined loop pumps are greater than 5 hp.
-Variable Frequency Controls: Applies to all new distribution pumps on new variable flow chilled water systems; heat pump or condenser water systems where the pump motors are greater than 5 hp.
Equipment requiring acceptance testing: _____
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ENVELOPE MANDATORY MEASURES

- 118(a) INSTALLED INSULATING MATERIAL SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL, TITLE 20, CHAPTER 4, ARTICLE 3.
- 118(c) ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF SECTIONS 2602 AND 707 OF TITLE 24, PART 2.
- 117(c) ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING THAT ARE OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED.
- 116(b) SITE CONSTRUCTED DOORS, WINDOWS AND SKYLIGHTS SHALL BE CAULKED BETWEEN THE UNIT AND THE BUILDING, AND SHALL BE WEATHERSTRIPPED (EXCEPT FOR UNFRAMED GLASS DOORS AND FIRE DOORS).
- 116(a)1 MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AIR INFILTRATION RATES NOT EXCEEDING THOSE SHOWN IN TABLE NUMBER 1-E, OF THE STANDARDS. MANUFACTURED PENETRATION PRODUCTS MUST BE LABELED FOR U-VALUE ACCORDING TO NFRC PROCEDURES.
- 118(a) DEMISING WALLS IN NONRESIDENTIAL BUILDINGS: THE OPAQUE PORTIONS OF FRAMED DEMISING WALLS IN NONRESIDENTIAL BUILDINGS SHALL HAVE INSULATION WITH AN INSTALLED R-VALUE OF NO LESS THAN R-11 BETWEEN FRAMING MEMBERS.

LIGHTING MANDATORY MEASURES

- 131(d)1 FOR EVERY FLOOR, ALL INTERIOR LIGHTING SYSTEMS SHALL BE EQUIPPED WITH A SEPARATE AUTOMATIC CONTROL TO SHUT OFF THE LIGHTING. THIS AUTOMATIC CONTROL SHALL MEET THE REQUIREMENTS OF SECTION 119 AND MAY BE AN OCCUPANCY SENSOR, AUTOMATIC TIME SWITCH, OR OTHER DEVICE CAPABLE OF AUTOMATICALLY SHUTTING OFF THE LIGHTING.
- 131(d)2 OVERRIDE FOR BUILDING LIGHTING SHUT-OFF: THE AUTOMATIC BUILDING SHUT-OFF SYSTEM IS PROVIDED WITH A MANUAL, ACCESSIBLE OVERRIDE SWITCH IN SIGHT OF THE LIGHTS. THE AREA OF OVERRIDE IS NOT TO EXCEED 5,000 SQUARE FEET.
- 119(h) AUTOMATIC CONTROL DEVICES CERTIFIED: ALL AUTOMATIC CONTROL DEVICES SPECIFIED ARE CERTIFIED, ALL ALTERNATE EQUIPMENT SHALL BE CERTIFIED AND INSTALLED AS DIRECTED BY THE MANUFACTURER.
- 111 FLUORESCENT BALLAST AND LUMINAIRES CERTIFIED: ALL FLUORESCENT FIXTURES SPECIFIED FOR THE PROJECT ARE CERTIFIED AND LISTED IN THE DIRECTORY. ALL INSTALLED FIXTURES SHALL BE CERTIFIED.
- 132 TANDEM WIRING FOR ONE AND THREE LAMP FLUORESCENT FIXTURES: ALL ONE AND THREE LAMP FLUORESCENT FIXTURES ARE TANDEM WIRED WITH TWO LAMP BALLASTS WHERE REQUIRED BY STANDARDS SECTION 132; OR ALL ONE AND THREE LAMP FLUORESCENT FIXTURES ARE SPECIFIED WITH ELECTRONIC HIGH-FREQUENCY BALLASTS AND ARE EXEMPT FROM TANDEM WIRING REQUIREMENTS.
- 131(a) INDIVIDUAL ROOM/AREA CONTROLS: EACH ROOM AND AREA IN THIS BUILDING IS EQUIPPED WITH A SEPARATE SWITCH OR OCCUPANCY SENSOR DEVICE FOR EACH AREA WITH FLOOR-TO-CEILING WALLS.
- 131(b) UNIFORM REDUCTION FOR INDIVIDUAL ROOMS: ALL ROOMS AND AREAS GREATER THAN 100 SQUARE FEET AND MORE THAN 0.8 WATTS PER SQUARE FOOT OF LIGHTING LOAD SHALL BE CONTROLLED WITH BI-LEVEL SWITCHING FOR UNIFORM REDUCTION OF LIGHTING WITHIN THE ROOM.
- 131(c) DAYLIGHT AREA CONTROL: ALL ROOMS WITH WINDOWS AND SKYLIGHTS THAT ARE GREATER THAN 250 SQUARE FEET AND THAT ALLOW FOR THE EFFECTIVE USE OF DAYLIGHT IN THE AREA SHALL HAVE 50% OF THE LAMPS IN EACH DAYLIGHT AREA CONTROLLED BY A SEPARATE SWITCH; OR THE EFFECTIVE USE OF DAYLIGHT CANNOT BE ACCOMPLISHED BECAUSE THE WINDOWS ARE CONTINUOUSLY SHADED BY A BUILDING ON THE ADJACENT LOT. DIAGRAM OF SHADING DURING DIFFERENT TIMES OF THE YEAR IS INCLUDED ON PLANS.
- 131(e) DISPLAY LIGHTING: DISPLAY LIGHTING SHALL BE SEPARATELY SWITCHED ON CIRCUITS THAT ARE 20 AMPS OR LESS.

MECHANICAL MANDATORY MEASURES

- 121(e) VENTILATION CONTROLS SHALL BE PROVIDED TO ALLOW OUTSIDE AIR DAMPERS OR DEVICES TO BE OPERATED AT THE VENTILATION RATES AS SPECIFIED ON THESE PLANS.
- 122(f) GRAVITY OR AUTOMATIC DAMPERS INTERLOCKED AND CLOSED ON FAN SHUTDOWN SHALL BE PROVIDED ON THE OUTSIDE AIR INTAKES AND DISCHARGES OF ALL SPACE CONDITIONING AND EXHAUST SYSTEMS.
- 122(f) ALL GRAVITY VENTILATING SYSTEMS SHALL BE PROVIDED WITH AUTOMATIC OR READILY ACCESSIBLE MANUALLY OPERATED DAMPERS IN ALL OPENINGS TO THE OUTSIDE, EXCEPT FOR COMBUSTION AIR OPENINGS.
- 121(f)1 AIR BALANCING: THE SYSTEM SHALL BE BALANCED IN ACCORDANCE WITH THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) PROCEDURAL STANDARDS (1983), OR ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS (1989); OR
- 121(f)2 OUTSIDE AIR CERTIFICATION: THE SYSTEM SHALL PROVIDE THE MINIMUM OUTSIDE AIR AS SHOWN ON THE MECHANICAL DRAWINGS, AND SHALL BE MEASURED AND CERTIFIED BY THE INSTALLING LICENSED C-20 MECHANICAL CONTRACTOR AND CERTIFIED BY (1) THE DESIGN MECHANICAL ENGINEER, (2) THE INSTALLING LICENSED C-20 MECHANICAL CONTRACTOR, OR (3) THE PERSON WITH OVERALL RESPONSIBILITY FOR THE DESIGN OF THE VENTILATION SYSTEM; OR
- 121(f)3 OUTSIDE AIR MEASUREMENT: THE SYSTEM SHALL BE EQUIPPED WITH A CALIBRATED LOCAL OR REMOTE DEVICE CAPABLE OF MEASURING THE QUANTITY OF OUTSIDE AIR ON A CONTINUOUS BASIS AND DISPLAYING THAT QUANTITY ON A READILY ACCESSIBLE DISPLAY DEVICE; OR
- 121(f)4 ANOTHER METHOD APPROVED BY THE COMMISSION.

SERVICE WATER HEATING SYSTEMS

- 113(b)2 IF A CIRCULATING HOT WATER SYSTEM IS INSTALLED, IT SHALL HAVE A CONTROL CAPABLE OF AUTOMATICALLY TURNING OFF THE CIRCULATING PUMP(S) WHEN HOT WATER IS NOT REQUIRED.
- 113(b)3B LAVATORIES IN RESTROOMS OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH CONTROLS TO LIMIT THE OUTLET TEMPERATURE TO 110 DEGREES F.
- 113(b)3C LAVATORIES IN RESTROOMS OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH ONE OF THE FOLLOWING:
 - OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.5 GALLONS PER MINUTE.
 - FOOT ACTUATED CONTROL VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.75 GALLONS PER MINUTE.
 - PROXIMITY SENSOR ACTUATED CONTROL VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.75 GALLONS PER MINUTE.
 - SELF-CLOSING VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 2.5 GALLONS PER MINUTE, AND 0.25 GALLONS/CYCLE (CIRCULATING SYSTEM).
 - SELF-CLOSING VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 2.5 GALLONS PER MINUTE, AND 0.50 GALLONS/CYCLE (NON-CIRCULATING SYSTEM).
 - SELF-CLOSING VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 2.5 GALLONS PER MINUTE, AND 0.75 GALLONS/CYCLE (FOOT SWITCHES AND PROXIMITY SENSOR CONTROLS).
- 111 ANY APPLIANCE FOR WHICH THERE IS A CALIFORNIA STANDARD ESTABLISHED IN THE APPLIANCE EFFICIENCY REGULATIONS WILL COMPLY WITH THE APPLICABLE STANDARD.
- 115(c) FAN TYPE CENTRAL FURNACES SHALL NOT HAVE A PILOT LIGHT.
- 123 PIPING, EXCEPT THAT CONVEYING FLUIDS AT TEMPERATURES BETWEEN 60 AND 105 DEGREES FAHRENHEIT, OR WITHIN HVAC EQUIPMENT, SHALL BE INSULATED IN ACCORDANCE WITH STANDARDS SECTION 123.
- 124 AIR HANDLING DUCT SYSTEMS SHALL BE INSTALLED AND INSULATED IN COMPLIANCE WITH SECTIONS 601, 603 AND 604 OF THE UNIFORM MECHANICAL CODE.
- 122(e) CONTROLS EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH ONE OF THE FOLLOWING:
 - 122(e)1A EACH SPACE CONDITIONING SYSTEM SERVING BUILDING TYPES SUCH AS OFFICES AND MANUFACTURING FACILITIES (AND ALL OTHERS NOT EXPLICITLY EXEMPT FROM THE REQUIREMENTS OF SECTION 112 (D)) SHALL BE INSTALLED WITH AN AUTOMATIC TIME SWITCH WITH AN ACCESSIBLE MANUAL OVERRIDE THAT ALLOWS OPERATION OF THE SYSTEM DURING OFF-HOURS FOR UP TO 4 HOURS. THE TIME SWITCH SHALL BE CAPABLE OF PROGRAMMING DIFFERENT SCHEDULES FOR WEEKDAYS AND WEEKENDS AND HAVE PROGRAM BACKUP CAPABILITIES THAT PREVENT THE LOSS OF THE DEVICE'S PROGRAM AND TIME SETTING FOR AT LEAST 10 HOURS IF POWER IS INTERRUPTED; OR
 - 122(e)1B AN OCCUPANCY SENSOR TO CONTROL THE OPERATING PERIOD OF THE SYSTEM; OR
 - 122(e)1C A 4-HOUR TIMER THAT CAN BE MANUALLY OPERATED TO CONTROL THE OPERATING PERIOD OF THE SYSTEM.
 - 122(e)2 EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT TEMPORARILY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN A SETBACK HEATING AND/OR A SETUP COOLING THERMOSTAT SETPOINT.
 - 122(g) EACH SPACE CONDITIONING SYSTEM SERVING MULTIPLE ZONES WITH A COMBINED CONDITIONED FLOOR AREA MORE THAN 25,000 SQUARE FEET SHALL BE PROVIDED WITH ISOLATION ZONES. EACH ZONE: SHALL NOT EXCEED 25,000 SQUARE FEET; SHALL BE OF HEATING OR COOLING TO BE SETBACK OR SHUT OFF INDEPENDENTLY OF OTHER ISOLATION AREAS; AND SHALL BE CONTROLLED BY A TIME CONTROL DEVICE AS DESCRIBED ABOVE.
 - 122(e&g) EACH SPACE CONDITIONING SYSTEM SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTAT CONTROL SHALL BE ADJUSTABLE DOWN TO 55 DEGREES F OR LOWER. FOR COOLING, THE CONTROL SHALL BE ADJUSTABLE UP TO 85 DEGREES F OR HIGHER. WHERE USED FOR BOTH HEATING AND COOLING, THE CONTROL SHALL BE CAPABLE OF PROVIDING A DEADBAND OF AT LEAST 5 DEGREES F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING IS SHUT OFF OR REDUCED TO A MINIMUM.
 - 122(c) THERMOSTATS SHALL HAVE NUMERIC SETPOINTS IN DEGREES FAHRENHEIT (F) AND ADJUSTABLE SETPOINT STOPS ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.
 - 112(b) HEAT PUMPS SHALL BE INSTALLED WITH CONTROLS TO PREVENT ELECTRIC RESISTANCE SUPPLEMENTARY HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT PUMP ALONE.

