DEL REY ELEMENTARY SCHOOL

VICTOR ELEMENTARY SCHOOL DISTRICT

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HVAC REPLACEMENT PROJECT





ARCHITECTURE | PLANNING | INTERIOR DESIGN

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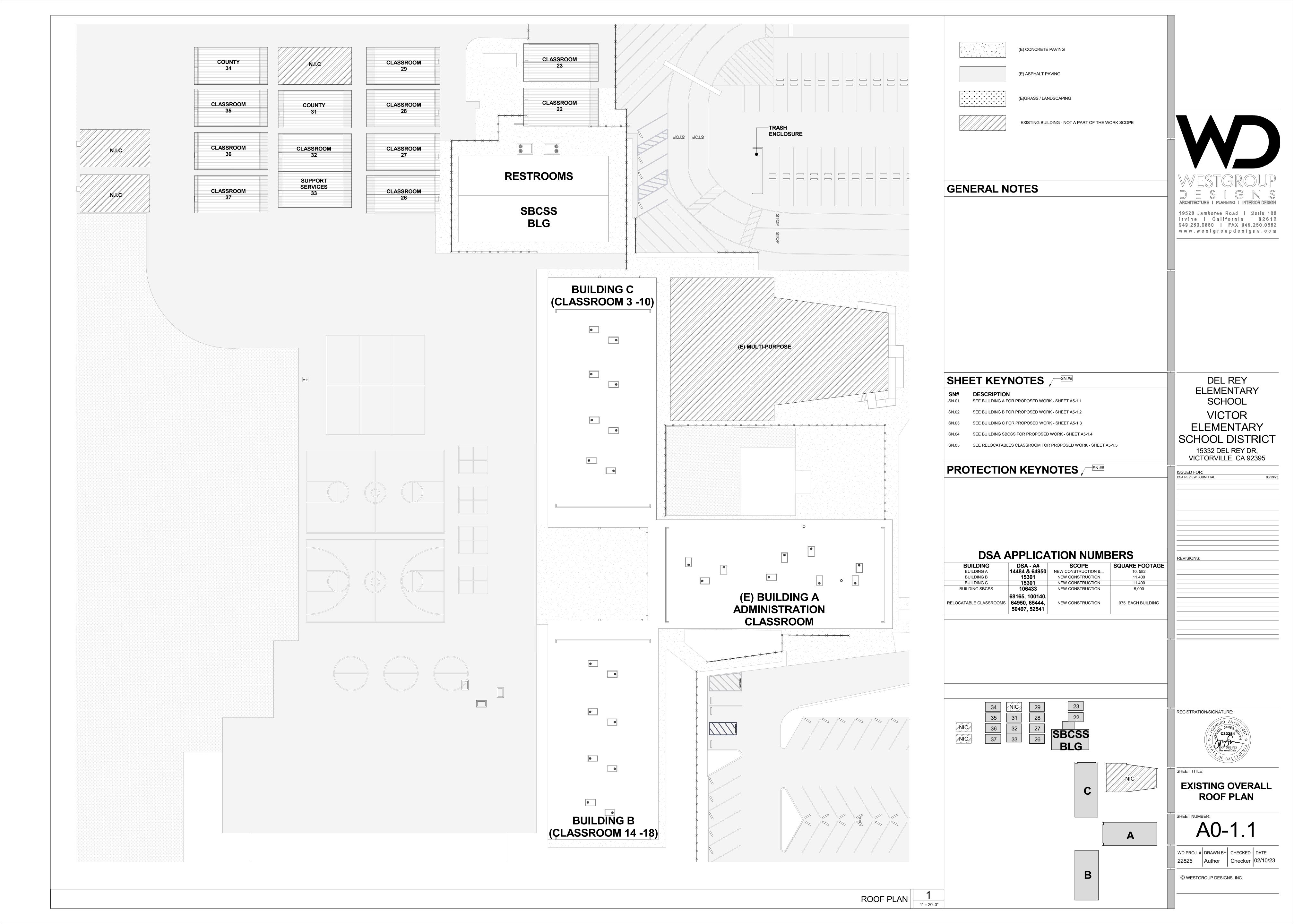
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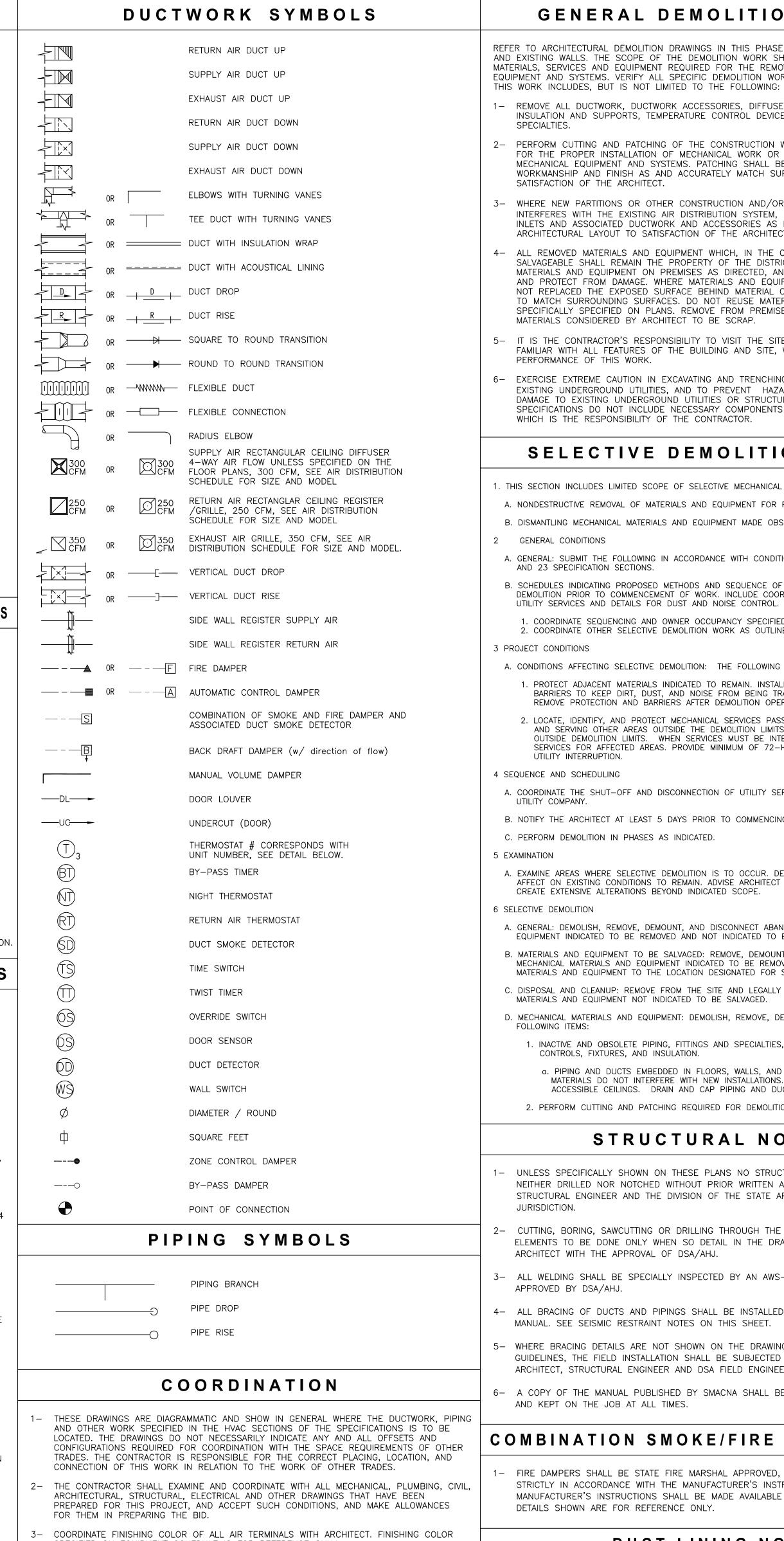
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MECHANICAL ABBREVIATIONS AND SYMBOLS LIST APPLICABLE CODES MECHANICAL ABBREVIATIONS AUTOMATIC AIR VENT MANUAL AIR VENT APPLICABLE CODES AIR CONDITIONING MAX MAXIMUM AUTOMATIC CONTROL DAMPER MIXING BOX 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR ACU AIR CONDITIONING UNIT THOUSAND BTU PER HOUR 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR AUTOMATIC CONTROL VALVE MCC MOTOR CONTROL CENTER (2015 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2019 CA AMENDMENTS) AD ACCESS DOOR MG GAS - MEDIUM PRESSURE 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR MIN MINIMUM (2014 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS) AFF MOT MOTOR ABOVE FINISHED FLOOR 2019 CALIFORNIA MECHANICAL CODE (CMC). PART 4, TITLE 24 CCR AUTOMATIC FIRE SPRINKLER MPR MEDIUM PRESSURE RETURN (2015 IAPMO UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS) AHU AIR HANDLING UNIT 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR MPS MEDIUM PRESSURE STEAM (2015 IAPMO UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS) AMB MAKE-UP WATER 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR AMD MOTOR OPERATED VALVE AIR MEASURING DEVICE 2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR PIPE ANCHOR MANUAL VOLUME DAMPER (2015 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS) ANV ANGLE VALVE MZ-AHU MULTI-ZONE AIR HANDLING UNITS 2019 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR ACCESS PANEI 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGreen), PART 11, TITLE 24 CCR ARCH **ARCHITECTURAL** NORMALLY CLOSED 2019 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR NOT IN CONTRACT TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS ATC AUTOMATIC TEMPERATURE CONTROL NO NORMALLY OPEN 2013 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS NUMBER NET POSITIVE SUCTION HEAD BALANCING COCK PARTIAL LIST OF APPLICABLE STANDARDS BDD BACK DRAFT DAMPER NTS NOT TO SCALE ' BFV BUTTERFLY VALVE NFPA 13 STANDARD FOR THE INSTALLATION OF FIRE SPRINKLER SYSTEMS (CA AMENDED) BRAKE HORSEPOWER OPPOSED BLADE DAMPER NFPA 14 STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS BACKWARD INCLINED OAI OUTSIDE AIR INTAKE NFPA 17 STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS BACKWARD INCLINED WHEEL OUTSIDE DIAMETER NFPA 17A STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS BLV OPW OPERATING WEIGHT BALL VALVES NFPA 20 STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION BRITISH THERMAL UNIT OSA OUTSIDE AIR NFPA 24 STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR BTUH OUTLET VELOCITY BTU PER HOUR OV APPURTENANCES BALANCING COCK OPNG OPENING NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) BOP BOTTOM OF PIPE NFPA 80 STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES BOD BOTTOM OF DUCT PRESSURE DROP NFPA 2001 STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS PERFORATED (FACE) UL 300 STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT PRESSURE GAUGE UL 464 AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING PHASE (ELECTRICAL) CEILING DIFFUSER CFM CUBIC FEET PER MINUTE POINT OF CONNECTION STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS CHWR CHILLED WATER RETURN POR POINT OF REMOVAL UL 1971 STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED CHWS CHILLED WATER SUPPLY PRSS PRESSURE ICC 300 STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS CLG PRESSURE REDUCING VALVE FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) COMP COMPRESSOR PRESSURE SWITCH CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80. COND CONDENSATE POUNDS PER SQUARE INCH CONT CONTINUATION PSI ABSOLUTE SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR STATE OF CALIFORNIA AMENDMENTS TO COP PSIG COEFFICIENT OF PERFORMANCE PSI GAUGE THE NFPA STANDARDS. FACTORY-FABRICATED COOLING TOWER PT PLUGGED TEE *ALL PARTS OF THE 2019 CALIFORNIA BUILDING CODE EFFECTIVE JANUARY 1, 2017 EXCEPT CU CONDENSING UNIT PRESSURE-TEMPERATURE RELIEF THE EFFECTIVE DATE FOR THE USE OF THE 2019 BUILDING ENERGY EFFICIENCY STANDARDS CHECK VALVE CV (TITLE 24, PART 1, CHAPTER 10) IS FEBRUARY 25, 2019 AND THE EFFECTIVE DATE FOR THE FLOW COEFFICIENT PVC POLYVINYL CHLORIDE PIPE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY CONDENSER WATER RETURN CWS CONDENSER WATER SUPPLY RISE RATED LOAD (AMPERAGE) DCV THERMOSTAT MOUNTING HEIGHTS / OVER OBSTRUCTIONS DEMAND CONTROLLED VENTILATION RETURN AIR RETURN AIR REGISTER DOUBLE DEFLECTION (PATTERN) RAG RETURN AIR GRILLE $\mathsf{D}\!-\!\mathsf{D}$ DAD DUCT ACCESS DOOR RECTANGULAR (FACE) DB DRY BULB RD REFRIGERANT DISCHARGE LINE DEMAND CONTROLLED VENTILATION ROOF DRAINS DIAM DIAMETER REG REGISTER DIFF DIFFUSER RELIEF GRILLE REHEATING COIL TOP OF THERMOSTAT REFRIGERANT LIQUID LINE TOP OF THERMOSTAT —24" MAX— SWITCHES, AND CONTROLS. REVOLUTION PER MINUTE E (NAME) EXISTING PIPE REFRIGERANT SUCTION LINE RELIEF VALVE EXTERNAL STATIC PRESSURE EXHAUST AIR EXHAUST AIR REGISTER SUPPLY AIR SPLIT AIR CONDITIONER EER **ENERGY EFFICIENCY RATIO** 46"MAX-SIDE APPROACH 44"MAX-FRONT APPROACH SUPPLY AIR DIFFUSER EXHAUST FAN ——DL——► AT ACCESSIBLE WORKSTATION **EXPANSION JOINT** SUPPLY AIR REGISTER 34" MAX ELEC ELECTRICAL SMOKE DETECTOR —UC—► ENT SEASONAL ENERGY-EFFICIENCY RATIO ER ECCENTRIC REDUCER SENS SENSIBLE - FINISHED FLOOR EWT ENTERING WATER TEMPERATURE SUPPLY FAN EXH **EXHAUST** SENSIBLE HEAT RATIO SMACNA SHEET METAL & AC NATIONAL ASSOCIATION DEGREE FAHRENHEIT AUTOMATIC SMOKE DAMPER SHUT OFF HEAD F&BP FACE AND BYPASS DAMPERS SOH FLOAT AND THERMOSTATIC TRAPS SOV SHUT OFF VALVE FULL LOAD AMPERAGE STATIC PRESSURE FLA PROVIDE A 30"Wx27"Hx19"D MIN. TOE/KNEE CLEARANCE FOR FRONT APPROACH OVER OBSTRUCTION. SPEC SPECIFICATION FLEXIBLE CONNECTION SQUARE (FACE) SQUARE FOOT FAN COIL UNIT MEP COMPONENT ANCHORAGE NOTES FIRE DAMPER SOUND TRAP STRAINER FINISHED FLR ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND FPM FEET PER MINUTE THROW AWAY (FILTER) INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO FPS FEET PER SECOND TEMPERATURE CONTROL DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET TCP TEMPERATURE CONTROL PANEL FLOW SWITCH THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS TCV AUTOMATIC TEMPERATURE CONTROL 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26, AND 30. FF FINISHED TRANSFER DUCT ALL PERMANENT EQUIPMENT AND COMPONENTS TDH TOTAL DYNAMIC HEAD . TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TOTALLY ENCLOSED FAN-COOLED **GALLON** TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR WATER. **GALVANIZED** MOTOR GALV MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND GC GAS COCK TOP TOP OF PIPE HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY TOD TOP OF DUCT GLOBE VALVE GPM TEMPERATURE GALLONS PER MINUTE TRANSFER GRILLE GATE VALVE THE FOLLOWING MECHANICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, THERMOMETER BUT THE ATTACHMENT NEED NOT TO BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL TURNING VANES BE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENTS AND ASSOCIATED DUCTWORK, HOSE BIBB THERMOMETER WELL PIPING, AND CONDUIT. HEATING COIL TYP TYPICAL HEPA-AF HIGH EFFICIENCY PARTICULATE AIR A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 UNDERCUT (DOOR) FILTERS FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE **HORSEPOWER** UH UNIT HEATER COMPONENT. UNDERWRITERS LABORATORY HIGH PRESSURE RETURN 3. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEM, HPS HIGH PRESSURE STEAM UN UNION LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HEATING, VENTILATING AND UTR UP THRU ROOF HUNG FROM A WALL. UNIT VENTILATOR AIR-CONDITIONING FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS. THE HWR HOT WATER RETURN VENT OR ATMOSPHERIC RELIEF INSTALLATION SHALL BE SUBJECTED TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN HWS VAC VACUUM GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE VARIABLE AIR VOLUME DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL VOLUME DAMPER COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE VERTICAL IN-LINE REQUIREMENTS. VENT THRU ROOF LOCKED ROTOR (AMPERAGE) PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE LEAVING AIR TEMPERATURE PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY W/ WITH LBS POUNDS WITH THE FORCES AND DISPLACEMENT PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED LINEAR DIFFUSER W-CLR WATER COOLER IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND THE 2019 CBC, SECTION 1616A.1.23, LEAVING DB TEMPERATURE WATER COOLED W C 1616A.1.24, 1616A.1.25, AND 1616A.1.26 LINEAR FEET WATER GAUGE (PRESSURE) WG W/O WITHOUT LOW-PRESSURE RETURN THE METHOD OF SHOWING BRACING AND ATTACHMENT TO THE STRUCTURE FOR THE IDENTIFIED LPS LOW-PRESSURE STEAM WET BULB WB DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENT ARE BASED ON WET BULB TEMPERATURE A PRE-APPROVED INSTALLATION GUIDE (E.G., SMACNA OR OSHPD OPM), COPIES OF THE LEAVING WB TEMPERATURE WG WATER GAUGE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR LEAVING WATER TEMPERATURE WMS WIRE MESH SCREEN TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. WORKING PRESSURE THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E): MP□ MD☒ PP□ E□ OPTION 1: DETAILED ON THE APPROVED DRAWING WITH PROJECT SPECIFIC NOTES AND DETAILS MP□ MD□ PP□ E□ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM#) #_____. MP□ MD□ PP□ E□ OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009) INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL ____ AND CONNECTION LEVEL ___ FOR THE PROJECT

AND CONDITIONS.

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- SPECIFIED ON EQUIPMENT SCHEDULE IS FOR REFERENCE ONLY.
- 4- CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR FOR SIZE AND LOCATION OF DUCTWORK ROOF/WALL OPENINGS AND WITH ELECTRICAL CONTRACTOR FOR ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT.

POLLUTANT CONTROL NOTES

FOR THE PERIOD OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, PROVIDE COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY. (5.504.3 CAL GREEN)

ADHESIVES, SEALANTS, AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA GREEN BUILDING STANDARDS (5.504.4.1 CAL GREEN)

REFER TO ARCHITECTURAL DEMOLITION DRAWINGS IN THIS PHASE AND FOR DEMOLITION AREAS AND EXISTING WALLS. THE SCOPE OF THE DEMOLITION WORK SHALL INCLUDE ALL LABOR, MATERIALS. SERVICES AND EQUIPMENT REQUIRED FOR THE REMOVAL OF EXISTING HVAC EQUIPMENT AND SYSTEMS. VERIFY ALL SPECIFIC DEMOLITION WORK PRIOR TO COMMENCING.

GENERAL DEMOLITION NOTES

- 1- REMOVE ALL DUCTWORK, DUCTWORK ACCESSORIES, DIFFUSERS, GRILLES, HVAC SYSTEM INSULATION AND SUPPORTS, TEMPERATURE CONTROL DEVICES, HVAC EQUIPMENT AND
- 2- PERFORM CUTTING AND PATCHING OF THE CONSTRUCTION WORK WHICH MAY BE REQUIRED. FOR THE PROPER INSTALLATION OF MECHANICAL WORK OR REMOVAL OF EXISTING MECHANICAL EQUIPMENT AND SYSTEMS. PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP AND FINISH AS AND ACCURATELY MATCH SURROUNDING WORK TO THE SATISFACTION OF THE ARCHITECT
- 3- WHERE NEW PARTITIONS OR OTHER CONSTRUCTION AND/OR INSTALLATION OF NEW CEILING INTERFERES WITH THE EXISTING AIR DISTRIBUTION SYSTEM, MODIFY THE AIR OUTLETS / INLETS AND ASSOCIATED DUCTWORK AND ACCESSORIES AS REQUIRED TO MATCH THE NEW ARCHITECTURAL LAYOUT TO SATISFACTION OF THE ARCHITECT.
- 4- ALL REMOVED MATERIALS AND EQUIPMENT WHICH, IN THE OPINION OF THE ARCHITECT, ARE SALVAGEABLE SHALL REMAIN THE PROPERTY OF THE DISTRICT, DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON PREMISES AS DIRECTED, AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGE. WHERE MATERIALS AND EQUIPMENT HAVE BEEN REMOVED AND NOT REPLACED THE EXPOSED SURFACE BEHIND MATERIAL OR EQUIPMENT SHALL BE PAINTED TO MATCH SURROUNDING SURFACES, DO NOT REUSE MATERIALS AND EQUIPMENT, UNLESS SPECIFICALLY SPECIFIED ON PLANS. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIALS CONSIDERED BY ARCHITECT TO BE SCRAP.
- 5- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL FEATURES OF THE BUILDING AND SITE, WHICH MAY AFFECT THE PROPER PERFORMANCE OF THIS WORK.
- 6- EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING UNDERGROUND UTILITIES, AND TO PREVENT HAZARD TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. WHICH IS THE RESPONSIBILITY OF THE CONTRACTOR.

SELECTIVE DEMOLITION NOTES

- THIS SECTION INCLUDES LIMITED SCOPE OF SELECTIVE MECHANICAL DEMOLITION WORK AS FOLLOWS: A. NONDESTRUCTIVE REMOVAL OF MATERIALS AND EQUIPMENT FOR REUSE OR SALVAGE AS INDICATED B. DISMANTLING MECHANICAL MATERIALS AND EQUIPMENT MADE OBSOLETE BY THESE INSTALLATIONS.
- 2 GENERAL CONDITIONS A. GENERAL: SUBMIT THE FOLLOWING IN ACCORDANCE WITH CONDITIONS OF CONTRACT AND DIVISION 01
- AND 23 SPECIFICATION SECTIONS. B. SCHEDULES INDICATING PROPOSED METHODS AND SEQUENCE OF OPERATION FOR SELECTIVE

DEMOLITION PRIOR TO COMMENCEMENT OF WORK. INCLUDE COORDINATION FOR SHUT-OFF OF

1. COORDINATE SEQUENCING AND OWNER OCCUPANCY SPECIFIED IN DIVISION 01. 2. COORDINATE OTHER SELECTIVE DEMOLITION WORK AS OUTLINED IN DIVISION 01.

UTILITY SERVICES AND DETAILS FOR DUST AND NOISE CONTROL.