BCA

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ARCHITECT: [Signature] ENGINEER: [Signature]

REGISTERED ARCHITECT: [Signature] No. CD18459, Expires 09/30/09

REGISTERED PROFESSIONAL ENGINEER: [Signature] No. 000802, Exp. 12/31/2009

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REVISION HISTORY	REMARKS	DATE

DATE: _____

DESIGN STATUS:

DSA PLAN CHECK

DSA BACK CHECK

BIDDING (BID #86993)

CONSTRUCTION

FILE NO. 41-C1

IDENTIFICATION STAMP
DW. OF THE STATE ARCHITECT

01 - 110074

DATE: MAR 19 2008

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

DSA BACK-CHECK

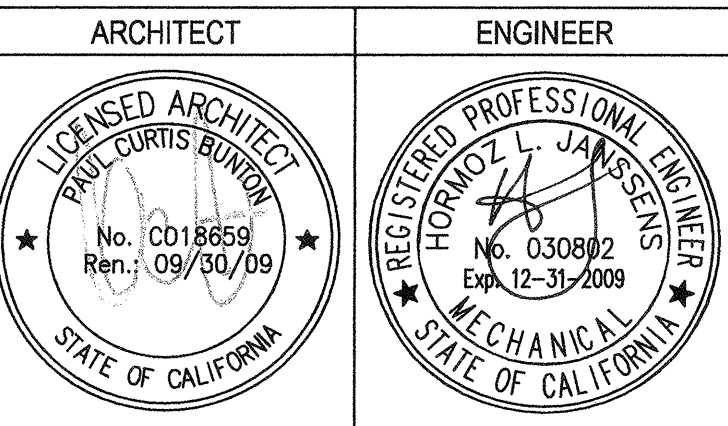
CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

T-24 MANDATORY MEASURES AND COMPLIANCE FORMS

Date: 01/22/09 Drawing Number: M0.2

Scale: AS NOTED

Project Number: 07013



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REMARKS DATE table with 10 rows and 2 columns.

REVISION HISTORY table with 10 rows and 2 columns.

FILE NO. 41-C1
IDENTIFICATION STAMP
DATE: MAR 19 2009

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

DSA BACK-CHECK

CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

TITLE 24 COMPLIANCE FORMS

AIR SYSTEM REQUIREMENTS Part 1 of 2 MECH-2-C

PROJECT NAME: Canada College DATE: 8/26/2008
SYSTEM NAME: AC-5.3 FLOOR AREA: 5,886

ITEM OR SYSTEM TAG(S) table with columns for AC-5.1, AC-5.2, AC-5.3.

MANDATORY MEASURES table with columns for Heating Equipment Efficiency, Cooling Equipment Efficiency, Heat Pump Thermostat, Furnace Controls, Natural Ventilation, Minimum Ventilation, VAV Minimum Position Control, Demand Control Ventilation, Time Control, Setback and Setup Control, Outdoor Damper Control, Isolation Zones, Pipe Insulation, Duct Insulation.

PRESCRIPTIVE MEASURES table with columns for Calculated Heating Capacity, Proposed Heating Capacity, Calculated Sensible Cooling Capacity, Proposed Sensible Cooling Capacity, Fan Control, DP Sensor Location, Supply Pressure Reset, Simultaneous Heat/Cool, Economizer, Heating Air Supply Reset, Cooling Air Supply Reset, Duct Sealing for Prescriptive Compliance.

NOTES TO FIELD - For Building Department Use Only

MECHANICAL VENTILATION MECH-3-C

PROJECT NAME: Canada College DATE: 8/26/2008

MECHANICAL VENTILATION (Section 121(b)(2)) table with columns for AREA BASIS, OCCUPANCY BASIS, VAV MINIMUM, ZONE/SYSTEM, and various room types like 10-Work Break, 11-Seminar, etc.

MECHANICAL SIZING AND FAN POWER MECH-4-C

PROJECT NAME: Canada College DATE: 8/26/2008
SYSTEM NAME: AC-5.1 FLOOR AREA: 9,190

FAN POWER CONSUMPTION table with columns for FAN DESCRIPTION, DESIGN BRAKE HP, EFFICIENCY, DRIVE, NUMBER OF FANS, PEAK WATTS.

FILTER PRESSURE ADJUSTMENT EQUATION table with columns for TOTAL FAN SYSTEM POWER, SUPPLY DESIGN AIRFLOW, TOTAL FAN SYSTEM POWER INDEX, SPa, Fan Adjustment, ADJUSTED FAN POWER INDEX.

ITEM or SYSTEM TAG(S) table with columns for PRESCRIPTIVE MEASURES, T-24 Section, Capacity, Exception, Notes.

MECHANICAL SIZING AND FAN POWER MECH-4-C

PROJECT NAME: Canada College DATE: 8/26/2008
SYSTEM NAME: AC-5.3 FLOOR AREA: 5,886

FAN POWER CONSUMPTION table with columns for FAN DESCRIPTION, DESIGN BRAKE HP, EFFICIENCY, DRIVE, NUMBER OF FANS, PEAK WATTS.

FILTER PRESSURE ADJUSTMENT EQUATION table with columns for TOTAL FAN SYSTEM POWER, SUPPLY DESIGN AIRFLOW, TOTAL FAN SYSTEM POWER INDEX, SPa, Fan Adjustment, ADJUSTED FAN POWER INDEX.

ITEM or SYSTEM TAG(S) table with columns for PRESCRIPTIVE MEASURES, T-24 Section, Capacity, Exception, Notes.

AIR SYSTEM REQUIREMENTS Part 1 of 2 MECH-2-C

PROJECT NAME: Canada College DATE: 8/26/2008
SYSTEM NAME: AC-6.1 FLOOR AREA: 10,570

ITEM OR SYSTEM TAG(S) table with columns for AC-6.1.

MANDATORY MEASURES table with columns for Heating Equipment Efficiency, Cooling Equipment Efficiency, Heat Pump Thermostat, Furnace Controls, Natural Ventilation, Minimum Ventilation, VAV Minimum Position Control, Demand Control Ventilation, Time Control, Setback and Setup Control, Outdoor Damper Control, Isolation Zones, Pipe Insulation, Duct Insulation.

PRESCRIPTIVE MEASURES table with columns for Calculated Heating Capacity, Proposed Heating Capacity, Calculated Sensible Cooling Capacity, Proposed Sensible Cooling Capacity, Fan Control, DP Sensor Location, Supply Pressure Reset, Simultaneous Heat/Cool, Economizer, Heating Air Supply Reset, Cooling Air Supply Reset, Duct Sealing for Prescriptive Compliance.

NOTES TO FIELD - For Building Department Use Only

MECHANICAL VENTILATION MECH-3-C

PROJECT NAME: Canada College DATE: 8/26/2008

MECHANICAL VENTILATION (Section 121(b)(2)) table with columns for AREA BASIS, OCCUPANCY BASIS, VAV MINIMUM, ZONE/SYSTEM, and various room types like 7-Waiting, Hall, Off., 8-Nurse Office, etc.

MECHANICAL SIZING AND FAN POWER MECH-4-C

PROJECT NAME: Canada College DATE: 8/26/2008
SYSTEM NAME: AC-5.2 FLOOR AREA: 7,049

FAN POWER CONSUMPTION table with columns for FAN DESCRIPTION, DESIGN BRAKE HP, EFFICIENCY, DRIVE, NUMBER OF FANS, PEAK WATTS.

FILTER PRESSURE ADJUSTMENT EQUATION table with columns for TOTAL FAN SYSTEM POWER, SUPPLY DESIGN AIRFLOW, TOTAL FAN SYSTEM POWER INDEX, SPa, Fan Adjustment, ADJUSTED FAN POWER INDEX.

ITEM or SYSTEM TAG(S) table with columns for PRESCRIPTIVE MEASURES, T-24 Section, Capacity, Exception, Notes.