3 PROJECT CONDITIONS

A. CONDITIONS AFFECTING SELECTIVE DEMOLITION: THE FOLLOWING PROJECT CONDITIONS APPLY: 1. PROTECT ADJACENT MATERIALS INDICATED TO REMAIN. INSTALL AND MAINTAIN DUST AND NOISE BARRIERS TO KEEP DIRT. DUST. AND NOISE FROM BEING TRANSMITTED TO ADJACENT AREAS.

REMOVE PROTECTION AND BARRIERS AFTER DEMOLITION OPERATIONS ARE COMPLETE

2. LOCATE, IDENTIFY, AND PROTECT MECHANICAL SERVICES PASSING THROUGH DEMOLITION AREA AND SERVING OTHER AREAS OUTSIDE THE DEMOLITION LIMITS. MAINTAIN SERVICES TO AREAS OUTSIDE DEMOLITION LIMITS. WHEN SERVICES MUST BE INTERRUPTED, INSTALL TEMPORARY SERVICES FOR AFFECTED AREAS. PROVIDE MINIMUM OF 72-HOUR NOTICE TO OWNER PRIOR TO

4 SEQUENCE AND SCHEDULING

- A. COORDINATE THE SHUT-OFF AND DISCONNECTION OF UTILITY SERVICES WITH THE OWNER AND THE UTILITY COMPANY.
- B. NOTIFY THE ARCHITECT AT LEAST 5 DAYS PRIOR TO COMMENCING DEMOLITION OPERATIONS

5 EXAMINATION

A. EXAMINE AREAS WHERE SELECTIVE DEMOLITION IS TO OCCUR. DETERMINE EXTENT OF WORK AND AFFECT ON EXISTING CONDITIONS TO REMAIN. ADVISE ARCHITECT OF ANY CONDITIONS THAT MIGHT CREATE EXTENSIVE ALTERATIONS BEYOND INDICATED SCOPE.

6 SELECTIVE DEMOLITION

- A. GENERAL: DEMOLISH, REMOVE, DEMOUNT, AND DISCONNECT ABANDONED MECHANICAL MATERIALS AND EQUIPMENT INDICATED TO BE REMOVED AND NOT INDICATED TO BE SALVAGED OR SAVED.
- B. MATERIALS AND EQUIPMENT TO BE SALVAGED: REMOVE, DEMOUNT, AND DISCONNECT EXISTING MECHANICAL MATERIALS AND EQUIPMENT INDICATED TO BE REMOVED AND SALVAGED, AND DELIVER MATERIALS AND EQUIPMENT TO THE LOCATION DESIGNATED FOR STORAGE.
- C. DISPOSAL AND CLEANUP: REMOVE FROM THE SITE AND LEGALLY DISPOSE OF DEMOLISHED MATERIALS AND EQUIPMENT NOT INDICATED TO BE SALVAGED.
- D. MECHANICAL MATERIALS AND EQUIPMENT: DEMOLISH, REMOVE, DEMOUNT, AND DISCONNECT THE
- FOLLOWING ITEMS: 1. INACTIVE AND OBSOLETE PIPING, FITTINGS AND SPECIALTIES, EQUIPMENT, DUCTWORK,
- CONTROLS, FIXTURES, AND INSULATION.
- a. PIPING AND DUCTS EMBEDDED IN FLOORS, WALLS, AND CEILINGS MAY REMAIN IF SUCH MATERIALS DO NOT INTERFERE WITH NEW INSTALLATIONS. REMOVE MATERIALS ABOVE ACCESSIBLE CEILINGS. DRAIN AND CAP PIPING AND DUCTS ALLOWED TO REMAIN.

2. PERFORM CUTTING AND PATCHING REQUIRED FOR DEMOLITION.

STRUCTURAL NOTES

1— UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT/AUTHORITIES HAVING JURISDICTION.

- 2- CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAIL IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT WITH THE APPROVAL OF DSA/AHJ.
- 3- ALL WELDING SHALL BE SPECIALLY INSPECTED BY AN AWS-CWI QUALIFIED INSPECTOR APPROVED BY DSA/AHJ.
- 4- ALL BRACING OF DUCTS AND PIPINGS SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA MANUAL. SEE SEISMIC RESTRAINT NOTES ON THIS SHEET.
- 5- WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE SMACNA GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECTED TO THE APPROVAL OF THE ARCHITECT, STRUCTURAL ENGINEER AND DSA FIELD ENGINEER OR AHJ.
- 6- A COPY OF THE MANUAL PUBLISHED BY SMACNA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.

COMBINATION SMOKE/FIRE DAMPER NOTE

- FIRE DAMPERS SHALL BE STATE FIRE MARSHAL APPROVED, UL LISTED AND INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND LISTING. MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITY. DETAILS SHOWN ARE FOR REFERENCE ONLY.

DUCT LINING NOTE

1— ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE ACOUSTICALLY LINED FROM CONNECTION POINT OF UNIT TO MIN. 20 FEET DOWN STREAM OF THE UNIT OPENING. SEE MECHANICAL DRAWINGS FOR EXTENDED (MORE THAN 20') REQUIREMENT OF DUCT LINING. ALL BRANCH DUCTWORK WITH TAKEOFF FROM MAIN SUPPLY/RETURN DUCTS WITHIN 20 FEET OF THE UNIT OPENING SHALL BE ACOUSTICALLY LINED IN ITS ENTIRETY INCLUDING ANY DUCT FITTINGS, ELBOWS, SUB-BRANCH DUCTS, AND SUPPLY/RETURN DIFFUSER/GRILLE PLENUMS. ALL DUCT FITTINGS AND ELBOWS WHERE SHOWN TO BE CONNECTED TO A LINED DUCTWORK SHOULD BE PROVIDED WITH THE SAME LINING SPECIFIED FOR THE DUCT. DUCT LINING AND INSULATION MATERIAL AND THICKNESS SHALL BE PER SPECIFICATION BOOK. SEE MECHANICAL FLOOR PLANS FOR EXTENDED (MORE THAN 20') DUCT LINING REQUIREMENTS.

GENERAL NOTES

- I ALL DUCT DIMENSIONS ON DRAWINGS TO BE INSIDE CLEAR. 2- ALL ROOM THERMOSTATS TO BE MOUNTED AT ELEVATION SHOWN ON THIS SHEET. SEE DETAIL BELOW.
- ALL INDIVIDUAL DUCTWORK BRANCH CONNECTING TO SUPPLY, RETURN, EXHAUST, OUTSIDE AIR, ETC.. AIR TERMINAL SHALL BE EQUIPPED WITH A
- MANUAL VOLUME DAMPER. 4- ALL SQUARE ELBOWS TO BE PROVIDED WITH TURNING VANES UNLESS OTHERWISE INDICATED
- IN DIRECTION OF AIR AFTER THE FAN DISCHARGE. INSTALL ACOUSTICALLY LINED RADIUS ELBOW. TO DETERMINE THE EXACT NUMBER AND LOCATION OF FIRE DAMPERS AND COMBINATION SMOKE/FIRE DAMPERS THAT MAY BE REQUIRED, THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS WHICH INDICATE
- THE LOCATION OF FIRE RATED WALLS, PARTITIONS AND CEILINGS. COORDINATE LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLAN AND ELECTRICAL LIGHTING

DO NOT USE SQUARE ELBOW WITH TURNING VANES AT THE FIRST CHANGE

- FOR BUILDING LOCATIONS, DIMENSIONS AND GRADE ELEVATIONS SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS. PROVIDE WATER-PROOFING FOR ALL EQUIPMENT ANCHORAGE ON ROOF AND
- DUCT PENETRATIONS THRU ROOF PER ARCHITECTURAL DETAILS. 10- ROUND AND RECTANGULAR DUCTWORK IS INTERCHANGEABLE UPON APPROVAL OF MECHANICAL ENGINEER. CONTRACTOR IS TO VERIFY THE EXACT CEILING SPACE AND INTERCHANGE THE DUCT SIZE TO FIT THE
- CEILING SPACE WITHOUT ADDITIONAL FEE. 1- PROVIDE BACK-DRAFT DAMPER FOR ALL EXHAUST AIR DUCT THRU

BUILDING ENVELOPE UNLESS OTHERWISE NOTED.

- 12- PROVIDE ALL FRESH AIR INTAKES AND EXHAUST OUTLETS WITH HOOD, $1/2^{\circ}$ GALVANIZED MESH SCREENS. I3- EXHAUST DUCT TERMINATION SHALL BE MINIMUM 10'-0" AWAY OR 3'-0"
- ABOVE FROM ANY FRESH AIR INTAKE, OPENABLE WINDOWS, DOORS AND 10'-0" MINIMUM ABOVE GRADE.
- 4- CONTRACTOR SHALL COORDINATE MOUNTING HEIGHT OF ALL DUCTWORK WITH THE WORK OF ALL OTHER TRADES SUCH AS STRUCTURAL BEAMS, PLUMBING PIPING, FIRE SPRINKLER PIPING, ELECTRICAL CONDUITS, LIGHT FIXTURES, ETC.. WHERE REQUIRED OR NOTED ON DRAWINGS, RUN DUCTWORK BETWEEN LIGHT FIXTURES, BEAMS, ETC..
- 15- PROVIDE WATER PROOFING FOR ALL FLASHING AND COUNTERFLASHING FOR MECHANICAL WORK.
- 6- THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. 17— SYMBOLS AND ABBREVIATIONS ON THIS SHEET ARE SHOWN FOR
- REFERENCE; NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED. 18- ALL NOTES ON THIS SHEET REMAIN PART OF THE CONTRACT DOCUMENTS 19- ASBESTOS OR HAZARDOUS WASTE: IT IS UNDERSTOOD AND AGREED THAT THIS CONTRACT DOES NOT CONTEMPLATE THE HANDLING OF ASBESTOS OR ANY HAZARDOUS WASTE MATERIAL. IF ASBESTOS OR ANY HAZARDOUS WASTE MATERIAL IS ENCOUNTERED, NOTIFY THE OWNER IMMEDIATELY. DO NOT DISTURB, HANDLE OR ATTEMPT TO REMOVE.
- 20- FOR ACTUAL DIMENSIONS OF LOUVER SIZES SEE ARCHITECTURAL DRAWINGS, PROVIDE AND ATTACH PLENUMS AND OR DUCTS TO ACCOMMODATE THOSE DIMENSIONS AS NEEDED.
- 21 UNIT NUMBERS FOR MECHANICAL EQUIPMENT SHOWN IN SCHEDULES ARE FOR TYPE OF UNIT ONLY. FOR QUANTITIES & LOCATIONS OF MECHANICAL UNITS, SEE MECHANICAL DRAWINGS.
- 22- ALL ZONE DAMPERS AND COMBINATION SMOKE FIRE DAMPERS TO BE PERMANENTLY LABELED TO INDICATE THE ROOM(S) THEY SERVE 23- ALL WORK SHALL CONFORM TO THE 2019 EDITION OF THE CALIFORNIA MECHANICAL CODE, INCLUDING ALL APPLICABLE STATE TITLE 24
- AMENDMENTS, CITY AND COUNTY LAWS AND ORDINANCES. 24- THE CONTRACTOR SHALL FURNISH AND INSTALL ACCESS DOORS AND/OR ACCESS PANELS AT LOCATIONS AS NECESSARY TO PROVIDE ACCESSIBILITY FOR SERVICE/ MAINTENANCE OF FIRE/SMOKE DAMPERS, MECHANICAL EQUIPMENT AND DEVICES. ALL ACCESS DOORS AND PANEL LOCATIONS AND SIZES SHALL BE PROVIDED BY CONTRACTOR AND SUBMITTED TO ARCHITECT |
- PRIOR TO INSTALLATION FOR VERIFICATION PURPOSES. 25— CONTRACTOR SHALL VISIT SITE PRIOR TO BID TO VERIFY OPERABILITY, LOCATION AND SIZES OF ALL EXISTING EQUIPMENT/ SERVICES AND INFORM
- THE ARCHITECT OF ANY DISCREPANCIES 26- THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT TRANSPORTATION AND SERVICES NECESSARY FOR COMPLETION OF THE WORK. ALL MATERIALS AND WORK SHALL COMPLY WITH APPLICABLE CODES AND GOVERNING REGULATIONS AND MEET THE APPROVAL OF THE LOCAL JURISDICTION, OR DIVISION OF STATE ARCHITECT, WHERE
- APPLICABLE. 27- TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE MATERIALS BEFORE, DURING AND AFTER INSTALLATION. IN THE EVENT OF DAMAGE, IMMEDIATELY REPAIR ALL DAMAGED AND DEFECTIVE WORK TO THE APPROVAL OF THE
- ARCHITECT AT NO ADDITIONAL COST TO THE OWNER 28- ALL SPACE CONDITIONING EQUIPMENT SHALL BE CERTIFIED BY MANUFACTURER TO COMPLY WITH ALL APPLICABLE REQUIREMENTS OF
- CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS. 9- INSTALLATION INSTRUCTIONS FOR ALL LISTED EQUIPMENT SHALL BE MADE AVAILABLE TO THE BUILDING INSPECTOR AT THE TIME OF INSPECTION.
- 30— PROVIDE AIR DIFFUSERS AND GRILLES TO MATCH THE CURVATURE WHEN AIR DIFFUSERS AND GRILLES APPEAR TO BE CURVED OR TO BE INSTALLED ON A CURVED SURFACE.
- 1- ALL PARTS OF AN EXPOSED AIR DISTRIBUTION SYSTEM TO BE PAINTED AS REQUIRED PER ARCHITECT. COORDINATE FINISHING COLOR WITH ARCHITECT

MANUAL VOLUME DAMPER NOTE

PROVIDE MANUAL VOLUME DAMPERS WITH REMOTE CONTROL WHERE HARD LID CEILING IS INSTALLED OR ACCESS TO TYPICAL MANUAL VOLUME DAMPER IS NOT POSSIBLE. PROVIDE PRODUCTS OF METROPOLITAN AIR TECHNOLOGY, ROTO-TWIST MODEL NUMBER RT-250 SERIES III FOR ROUND DUCT AND MODEL RT-100 SP/CC FOR RECTANGULAR DUCT APPLICATION OR APPROVED EQUAL PRODUCTS. PROVIDE GUIDE CABLE OF REQUIRED LENGTH FOR INSTALLATION OF THE CEILING CUP AND COVER PLATE AT LOCATIONS APPROVED BY ARCHITECT. CONTRACTOR SHALL SUBMIT ON PROPOSED LOCATIONS OF CEILING CUPS FOR REVIEW AND APPROVAL BY THE ARCHITECT.

THERMOSTAT NOTES

TEMPERATURE THERMOSTAT: TEMPERATURE RANGE 55°F TO 85°F SEQUENCE HEATING AND COOLING, ADJUSTABLE TO 10°F BETWEEN HEATING AND COOLING, CAPABILITY TO TERMINATE ALL HEATING AT NO MORE THAN 70°F AND TERMINATE ALL COOLING AT NOT LESS THAN 78°F OR PROVIDE T-STAT TO MEET THE OWNER'S STANDARDS, WHERE APPLICABLE. 2- THE LOCATION OF THERMOSTATS TO BE FINALIZED DURING CONSTRUCTION.

IF THE LOCATION OF THE THERMOSTATS SHOWN ON MECHANICAL DRAWINGS ARE IN CONFLICT WITH BUILDING ELEMENTS OR DESIGN CONTRACTOR SHALL RELOCATE THE THERMOSTAT AND RUN REQUIRED WIRING FOR A SUCCESSFUL INSTALLATION TO ANOTHER LOCATION APPROVED BY MECHANICAL ENGINEER AND ARCHITECT AT NO ADDITIONAL COST TO THE OWNER UP TO MAXIMUM 20' AWAY FROM ORIGINAL LOCATION SHOWN ON MECHANICAL DRAWINGS.

DO NOT INSTALL THERMOSTATS WHERE THE OPERATION OF THE DEVICE MAY BE EFFECTED BY:

- MINIMIZED AIR CIRCULATION (BEHIND THE DOORS OR CABINETS OR SIMILAR LOCATIONS).
- OUTDOOR TEMPERATURE (ON EXTERIOR WALLS. OR SIMILAR LOCATIONS).
- d. HEAT GENERATING EQUIPMENT (PROVIDE PROPER DISTANCE FROM HEAT GENERATING EQUIPMENT).
- e. LOCATIONS SHOWN ON THE DRAWINGS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE BETWEEN DRAWINGS AND WORKS OF OTHER TRADES AND ENSURE PROPER LOCATION SELECTION FOR INSTALLATION OF THE THERMOSTAT FOR SATISFACTORY OPERATION OF THE DEVICE.
- THERMOSTATS SHALL BE INSTALLED AT HEIGHTS SHOWN ON CONTRACT DOCUMENTS AND AS REQUIRED FOR ACCESSIBILITY
- 4- PROVIDE INSULATED THERMOSTAT BOX IF THERMOSTAT TO BE INSTALLED ON EXTERIOR WALL.



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REGISTRATION/SIGNATURE:



MECHANICAL ABBREVIATIONS AND SYMBOLS LIST

SHEET NUMBER

WD PROJ. # DRAWN BY: CHECKED DATE



AIR DISTRIBUTION SCHEDULE - RETURN AIR & TRANSFER AIR								
SYMBOL	Ø	Ø	Q	Ø	Ø	Ø	Ø	
CFM RANGE	50 — 150	151 — 300	301 – 450	451 — 600	601 — 800	801 — 1000	1001 — 1300	
TYPE	PERFORATED							
NECK SIZE	8"x8"	10"x10"	12"x12"	14"x14"	16"x16"	18"x18"	20"×20"	
MAX NC LEVEL	_	12	14	16	16	17	17	
FRAME SIZE (T-BAR)	24"×24"	24"x24"	24"×24"	24"×24"	24"x24"	24"x24"	24"x24"	
FRAME SIZE (HARD LID)	12"x12"	14"x14"	16"x16"	18"x18"	20"x20"	22"x22"	24"x24"	
MANUFACTURER/MODEL	KRUEGER/6690F23							

NOTES:
1— PROVIDE 12" TALL AIR PLENUM ON TOP OF DIFFUSER AND GRILLES. NECK SIZE OF THE AIR PLENUM MUST MA THE SIZE OF CONNECTING DUCTWORK. 2- IT IS CONTRACTOR'S RESPONSIBILITY TO PROVIDE CONCEALED FRAMING OF TYPE REQUIRED FOR T-BAR AND HA .ID CEILING APPLICATIONS.

AIR DISTRIBUTION SCHEDULE - SUPPLY AIR

SYMBOL					_		
CFM RANGE	50 – 250	251 – 350	351 – 500	501 – 750	_		
TYPE	LOUVER FACE	LOUVER FACE	LOUVER FACE	LOUVER FACE			
NECK SIZE	SAME AS CONNECTING DUCT	SAME AS CONNECTING DUCT	SAME AS CONNECTING DUCT	SAME AS CONNECTING DUCT	_		
MAX NC LEVEL	18	18	20	23			
FRAME SIZE (T-BAR)	24"×24"	24"x24"	24"×24"	24"x24"			
FRAME SIZE (HARD LID)	12"x12"	24"×24"	24"x24"	24"x24"			
MANUFACTURER/MODEL	KRUEGER/1400F23	KRUEGER/1400F23	KRUEGER/1400F23	KRUEGER/1400F23			

- 1- ALL DIFFUSERS ARE 4-WAY PATTERN EXCEPT WHERE SPECIFIED ON DRAWINGS W/ ARROWS. 2- PROVIDE MINIMUM 6" TALL AIR PLENUM ON TOP OF DIFFUSER AND GRILLES. NECK SIZE OF THE AIR PLENUM MUST MATCH THE SIZE OF CONNECTING DUCTWORK.
- 3- IT IS CONTRACTOR'S RESPONSIBILITY TO PROVIDE CONCEALED FRAMING OF TYPE REQUIRED FOR T-BAR AND HARD LID CEILING APPLICATIONS.

ATR	DISTRIBUTI	ON SCHED	ULF - SU	PPI Y ATR

SYMBOL	
CFM RANGE	750 — 1000
TYPE	ROUND DIFFUSER
NECK SIZE	14"
MAX NC LEVEL	40
MANUFACTURER/MODEL	KRUEGER/RA2
NOTE: 1 PROVIDE WITH MANUFACTURER'S SAFETY CABLE F	OR INNER CONE.