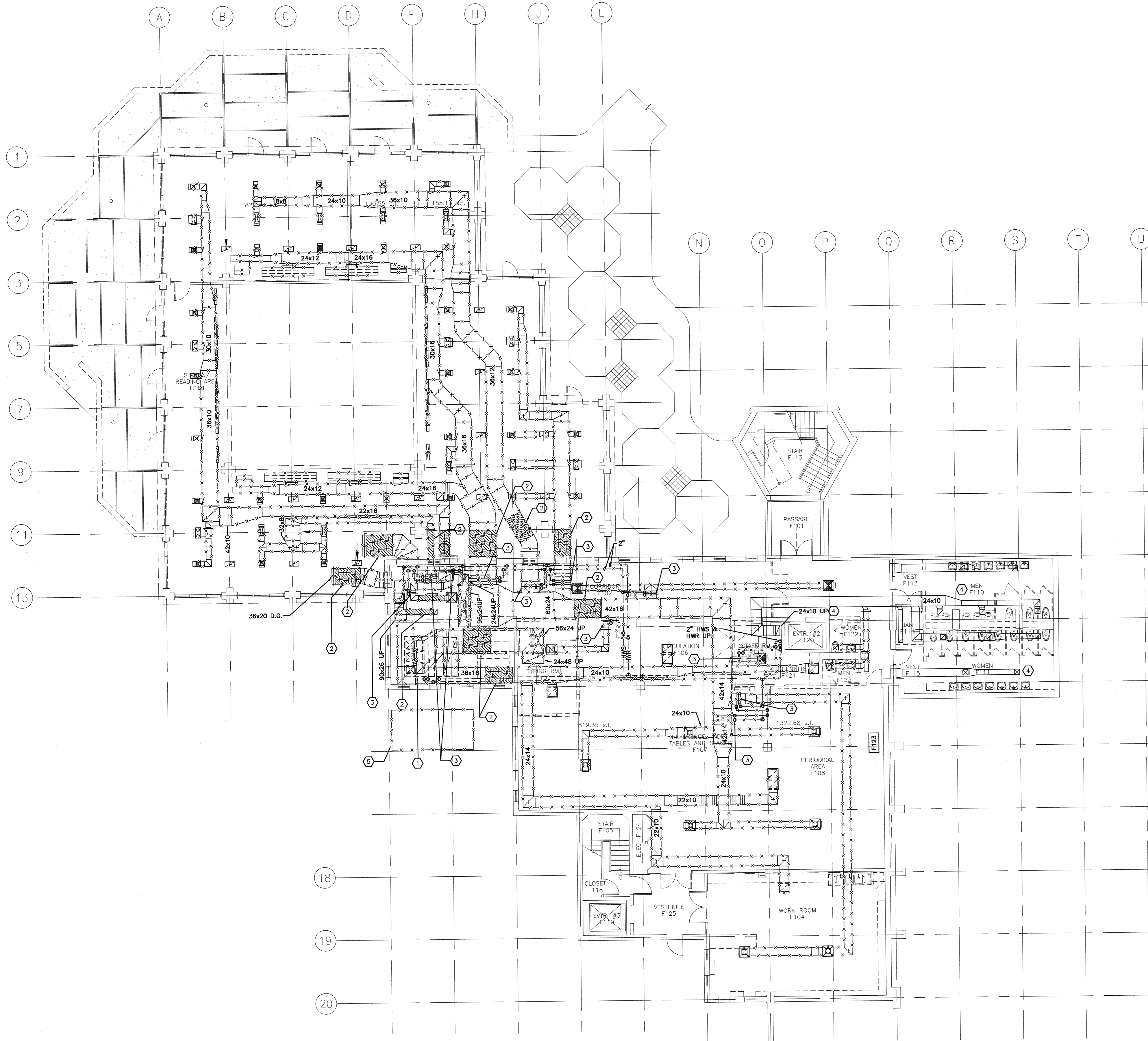
MECHANICAL SIZING AND FAN POWER MECH-4-C

PROJECT NAME: Canada College DATE: 8/26/2008
SYSTEM NAME: AC-6.1 FLOOR AREA: 10,570

FAN POWER CONSUMPTION table with columns for FAN DESCRIPTION, DESIGN BRAKE HP, EFFICIENCY, DRIVE, NUMBER OF FANS, PEAK WATTS.

FILTER PRESSURE ADJUSTMENT EQUATION table with columns for TOTAL FAN SYSTEM POWER, SUPPLY DESIGN AIRFLOW, TOTAL FAN SYSTEM POWER INDEX, SPa, Fan Adjustment, ADJUSTED FAN POWER INDEX.

ITEM or SYSTEM TAG(S) table with columns for PRESCRIPTIVE MEASURES, T-24 Section, Capacity, Exception, Notes.



1 MECHANICAL DEMOLITION PLAN - FIRST FLOOR
 SCALE: 1/8"=1'-0"

GENERAL SHEET NOTES

- A. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE ARCHITECT AND THE COLLEGE PRIOR TO COMMENCEMENT OF WORK.
- B. REMOVE ALL EXISTING MATERIALS CONFLICTING WITH REMODEL WORK INDICATED IN CONSTRUCTION DOCUMENTS AND SUBJECT TO THE CONDITIONS INDICATED.
- C. VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING WITH THE WORK.
- D. CONTRACTOR TO OBTAIN COPY OF EXISTING RECORD DRAWINGS PRIOR TO BID.
- E. REMOVE ALL EXISTING THERMOSTATS AND WIRING.

SHEET KEY NOTES

- 1 DEMOLISH EXISTING AIR HANDLING UNIT AND REMOVE ALL ASSOCIATED APPURTENANCES.
- 2 DEMOLISH EXISTING SOUND ATTENUATOR.
- 3 DEMOLISH EXISTING HEATING COIL, HEATING HOT WATER PIPING, VALVES & OTHER APPURTENANCES.
- 4 EXHAUST DUCTING AND TRANSFER AIR DUCTING SERVING THE TOILET ROOMS SHALL REMAIN. DEMOLISH EXISTING DIFFUSERS.
- 5 REMOVE EXISTING AIR COOLED CHILLER.



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ENGINEER: INTERFA

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REMARKS	DATE
ADDENDUM NO. 1	09/18/09

ISSUANCE STATUS	DATE
● USA PLAN CHECK	08/20/08
● USA BACK CHECK	01/22/09
● BIDDING (BID #08030)	09/18/09
○ CONSTRUCTION	

FILE NO. 41-C1

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

BID ADDENDA

CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

MECHANICAL
DEMOLITION PLAN
FIRST FLOOR

Date 08/29/08
Scale AS NOTED
Project Number 07013

Drawing Number **MD1.1**

PROJECT 2007-0731
CONTACT Omar Hawit

INTERFACE
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Ren.: 09/30/11
STATE OF CALIFORNIA

ENGINEER: **ANTHONY L. JAMES**
REGISTERED PROFESSIONAL ENGINEER
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Exp. 12-31-2010
STATE OF CALIFORNIA

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REMARKS	DATE
ADDENDUM NO. 1	09/18/09

DRAWING STATUS	DATE
● DSA PLAN CHECK	08/28/08
● DSA BACK CHECK	01/22/09
● BIDDING (BID #88593)	09/18/09
○ CONSTRUCTION	

FILE NO. 41-C1

SEAL OF THE STATE ARCHITECT

01-110074

AC FLS SS

DATE

**BUILDINGS 5 & 6
RENOVATIONS**

San Mateo County Community
College District

BID ADDENDA

CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

MECHANICAL
DEMOLITION PLAN
SECOND FLOOR

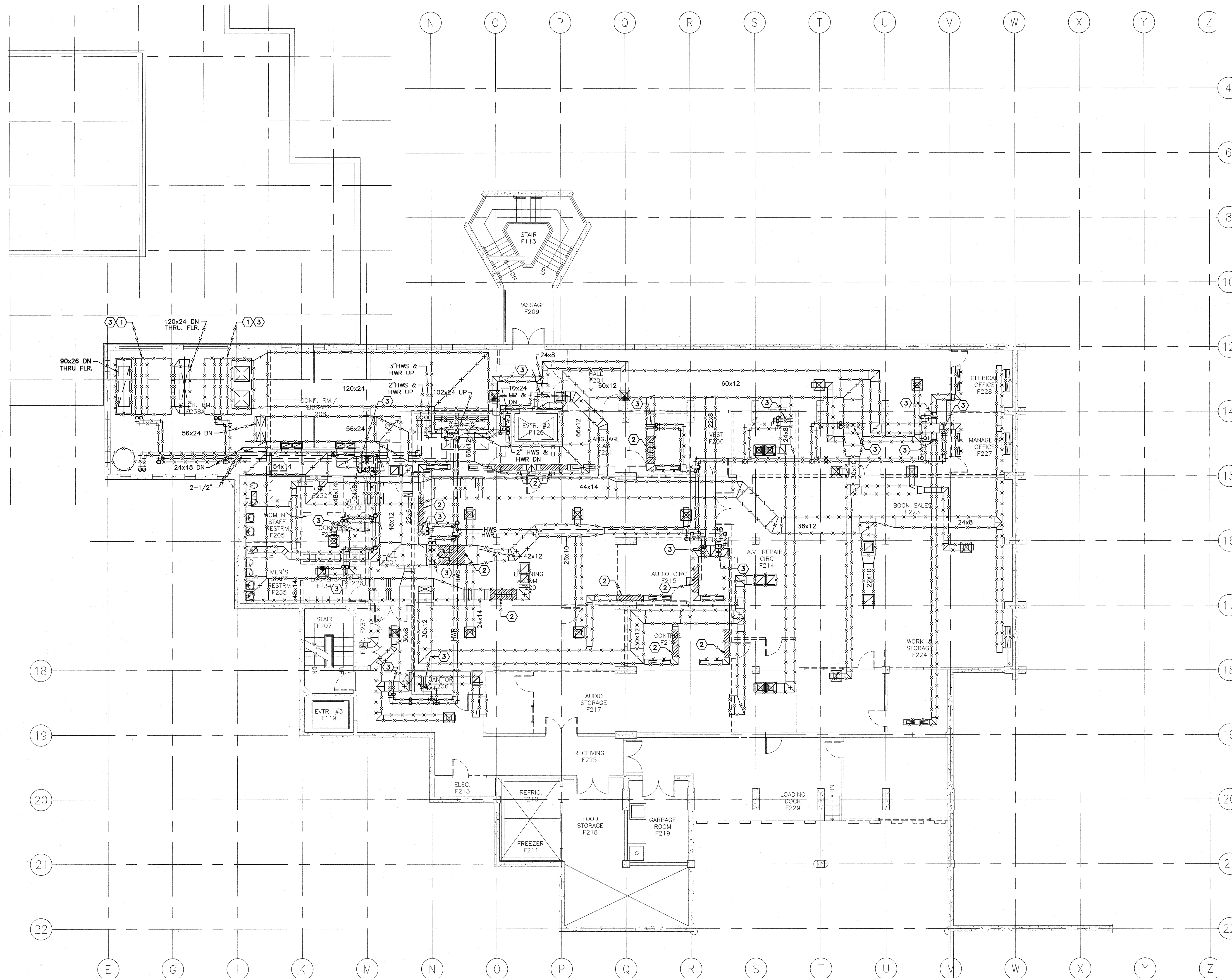
Date 08/28/08
Drawing Number MD1.2
Scale AS NOTED
Project Number 07013

GENERAL SHEET NOTES

- A. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE ARCHITECT AND THE COLLEGE PRIOR TO COMMENCEMENT OF WORK.
- B. REMOVE ALL EXISTING MATERIALS CONFLICTING WITH REMODEL WORK INDICATED IN CONSTRUCTION DOCUMENTS AND SUBJECT TO THE CONDITIONS INDICATED.
- C. VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING WITH THE WORK.
- D. CONTRACTOR TO OBTAIN COPY OF EXISTING RECORD DRAWINGS PRIOR TO BID.
- E. REMOVE ALL EXISTING THERMOSTATS AND WIRING.