AIR DISTRIBUTION SCHEDULE - RETURN AIR

SYMBOL	
CFM RANGE	SEE FLOOR PLAN
TYPE	SIDEWALL
NECK SIZE	SEE FLOOR PLAN
MAX NC LEVEL	35
MANUFACTURER/MODEL	KRUEGER/S-5480

UNIT SYMBOL	AC-A1	AC-A2	AC-A3	AC-A4	AC-A5	AC-A6	AC-A7
LOCATION	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF
SERVICE	COMPUTER	KINDERGARTEN	IJB	KINDERGARTEN	OFFICE	WORKROOM	OFFICE

LOCATION		ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF
SERVICE		COMPUTER CLASSROOM	KINDERGARTEN K-3	IJB	KINDERGARTEN K-2	OFFICE	WORKROOM	OFFICE	KINDERGARTEN K-1
SHEET REFERENCE		M2-1.1	M2-1.1	M2-1.1	M2-1.1	M2-1.1	M2-1.1	M2-1.1	M2-1.1
MANUFACTURER		CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
MODEL		48FCGA06	48FCDA06	48FCGA06	48FCDA06	48VLNE24	48FCDA06	48FCDA04	48FCDA06
TYPE		GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC
DISCHARGE		DOWN	DOWN	DOWN	DOWN	DOWN	DOWN	DOWN	DOWN
	INDOOD FAN OFM	1050	4050	1050	1050	500	1050	1500	1050

	IYPE		GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC	GAS/ELEC
	DISCHARGE		DOWN	DOWN	DOWN	DOWN	DOWN	DOWN	DOWN	DOWN
		INDOOR FAN - CFM	1950	1950	1950	1950	500	1950	1500	1950
	FAN	MIN. OUTSIDE AIR — CFM	400	400	400	400	60	400	200	400
	SUPPLY	EXTERNAL S.P. – "WG	1.00	1.00	1.00	1.00	0.50	1.00	0.75	1.00
	<i>ω</i>	BLOWER BHP / RPM	1.36 / 2331	1.47 / 2389	1.36 / 2331	1.47 / 2389	0.30 / 1050	1.47 / 2389	0.59 / 2013	1.47 / 2389
		EVAP. EAT — °F — DB	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
		EVAP. EAT — °F — WB	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
		EVAP. LAT — °F — DB	58.8	59.6	58.8	59.6	61.7	59.6	63.2	59.6
		EVAP. LAT — °F — WB	57.7	58.2	57.7	58.2	59.4	58.2	60.2	58.2
	() 7	CND. EAT — °F — DB	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0
	COOLING	COOLING CAPACITY - MBH	57.74	54.88	57.74	54.88	20.53	54.88	33.44	54.88
	O	COOLING CAPACITY SENSIBLE — MBH	44.56	43.00	44.56	43.00	16.35	43.00	27.22	43.00
		REFRIGERANT TYPE / CAPACITY (LBS-OZ)	R410A / 10.8	R410A / 10.8	R410A / 10.8	R410A / 10.8	R410A / 14.8	R410A / 10.8	R410A / 14.8	R410A / 10.8
		ARI EER / SEER	- / 14.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00
		COMPRESSOR INPUT - KW	4.51	4.67	4.51	4.67	2.25	4.67	2.83	4.67
		INDOOR COIL EAT — °F — DB	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
	HEATING	INDOOR COIL LAT - °F - DB	93.3	95.6	93.3	95.6	106.9	95.6	103.3	95.6
	HEA	HEATING INPUT - STAGE / MBH	1 / 60.0	1 / 67.0	1 / 60.0	1 / 67.0	1 / 40.0	1 / 67.0	1 / 67.0	1 / 67.0
		MIN AFUE %	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
		COMPRESSOR NO. / RLA (EA)	1 / 24.4	1 / 16	1 / 24.4	1 / 16	1 / 8.7	1 / 16	1 / 10.4	1 / 16
		OUTDOOR FAN MOTOR NO. / FLA (EA)	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	1 / 0.6	1 / 1.5	1 / 1.5	1 / 1.5
	ELECTRICAL	INDOOR FAN MOTOR FLA	9.2	6.5	9.2	6.5	3.9	6.5	5.1	6.5
	ELEC	COMBUSTION FAN MOTOR NO. / FLA (EA)	1 / 0.48	1 / 0.48	1 / 0.48	1 / 0.48	- / -	1 / 0.48	1 / 0.48	1 / 0.48
		MCA / MOP	42 / 60	28 / 40	42 / 60	28 / 40	15.4 / 20	28 / 40	20 / 30	28 / 40
		VOLTAGE / PHASE	208 / 1	208 / 3	208 / 1	208 / 3	208 / 1	208 / 3	208 / 3	208 / 3
F	FILTER TYPE		2" - MERV-13	2" — MERV-13	2" - MERV-13	2" - MERV-13	2" - MERV-13	2" - MERV-13	2" - MERV-13	2" - MERV-13
	CONDENSER COIL	IL HAIL GUARD (LOUVERED)	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED
F	FLUE DEFLECTOR	₹	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED	REQUIRED
E	ECONOMIZER MAN	NUFACTURER / MODEL NO.	CARRIER ECD-SRT12CB-D00H-H	CARRIER ULTRA LOW LEAK	CARRIER ECD-SRT12CB-D00H-H	CARRIER ULTRA LOW LEAK	N/A	CARRIER ULTRA LOW LEAK	CARRIER ULTRA LOW LEAK	CARRIER ULTRA LOW LEAK
	CURB MANUFACT!	TURER / MODEL NO.	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING
5	SHIM ADAPTER V	MANUFACTURER / MODEL NO.	N/A	N/A	N/A	N/A	MICROMETL ADPT-0570-SD-W	N/A	N/A	N/A
(OPERATING WEIGH	HT (LBS)	633	598	633	598	320	598	519	598
DIMENSIONS (L"xW"xH")		:W"×H")	74.4" × 46.6" × 33.4"	74.4" × 46.6" × 33.4"	"74.4" × 46.6" × 33.4"	74.4" × 46.6" × 33.4"	48.2" × 32.6" × 43.8"	74.4" × 46.6" × 33.4"	74.4" × 46.6 × 33.4"	74.4" × 46.6" × 33.4"

REMARKS

REMARKS

DETAIL REFERENCE

- 1- UNIT COMPLETE WITH MODULATING ECONOMIZER WITH 100% OUTSIDE AIR INTAKE, CONVENIENCE OUTLET, LOUVERED HAIL GUARD, FLUE DEFLECTOR. 2- OPERATING WEIGHT INCLUDES WEIGHT OF BASE UNIT, ACCESSORIES, AND ECONOMIZER.

AIR CONDITIONER SCHEDULE (PACKAGED) (BUILDING A)

3- VARIABLE SPEED INDOOR FAN
4- UNIT SHALL BE ULTRA LOW NOX WITH STAINLESS STEEL HEAT EXCHANGER.
5- PROVIDE LOW SOUND OUTDOOR FAN.

EXISTING AIR CONDITIONER AND NEW AIR CONDITIONER COMPARISON SCHEDULE (BUILDING A)

9/M0-2.1

1,2,3,4,5

	D111011211	00 1 11 7 11	(100)	0	322 (33	1201.10	, ,									
UNIT SYMBOL	AC	-A1	AC	-A2	AC-	-A3	AC-	-A4	AC-	-A5	AC-	-A6	AC-	-A7	AC	-A8
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	BRYANT	CARRIER	BRYANT	CARRIER	BRYANT	CARRIER	BRYANT	CARRIER	BRYANT	CARRIER
CONDITION	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW
MODEL	48HJL005	48FCGA06	581BPV060	48FCDA06	48HJM004	48FCGA06	581BPV060	48FCDA06	583ANW024	48VLUE24	581BPV072	48FCDA06	581BPV036	48FCDA04	581BPV072	48FCDA06
DIMENSIONS (LxWxH) - IN	73.7 x 45 x 33.3	74.4 x 46.6 x 33.4	73.7 x 45 x 33.3	74.4 x 46.6 x 33.4	73.7 x 45 x 33.3	74.4 x 46.6 x 33.4	73.7 x 45 x 33.3	74.4 x 46.6 x 33.4	45.5 x 40.25 x 31.4	48.2 x 32.6 x 43.	8 73.7 x 45 x 33.3	74.4 x 46.6 x 33.4	73.7 x 45 x 33.3	74.7 x 46.6 x 33.4	73.7 x 45 x 33.3	74.4 x 46.6 x 33.4
UNIT WEIGHT — LBS	560	588	560	598	545	588	560	598	280	304	615	598	530	519	615	598
CURB WEIGHT - LBS	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING
SHIM ADAPTER WEIGHT — LBS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16	N/A	N/A	N/A	N/A	N/A	N/A
ECONOMIZER WEIGHT — LBS	90	45	42	1	90	45	42	1	42	N/A	42	1	42	1	42	1
TOTAL WEIGHT - LBS	650	633	602	598	635	633	602	598	322	320	657	598	572	519	657	598
	·	1	1	1	<u>'</u>		1	1	1	1	1	1			1	-

9/M0-2.1

1,2,3,4,5

9/M0-2.1

1,2,3,4,5

9/M0-2.1

1,2,3,4,5

9/M0-2.1

1,2,3,4,5

REMARKS

1- ECONOMIZER WEIGHT IS INCLUDED IN TOTAL WEIGHT.



AC-A8

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ISSUED FOR:	

EVISIONS:	
·	

9/M0-2.1

1,2,3,4,5

9/M0-2.1

1,2,3,4,5

9/M0-2.1

1,2,3,4,5

REGISTRATION/SIGNATURE:

SHEET TITLE:

MECHANICAL SCHEDULES

WD PROJ. # DRAWN BY: CHECKED DATE



UNIT	SYMBOL	HP-R1
LOCA	TION	RELOCATABLE CLASSROOMS
SHEE	T REFERENCE	M2-1.5
MANL	JFACTURER	BARD
MODE	<u> </u>	T42S1-A05DP4XXE
TYPE		HEAT PUMP/
SERV	ICE	WALL MOUNTED SEE FLOOR PLANS
BLOW	/ER — CFM	1250
EXTE	RNAL S.P. — "WG	0.03
OUTS	IDE AIR — CFM	_
FAN	— HP	0.33 / 825
	TOTAL CAPACITY - MBH	39.8
	SENSI. CAPACITY — MBH	29.7
	EAT - °F - DB	80.0
NG	EAT - °F - WB	67.0
COOLING	LAT - °F - DB	58.0
O	LAT - °F - WB	57.0
	AMBIENT AIR TEMP. — °F	95.0
	MIN. EER	11.0
	HEATING INPUT — KW	5.0
	HEATING OUTPUT — MBH	17.1
NG	EAT - °F - DB	70.0
HEATING	LAT - °F - DB	84.3
	AMBIENT AIR TEMP. — °F	10.0
	MIN. COP - %	2.2
	SIZE W"xH"xL"	2 × 20 × 30
FILTER	QUANTITY	1
됴	TYPE	2" PLEATED MERV-
VOLT	S / PHASE	208/230 - 1
МСА	/ MOCP	57 / 60
OPEF	RATING WEIGHT	545
DIME	NSIONS W"xH"xD"	84.875 x 42.075 ; 22.432
DETA	IL REFERENCE	5/M0-2.1

REMARKS

- 1- PROVIDE WITH MANUFACTURER'S ECONOMIZER PACKAGE. 2- MATCH COLOR WITH BUILDING FINISH AND RECEIVE APPROVAL FROM
- OWNER/ARCHITECT PRIOR TO ORDERING. 3- IT IS THE INTENT THAT THE EXISTING WALL OPENINGS (WHERE REPLACEMENT OF UNITS IS INDICATED) ARE ADEQUATE WITHOUT ENLARGEMENT. IF ANY INCREASE IN THE EXISTING OPENING IS REQUIRED, THE CONTRACTOR SHALL GET THE APPROVAL
- OF DSA/SEOR PRIOR TO PROCEEDING. 4- ACCESSORY AND OPTION WEIGHTS ARE INCLUDED IN OPERATING WEIGHT.

EXISTING WALL MOUNTED HEAT PUMP AND NEW WALL MOUNTED HEAT PUMP COMPARISON SCHEDULE

RELOCATABLE NUMBER	26, 2	23 8, 39 RU 37	29 TH	RU 33
UNIT SYMBOL	HP-	-R1	-R1	
MANUFACTURER	BARD	BARD	MARVAIR	BARD
CONDITION	EXISTING	NEW	EXISTING	NEW
MODEL	WH421	T42S1	AVP42HPA	T42S1
TYPE	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC
CFH INPUT	N/A	N/A	N/A	N/A
DIMENSIONS (H"xW"xD") - IN	84.875 x 42.075 x 22.432	84.875 x 42.075 x 22.432	86 x 45.125 x 22.7	84.875 x 42.075 x 22.432
UNIT WEIGHT - LBS	545	545	590	545
TOTAL WEIGHT - LBS	545	545	590	545

UNIT	SYMBOL	HP-A1
LOCA	ATION	ROOF
SER\	/ICE	BUILDING A
SHE	ET REFERENCE	M2-1.1
MAN	UFACTURER	CARRIER
MOD	EL	50VT-C24
TYPE	<u> </u>	HEAT PUMP/ SIDE DISCHARGE
7	INDOOR FAN — CFM	785
.≺ FAN	OUTSIDE AIR — CFM	_
SUPPLY	EXTERNAL S.P. — "WG	0.75
	MOTOR HP / TYPE / SPEED	0.5 / DIRECT / HIGH
	EVAP. EAT — °F — DB	80.0
	EVAP. EAT — °F — WB	67.0
	CND. EAT — °F — DB	105.0
COOLING	ARI COOLING CAPACITY — MBH	21.04
000	ARI COOLING CAPACITY SENSIBLE — MBH	16.72
	REFRIGERANT TYPE	R410A
	ARI EER / SEER	- / 14.50
	COMPRESSOR INPUT - KW	2.17
-	INDOOR COIL EAT — °F — DB	70.0
	INDOOR COIL LAT — °F — DB	96.7
IING	OUTDOOR AMBIENT TEMP °F - DB	47.0
HEATING	HEATING INPUT — MBH	22.58
	HIGH COP / LOW COP	- / -
	HEATING POWER INPUT — KW	1.70
	COMPRESSOR NO. / RLA (EA)	1 / 13.5
	OUTDOOR FAN MOTOR NO. / FLA (EA)	1 / 0.6
RICAL	INDOOR FAN MOTOR NO. / FLA (EA)	1 / 3.8
ELECTRICAL	COMBUSTION FAN MOTOR FLA (EA)	N/A
Ш	MCA / MOCP	21.3 / 30.0
	VOLTAGE / PHASE	208 / 1
FILTE	ER TYPE	MERV-13
CON	DENSER COIL HAIL GUARD (LOUVERED)	REQUIRED (3)
FLUE	DEFLECTOR	N/A
ECOI	NOMIZER MANUFACTURER / MODEL	N/A
CUR	B MANUFACTURER / MODEL / HEIGHT	EXISTING
SHIM	MADAPTER MANUFACTURER / MODEL / HEIGHT	N/A
OPEI	RATING WEIGHT (LBS)	311
DIME	NSIONS (L"xW"xH")	48.2" × 32.6" × 47
DETA	AIL REFERENCE	6/M0-2.1
PEM.	ARKS	1 THRU 7

- 1- EXISTING ROOF CURB TO REMAIN.
 2- UNIT COMPLETE WITH FACTORY INSTALLED LOUVERED HAIL GUARD AND LOW AMBIENT FREEZE STAT.
- 3- PROVIDE EMS THERMOSTAT AND CO2 SENSOR.
 4- PROVIDE SMOKE DETECTION MODULE TO SHUT-DOWN UNIT.
 5- PROVIDE PERMANENT LABEL.
 6- PROVIDE OSA HOOD WITH MANUAL ADJUSTMENT DAMPER 25% OUTSIDE AIR AND FILTER
- RACK (NO ALUMINUM FILTER).
 7— OPERATING WEIGHT INCLUDES WEIGHT OF BASE UNIT, ACCESSORIES AND CURB ADAPTER.

EXISTING AIR CONDITIONER AND NEW HEAT PUMP COMPARISON SCHEDULE						
UNIT SYMBOL	HP.	-A1				
MANUFACTURER	BRYANT	CARRIER				
CONDITION	EXISTING	NEW				
MODEL	657APX036	50VT-C24				
DIMENSIONS (LxWxH) - IN	44.5 x 45.5 x 31.4	48.2 x 32.6 x 47.8				
UNIT WEIGHT — LBS	311	311				
CURB WEIGHT — LBS	EXISTING	EXISTING				
SHIM ADAPTER WEIGHT — LBS	N/A	N/A				
ECONOMIZER WEIGHT - LBS	N/A	N/A				
TOTAL WEIGHT - LBS	311	311				

AIR CONDI	ITIONER SCHEDULE (PACKA	GED) (BUILDIN	G B)						
UNIT SYMBOL		AC-B1	AC-B2	AC-B3	AC-B4	AC-B5	AC-B6	AC-B7	AC-B8
LOCATION		ROOF							
SERVICE		SPECIAL ED 10	SPECIAL ED 03	CLASSROOM 09	CLASSROOM 04	CLASSROOM 08	CLASSROOM 05	CLASSROOM 07	CLASSROOM 06
SHEET REFERENCE	CE CONTRACTOR OF THE CONTRACTO	M2-1.2							
MANUFACTURER		CARRIER							
MODEL		48FCDA06							
TYPE		GAS/ELEC							
DISCHARGE		DOWN							
7	INDOOR FAN - CFM	1950	1950	1950	1950	1950	1950	1950	1950
Y FAN	MIN. OUTSIDE AIR — CFM	400	400	400	400	400	400	400	400
SUPPLY	EXTERNAL S.P "WG	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
∑	BLOWER BHP / RPM	1.47 / 2389	1.47 / 2389	1.47 / 2389	1.47 / 2389	1.47 / 2389	1.47 / 2389	1.47 / 2389	1.47 / 2389
	EVAP. EAT — °F — DB	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
	EVAP. EAT — °F — WB	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
	EVAP. LAT — °F — DB	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
	EVAP. LAT - °F - WB	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
()	CND. EAT — °F — DB	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0
COOLING	COOLING CAPACITY — MBH	54.88	54.88	54.88	54.88	54.88	54.88	54.88	54.88
33	COOLING CAPACITY SENSIBLE — MBH	43.00	43.00	43.00	43.00	43.00	43.00	43.00	43.00
	REFRIGERANT TYPE / CAPACITY (LBS-OZ)	R410A / 10.8							
	ARI EER / SEER	- / 14.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00	- / 14.00
	COMPRESSOR INPUT - KW	4.67	4.67	4.67	4.67	4.67	4.67	4.67	4.67
	INDOOR COIL EAT — °F — DB	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
9 7	INDOOR COIL LAT - °F - DB	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
HEATING	HEATING INPUT — STAGE / MBH	1 / 67.0	1 / 67.0	1 / 67.0	1 / 67.0	1 / 67.0	1 / 67.0	1 / 67.0	1 / 67.0
	MIN AFUE %	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
	COMPRESSOR NO. / RLA (EA)	1 / 16	1 / 16	1 / 16	1 / 16	1 / 16	1 / 16	1 / 16	1 / 16
	OUTDOOR FAN MOTOR NO. / FLA	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5	1 / 1.5
CAL	(EA)								
ELECTRICAL	INDOOR FAN MOTOR FLA COMBUSTION FAN MOTOR NO. / FLA (EA)	6.5	6.5 1 / 0.48	6.5	6.5	6.5	6.5	6.5	6.5
Ш	MCA / MOP	28 / 40	28 / 40	28 / 40	28 / 40	28 / 40	28 / 40	28 / 40	28 / 40
	· · · · · · · · · · · · · · · · · · ·	·					·		
	VOLTAGE / PHASE	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3	208 / 3
FILTER TYPE		2" - MERV-13							
CONDENSER COIL	HAIL GUARD (LOUVERED)	REQUIRED							
FLUE DEFLECTOR		REQUIRED							
ECONOMIZER MANUFACTURER / MODEL NO.		CARRIER ULTRA LOW LEAK							
CURB MANUFACTURER / MODEL NO.		EXISTING							
SHIM ADAPTER MA	ANUFACTURER / MODEL NO.	N/A							
OPERATING WEIGH	HT (LBS)	598	598	598	598	598	598	598	598
DIMENSIONS (L"xV	DIMENSIONS (L"xW"xH")		74.4" × 46.6" × 33.4"	74.4" × 46.6" × 33.4"	74.4" × 46.6" × 33.4"	74.4" × 46.6" × 33.4"	74.4" × 46.6" × 33.4"	74.4" × 46.6" × 33.4"	74.4" × 46.6" × 33.4"
	,					!			l l
DETAIL REFERENCI		9/M0-2.1	9/MO-2.1						

REMARKS

- 1— UNIT COMPLETE WITH MODULATING ECONOMIZER WITH 100% OUTSIDE AIR INTAKE, CONVENIENCE OUTLET, LOUVERED HAIL GUARD, FLUE DEFLECTOR. 2— OPERATING WEIGHT INCLUDES WEIGHT OF BASE UNIT, ACCESSORIES, AND ECONOMIZER.
- VARIABLE SPEED INDOOR FAN
- 4- UNIT SHALL BE ULTRA LOW NOX WITH STAINLESS STEEL HEAT EXCHANGER. 5- PROVIDE LOW SOUND OUTDOOR FAN.

EXISTING AIR CONDITIONER AND NEV	V AIR CO)ITIDNC	ONER C	OMPAR	ISON S	CHEDUI	LE (BUI'	LDING	B)							
UNIT SYMBOL	AC-	-B1	AC-	-B2	AC-	-В3	AC-	-B4	AC-	-B5	AC-	-B6	AC-	-B7	AC-	-B8
MANUFACTURER	CARRIER	CARRIER	BRYANT	CARRIER	BRYANT	CARRIER										
CONDITION	EXISTING	NEW	EXISTING	NEW												
MODEL	48HJD006	48FCDA06	581BPV060	48FCDA06	581BPV060	48FCDA06										
DIMENSIONS (LxWxH) - IN	73.7 x 45 x 33.3	74.4 x 46.6 x 33.4	73.7 x 45 x 33.3	74.4 x 46.6 x 33.4	73.7 x 45 x 33.3	74.4 x 46.6 x 33.4	73.7 x 45 x 33.3	74.4 x 46.6 x 33.4	73.7 x 45 x 33.3	74.4 x 46.6 x 33.4	73.7 x 45 x 33.3	74.4 x 46.6 x 33.4	73.7 x 45 x 33.3	74.4 x 46.6 x 33.4	4 73.7 x 45 x 33.3	74.4 x 46.6 x 33.4
UNIT WEIGHT — LBS	560	598	560	598	560	598	560	598	560	598	560	598	560	598	560	598
CURB WEIGHT - LBS	EXISTING	EXISTING	EXISTING	EXISTING												
SHIM ADAPTER WEIGHT — LBS	N/A	N/A	N/A	N/A												
ECONOMIZER WEIGHT - LBS	90	1	90	1	90	1	90	1	90	1)	90	1)	90	1	90	1
TOTAL WEIGHT — LBS	650	598	650	598	650	598	650	598	650	598	650	598	650	598	650	598

REMARKS

1- ECONOMIZER WEIGHT IS INCLUDED IN TOTAL WEIGHT.



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DEL REY ELEMENTARY SCHOOL **VICTOR ELEMENTARY** SCHOOL DISTRICT 15332 DEL REY DR. VICTORVILLE, CA 92395

SSUED FOR:	

SIONS:	

REGISTRATION/SIGNATURE:

MECHANICAL

WD PROJ. # DRAWN BY: CHECKED DATE



AIR CONDI	TIONER SCHEDULE (GRADE MOUNTE	ED) (BUILDING SBC	SS)	
UNIT SYMBOL		AC-D1	AC-D2	
LOCATION		MECHANICAL YARD	MECHANICAL	
SERVICE		SBCSS	SBCSS	
SHEET REFERENCE	<u> </u>	M2-1.4	M2-1.4	
MANUFACTURER		CARRIER	CARRIER	
MODEL		48FCDM08	48FCDM12	
TYPE		GAS/ELEC	GAS/ELEC	
DISCHARGE		SIDE	SIDE	
	INDOOR FAN - CFM	3000	4000	
FAN	MIN. OUTSIDE AIR — CFM	_	_	
SUPPLY	EXTERNAL S.P "WG	1.00	1.00	
S	BLOWER BHP / RPM	1.52 / 1600	2.07 / 1812	
	EVAP. EAT — °F — DB	80.0	80.0	
	EVAP. EAT — °F — WB	67.0	67.0	
	EVAP. LAT — °F — DB	60.6	58.5	
COOLING	EVAP. LAT — °F — WB	58.2	57.8	
	CND. EAT — °F — DB	105.0	105.0	
	COOLING CAPACITY — MBH	84.52	117.99	
000	COOLING CAPACITY SENSIBLE — MBH	63.00	92.81	
	REFRIGERANT TYPE / CAPACITY (LBS-OZ)	R410A / 7.6	R410A / 7.6	
	ARI EER / SEER	11.20 / 15.00	11.00 / 15.00	
	COMPRESSOR INPUT - KW	7.17	10.28	
	INDOOR COIL EAT - "F - DB	70.0	70.0	
N N	INDOOR COIL LAT - °F - DB	101.8	104.3	
HEATING	HEATING INPUT - MBH / STAGE	1 / 125.0	2 / 180.0	
	MIN AFUE %	_	_	
	COMPRESSOR NO. / RLA (EA)	2 / 13.1	2 / 15.6	
	OUTDOOR FAN MOTOR NO. / FLA (EA)	2 / 1.5	2 / 1.5	
ELECTRICAL	INDOOR FAN MOTOR FLA	6.4	12.6	
ELECT	COMBUSTION FAN MOTOR NO. / FLA (EA)	1 / 0.48	1 / 0.48	
	MCA / MOP	39 / 50	51 / 60	
	VOLTAGE / PHASE	208 / 3	208 / 3	
FILTER TYPE		2" - MERV-13	2" - MERV-13	
CONDENSER COIL	HAIL GUARD (LOUVERED)	REQUIRED	REQUIRED	
FLUE DEFLECTOR		REQUIRED	REQUIRED	
ECONOMIZER MAN	UFACTURER / MODEL NO.	MICROMETL ECH-SRT34CB-D00H-F	MICROMETL ECH-SRT34CB-D00H-H	
OPERATING WEIGH	T (LBS)	856	958	
DIMENSIONS (L"xW	"xH")	88.1" × 59.5" × 41.3"	88.1" x 59.5" x 49.4"	
DETAIL REFERENCE	Ξ	1, 4/M0-2.1	1, 4/MO-2.1	
REMARKS		1 THRU 6	1 THRU 6	

1- UNIT COMPLETE WITH MODULATING ECONOMIZER WITH 100% OUTSIDE AIR INTAKE, CONVENIENCE OUTLET, LOUVERED HAIL GUARD, FLUE DEFLECTOR.