SHEET KEY NOTES

- 1 DEMOLISH EXISTING AIR HANDLING UNIT AND REMOVE ALL ASSOCIATED APPURTENANCES.
- 2 DEMOLISH EXISTING SOUND ATTENUATOR.
- 3 DEMOLISH EXISTING HEATING COIL, HEATING HOT WATER PIPING, VALVES & OTHER APPURTENANCES.



1 MECHANICAL DEMOLITION PLAN - SECOND FLOOR

0 4' 8' 16'

SCALE: 1/8"=1'-0"

REMARKS	DATE
ADDENDUM NO. 1	08/18/09

DRAWING STATUS	DATE
DSA PLAN CHECK	08/29/08
DSA BACK CHECK	01/22/09
BIDDING (S&B #6050)	08/18/09
CONSTRUCTION	

FILE NO. 41-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

01- 110074

AC. _____
FLS. _____
DATE _____

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community
College District

BID ADDENDA

CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

MECHANICAL
DEMOLITION PLAN
THIRD FLOOR

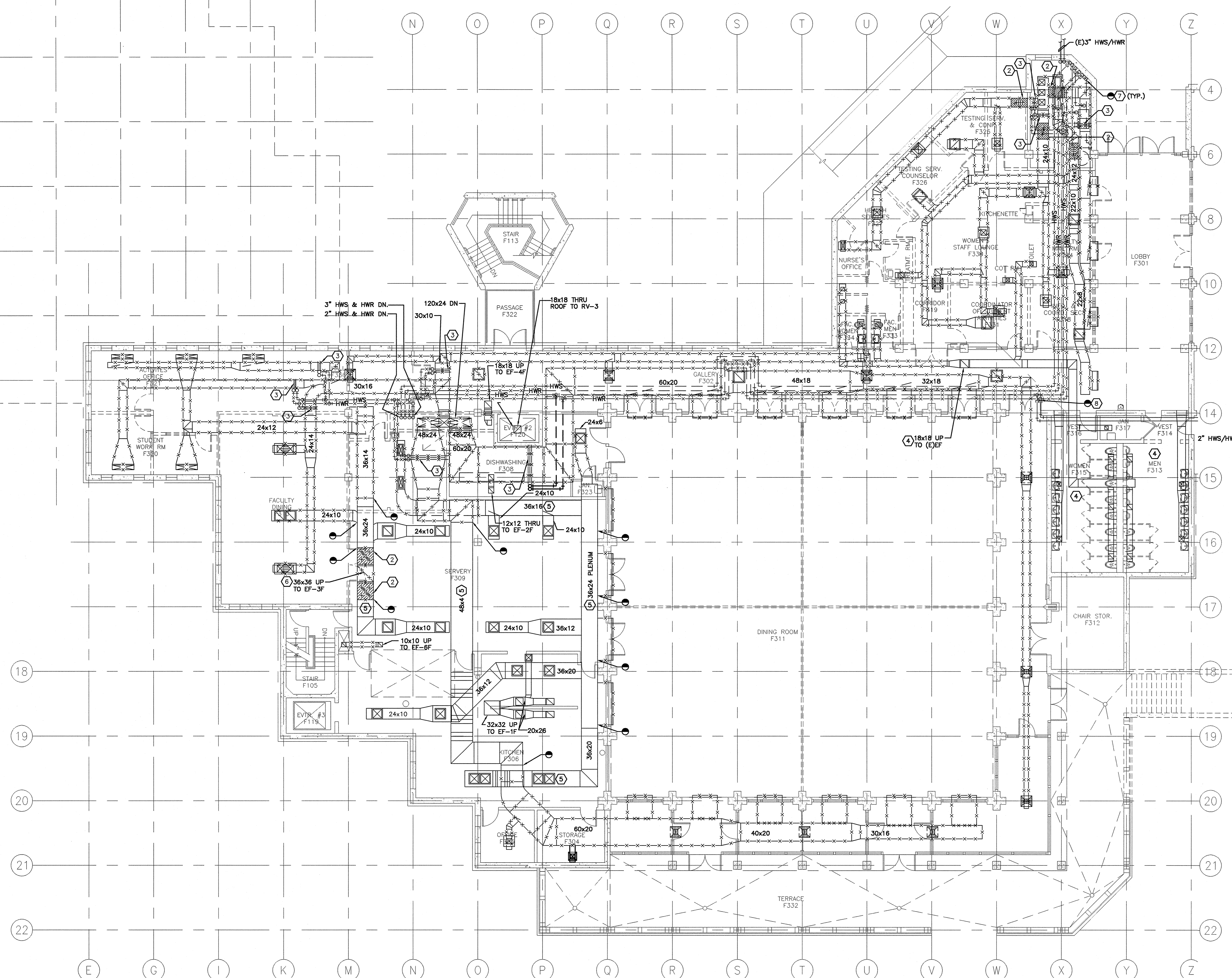
Date 08/29/08
Drawing Number MD1.3
Scale AS NOTED
Project Number 07013

GENERAL SHEET NOTES

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- REMOVE ALL EXISTING MATERIALS CONFLICTING WITH REMODEL WORK INDICATED IN CONSTRUCTION DOCUMENTS AND SUBJECT TO THE CONDITIONS INDICATED.
- VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING WITH THE WORK.
- CONTRACTOR TO OBTAIN COPY OF EXISTING RECORD DRAWINGS PRIOR TO BID.
- REMOVE ALL EXISTING THERMOSTATS AND WIRING.

SHEET KEY NOTES

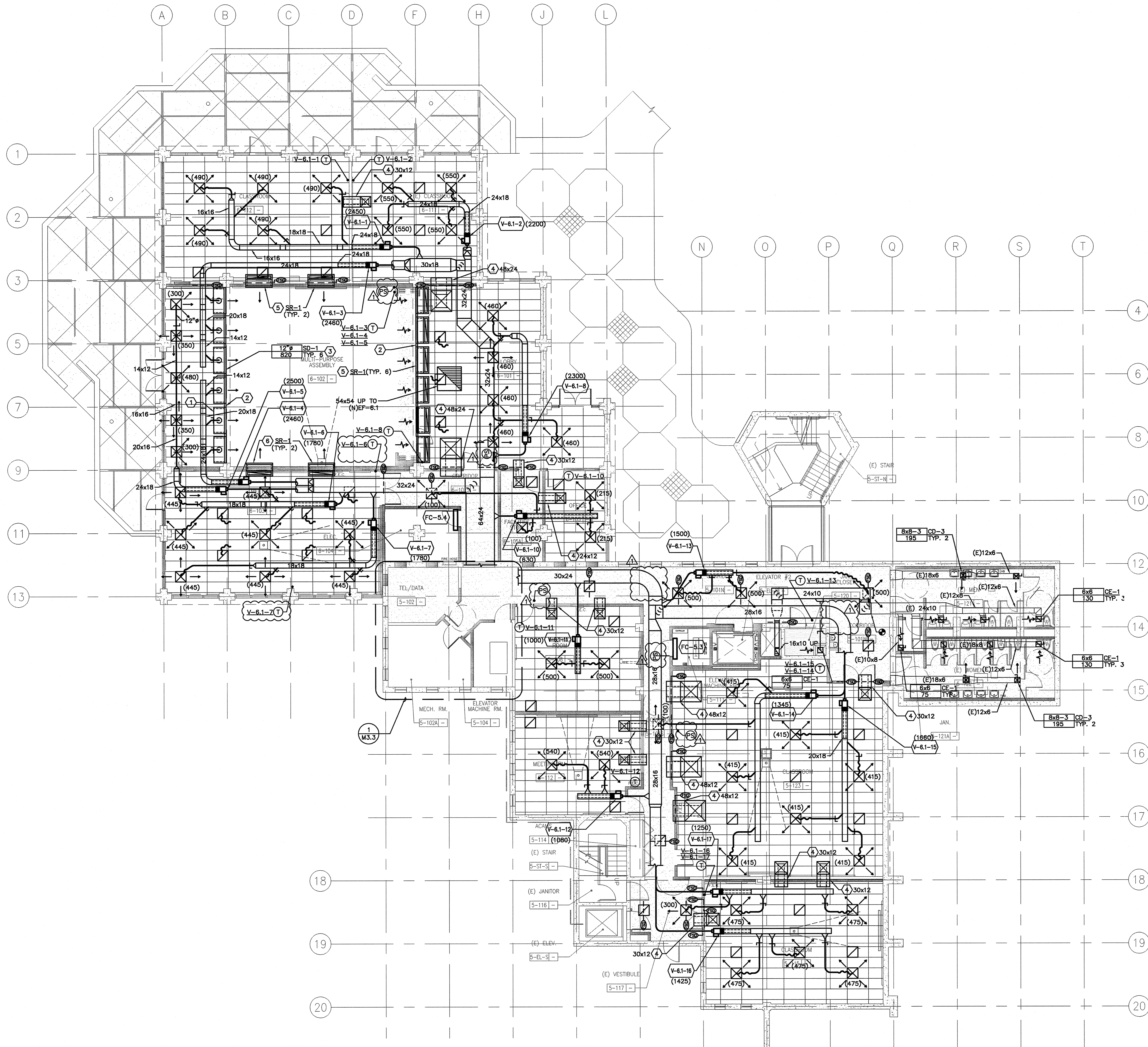
- DEMOLISH EXISTING AIR HANDLING UNIT AND REMOVE ALL ASSOCIATED APPURTENANCES.
- DEMOLISH EXISTING SOUND ATTENUATOR.
- DEMOLISH EXISTING HEATING COIL.
- EXHAUST DUCTING AND TRANSFER AIR DUCTING SERVING THE TOILET ROOMS SHALL REMAIN. DEMOLISH EXISTING DIFFUSERS.
- EXHAUST DUCTING AND TRANSFER AIR DUCTING SERVING THE KITCHEN AND SERVERY SHALL REMAIN.
- DEMOLISH EXISTING 36X36 EXHAUST RISER ALL THE WAY UP THROUGH ROOF TO EXISTING EF-5.3 TO BE REMOVED.
- DEMOLISH ALL EXISTING HEATING HOT WATER PIPING IN MECHANICAL ROOM UP TO RISERS AND CAP FOR CONNECTION TO IN NEW WORK.
- CAP EXISTING HEATING HOT WATER PIPING TO REMAIN AT THIS POINT FOR CONNECTION TO IN NEW WORK.



1 MECHANICAL DEMO PLAN - THIRD FLOOR

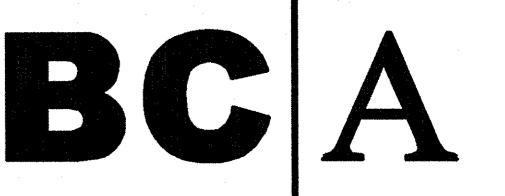
0 4' 8' 16'

SCALE: 1/8"=1'-0"



SHEET KEYNOTES

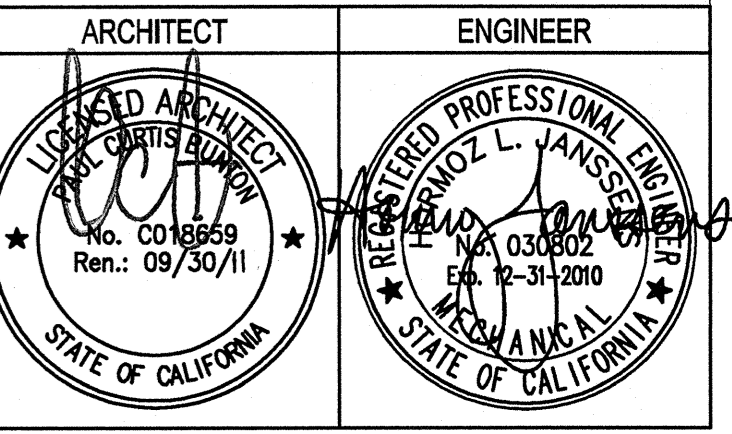
- ① CONTRACTOR SHALL PROVIDE FULL SIZE PLENUM, 24" DEEP FROM FACE OF DIFFUSER.
- ② PROVIDE INACTIVE SECTIONS OF SD-1 BETWEEN ACTIVE SECTIONS OF DIFFUSER TO ACHIEVE A CONTINUOUS LENGTH.
- ③ ACTIVE LENGTH OF SUPPLY DIFFUSER IS 5'-0" LONG. PROVIDE FULL SIZE ACOUSTICALLY LINED PLENUM 2 FEET DEEP FROM DIFFUSER FACE.
- ④ ACOUSTIC TRANSFER AIR BOOT. SEE DETAIL 8/M601.
- ⑤ ACTIVE LENGTH OF TRANSFER AIR REGISTER IS 5'-0" LONG. PROVIDE FULL LENGTH ACOUSTIC TRANSFER AIR BOOT. SEE DETAIL 8/M601.



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PROJECT 2007-0731
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REVISION HISTORY	REMARKS	DATE
▲	ADDENDUM NO. 1	09/18/09
▲		
▲		
▲		
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DRAWING STATUS	DATE
● DSA PLAN CHECK	08/28/08
● DSA BACK CHECK	01/22/09
● BIDDING (RFD #29565)	09/18/09
○ CONSTRUCTION	

FILE NO. 41-C1
GENERATION STAMP
DIV. OF THE STATE ARCHITECT
01-110074
AC FLS SS
DATE

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

BID ADDENDA

CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

MECHANICAL
DUCTWORK PLAN
FIRST FLOOR

SUPPLY DIFFUSER SIZING TABLE		
TAG	NECK SIZE	CFM RANGE
CD-1	8"	0-210
CD-1	10"	211-325
CD-1	12"	326-425
CD-1	14"	426-560
CD-1	16"	551-710

RETURN/EXHAUST REGISTER SIZING TABLE		
TAG	NECK SIZE	CFM RANGE
CR-1	8"	0-175
CR-1	10"	176-275
CR-1	12"	276-400
CR-1	14"	400-540
CR-1	16"	540-700

NOTES:
1. ALL 24x24 CEILING SUPPLY DIFFUSERS SHALL BE OF TYPE CD-1 UNLESS OTHERWISE NOTED.
2. ALL BRANCH DUCTWORK SHALL BE THE SAME SIZE AS THE DIFFUSER NECK SIZE UNLESS OTHERWISE NOTED.
3. SEE DETAIL 5/M6.2.
4. SEE DIFFUSER, GRILLE AND REGISTER SCHEDULE ON SHEET M4.1.

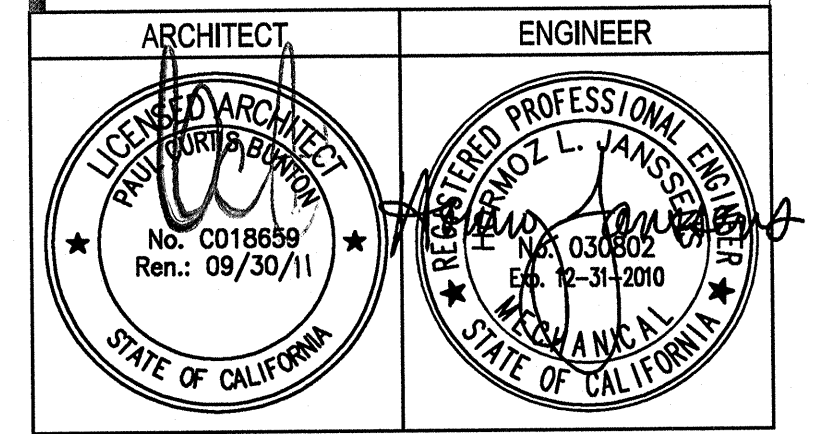
NOTES:
1. ALL CEILING 24X24 RETURN/EXHAUST REGISTERS SHALL BE OF TYPE CR-1 UNLESS OTHERWISE NOTED.
2. ALL BRANCH DUCTWORK SHALL BE THE SAME SIZE AS THE REGISTER NECK SIZE UNLESS OTHERWISE NOTED.
3. SEE DETAIL 5/M6.2.
4. SEE DIFFUSER, GRILLE AND REGISTER SCHEDULE ON SHEET M4.1.

1 MECHANICAL DUCTWORK PLAN - FIRST FLOOR
0 4' 8' 16'
SCALE: 1/8"=1'-0"

SHEET KEYNOTES
 ① ACOUSTIC TRANSFER AIR BOOT. SEE DETAIL 5/M601.

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REMARKS	DATE
ADDENDUM NO. 1	08/18/09

REVISION	DATE

ISSUANCE	DATE
DSA PLAN CHECK	08/28/08
DSA BACK CHECK	01/22/09
BIDDING (IMP #8899)	09/18/09
CONSTRUCTION	

FILE NO. 41-C1



BUILDINGS 5 & 6 RENOVATIONS

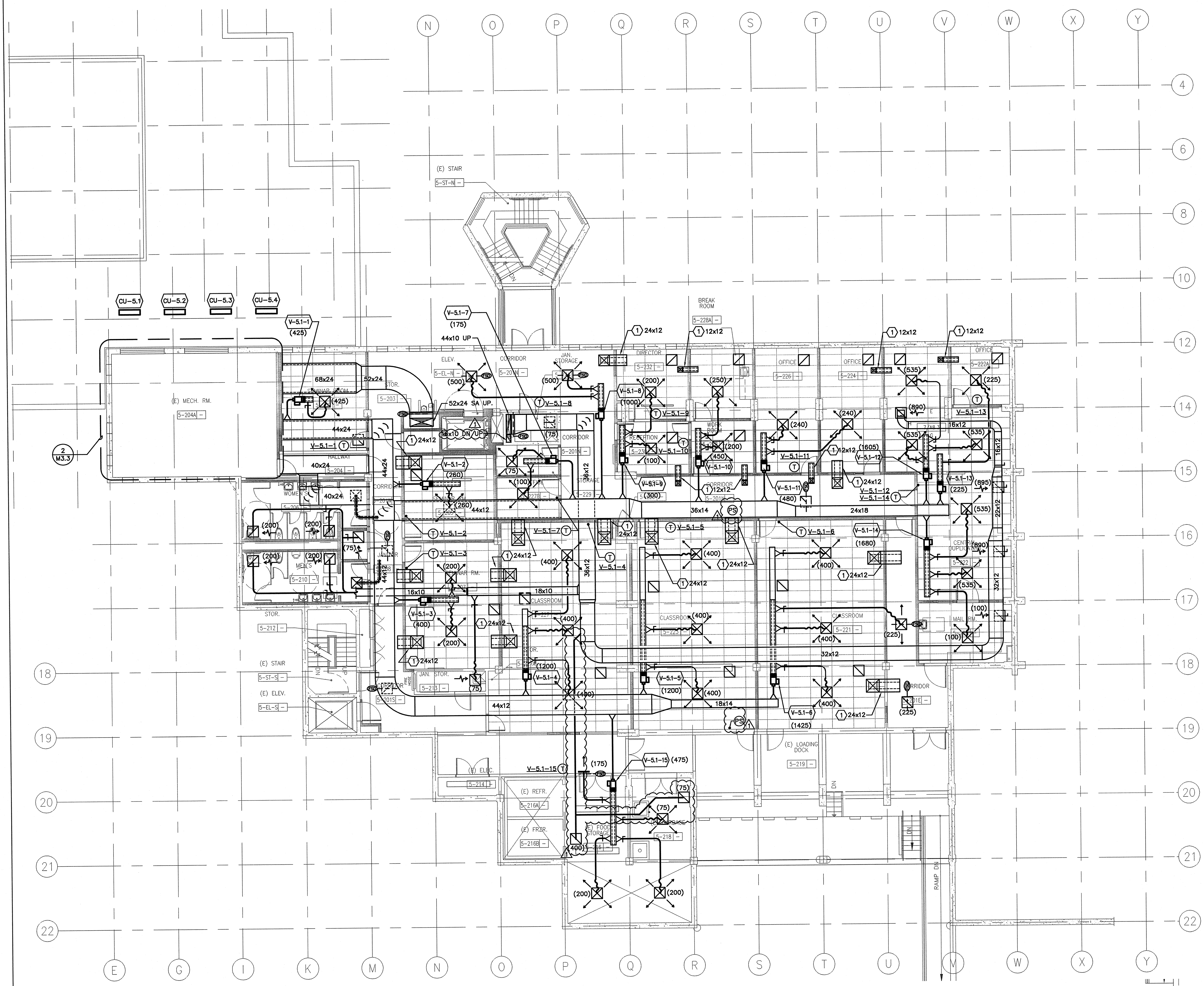
San Mateo County Community College District