2- OPERATING WEIGHT INCLUDES WEIGHT OF BASE UNIT AND ACCESSORIES.
3- PROVIDE FIRE MARSHAL APPROVED DUCT SMOKE DETECTOR FOR AIR MOVING SYSTEM SUPPLYING IN EXCESS OF 2000 CFM FOR AUTOMATIC SHUT OFF. IF BUILDING IS SERVED BY TOTAL COVERAGE SMOKE-DETECTION SYSTEM, AUTOMATIC UNIT SHUT OFF CAN BE ACCOMPLISHED BY INTERCONNECTION TO SUCH SYSTEM. REFER TO FIRE ALARM DRAWINGS FOR ADDITIONAL INFORMATION.

4- VARIABLE SPEED INDOOR FAN 5- UNIT SHALL BE ULTRA LOW NOX WITH STAINLESS STEEL HEAT EXCHANGER. 6- PROVIDE LOW SOUND OUTDOOR FAN.

EXISTING AIR CONDITIONER AND NEW AIR CONDITIONER COMPARISON SCHEDULE (SBCSS)

			`	,
UNIT SYMBOL	AC-	AC-D1		-D2
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER
CONDITION	EXISTING	NEW	EXISTING	NEW
MODEL	48HJD008	48FCDM08	48HJD012	48FCDM12
DIMENSIONS (LxWxH) - IN	87.38 x 57.75 x 41.3	88.1 x 59.5 x 41.3	87.38 x 57.75 x 49.3	88.1 x 59.5 x 49.4
UNIT WEIGHT — LBS	870	745	1035	847
ECONOMIZER WEIGHT - LBS	90	111	90	111
TOTAL WEIGHT — LBS	960	856	1125	958

AC-C7 ROOF CLASSROOM 11 M2-1.3 CARRIER 48FCDA06 GAS/ELEC DOWN 1950 400 1.00 1.47 / 2389 80.0 67.0 59.6 58.2	AC-C8 ROOF CLASSROOM 18 M2-1.3 CARRIER 48FCDA06 GAS/ELEC DOWN 1950 400 1.00 1.47 / 2389 80.0
CLASSROOM 11 M2-1.3 CARRIER 48FCDA06 GAS/ELEC DOWN 1950 400 1.00 1.47 / 2389 80.0 67.0 59.6	CLASSROOM 18 M2-1.3 CARRIER 48FCDA06 GAS/ELEC DOWN 1950 400 1.00 1.47 / 2389
M2-1.3 CARRIER 48FCDA06 GAS/ELEC DOWN 1950 400 1.00 1.47 / 2389 80.0 67.0 59.6	M2-1.3 CARRIER 48FCDA06 GAS/ELEC DOWN 1950 400 1.00 1.47 / 2389
CARRIER 48FCDA06 GAS/ELEC DOWN 1950 400 1.00 1.47 / 2389 80.0 67.0 59.6	CARRIER 48FCDA06 GAS/ELEC DOWN 1950 400 1.00 1.47 / 2389
48FCDA06 GAS/ELEC DOWN 1950 400 1.00 1.47 / 2389 80.0 67.0 59.6	48FCDA06 GAS/ELEC DOWN 1950 400 1.00 1.47 / 2389
GAS/ELEC DOWN 1950 400 1.00 1.47 / 2389 80.0 67.0 59.6	GAS/ELEC DOWN 1950 400 1.00 1.47 / 2389
DOWN 1950 400 1.00 1.47 / 2389 80.0 67.0 59.6	DOWN 1950 400 1.00 1.47 / 2389
1950 400 1.00 1.47 / 2389 80.0 67.0 59.6	1950 400 1.00 1.47 / 2389
400 1.00 1.47 / 2389 80.0 67.0 59.6	400 1.00 1.47 / 2389
1.00 1.47 / 2389 80.0 67.0 59.6	1.00
1.47 / 2389 80.0 67.0 59.6	1.47 / 2389
80.0 67.0 59.6	
67.0 59.6	80.0
59.6	
	67.0
58.2	59.6
_	58.2
105.0	105.0
54.88	54.88
43.00	43.00
R410A / 10.8	R410A / 10.8
- / 14.00	- / 14.00
4.67	4.67
70.0	70.0
95.6	95.6
1 / 67.0	1 / 67.0
81.0	81.0
1 / 16	1 / 16
1 / 1.5	1 / 1.5
6.5	6.5
1 / 0.48	1 / 0.48
28 / 40	28 / 40
208 / 3	208 / 3
2" - MERV-13	2" - MERV-13
REQUIRED	REQUIRED
REQUIRED	REQUIRED
CARRIER ULTRA LOW LEAK	CARRIER ULTRA LOW LEAK
EXISTING	EXISTING
N/A	N/A
598	598
4" 74.4" × 46.6" × 33.	4" 74.4" × 46.6" × 33.4"
9/M0-2.1	9/M0-2.1
, =	1,2,3,4,5
	6.5 1 / 0.48 28 / 40 208 / 3 2" - MERV-13 REQUIRED REQUIRED CARRIER ULTRA LOW LEAK EXISTING N/A 598 74.4" × 46.6" × 33.

REMARKS

1- UNIT COMPLETE WITH MODULATING ECONOMIZER WITH 100% OUTSIDE AIR INTAKE, CONVENIENCE OUTLET, LOUVERED HAIL GUARD, FLUE DEFLECTOR. 2- OPERATING WEIGHT INCLUDES WEIGHT OF BASE UNIT, ACCESSORIES, AND ECONOMIZER.

VARIABLE SPEED INDOOR FAN 4— UNIT SHALL BE ULTRA LOW NOX WITH STAINLESS STEEL HEAT EXCHANGER. 5— PROVIDE LOW SOUND OUTDOOR FAN.

EXISTING AIR CONDITIONER AND NEW AIR CONDITIONER COMPARISON SCHEDULE (BUILDING C)

							,									
UNIT SYMBOL	AC	-C1	AC-	-C2	AC-	-C3	AC-	-C4	AC-	-C5	AC-	-C6	AC-	-C7	AC	-C8
MANUFACTURER	BRYANT	CARRIER	BRYANT	CARRIER												
CONDITION	EXISTING	NEW	EXISTING	NEW												
MODEL	581BPV060	48FCDA06	581BPV060	48FCDA06												
DIMENSIONS (LxWxH) - IN	73.7 x 45 x 33.3	74.4 x 46.6 x 33.4	73.7 x 45 x 33.3	74.4 x 46.6 x 33.4	73.7 x 45 x 33.3	74.4 x 46.6 x 33.4	73.7 x 45 x 33.3	74.4 x 46.6 x 33.4	73.7 x 45 x 33.3	74.4 x 46.6 x 33.4	73.7 x 45 x 33.3	74.4 x 46.6 x 33.4	73.7 x 45 x 33.3	74.4 x 46.6 x 33.4	4 73.7 x 45 x 33.3	74.4 x 46.6 x 33.4
UNIT WEIGHT - LBS	560	598	560	598	560	598	560	598	560	598	560	598	560	598	560	598
CURB WEIGHT - LBS	EXISTING	EXISTING	EXISTING	EXISTING												
SHIM ADAPTER WEIGHT — LBS	N/A	N/A	N/A	N/A												
ECONOMIZER WEIGHT - LBS	42	1	42	1	42	1	42	1	42	1)	42	1	42	1	42	1
TOTAL WEIGHT — LBS	602	598	602	598	602	598	602	598	602	598	602	598	602	598	602	598
O DEMARKS		•		•		•		•				•	•	•	•	

REMARKS

1- ECONOMIZER WEIGHT IS INCLUDED IN TOTAL WEIGHT.



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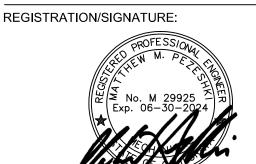


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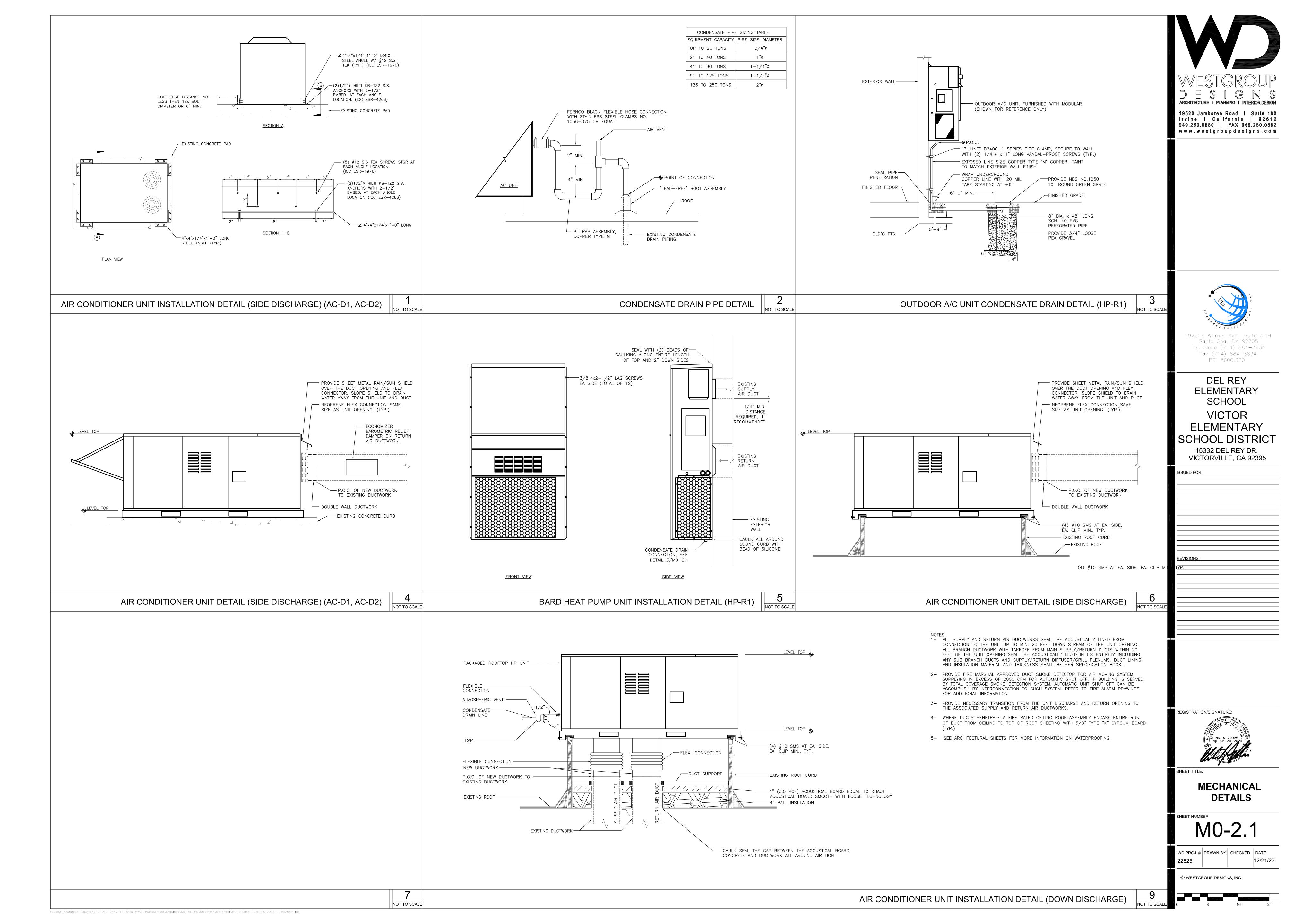
VISIONS:	



MECHANICAL SCHEDULES

WD PROJ. # DRAWN BY: CHECKED DATE





NOTES 1) VERIFIED BY FIELD (2) SEE DETAIL SHEET SEQUENCE OF OPERATION FAN CONTROL BASED UPON AN OCCUPIED SIGNAL FROM THE SYSTEM, THE FAN WILL BE GIVEN AN ENABLE TO RUN SIGNAL. IF THE SYSTEM IS IN THE UNOCCUPIED MODE, THE FAN WILL BE GIVEN A DISABLE SIGNAL TO SHUTDOWN UNLESS THE SPACE TEMPERATURE RISES ABOVE OR GOES BELOW THE UNOCCUPIED TEMPERATURE SETPOINTS. COOLING OPERATION IF THE SPACE TEMPERATURE RISES ABOVE THE CURRENT EFFECTIVE COOLING SETPOINT TEMPERATURE, THE COOLING ALGORITHM WILL BEGIN ITS PID LOOP TO CONTROL THE STAGING OF THE COMPRESSORS. AT GREATER THAN 15% (ADJ.) THE FIRST STAGE COOLING WILL BE CALLED FOR AND RELEASED IF THE 2ND STAGE HAS STOPPED AND THE PERCENTAGE IS BELOW 5% (ADJ.). IF THE FIRST STAGE IS RUNNING AND THE PID LOOP IS GREATER THAN 75% (ADJ.) THEN THE SECOND STAGE OF COOLING WILL BE CALLED FOR AND RELEASED IF THE PERCENTAGE DROPS BELOW15% (ADJ.) HEATING OPERATION

IF THE SPACE TEMPERATURE DROPS BELOW THE CURRENT EFFECTIVE HEATING SETPOINT TEMPERATURE. THE HEATING

ALGORITHM WILL BEGIN ITS PID LOOP TO CONTROL THE STAGING OF HEATING. AT GREATER THAN 15% (ADJ.) THE

SECOND STAGE OF HEATING WILL BE CALLED FOR AND RELEASED IF THE PERCENTAGE DROPS BELOW15% (ADJ.)

ECONOMIZER

CO2 CONTROL

SEQUENCE OF OPERATION

COOLING OPERATION

HEATING OPERATION

CO2 CONTROL

ECONOMIZER IF THERE IS A CALL FOR COOLING.

SHALL MODULATE OPEN TOWARD AN ADJUSTABLE MAXIMUM CO2 POSITION.

FAN CONTROL

ECONOMIZER IF THERE IS A CALL FOR COOLING.

SHALL MODULATE OPEN TOWARD AN ADJUSTABLE MAXIMUM CO2 POSITION.

FIRST STAGE HEATING WILL BE CALLED FOR AND RELEASED IF THE 2ND STAGE HAS STOPPED AND THE PERCENTAGE

IS BELOW 5% (ADJ.). IF THE FIRST STAGE IS RUNNING AND THE PID LOOP IS GREATER THAN 75% (ADJ.) THEN THE

ECONOMIZER SHALL CLOSE WHEN FAN IS OFF OR DURING A LOSS OF POWER. DURING OCCUPIED HOURS, WHEN FAN

BELOW SPACE TEMPERATURE AND OCCUPIED SPACE REQUIRES COOLING, ECONOMIZER SHALL OPEN. IF ECONOMIZER

STAGES TO SATISFY DEMAND IN THE OCCUPIED SPACE. IF ENTHALPY STATUS IS HIGH, THE ECONOMIZER IS DISABLED

AND THE OUTSIDE AIR DAMPER GOES TO ITS MINIMUM POSITION. AN ENTHALPY STATUS THAT IS LOW ENABLES THE

UNIT SHALL MONITOR SPACE CO2 WHEN THE SUPPLY FAN IS ENERGIZED. WHEN CO2 IS ABOVE SETPOINT, ECONOMIZER

BASED UPON AN OCCUPIED SIGNAL FROM THE SYSTEM, THE FAN WILL BE GIVEN AN ENABLE TO RUN SIGNAL.

(ADJ.) THEN THE SECOND STAGE OF COOLING WILL BE CALLED FOR AND RELEASED IF THE PERCENTAGE DROPS

UNIT SHALL MONITOR SPACE CO2 WHEN THE SUPPLY FAN IS ENERGIZED. WHEN CO2 IS ABOVE SETPOINT, ECONOMIZER

P:\600-Westgroup Designs\600-030_VFSD_17_Sites_FVAC_Replacement\Drawings\Del Rey FS\Drawings\Mechanical\M0-3.1.dwg Mar 29, 2023 - 10:27am iggy

THE SPACE TEMPERATURE RISES ABOVE OR GOES BELOW THE UNOCCUPIED TEMPERATURE SETPOINTS.

AIR IS NOT SUFFICIENT TO MEET THE DEMAND IN THE OCCUPIED SPACE, UNIT SHALL ENABLE AVAILABLE COOLING

IS ENERGIZED, THE ECONOMIZER SHALL OPEN TO ADJUSTABLE MINIMUM POSITION. WHEN OUTSIDE AIR TEMPERATURE IS

22 AWG OR 24 AWG, LOW-CAPACITANCE, TWISTED, STRANDED, SHIELDED COPPER WIRE MAXIMUM LENGTH: 2000 FEET (610 METERS)

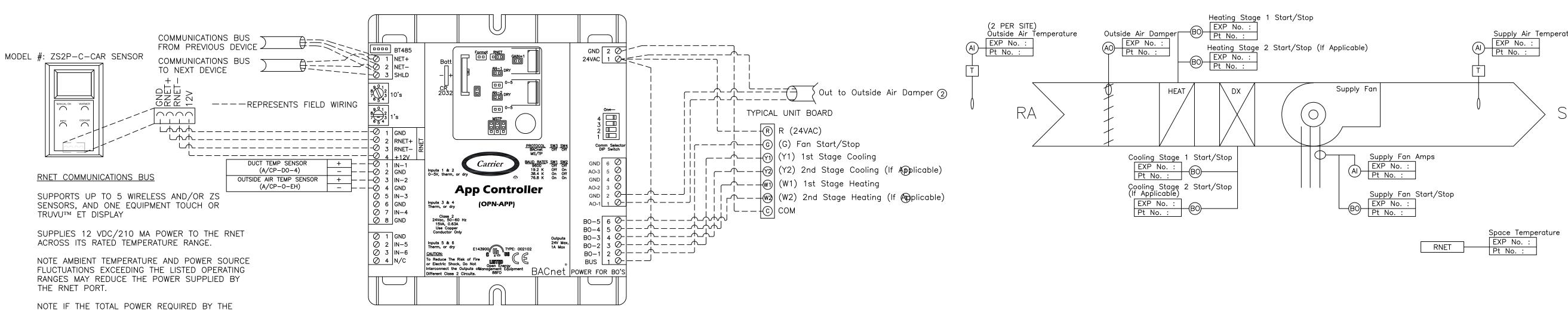
SENSORS ON THE RNET EXCEEDS THE POWER SUPPLIED BY THE RNET PORT, USE AN EXTERNAL

POWER SOURCE.

THE RNET PORT.

POWER SOURCE.