BID ADDENDA

CAÑADA COLLEGE
 4200 Farm Hill Boulevard
 Redwood City, CA 94061

MECHANICAL
 DUCTWORK PLAN
 SECOND FLOOR

Date 08/29/08
 Scale AS NOTED
 Project Number 07013
 Drawing Number **M2.2d**



SUPPLY DIFFUSER SIZING TABLE

TAG	NECK SIZE	CFM RANGE
CD-1	8"	0-210
CD-1	10"	211-325
CD-1	12"	326-425
CD-1	14"	426-560
CD-1	16"	561-710

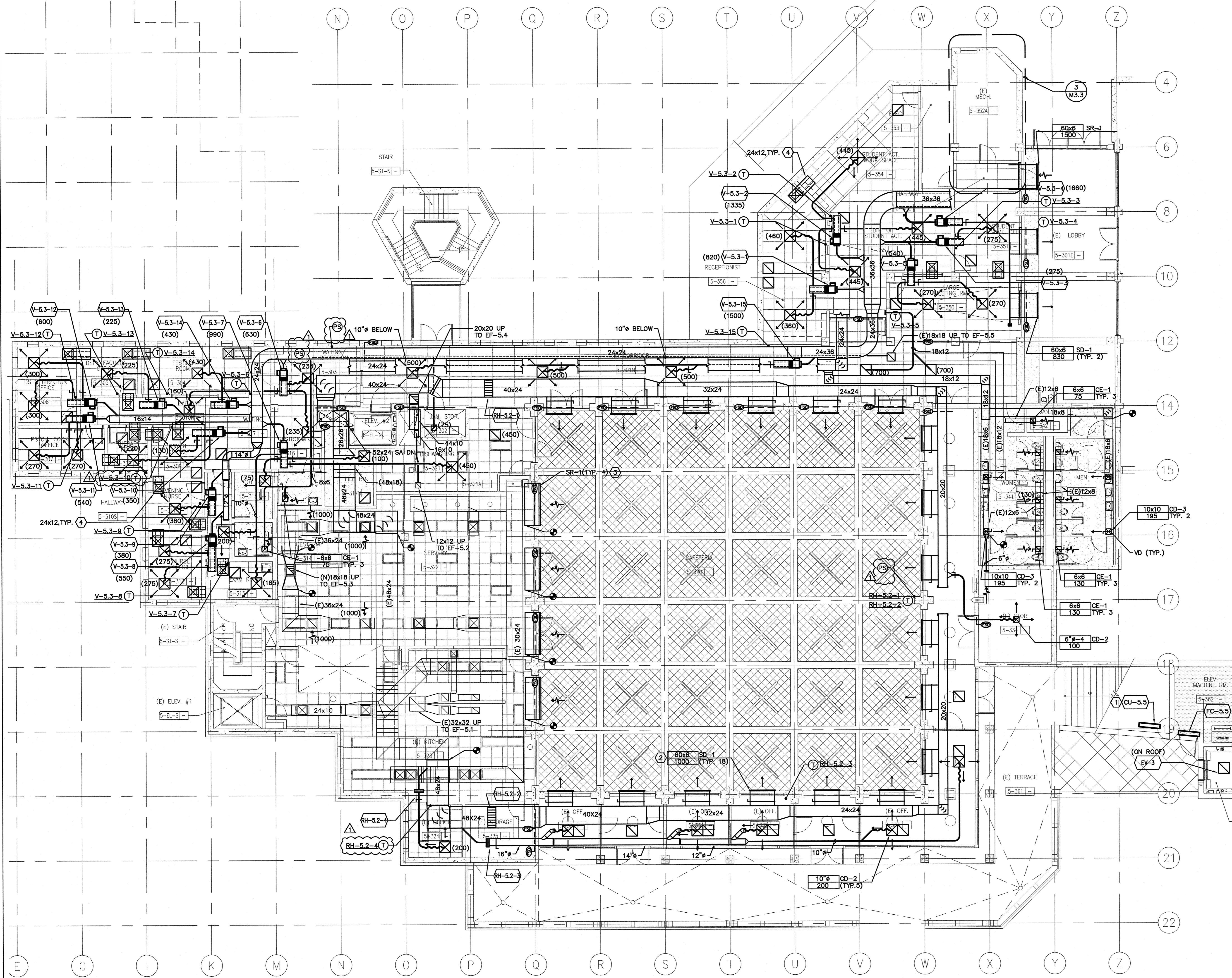
RETURN/EXHAUST REGISTER SIZING TABLE

TAG	NECK SIZE	CFM RANGE
CR-1	8"	0-175
CR-1	10"	176-275
CR-1	12"	276-400
CR-1	14"	401-540
CR-1	16"	541-700

NOTES:
 1. ALL 24x24 CEILING SUPPLY DIFFUSERS SHALL BE OF TYPE CD-1 UNLESS OTHERWISE NOTED.
 2. ALL BRANCH DUCTWORK SHALL BE THE SAME SIZE AS THE DIFFUSER NECK SIZE UNLESS OTHERWISE NOTED.
 3. SEE DETAIL 5/M6.2.
 4. SEE DIFFUSER, GRILLE AND REGISTER SCHEDULE ON SHEET M4.1.

NOTES:
 1. ALL CEILING 24x24 RETURN/EXHAUST REGISTERS SHALL BE OF TYPE CR-1 UNLESS OTHERWISE NOTED.
 2. ALL BRANCH DUCTWORK SHALL BE THE SAME SIZE AS THE REGISTER NECK SIZE UNLESS OTHERWISE NOTED.
 3. SEE DETAIL 5/M6.2.
 4. SEE DIFFUSER, GRILLE AND REGISTER SCHEDULE ON SHEET M4.1.

1 MECHANICAL DUCTWORK PLAN - SECOND FLOOR
 SCALE: 1/8"=1'-0"



1 MECHANICAL DUCTWORK PLAN - THIRD FLOOR
 SCALE: 1/8"=1'-0"

SHEET KEYNOTES

1. LOCATE CONDENSING UNIT IN LOUVERED ROOM BENEATH STAIRWELL. REFER TO ARCHITECTURAL DRAWINGS.
2. ACTIVE LENGTH OF SUPPLY DIFFUSER IS 5'-0" LONG. PROVIDE FULL SIZE ACOUSTICALLY LINED PLENUM 2 FEET DEEP FROM DIFFUSER FACE. ENLARGE EXISTING OPENINGS AS REQUIRED.
3. ACTIVE LENGTH OF RETURN GRILLE IS 8'-0" LONG. ENLARGE EXISTING OPENINGS AS REQUIRED. TIE INTO EXISTING TRANSFER AIR PLENUM.
4. ACOUSTIC TRANSFER AIR BOOT. SEE DETAIL 8/M601.

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ARCHITECT: [Stamp]
 ENGINEER: [Stamp]

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REVISION	DATE
ADDENDUM NO. 1	09/18/09

ISSUANCE STATUS	DATE
DISA PLAN CHECK	08/28/08
DISA BACK CHECK	01/22/09
ISSUING (BID #68993)	09/18/09
CONSTRUCTION	

FILE NO. 41-C1

IDENTIFICATION STAMP
 OF THE STATE ARCHITECT

01-110074

AC: _____ FL: _____ SS: _____
 DATE: _____

**BUILDINGS 5 & 6
 RENOVATIONS**
 San Mateo County Community
 College District

BID ADDENDA

CAÑADA COLLEGE
 4200 Farm Hill Boulevard
 Redwood City, CA 94061

MECHANICAL
 DUCTWORK PLAN
 THIRD FLOOR

Date: 08/29/08
 Scale: AS NOTED
 Project Number: 07013

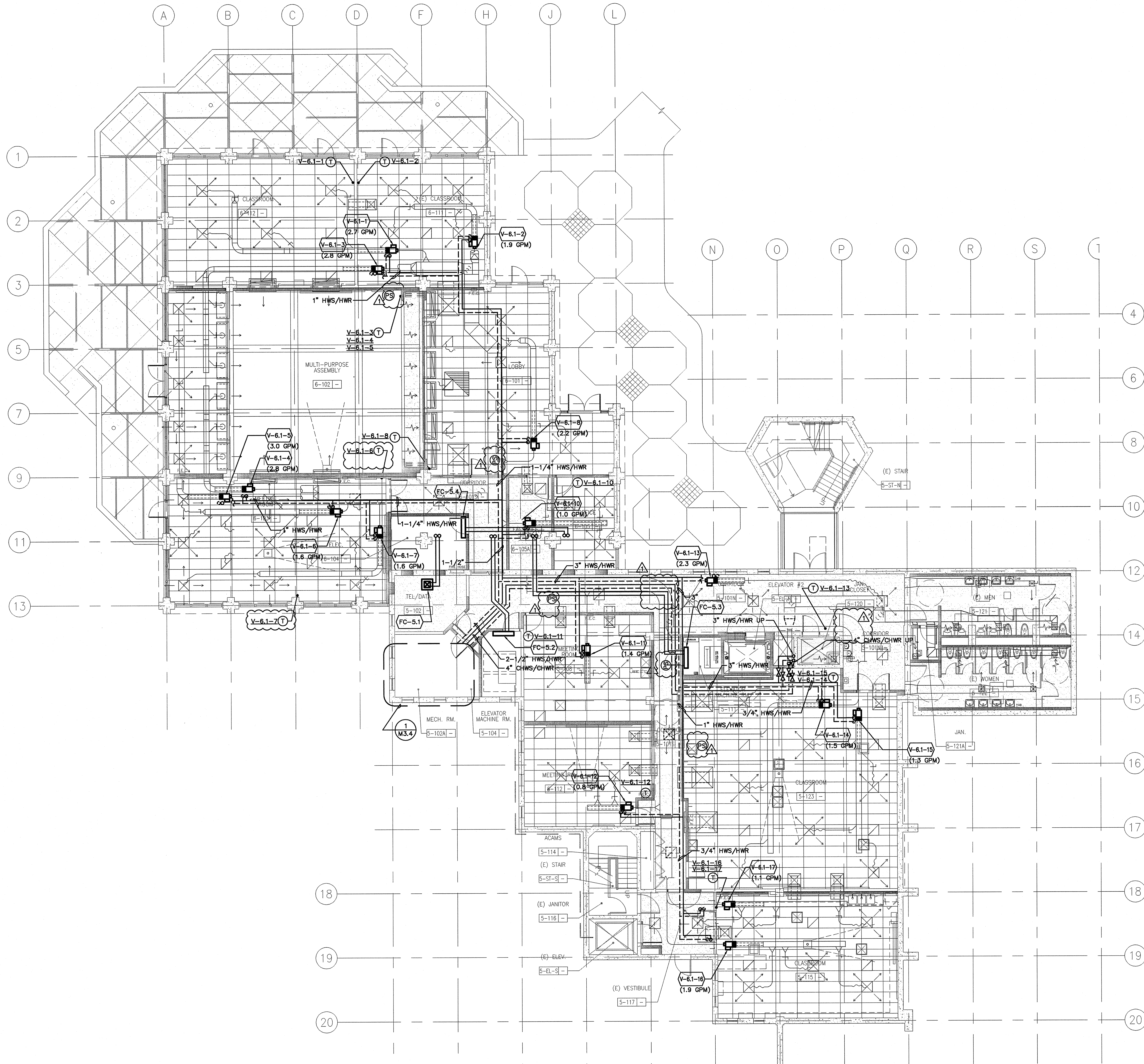
Drawing Number: **M2.3d**

SUPPLY DIFFUSER SIZING TABLE			RETURN/EXHAUST REGISTER SIZING TABLE		
TAG	NECK SIZE	CFM RANGE	TAG	NECK SIZE	CFM RANGE
CD-1	8"	0-210	CR-1	8"	0-175
CD-1	10"	211-325	CR-1	10"	176-275
CD-1	12"	326-425	CR-1	12"	275-400
CD-1	14"	426-560	CR-1	14"	400-540
CD-1	16"	561-710	CR-1	16"	540-700

NOTES:
 1. ALL 24x24 CEILING SUPPLY DIFFUSERS SHALL BE OF TYPE CD-1 UNLESS OTHERWISE NOTED.
 2. ALL BRANCH DUCTWORK SHALL BE THE SAME SIZE AS THE DIFFUSER NECK SIZE UNLESS OTHERWISE NOTED.
 3. SEE DETAIL 5/M6.2.
 4. SEE DIFFUSER, GRILLE AND REGISTER SCHEDULE ON SHEET M4.1.