NOTE IF THE TOTAL POWER REQUIRED BY THE SENSORS ON THE RNET EXCEEDS THE POWER SUPPLIED BY THE RNET PORT, USE AN EXTERNAL





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DEL REY ELEMENTARY SCHOOL **VICTOR ELEMENTARY** SCHOOL DISTRICT

15332 DEL REY DR. VICTORVILLE, CA 92395

upply Air Temperature

NOT TO SCAL

REGISTRATION/SIGNATURE

CONTROL DETAILS

M0-3.1

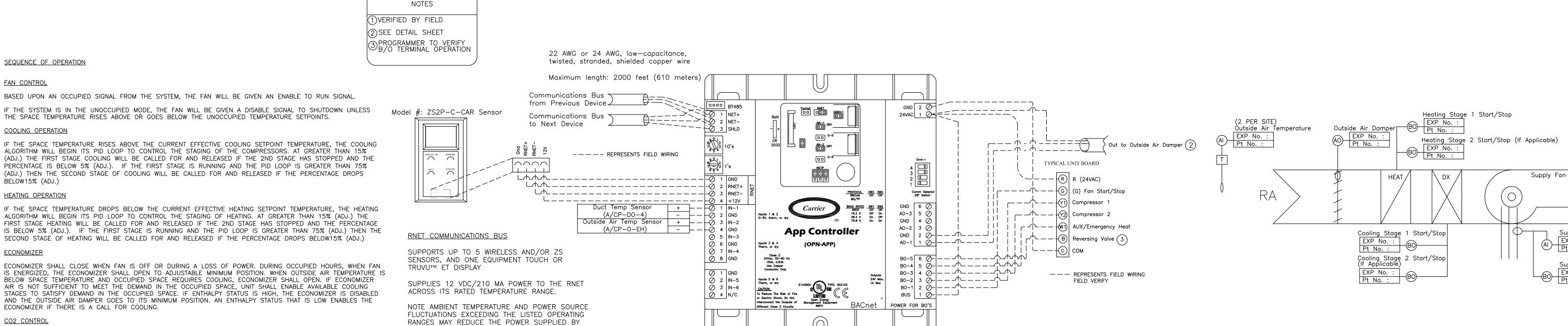
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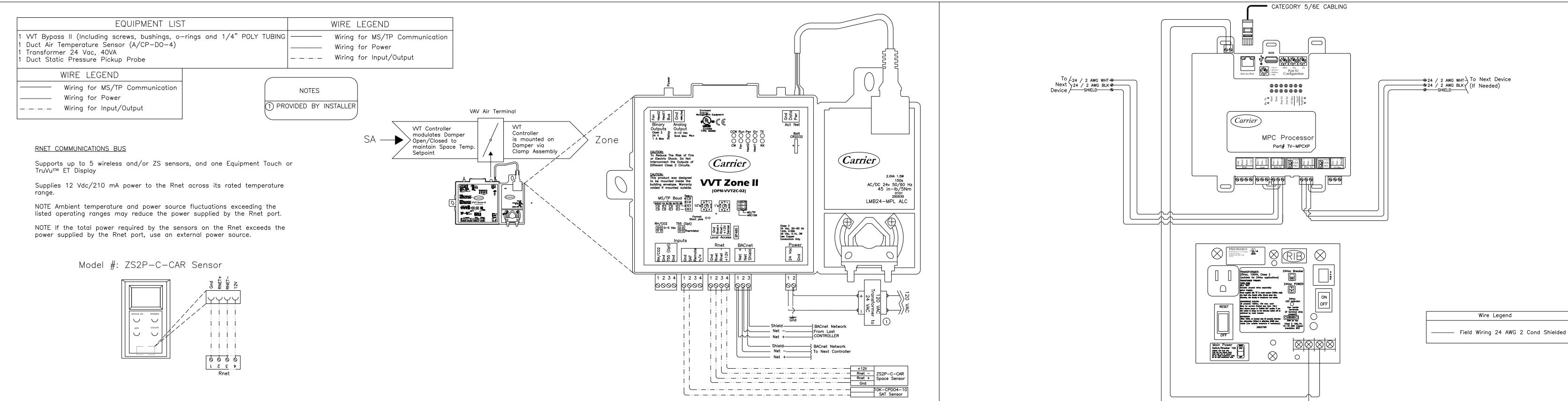
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TV-MPCXP WIRING DIAGRAM

TYPICAL UNIT WIRING GAS/ELECTRIC

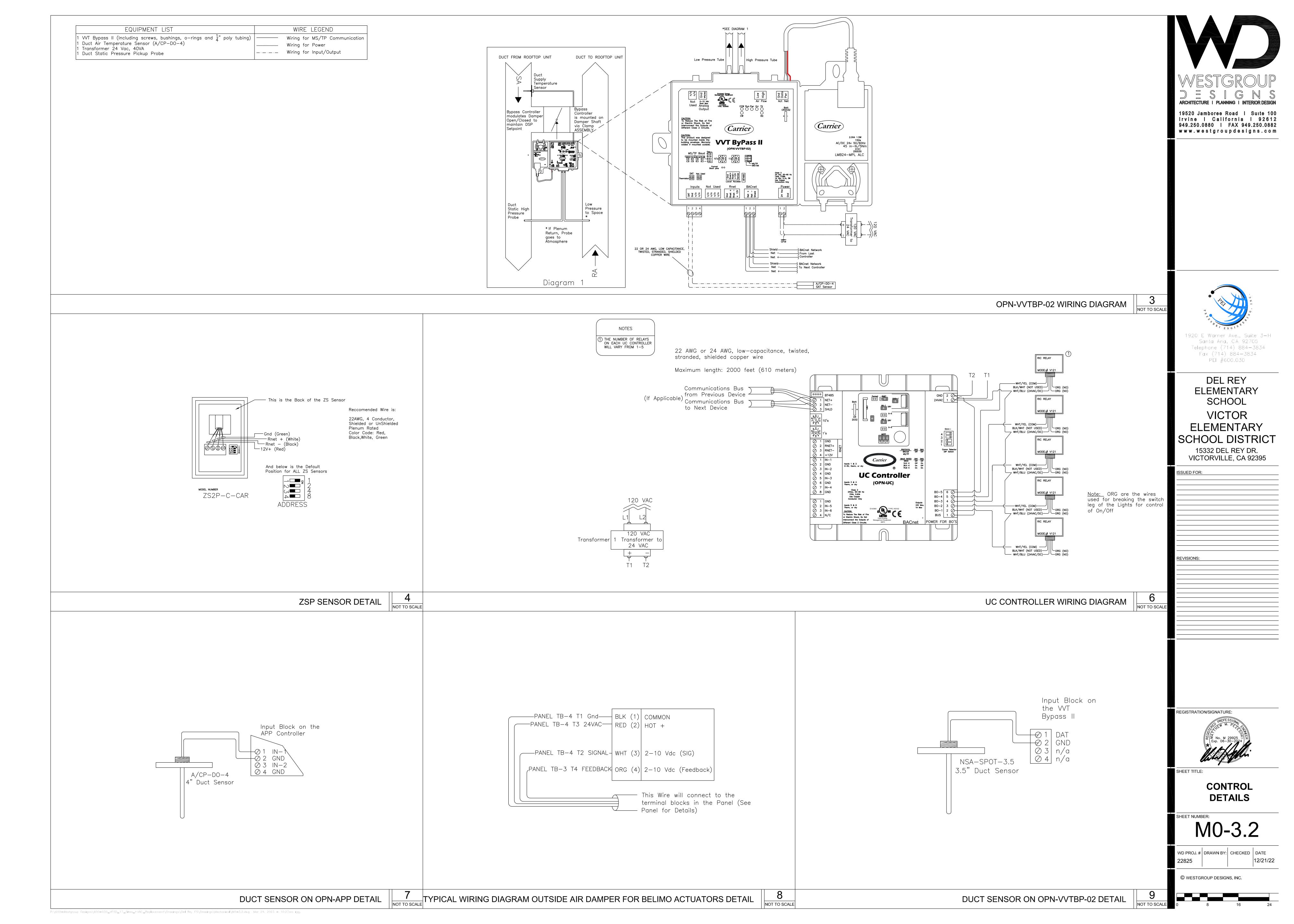
TYPICAL UNIT WIRING HEAT PUMP

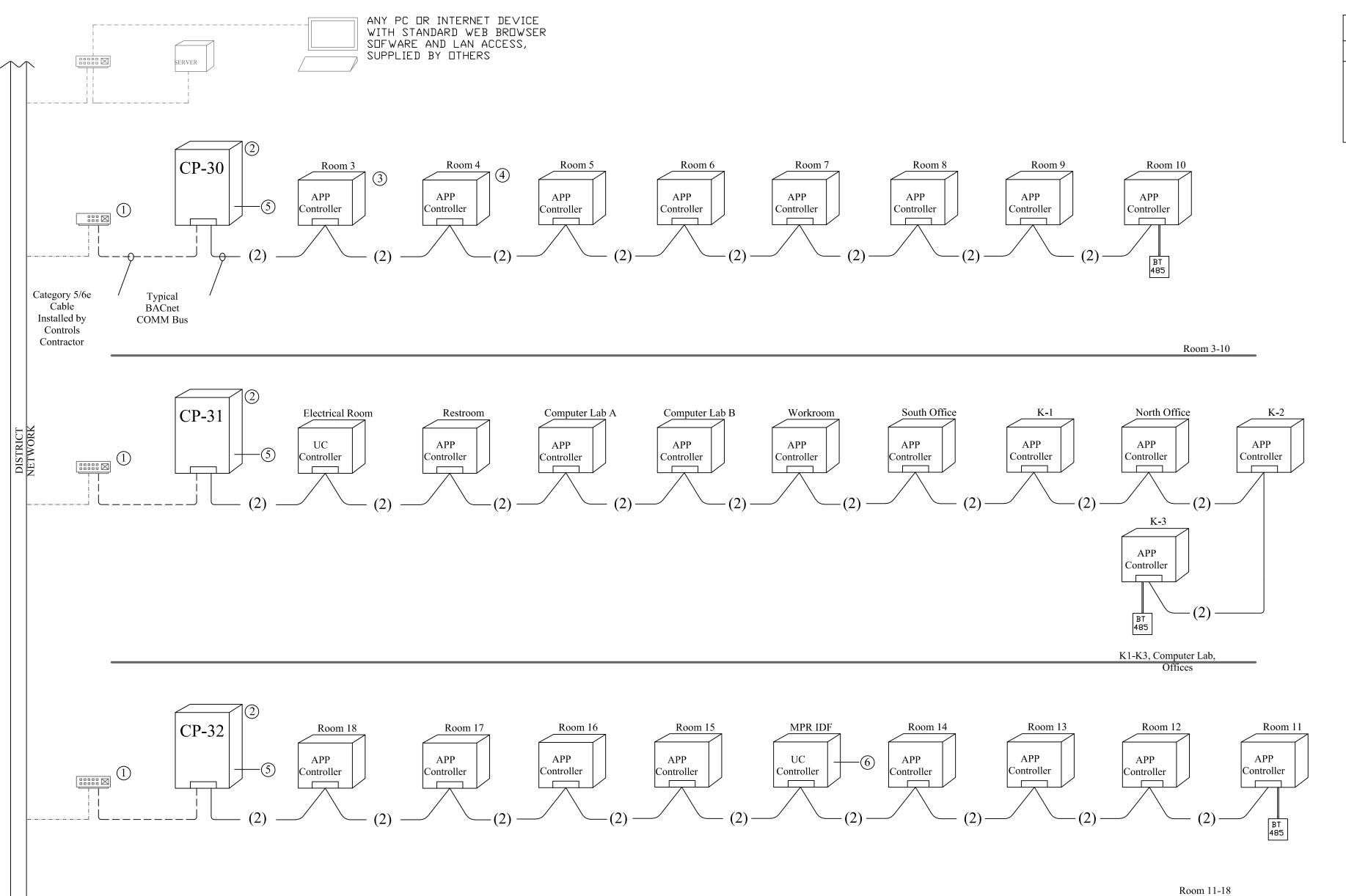


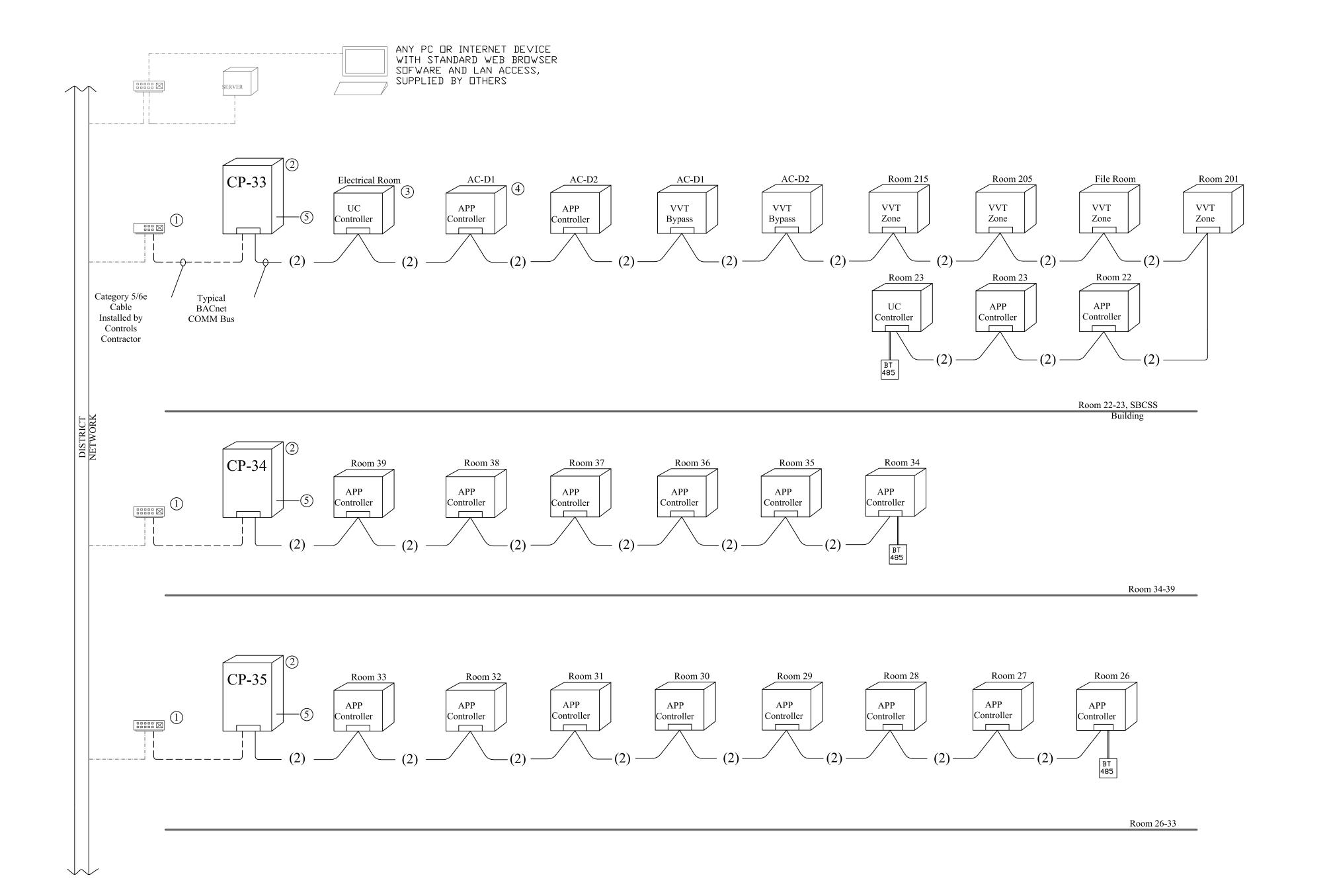


OPN-VVTZC-02 WIRING DIAGRAM

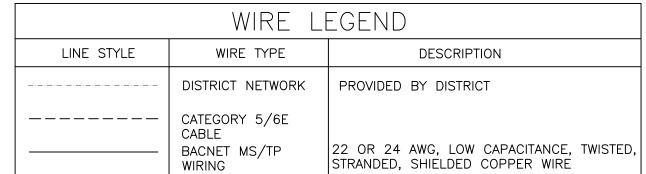
NOT TO SCALE







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(1) SWITCH BY DISTRICT 2 SEE DETAIL SHEET ON PG. MO-3.1 FOR MPC CONTROLLER 3 SEE DETAIL SHEETS ON PG. MO-3.2 FOR UC CONTROLLER 4 SEE DETAIL SHEETS ON PG. MO-3.1 FOR APP CONTROLLER (5) POWER BY MECHANICAL CONTRACTOR 6 FIELD VERIFY LOCATION



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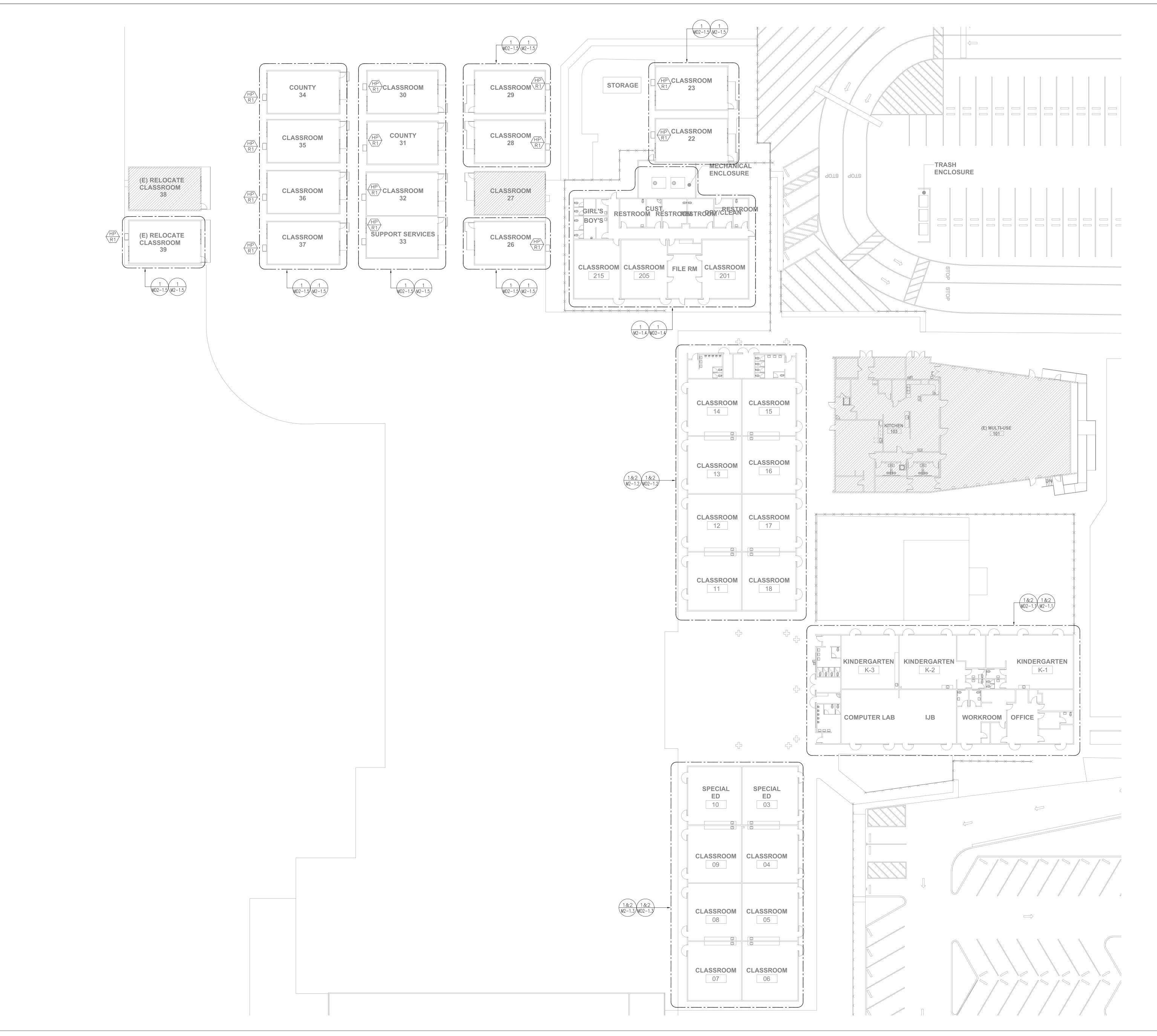


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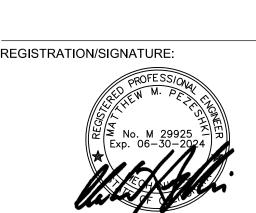


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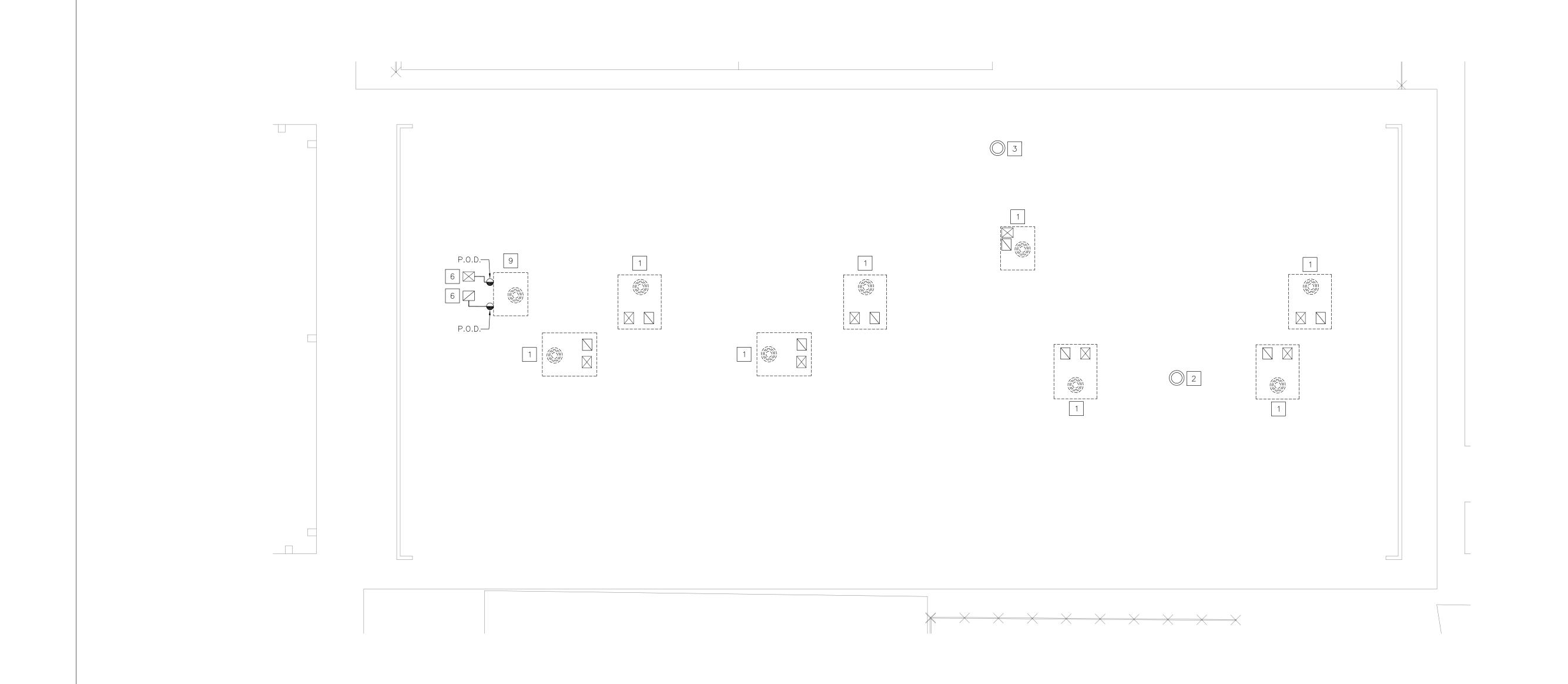
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MECHANICAL SITE PLAN

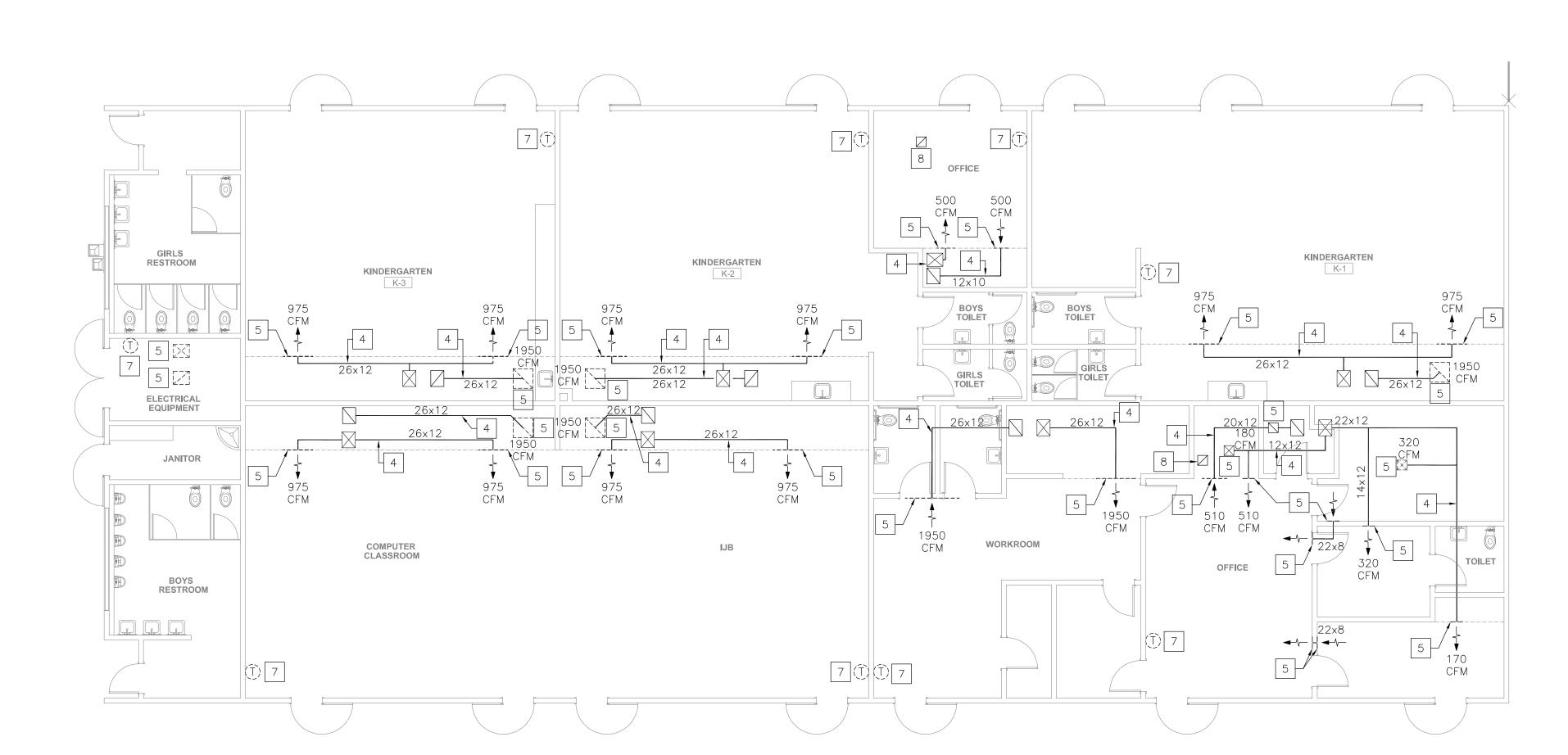
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MECHANICAL DEMOLITION ROOF PLAN - BUILDING A

1/8" = 1'-0"



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1/8" = 1'-0"

□ DEMOLITION NOTES

- 1.— REMOVE EXISTING ROOFTOP AIR CONDITIONING UNIT. DISCONNECT ALL UTILITIES AND DOWN DISCHARGE DUCTWORK. MODIFY DUCTWORK FOR RECONNECTION. MODIFY GAS AND CONDENSATE PIPING ABV. ROOF LINE FOR RECONNECTION. EXISTING ROOF CURB TO REMAIN, PROTECT IN PLACE DURING CONSTRUCTION. PREPARE AREA OF REMOVAL TO RECEIVE NEW ROOFTOP AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 2.— EXISTING ROOFTOP EXHAUST FAN AND ASSOCIATED DUCTWORK TO REMAIN.
 PROTECT IN PLACE DURING CONSTRUCTION.
- 3.— EXISTING ROOFTOP GRAVITY VENTILATOR TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 4.- EXISTING DUCTWORK AND ASSOCIATED ACCESSORIES (DUCT HANGERS, DAMPERS, BY-PASS DAMPERS, FIRE/SMOKE DAMPERS, VVT BOXES, ETC.) TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 5.— REMOVE EXISTING CEILING/SIDEWALL DIFFUSER. PREPARE AREA OF REMOVAL TO RECEIVE NEW CEILING/SIDEWALL DIFFUSER. MODIFY DUCTWORK TO ACCOMMODATE REPLACEMENT DIFFUSER. FIELD VERIFY EXACT LOCATION AND QUANTITY PRIOR TO START OF WORK. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 6.— EXISTING ROOFTOP EXPOSED DUCTWORK AND ASSOCIATED ACCESSORIES TO REMAIN. MODIFY DUCTWORK FOR RECONNECTION. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 7.— REMOVE EXISTING THERMOSTAT AND ASSOCIATED ACCESSORIES. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. PREPARE THE AREA OF REMOVAL TO RECEIVE NEW THERMOSTAT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 8.- EXISTING CEILING DIFFUSER TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 9.— REMOVE EXISTING ROOFTOP HEAT PUMP UNIT. DISCONNECT ALL UTILITIES AND SIDE DISCHARGE DUCTWORK. MODIFY DUCTWORK FOR RECONNECTION. MODIFY CONDENSATE PIPING ABV. ROOF LINE FOR RECONNECTION. EXISTING ROOF CURB TO REMAIN, PROTECT IN PLACE DURING CONSTRUCTION. PREPARE AREA OF REMOVAL TO RECEIVE NEW ROOFTOP HEAT PUMP UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.



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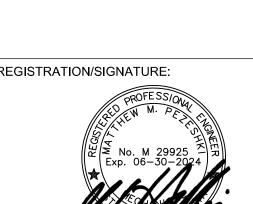


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MECHANICAL DEMOLITION FLOOR PLAN - BUILDING A

HEET NUMBER:

MD2-1_'

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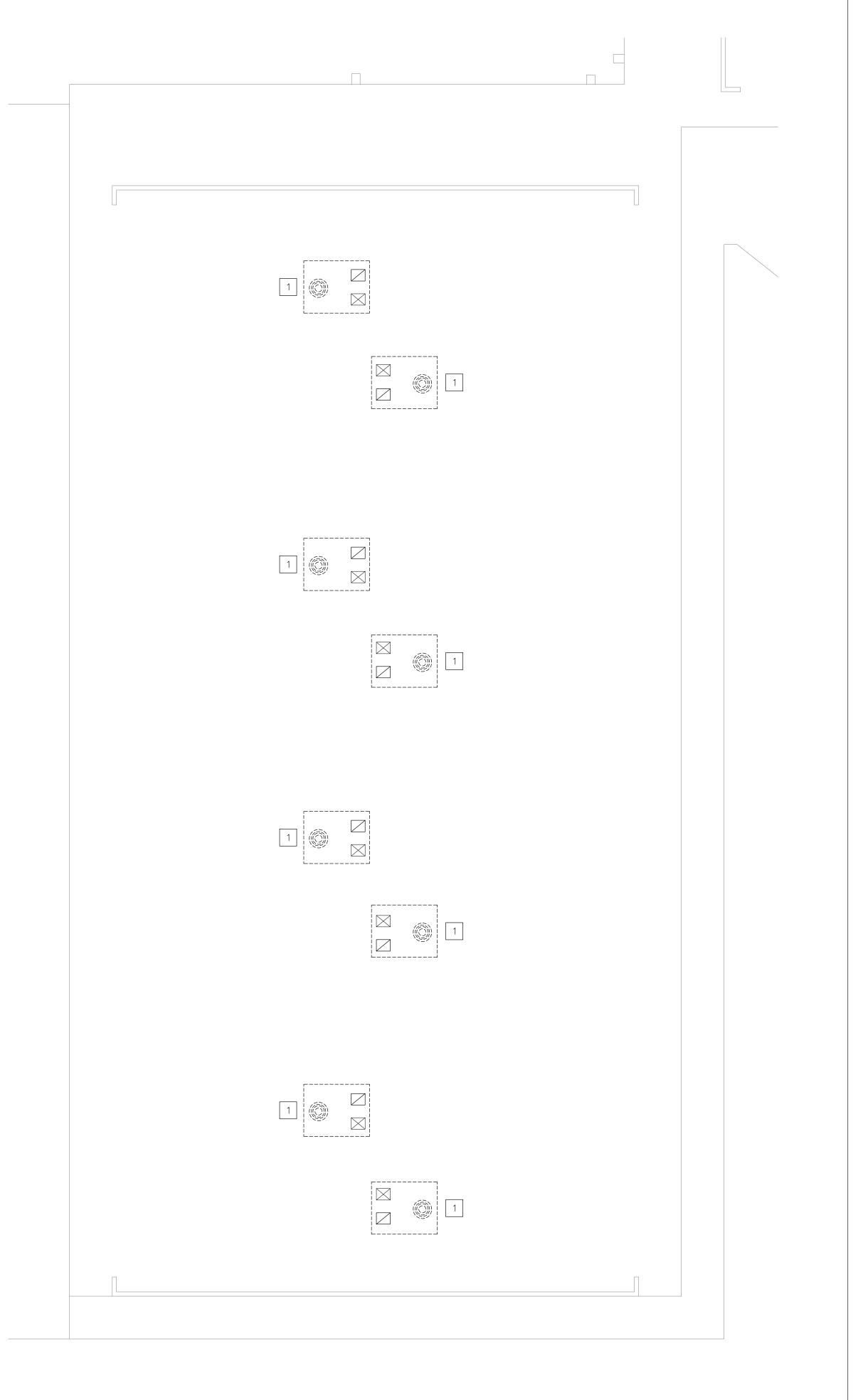
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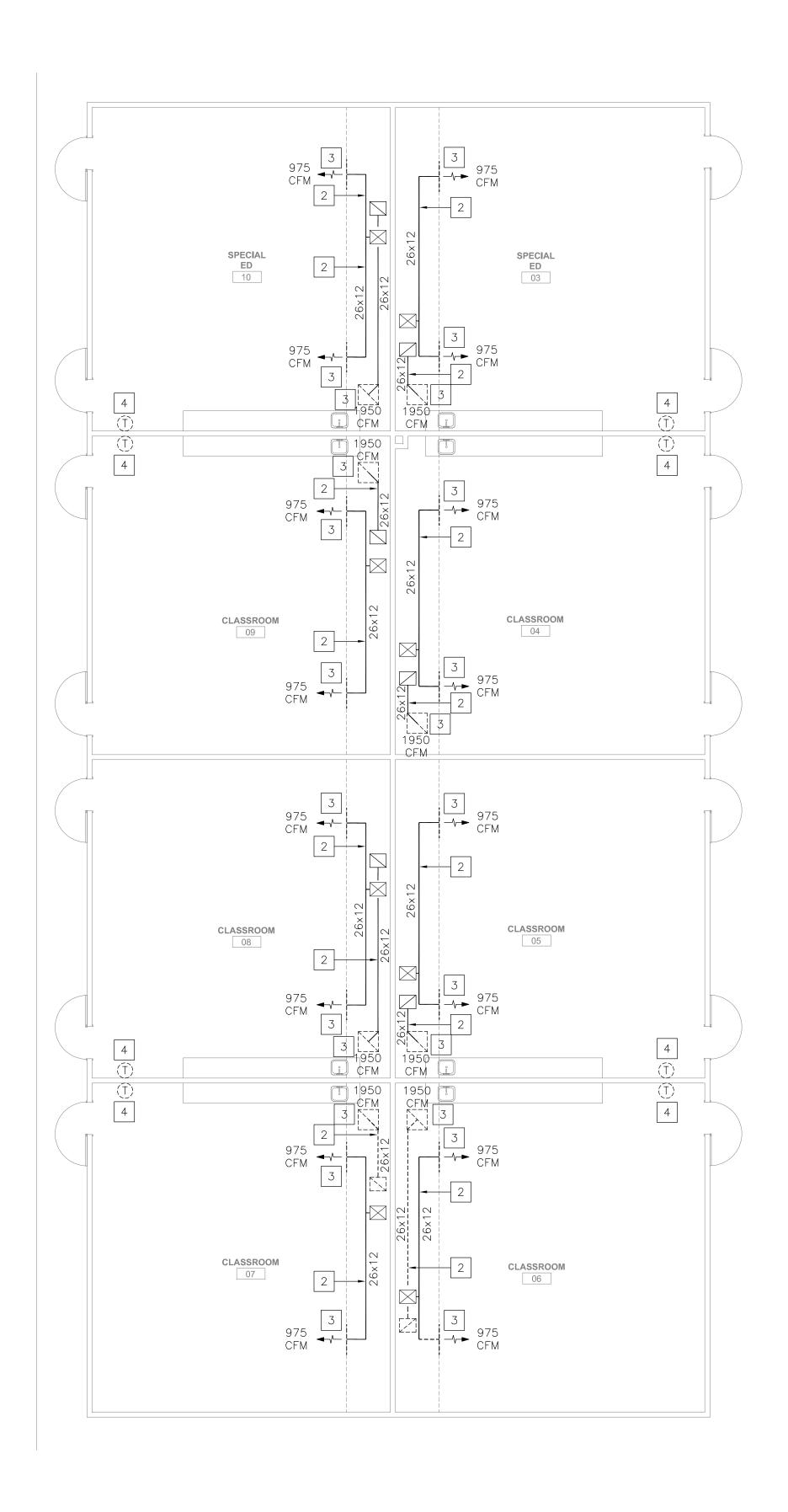
GENERAL DEMOLITION NOTES

G1. THIS DRAWING HAS BEEN GENERATED BASED ON EXISTING RECORD DRAWINGS AND IS SHOWN FOR REFERENCE ONLY. IT IS NOT NECESSARILY INDICATING THE EXACT LAYOUT, SIZE, LOCATION, AND DIMENSIONS OF THE EXISTING SYSTEM.

G2. CONTRACTOR TO FIELD-VERIFY ALL EXISTING MECHANICAL COMPONENTS PRIOR TO BID AND NOTIFY AOR/MEOR OF ANY DISCREPANCIES. DISCREPANCIES NOT NOTED PRIOR TO BID SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED WORK NECESSARY TO ACCOMMODATE THE INSTALLATION OF ALL NEW MECHANICAL WORK SHOWN.



MECHANICAL DEMOLITION ROOF PLAN - BUILDING B



□ DEMOLITION NOTES

- 1.— REMOVE EXISTING ROOFTOP AIR CONDITIONING UNIT. DISCONNECT ALL UTILITIES AND DOWN DISCHARGE DUCTWORK. MODIFY DUCTWORK FOR RECONNECTION. MODIFY GAS AND CONDENSATE PIPING ABV. ROOF LINE FOR RECONNECTION. EXISTING ROOF CURB TO REMAIN, PROTECT IN PLACE DURING CONSTRUCTION. PREPARE AREA OF REMOVAL TO RECEIVE NEW ROOFTOP AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 2.- EXISTING DUCTWORK AND ASSOCIATED ACCESSORIES (DUCT HANGERS, DAMPERS, BY-PASS DAMPERS, FIRE/SMOKE DAMPERS, VVT BOXES, ETC.) TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 3.- REMOVE EXISTING CEILING/SIDEWALL DIFFUSER. PREPARE AREA OF REMOVAL TO RECEIVE NEW CEILING/SIDEWALL DIFFUSER. MODIFY DUCTWORK TO ACCOMMODATE REPLACEMENT DIFFUSER. FIELD VERIFY EXACT LOCATION AND QUANTITY PRIOR TO START OF WORK. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 4.- REMOVE EXISTING THERMOSTAT AND ASSOCIATED ACCESSORIES. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. PREPARE THE AREA OF REMOVAL TO RECEIVE NEW THERMOSTAT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL DEMOLITION NOTES

G1. THIS DRAWING HAS BEEN GENERATED BASED ON EXISTING RECORD DRAWINGS AND IS SHOWN FOR REFERENCE ONLY. IT IS NOT NECESSARILY INDICATING THE EXACT LAYOUT, SIZE, LOCATION, AND DIMENSIONS OF THE EXISTING SYSTEM.

G2. CONTRACTOR TO FIELD-VERIFY ALL EXISTING MECHANICAL COMPONENTS PRIOR TO BID



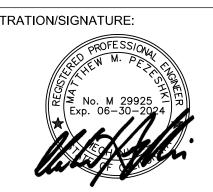
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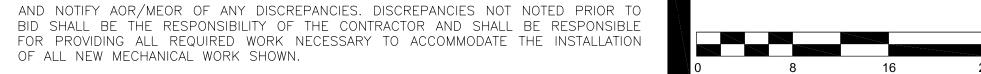


MECHANICAL DEMOLITION PLANS -BUILDING B

MD2-1.2

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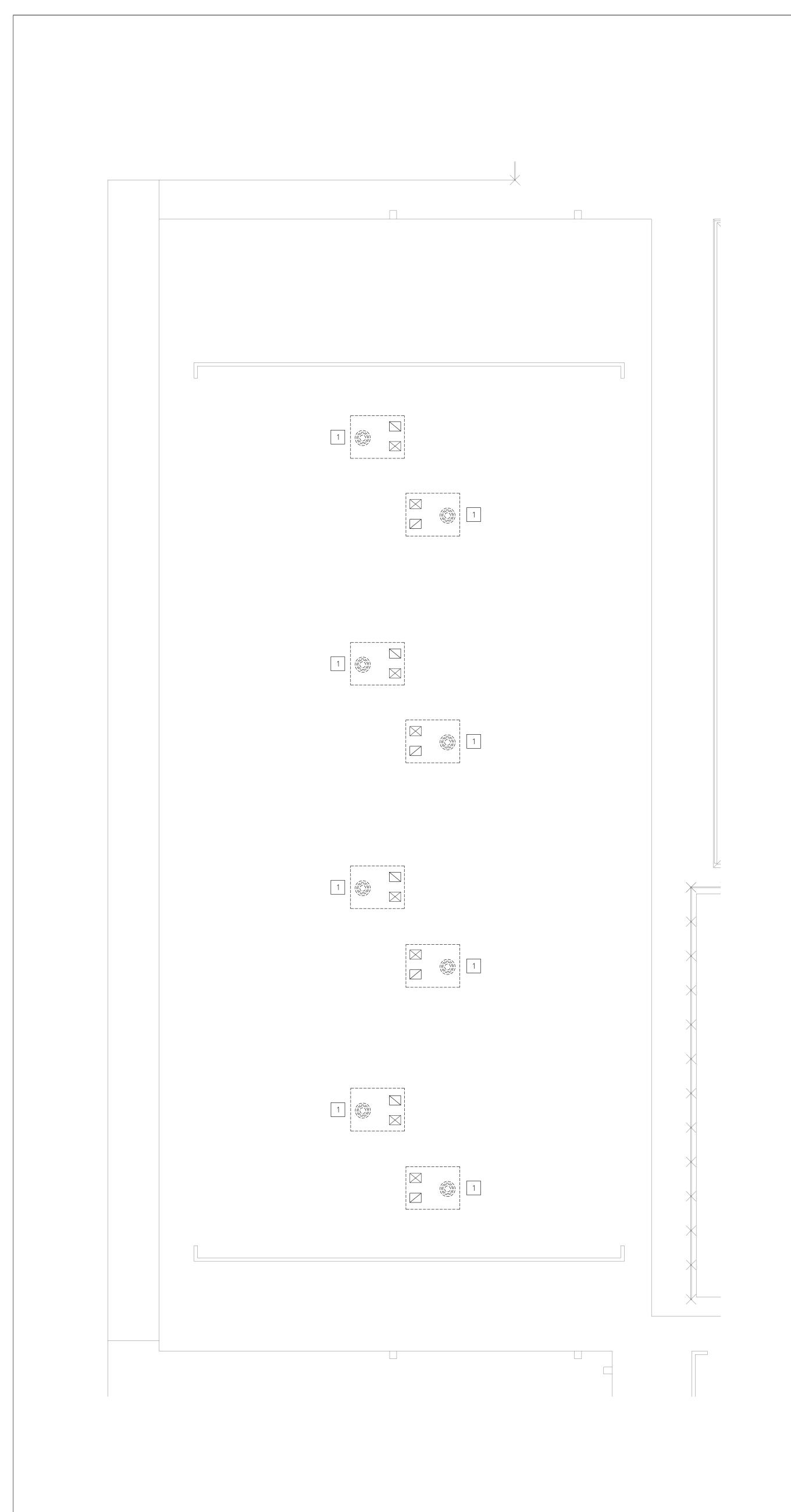


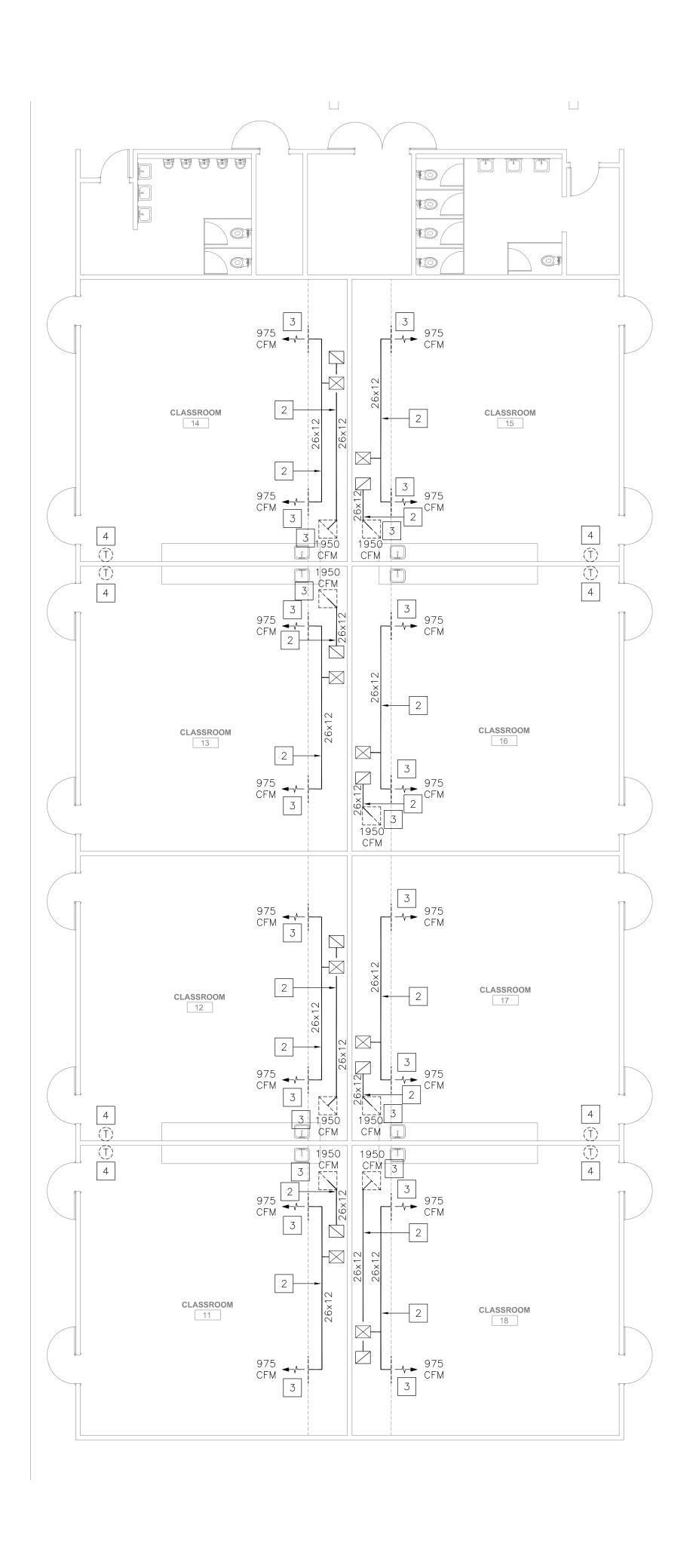
1/8" = 1'-0"



NORTH

1/8" = 1'-0"







- 1.— REMOVE EXISTING ROOFTOP AIR CONDITIONING UNIT. DISCONNECT ALL UTILITIES AND DOWN DISCHARGE DUCTWORK. MODIFY DUCTWORK FOR RECONNECTION. MODIFY GAS AND CONDENSATE PIPING ABV. ROOF LINE FOR RECONNECTION. EXISTING ROOF CURB TO REMAIN, PROTECT IN PLACE DURING CONSTRUCTION. PREPARE AREA OF REMOVAL TO RECEIVE NEW ROOFTOP AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 2.- EXISTING DUCTWORK AND ASSOCIATED ACCESSORIES (DUCT HANGERS, DAMPERS, BY-PASS DAMPERS, FIRE/SMOKE DAMPERS, VVT BOXES, ETC.) TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 3.- REMOVE EXISTING CEILING/SIDEWALL DIFFUSER. PREPARE AREA OF REMOVAL TO RECEIVE NEW CEILING/SIDEWALL DIFFUSER. MODIFY DUCTWORK TO ACCOMMODATE REPLACEMENT DIFFUSER. FIELD VERIFY EXACT LOCATION AND QUANTITY PRIOR TO START OF WORK. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 4.- REMOVE EXISTING THERMOSTAT AND ASSOCIATED ACCESSORIES. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. PREPARE THE AREA OF REMOVAL TO RECEIVE NEW THERMOSTAT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.