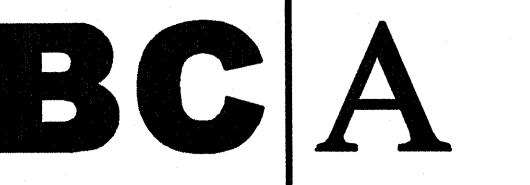
RETURN/EXHAUST REGISTER SIZING TABLE		
TAG	NECK SIZE	CFM RANGE
CR-1	8"	0-175
CR-1	10"	176-275
CR-1	12"	275-400
CR-1	14"	400-540
CR-1	16"	540-700

NOTES:
 1. ALL CEILING 24x24 RETURN/EXHAUST REGISTERS SHALL BE OF TYPE CR-1 UNLESS OTHERWISE NOTED.
 2. ALL BRANCH DUCTWORK SHALL BE THE SAME SIZE AS THE REGISTER NECK SIZE UNLESS OTHERWISE NOTED.
 3. SEE DETAIL 5/M6.2.
 4. SEE DIFFUSER, GRILLE AND REGISTER SCHEDULE ON SHEET M4.1.



GENERAL SHEET NOTES

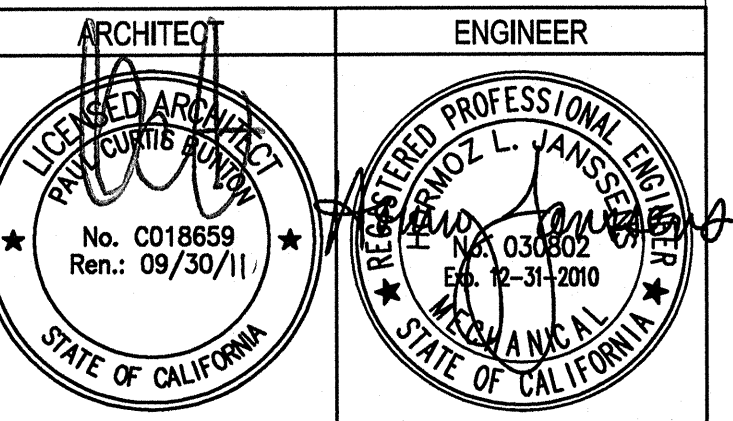
A. FOR VAV PIPING AND VALVE ARRANGEMENT, SEE DETAIL 3 ON SHEET M601.



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REVISION	DATE
ADDENDUM NO. 1	08/18/08

DRAWING STATUS	DATE
DISA PLAN CHECK	08/28/08
DISA BACK CHECK	01/22/09
BIDDING (BID #26550)	08/18/09
CONSTRUCTION	

FILE NO. 41-C1
GENERATION STAMP
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DATE

**BUILDINGS 5 & 6
RENOVATIONS**

San Mateo County Community
College District

BID ADDENDA

CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

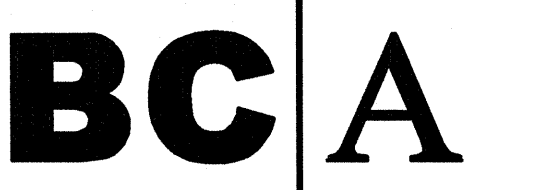
MECHANICAL
HYDRONIC PLAN
FIRST FLOOR

Date 08/28/08
Drawing Number M2.1h
Scale AS NOTED
Project Number 07013

1 MECHANICAL HYDRONIC PLAN - FIRST FLOOR
0 4' 8' 16'
SCALE: 1/8"=1'-0"

GENERAL SHEET NOTES

A. FOR VAV PIPING AND VALVE ARRANGEMENT, SEE DETAIL 3 ON SHEET M601.



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ARCHITECT	ENGINEER

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REVISIONS	DATE
ADDENDUM NO. 1	09/18/08