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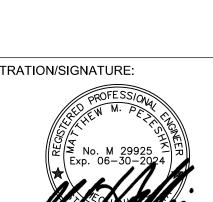
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MECHANICAL DEMOLITION PLANS -BUILDING C

MD2-1.3

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1/8" = 1'-0"

GENERAL DEMOLITION NOTES

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G2. CONTRACTOR TO FIELD-VERIFY ALL EXISTING MECHANICAL COMPONENTS PRIOR TO BID AND NOTIFY AOR/MEOR OF ANY DISCREPANCIES. DISCREPANCIES NOT NOTED PRIOR TO BID SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED WORK NECESSARY TO ACCOMMODATE THE INSTALLATION OF ALL NEW MECHANICAL WORK SHOWN.



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□ DEMOLITION NOTES

- 1.— REMOVE EXISTING GRADE MOUNTED AIR CONDITIONING UNIT. DISCONNECT ALL UTILITIES AND SIDE DISCHARGE DUCTWORK. MODIFY DUCTWORK FOR RECONNECTION. MODIFY GAS PIPING FOR RECONNECTION. REMOVE EXISTING CONDENSATE DRAIN PIPING IN ITS ENTIRETY. EXISTING CONCRETE PAD TO REMAIN, PROTECT IN PLACE DURING CONSTRUCTION. PREPARE AREA OF REMOVAL TO RECEIVE NEW GRADE MOUNTED AIR CONDITIONING UNIT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 2.— EXISTING DUCTWORK AND ASSOCIATED ACCESSORIES (DUCT HANGERS, DAMPERS, BY—PASS DAMPERS, FIRE/SMOKE DAMPERS, VVT BOXES, ETC.) TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 3.— REMOVE ALL EXISTING SUPPLY/RETURN AIR CEILING/SIDEWALL DIFFUSERS.

 PREPARE AREA OF REMOVAL TO RECEIVE NEW CEILING/SIDEWALL DIFFUSER.

 MODIFY DUCTWORK TO ACCOMMODATE REPLACEMENT DIFFUSER. FIELD VERIFY
 EXACT LOCATION AND QUANTITY PRIOR TO START OF WORK. SEE RENOVATION
 DRAWINGS FOR ADDITIONAL INFORMATION.
- 4.— REMOVE EXISTING THERMOSTAT AND ASSOCIATED ACCESSORIES. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. PREPARE THE AREA OF REMOVAL TO RECEIVE NEW THERMOSTAT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 5.— ALL EXISTING EXHAUST AIR CEILING DIFFUSERS TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.



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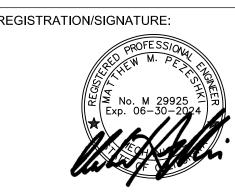


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MECHANICAL
DEMOLITION FLOOR
PLAN - BUILDING SBCSS

MD2-1.4

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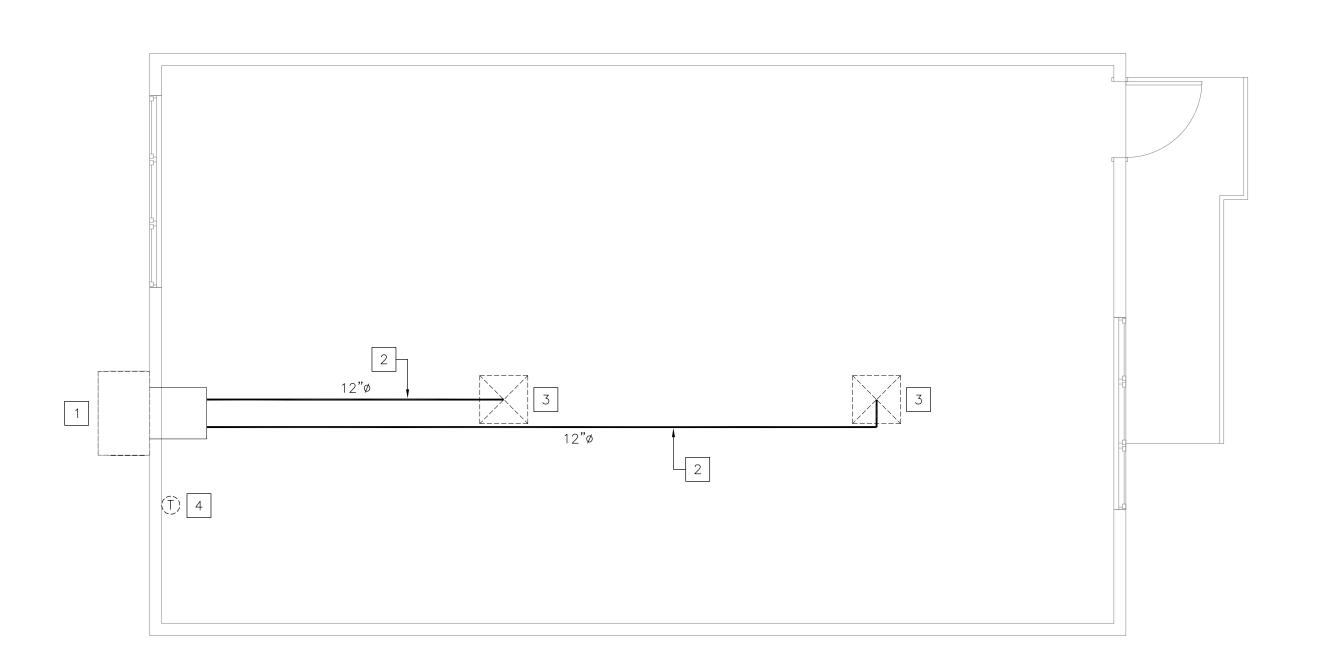
GENERAL DEMOLITION NOTES

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G2. CONTRACTOR TO FIELD-VERIFY ALL EXISTING MECHANICAL COMPONENTS PRIOR TO BID AND NOTIFY AOR/MEOR OF ANY DISCREPANCIES. DISCREPANCIES NOT NOTED PRIOR TO BID SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED WORK NECESSARY TO ACCOMMODATE THE INSTALLATION OF ALL NEW MECHANICAL WORK SHOWN.

NORTH

1/4" = 1'-0"



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□ DEMOLITION NOTES

- 1.- REMOVE EXISTING WALL MOUNTED HEAT PUMP UNIT. DISCONNECT ALL UTILITIES AND DUCTWORK. MODIFY EXISTING DUCTWORK FOR RECONNECTION. REMOVE EXISTING CONDENSATE DRAIN PIPING IN ITS ENTIRETY. PREPARE AREA OF REMOVAL TO RECEIVE NEW SOUND ISOLATION CURB AND WALL MOUNTED HEAT PUMP. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 2.- EXISTING DUCTWORK AND ASSOCIATED ACCESSORIES (DUCT HANGERS, DAMPERS, BY-PASS DAMPERS, FIRE/SMOKE DAMPERS, VVT BOXES, ETC.) TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 3.- REMOVE EXISTING CEILING DIFFUSER. PREPARE AREA OF REMOVAL TO RECEIVE NEW CEILING DIFFUSER. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.
- 4.- REMOVE EXISTING THERMOSTAT AND ASSOCIATED ACCESSORIES. FIELD VERIFY EXACT LOCATION PRIOR TO START OF WORK. PREPARE THE AREA OF REMOVAL TO RECEIVE NEW THERMOSTAT. SEE RENOVATION DRAWINGS FOR ADDITIONAL INFORMATION.



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MECHANICAL DEMOLITION FLOOR PLAN - RELOCATABLES

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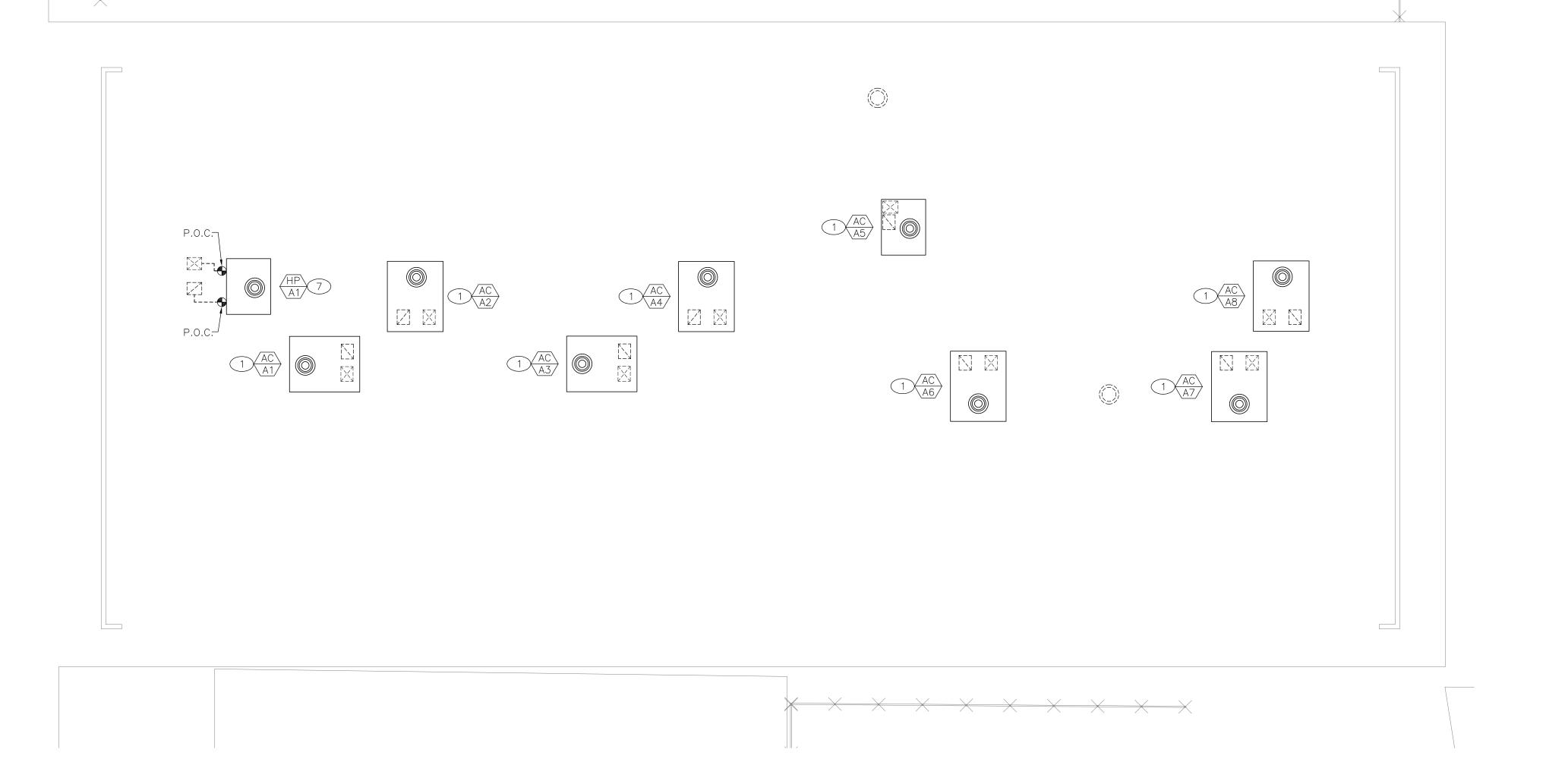
G1. THIS DRAWING HAS BEEN GENERATED BASED ON EXISTING RECORD DRAWINGS AND IS SHOWN FOR REFERENCE ONLY. IT IS NOT NECESSARILY INDICATING THE EXACT LAYOUT, SIZE, LOCATION, AND DIMENSIONS OF THE EXISTING SYSTEM. G2. CONTRACTOR TO FIELD-VERIFY ALL EXISTING MECHANICAL COMPONENTS PRIOR TO BID AND NOTIFY AOR/MEOR OF ANY DISCREPANCIES. DISCREPANCIES NOT NOTED PRIOR TO

MECHANICAL DEMOLITION FLOOR PLAN - RELOCATABLE (SINGLE UNIT)

1/4" = 1'-0"

BID SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED WORK NECESSARY TO ACCOMMODATE THE INSTALLATION OF ALL NEW MECHANICAL WORK SHOWN.

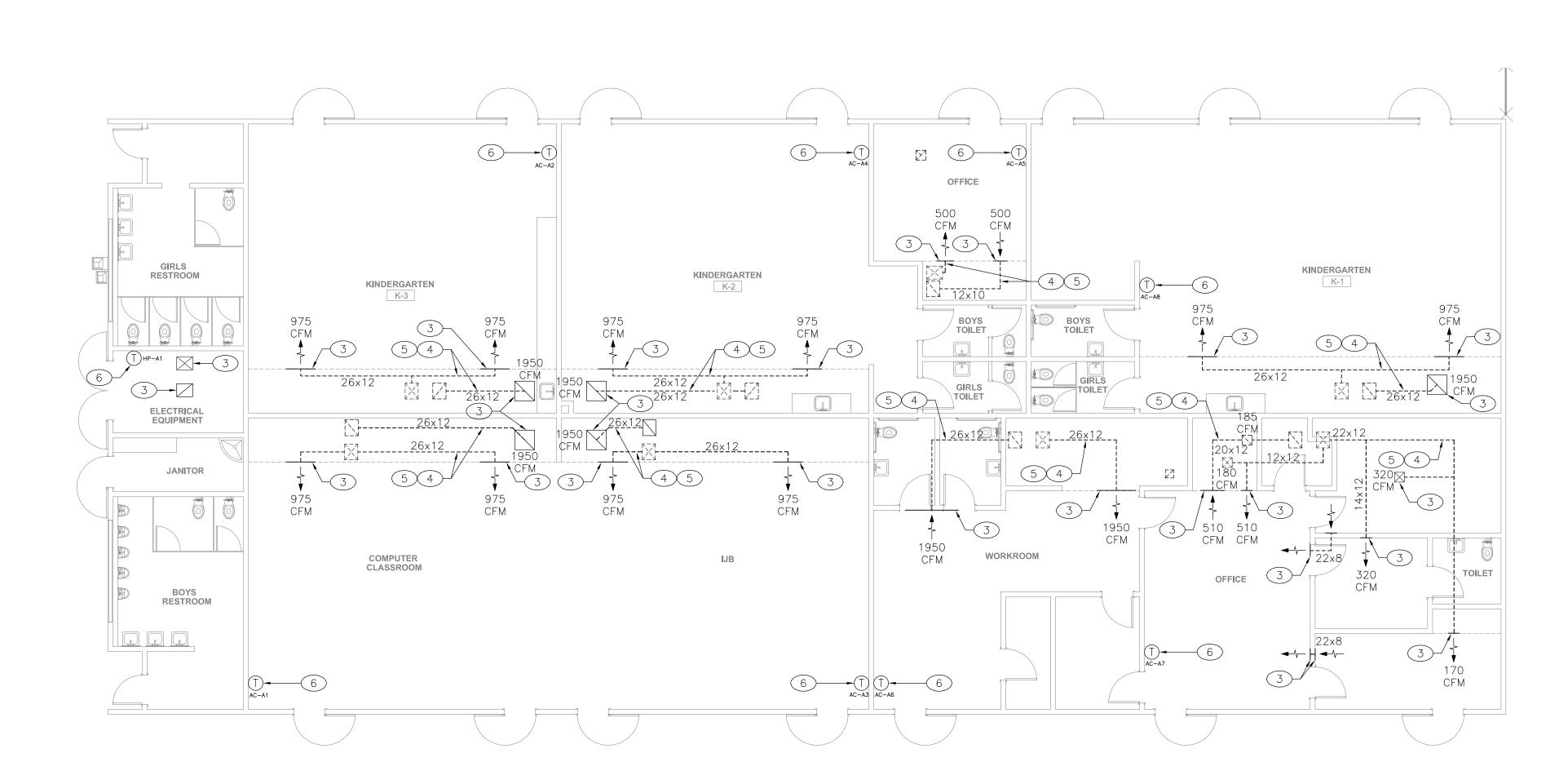
GENERAL DEMOLITION NOTES





MECHANICAL RENOVATION ROOF PLAN - BUILDING A

21/8" = 1'-0"





1/8" = 1'-0"

O PLAN NOTES

- 1.— ROOFTOP PACKAGED AIR CONDITIONER UNIT. SEE SCHEDULE AND DETAILS 1 & 4/M0-2.1 FOR ADDITIONAL INFORMATION. RECONNECT LINE SIZE GAS PIPING COMPLETE WITH A LISTED YELLOW FLEXIBLE CONNECTOR, S.O.C., UNION AND 6" DIRT LEG. PROVIDE 3/4" CD COMPLETE WITH TRAP AND VENT. EXTEND AND CONNECT TO EXISTING 3/4" CD ABV. ROOF LINE. SEE DETAIL 2/M0-2.1 FOR ADDITIONAL INFORMATION.
- 2.—ROOFTOP HEAT PUMP UNIT. SEE SCHEDULE AND DETAILS 1 & 4/M0—2.1 FOR ADDITIONAL INFORMATION. PROVIDE 3/4" CD COMPLETE WITH TRAP AND VENT. EXTEND AND CONNECT TO EXISTING 3/4" CD ABV. ROOF LINE. SEE DETAIL 2/M0—2.1 FOR ADDITIONAL INFORMATION.
- 3.- PROVIDE NEW REPLACEMENT CEILING/SIDEWALL AIR DIFFUSER, CONNECT TO EXISTING MODIFIED DUCTWORK.
- 4.— CLEAN ALL EXISTING DUCTWORK IN ITS ENTIRETY IN EACH SPACE PER REQUIREMENTS OF SPECIFICATION SECTION 23 01 30.
- 5.- PERFORM A TEST AND BALANCE OF EACH SPACE. SUBMIT TEST AND BALANCE REPORT.
- 6.— DIGITAL THERMOSTAT WITH CO2 SENSOR WITH DIGITAL DISPLAY, 2—HOUR OVERRIDE BUTTON AND CO2 ADJUSTMENT BUTTON. FOR MOUNTING HEIGHT SEE SHEET MO—1.0. COORDINATE LOCATION OF THERMOSTAT WITH ROOM FURNITURE AND ARCHITECT PRIOR TO INSTALLATION.
- 7.—ROOFTOP PACKAGED HEAT PUMP UNIT. SEE SCHEDULE AND DETAILS

 1 & 4/M0-2.1 FOR ADDITIONAL INFORMATION. PROVIDE 3/4" CD COMPLETE WITH TRAP

 AND VENT. EXTEND AND CONNECT TO EXISTING 3/4" CD ABV. ROOF LINE. SEE DETAIL

 2/M0-2.1 FOR ADDITIONAL INFORMATION.



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PROFESSIONAL M. PERSONAL M. P

SHEET TITLE:

MECHANICAL RENOVATION PLANS -BUILDING A

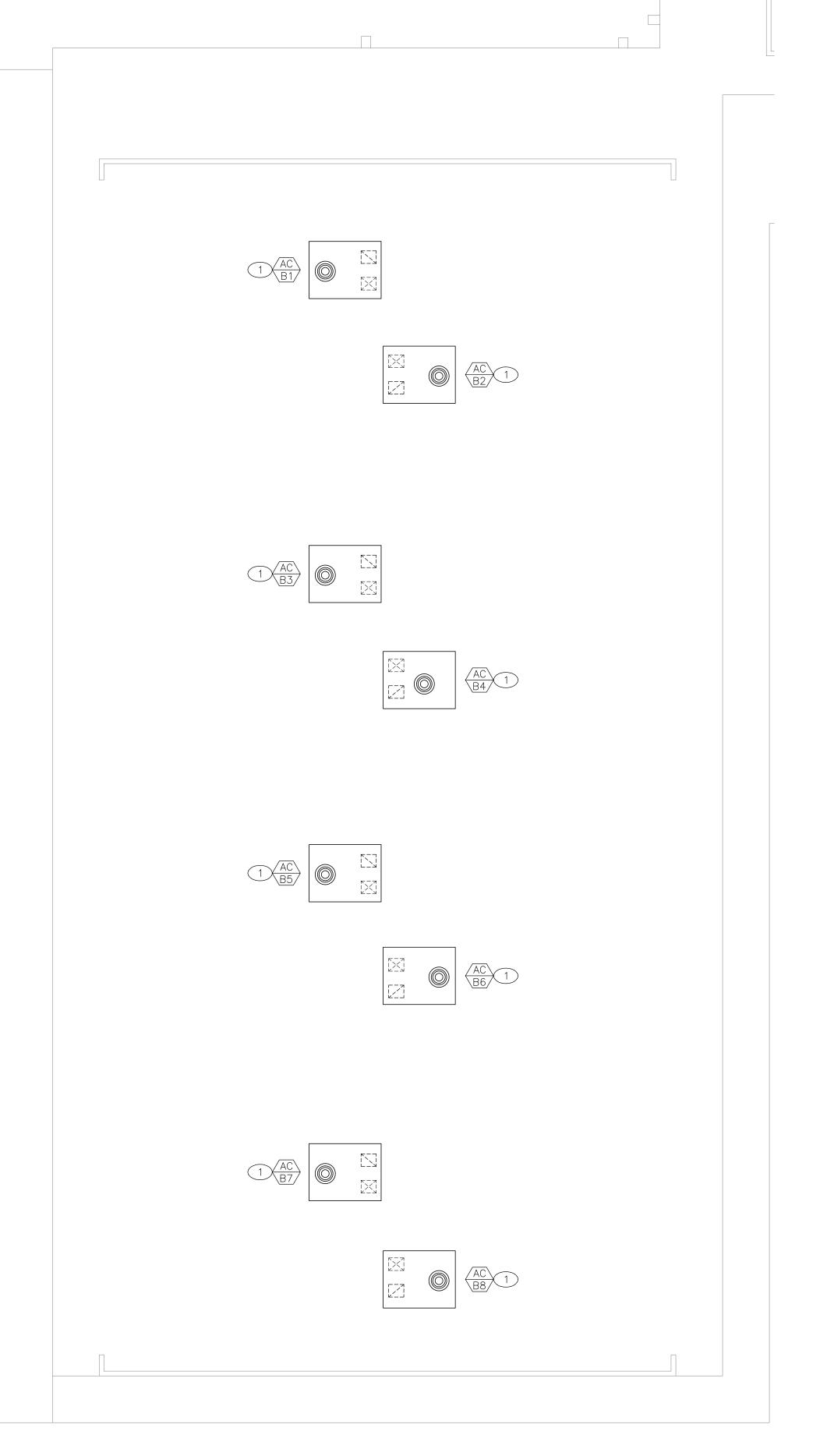
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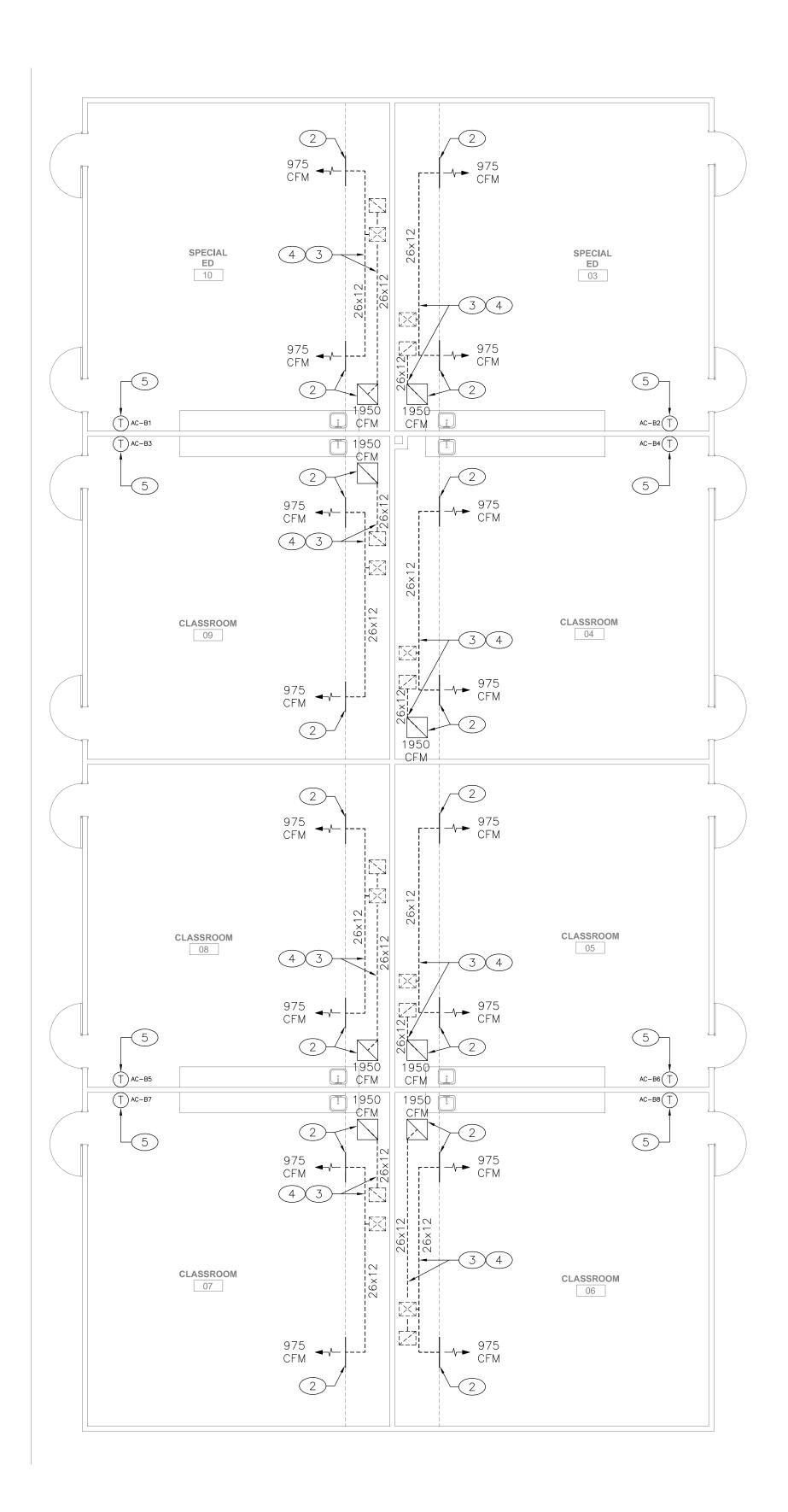
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MECHANICAL RENOVATION FLOOR PLAN - BUILDING A







TO INSTALLATION.

- 1.- ROOFTOP PACKAGED AIR CONDITIONER UNIT. SEE SCHEDULE AND DETAILS 1 & 4/M0-2.1 FOR ADDITIONAL INFORMATION. RECONNECT LINE SIZE GAS PIPING COMPLETE WITH A LISTED YELLOW FLEXIBLE CONNECTOR, S.O.C., UNION AND 6" DIRT LEG. PROVIDE 3/4" CD COMPLETE WITH TRAP AND VENT. EXTEND AND CONNECT TO EXISTING 3/4" CD ABV. ROOF LINE. SEE DETAIL 2/MO-2.1 FOR ADDITIONAL
- 2.- PROVIDE NEW REPLACEMENT CEILING/SIDEWALL AIR DIFFUSER, CONNECT TO EXISTING MODIFIED DUCTWORK.
- 3.— CLEAN ALL EXISTING DUCTWORK IN ITS ENTIRETY IN EACH SPACE PER REQUIREMENTS OF SPECIFICATION SECTION 23 01 30.

COORDINATE LOCATION OF THERMOSTAT WITH ROOM FURNITURE AND ARCHITECT PRIOR

4.- PERFORM A TEST AND BALANCE OF EACH SPACE. SUBMIT TEST AND BALANCE REPORT. 5.- DIGITAL THERMOSTAT WITH CO2 SENSOR WITH DIGITAL DISPLAY, 2-HOUR OVERRIDE BUTTON AND CO2 ADJUSTMENT BUTTON. FOR MOUNTING HEIGHT SEE SHEET MO-1.0.

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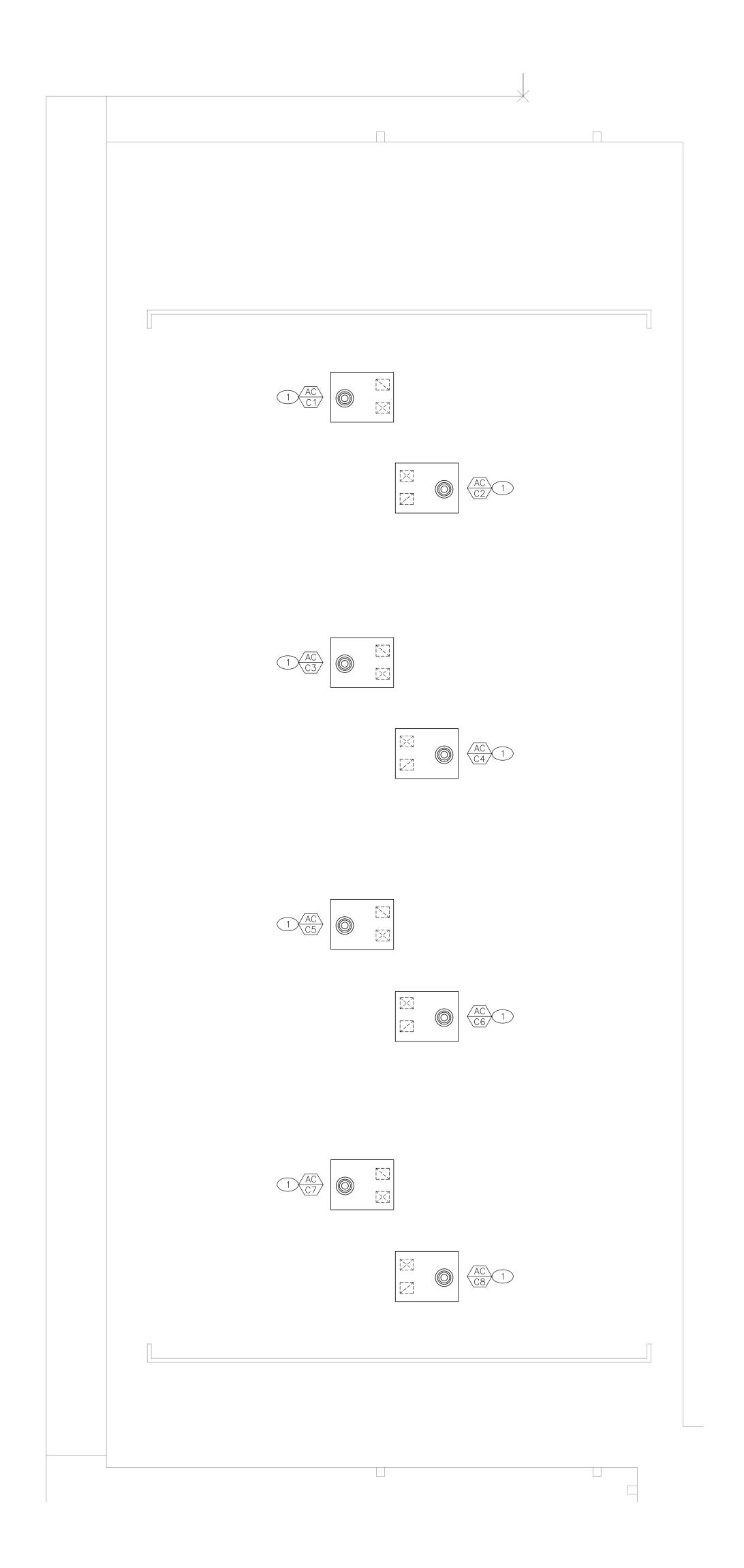
MECHANICAL RENOVATION PLANS -BUILDING B

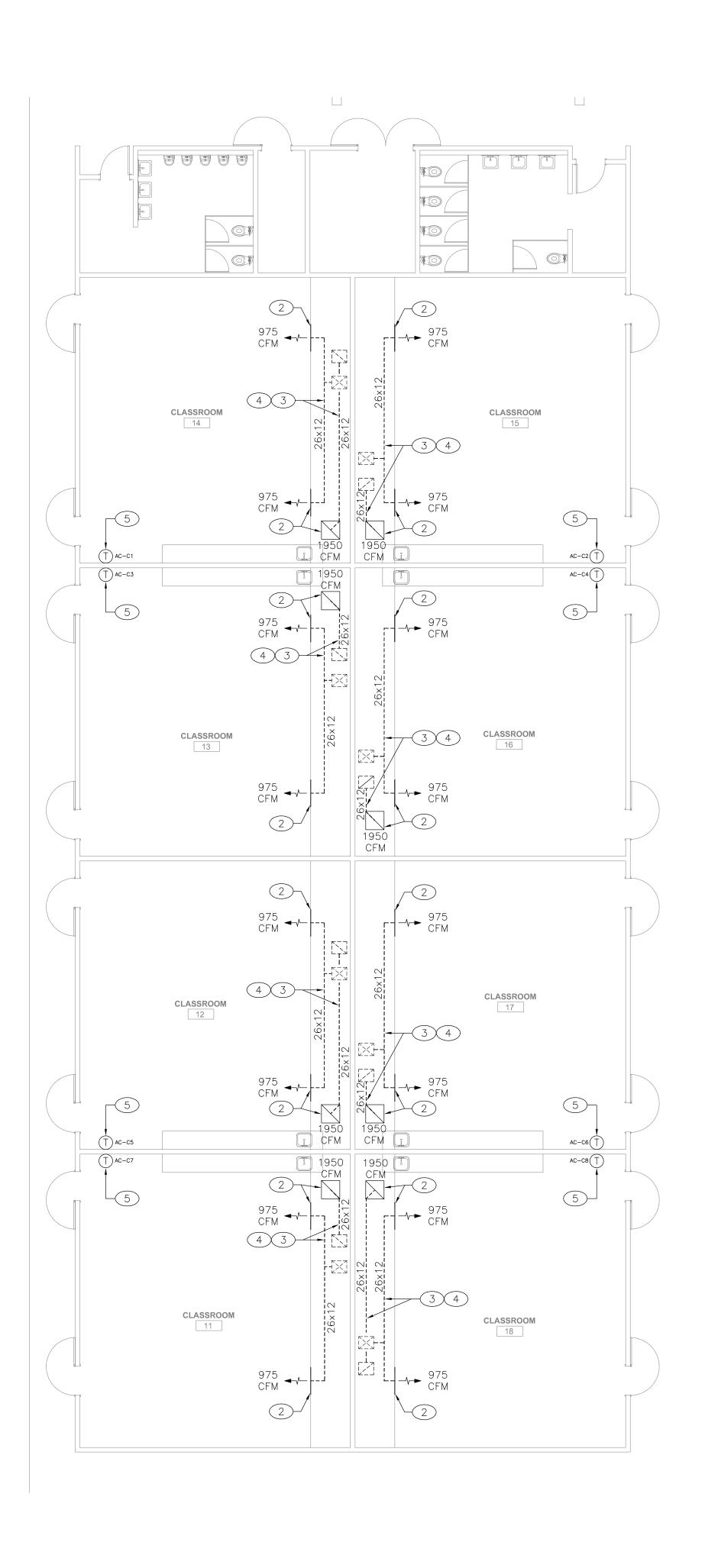
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1/8" = 1'-0"









1/8" = 1'-0"

PLAN NOTES

- 1.— ROOFTOP PACKAGED AIR CONDITIONER UNIT. SEE SCHEDULE AND DETAILS 1 & 4/M0-2.1 FOR ADDITIONAL INFORMATION. RECONNECT LINE SIZE GAS PIPING COMPLETE WITH A LISTED YELLOW FLEXIBLE CONNECTOR, S.O.C., UNION AND 6" DIRT LEG. PROVIDE 3/4" CD COMPLETE WITH TRAP AND VENT. EXTEND AND CONNECT TO EXISTING 3/4" CD ABV. ROOF LINE. SEE DETAIL 2/M0-2.1 FOR ADDITIONAL INFORMATION.
- 2.—PROVIDE NEW REPLACEMENT CEILING/SIDEWALL AIR DIFFUSER, CONNECT TO EXISTING MODIFIED DUCTWORK.
- 3.— CLEAN ALL EXISTING DUCTWORK IN ITS ENTIRETY IN EACH SPACE PER REQUIREMENTS OF SPECIFICATION SECTION 23 01 30.
- 4.- PERFORM A TEST AND BALANCE OF EACH SPACE. SUBMIT TEST AND BALANCE REPORT.
- 5.- DIGITAL THERMOSTAT WITH CO2 SENSOR WITH DIGITAL DISPLAY, 2-HOUR OVERRIDE BUTTON AND CO2 ADJUSTMENT BUTTON. FOR MOUNTING HEIGHT SEE SHEET MO-1.0. COORDINATE LOCATION OF THERMOSTAT WITH ROOM FURNITURE AND ARCHITECT PRIOR TO INSTALLATION.



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S S S S S S ARCHITECTURE I PLANNING I INTERIOR DESIGN

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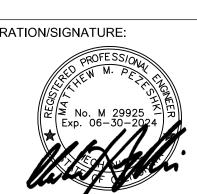


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SCHOOL DISTRICT
15332 DEL REY DR.
VICTORVILLE, CA 92395

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REVISIONS:	



SHEET TITLE:

MECHANICAL RENOVATION PLANS -BUILDING C

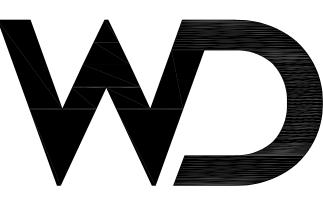
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○ PLAN NOTES

- 1.— GRADE MOUNTED PACKAGED AIR CONDITIONER UNIT. SEE SCHEDULE AND DETAILS
 1 & 4/MO-2.1 FOR ADDITIONAL INFORMATION. RECONNECT LINE SIZE GAS PIPING
 COMPLETE WITH A LISTED YELLOW FLEXIBLE CONNECTOR, S.O.C., UNION AND 6" DIRT
 LEG. PROVIDE 3/4" CD PIPING COMPLETE WITH TRAP AND VENT. EXTEND CD PIPING TO
 AND DISCHARGE INTO EXISTING APPROVED RECEPTOR COMPLETE WITH LEGAL AIR-GAP.
 EXTEND EXISTING CONCRETE PAD AS REQUIRED FOR EDGE CLEARANCE OF THE
 ANCHORAGE BOLTS.
- 2.— PROVIDE NEW REPLACEMENT SUPPLY AND RETURN CEILING/SIDEWALL AIR DIFFUSERS, CONNECT TO EXISTING MODIFIED DUCTWORK. FIELD VERIFY EXACT LOCATION AND QUANTITY PRIOR TO START OF WORK.
- 3.— CLEAN ALL EXISTING DUCTWORK IN ITS ENTIRETY IN EACH SPACE PER REQUIREMENTS OF SPECIFICATION SECTION 23 01 30.
- 4.- PERFORM A TEST AND BALANCE OF EACH SPACE. SUBMIT TEST AND BALANCE REPORT.
- 5.— DIGITAL THERMOSTAT WITH CO2 SENSOR WITH DIGITAL DISPLAY, 2—HOUR OVERRIDE BUTTON AND CO2 ADJUSTMENT BUTTON. FIELD VERIFY EXACT LOCATION AND QUANTITY PRIOR TO START OF WORK. FOR MOUNTING HEIGHT SEE SHEET MO—1.0. COORDINATE LOCATION OF THERMOSTAT WITH ROOM FURNITURE AND ARCHITECT PRIOR TO INSTALLATION.
- 6.- INSTALL ECONOMIZER BAROMETRIC RELIEF DAMPER ON EXISTING RETURN AIR DUCTWORK.



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REGISTRATION/SIGNATURE:

PROFESS/ONA
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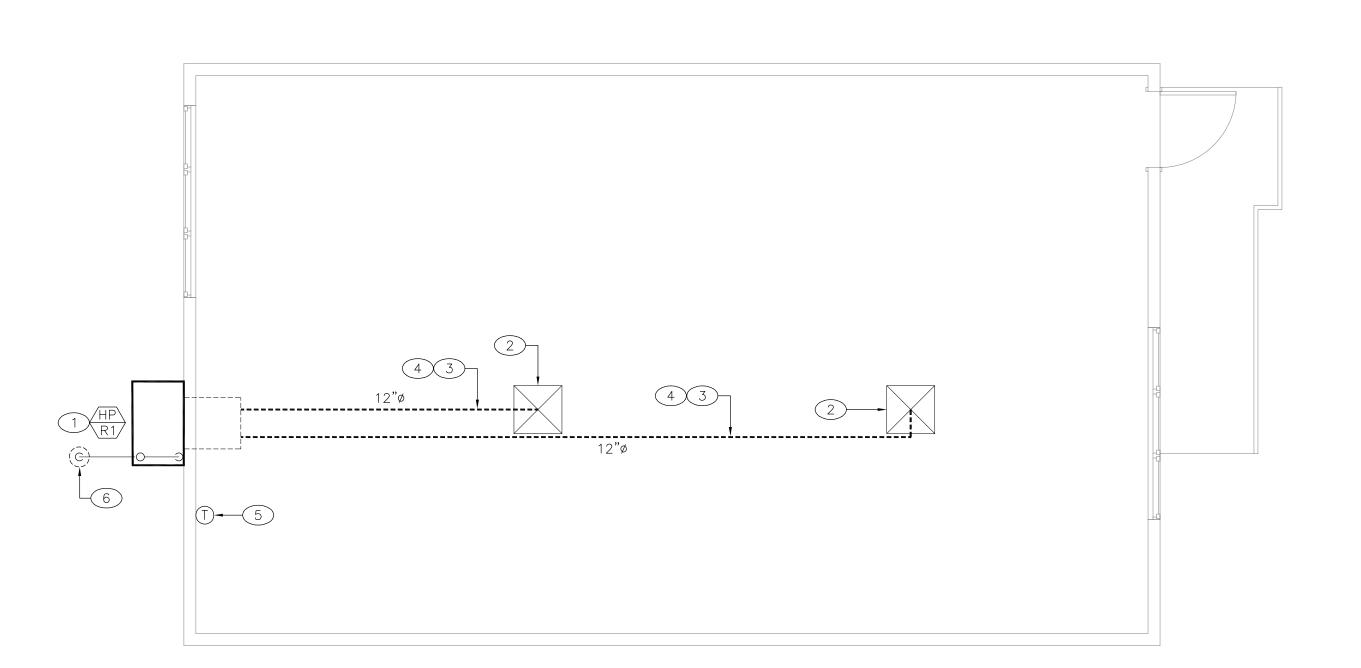
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MECHANICAL RENOVATION FLOOR PLAN - BUILDING SBCSS

EET NUMBER: 1_4

WD PROJ. # DRAWN BY: CHECKED DATE 12/21/





○ PLAN NOTES

- 1.- WALL MOUNTED HEAT PUMP UNIT COMPLETE WITH SOUND CURB. SEE SCHEDULE AND DETAIL 5/M0-2.1 FOR ADDITIONAL INFORMATION.
- 2.- PROVIDE NEW REPLACEMENT AIR DIFFUSER, CONNECT TO EXISTING MODIFIED DUCTWORK.
- 3.- CLEAN ALL EXISTING DUCTWORK IN ITS ENTIRETY IN EACH SPACE PER REQUIREMENTS OF SPECIFICATION SECTION 23 01 30.
- 4.- PERFORM A TEST AND BALANCE OF EACH SPACE. SUBMIT TEST AND BALANCE REPORT.
- 5.- DIGITAL THERMOSTAT WITH CO2 SENSOR WITH DIGITAL DISPLAY, 2-HOUR OVERRIDE BUTTON AND CO2 ADJUSTMENT BUTTON. FOR MOUNTING HEIGHT SEE SHEET MO-1.0. COORDINATE LOCATION OF THERMOSTAT WITH ROOM FURNITURE AND ARCHITECT PRIOR TO INSTALLATION.
- 6.-3/4" CD FROM OUTDOOR A/C UNIT DN. TO BEL. GRADE AND DISCHARGE INTO DRYWELL. PATCH GRADE TO MATCH EXISTING. SEE DETAIL 3/MO-2.1 FOR ADDITIONAL INFORMATION. PROVIDE A DRYWELL FOR OUTDOOR A/C UNITS LOCATED OVER ASPHALT/CONCRETE ONLY. A/C UNITS LOCATED OVER SOFTSCAPE, A DRYWELL IS NOT REQUIRED.



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MECHANICAL

RENOVATION FLOOR PLAN - RELOCATABLES

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MECHANICAL RENOVATION FLOOR PLAN - RELOCATABLE (SINGLE UNIT)