DRAWING STATUS	DATE
● DSA PLAN CHECK	08/29/08
● DSA BACK CHECK	01/22/09
● BIDDING (BID #080593)	09/18/09
○ CONSTRUCTION	

FILE NO. 41-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

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DATE

**BUILDINGS 5 & 6
RENOVATIONS**

San Mateo County Community
College District

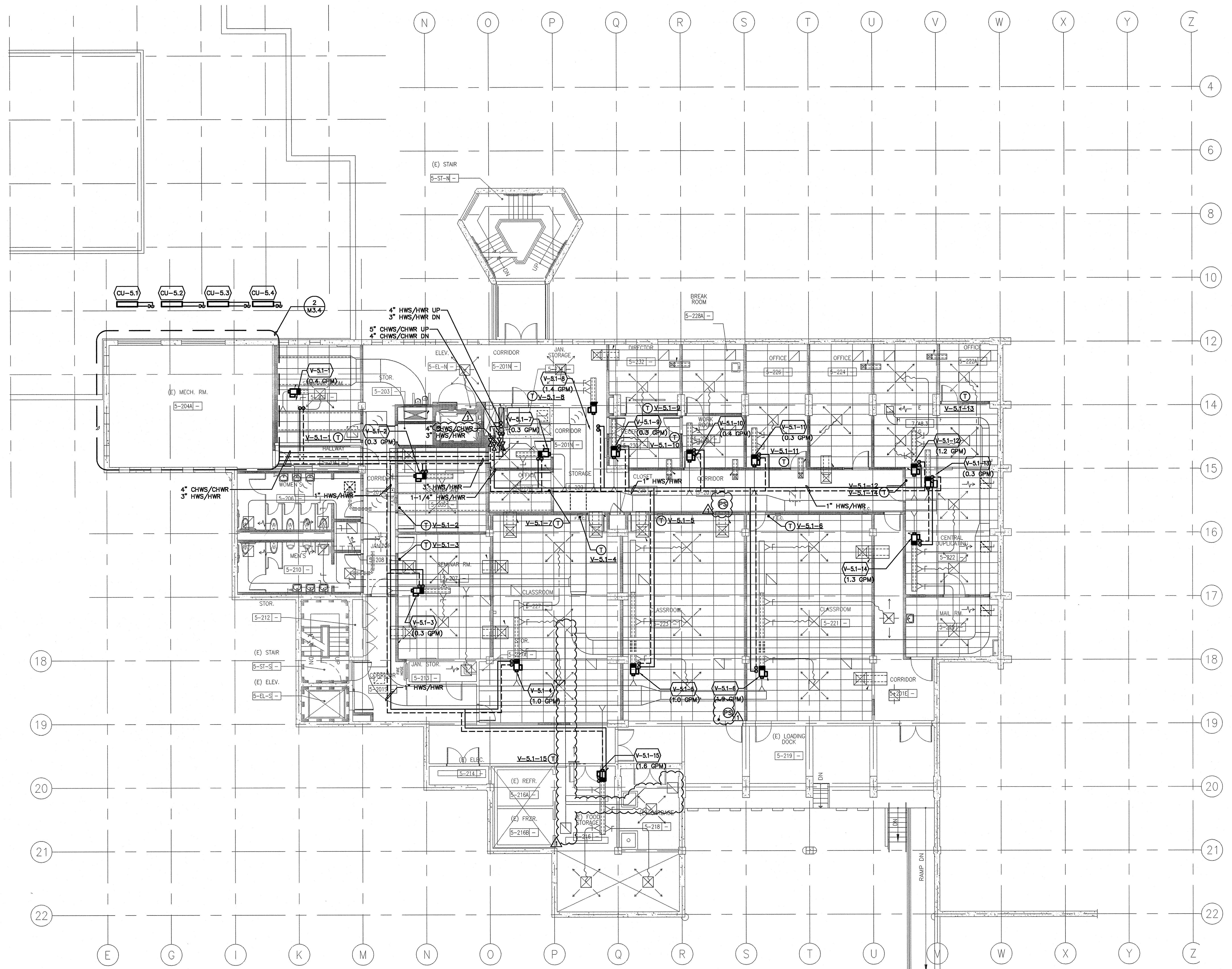
BID ADDENDA

CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

MECHANICAL
HYDRONIC PLAN
SECOND FLOOR

Date 08/29/08
Scale AS NOTED
Project Number 07013

Drawing Number **M2.2h**



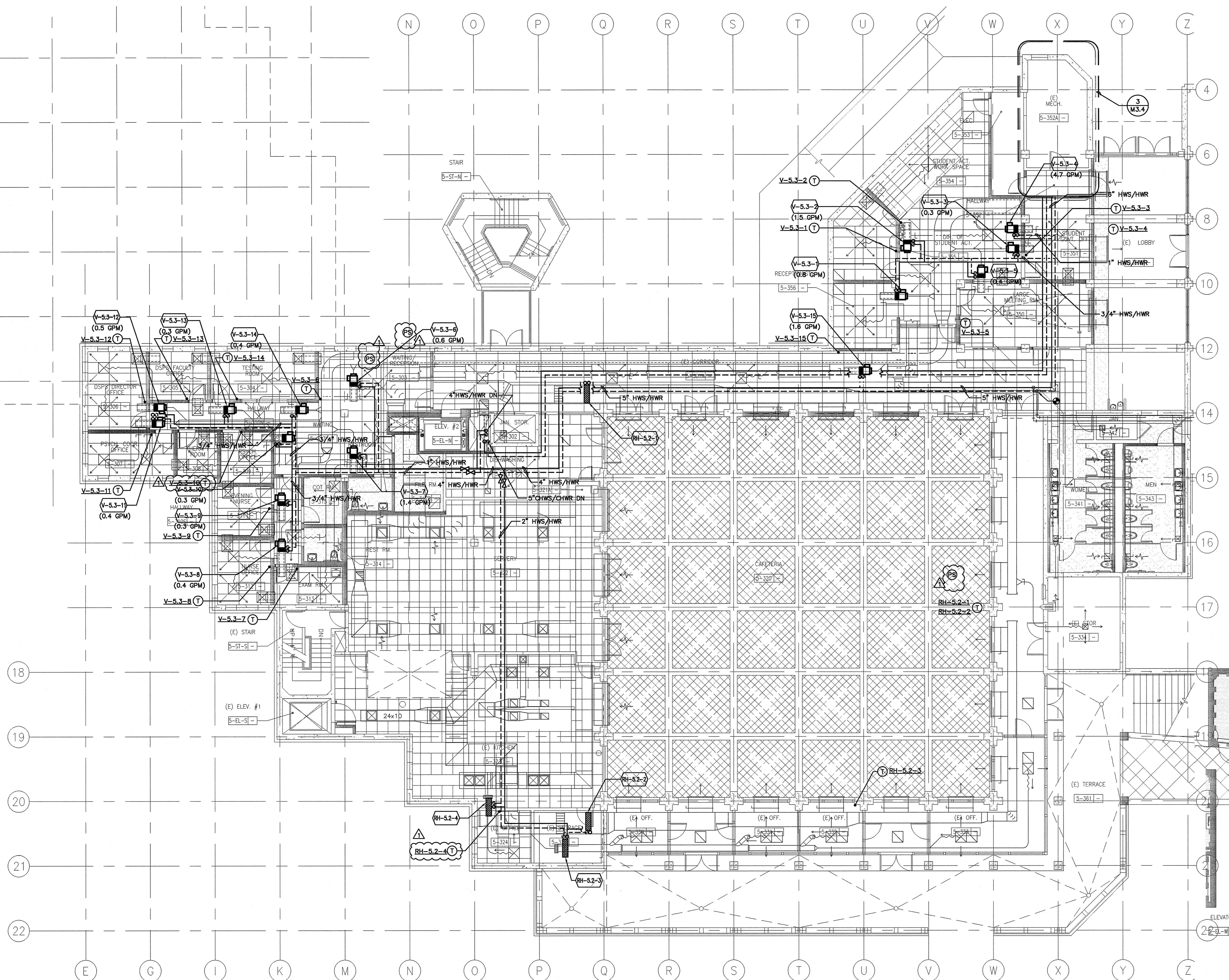
1 MECHANICAL HYDRONIC PLAN - SECOND FLOOR

0 4' 8' 16'

SCALE: 1/8"=1'-0"

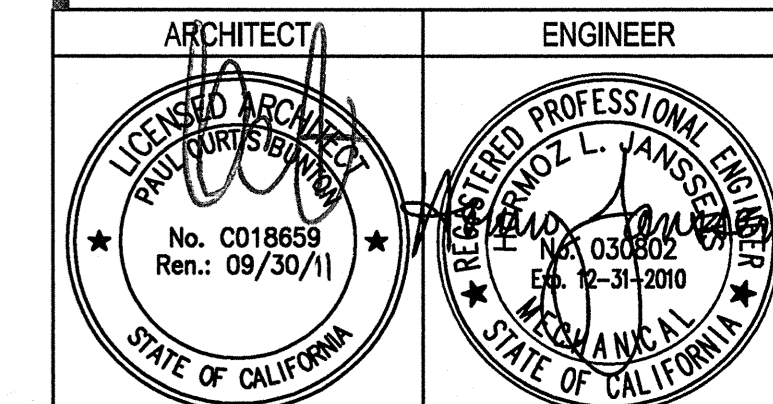
GENERAL SHEET NOTES

A. FOR VAV PIPING AND VALVE ARRANGEMENT, SEE DETAIL 3 ON SHEET M601.



1 MECHANICAL HYDRONIC PLAN - THIRD FLOOR
SCALE: 1/8"=1'-0"

PROJECT 2007-0731
CONTRACT Omar Hawit
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DRAWING STATUS	DATE
● DSA PLAN CHECK	08/28/08
● DSA BACK CHECK	01/22/09
● BIDDING (BID #85590)	09/18/09
○ CONSTRUCTION	

FILE NO. 41-C1
GENERATION STAMP
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DATE

BUILDINGS 5 & 6 RENOVATIONS

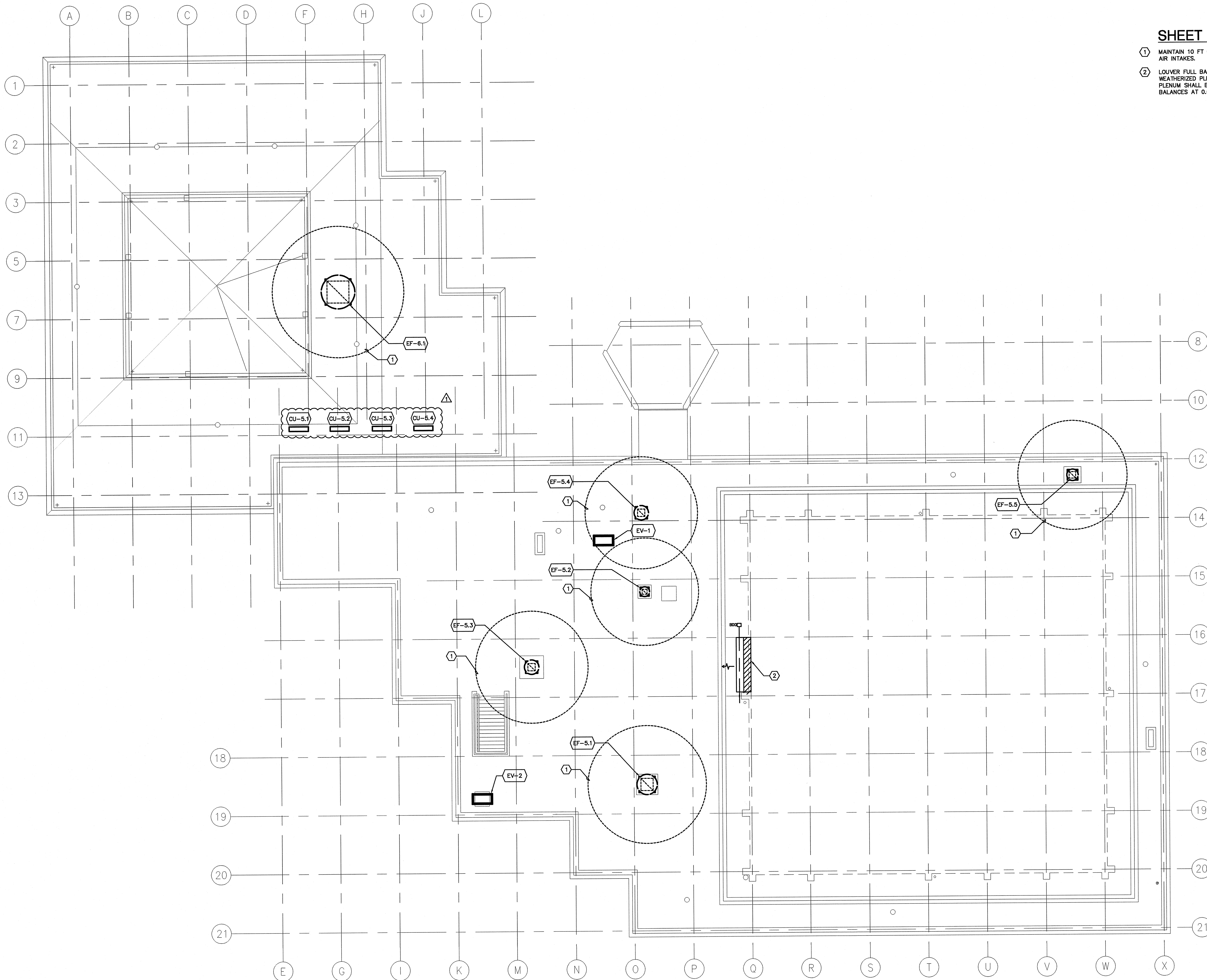
San Mateo County Community College District

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CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

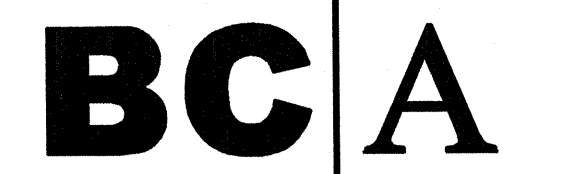
MECHANICAL
HYDRONIC PLAN
THIRD FLOOR

Date 08/29/08
Scale AS NOTED
Project Number 07013
Drawing Number **M2.3h**



SHEET KEYNOTES

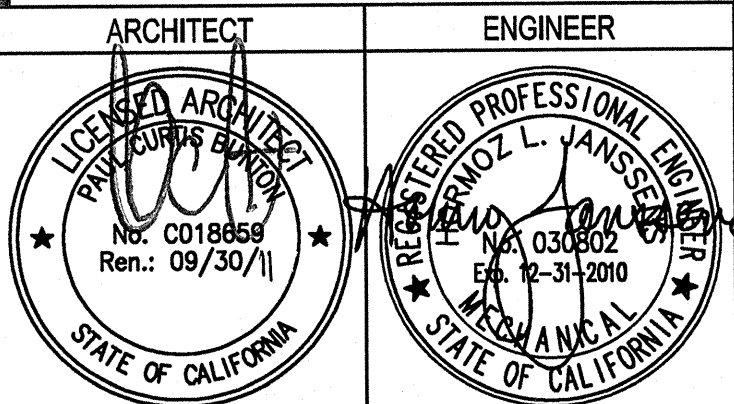
- ① MAINTAIN 10 FT CLEARANCE FROM EXHAUST DISCHARGE TO OUTSIDE AIR INTAKES.
- ② LOUVER FULL BAY OF WINDOWS AND PROVIDE FULL-SIZE, WEATHERIZED PLENUM, MINIMUM OF 24 IN DEEP. THE RELIEF AIR PLENUM SHALL BE EQUIPPED WITH A FULL-SIZE BACK DRAFT DAMPER BALANCES AT 0.01-INWC, ADJUSTABLE.



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▲	ADDENDUM NO. 1	09/18/09
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DRAWING STATUS	DATE
● DISA PLAN CHECK	08/28/08
● DISA BACK CHECK	01/22/09
● BIDDING (RFD #86593)	09/18/09
○ CONSTRUCTION	

FILE NO. 41-C1

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01- 110074

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DATE _____

**BUILDINGS 5 & 6
RENOVATIONS**

San Mateo County Community
College District

BID ADDENDA

CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

MECHANICAL
ROOF PLAN

Date 08/29/08
Drawing Number
Scale AS NOTED
Project Number 07013

M2.4

1 MECHANICAL ROOF PLAN
SCALE: 1/8"=1'-0"